

REFERENCES

1. Naidu R, Smith E, Wong M, Megharaj M, Bolan N, Juhasz A, et al. Remediation of Site Contamination. *Water, Air, & Soil Pollution*. 2013 2013/11/15;224(12):1-2. English.
2. NRC. Committee on Groundwater Clean up Alternatives. In: *Alternatives for Groundwater Clean up*. National Research Council. National Academy Press, Washington, DC. 1994.
3. Naidu R, Bekele DN, Birke V. Permeable Reactive Barrier- cost effective and sustainable remediation of groundwater. In: Naidu R, editor. 6000 Broken Sound Parkway NW | Suite 300 | Boca Raton | FL 33487: CRC Press group, Taylor & Francis Group, LLC; 2014.
4. GCI. Global Contamination Initiative : A proposal for a new global initiative addressing one of the most serious threats to our planet and our future CRC CARE Pty Ltd ACN 113 908 044, University of South Australia , Mawson Lakes, South Australia 5095, 2013.
5. Baskaran S, Kookana RS, Naidu R. Determination of the insecticide imidacloprid in water and soil using high-performance liquid chromatography. *Journal of Chromatography A*. 1997;787(1):271-5.
6. Naidu R, Smith J, McLaren RG, Stevens D, Sumner M, Jackson P. Application of Capillary Electrophoresis to Anion Speciation in Soil Water Extracts II. Arsenic. *Soil Science Society of America Journal*. 2000;64(1):122-8.
7. Krishnamurti GS, Naidu R. Speciation and phytoavailability of cadmium in selected surface soils of South Australia. *Soil Research*. 2000;38(5):991-1004.
8. Krishnamurti GS, Smith L, Naidu R. Method for assessing plant-available cadmium in soils. *Soil Research*. 2000;38(4):823-36.
9. Naidu R, Chen Z. Application of co-electroosmotic capillary electrophoresis for the determination of inorganic anions and carboxylic acids in soil and plant extract with direct UV detection. *Chromatographia*. 2001;54(7-8):495-500.
10. Chen Z, Krishnamurti GS, Naidu R. Separation of phenolic acids in soil and plant tissue extracts by co-electroosmotic capillary electrophoresis with direct UV detection. *Chromatographia*. 2000;53(3-4):179-84.
11. Chen Z, Naidu R, Subramanian A. Separation of chromium (III) and chromium (VI) by capillary electrophoresis using 2, 6-pyridinedicarboxylic acid as a pre-column complexation agent. *Journal of Chromatography A*. 2001;927(1):219-27.
12. Chen Z, Naidu R. On-column complexation of metal ions using 2, 6-pyridinedicarboxylic acid and separation of their anionic complexes by capillary electrophoresis with direct UV detection. *Journal of Chromatography A*. 2002;966(1):245-51.
13. Chen Z, Naidu R. On-column complexation and simultaneous separation of vanadium (IV) and vanadium (V) by capillary electrophoresis with direct UV detection. *Analytical and bioanalytical chemistry*. 2002;374(3):520-5.
14. Lin J-M, Naidu R. Separation of arsenic species by capillary electrophoresis with sample-stacking techniques. *Analytical and bioanalytical chemistry*. 2003;375(5):679-84.
15. Naidu R, Naidu S, Jackson P, McLaren RG, Sumner ME. Application of Capillary Electrophoresis to Anion Speciation in Soil Water Extracts. In: Donald LS, editor. *Advances in Agronomy*. Volume 65: Academic Press; 1999. p. 131-50.
16. Smith E, Naidu R, Alston AM. Arsenic in the Soil Environment: A Review. In: Donald LS, editor. *Advances in Agronomy*. Volume 64: Academic Press; 1998. p. 149-95.
17. ACS-NEPM. National Environment Protection (Assessment of Site Contamination) Measure 1999. National Environment Protection Council (NEPC). 22 December 1999. 1999.
18. Chen Z, Kookana RS, Naidu R. Determination of sulfonylurea herbicides in soil extracts by solid-phase extraction and capillary zone electrophoresis. *Chromatographia*. 2000;52(3-4):142-6.
19. Akter KF, Chen Z, Smith L, Davey D, Naidu R. Speciation of arsenic in ground water samples: A comparative study of CE-UV, HG-AAS and LC-ICP-MS. *Talanta*. 2005;68(2):406-15.
20. Rahman MA, Rahman MM, Reichman SM, Lim RP, Naidu R. Arsenic Speciation in Australian-Grown and Imported Rice on Sale in Australia: Implications for Human Health Risk. *Journal of Agricultural and Food Chemistry*. 2014 2014/06/25;62(25):6016-24.
21. Akter KF, Owens G, Davey DE, Naidu R. Arsenic speciation and toxicity in biological systems: Springer; 2005.
22. Chen Z, Akter KF, Rahman MM, Naidu R. The separation of arsenic species in soils and plant tissues by anion-exchange chromatography with inductively coupled mass spectrometry using various mobile phases. *Microchemical Journal*. 2008;89(1):20-8.

23. Chen Z, Naidu R. Separation of sulfur species in water by co-electroosmotic capillary electrophoresis with direct and indirect UV detection. *International Journal of Environmental & Analytical Chemistry*. 2003;83(9):749-59.
24. Chen Z, Megharaj M, Naidu R. Speciation of chromium in waste water using ion chromatography inductively coupled plasma mass spectrometry. *Talanta*. 2007;72(2):394-400.
25. Chen Z, Akter KF, Rahman MM, Naidu R. Speciation of arsenic by ion chromatography inductively coupled plasma mass spectrometry using ammonium eluents. *Journal of separation science*. 2006;29(17):2671-6.
26. Fotovat A, Naidu R. Ion exchange resin and MINTEQA2 speciation of Zn and Cu in alkaline sodic and acidic soil extracts. *Australian journal of soil research*. 1997;35:711-26.
27. Barzi F, Naidu R, McLaughlin MJ. Contaminants and the Australian soil environment. In: Naidu R, Kookana RS, Oliver DP, Rogers S, McLaughlin MJ, editors. *Contaminants and the Soil Environment in the Australasia-Pacific Region*: Springer Netherlands; 1996. p. 451-84.
28. Naidu R, Kookana RS, Sumner ME, Harter RD, Tiller K. Cadmium sorption and transport in variable charge soils: a review. *Journal of Environmental Quality*. 1997;26(3):602-17.
29. Naidu R, Smith E, Huq SI, Owens G. Sorption and bioavailability of arsenic in selected Bangladesh soils. *Environ Geochem Health*. 2009;31(1):61-8.
30. Huq I, Correll R, Naidu R. Arsenic accumulation in food sources in Bangladesh: In: Naidu R, Smith E, Owens G, Bhattacharya P, Nadebaum P, editors. *Managing arsenic in the environment: from soil to human health*. Melbourne: CSIRO Publishing; 2006. pp. 283–93.; 2006.
31. Huq SI, Naidu R. Arsenic in ground water and contamination of the food chain: Bangladesh scenario. *Natural arsenic in ground water: occurrence, remediation and management*. 2004:95-101.
32. Naidu R, Bolan NS, Kookana RS, Tiller K. Ionic-strength and pH effects on the sorption of cadmium and the surface charge of soils. *European Journal of Soil Science*. 1994;45(4):419-29.
33. Naidu R, Sumner ME, Harter R. Sorption of heavy metals in strongly weathered soils: an overview. *Environ Geochem Health*. 1998;20(1):5-9.
34. Harter RD, Naidu R. An assessment of environmental and solution parameter impact on trace-metal sorption by soils. *Soil Science Society of America Journal*. 2001;65(3):597-612.
35. Smith E, Smith J, Smith L, Biswas T, Correll R, Naidu R. Arsenic in Australian environment: an overview. *Journal of Environmental Science and Health, Part A*. 2003;38(1):223-39.
36. Smith E, Naidu R, Alston A. Chemistry of arsenic in soils: I. Sorption of arsenate and arsenite by four Australian soils. *Journal of Environmental Quality*. 1999;28(6):1719-26.
37. Duan L, Naidu R. Effect of ionic strength and index cation on the sorption of phenanthrene. *Water, Air, & Soil Pollution*. 2013;224(12):1-17.
38. Naidu R, Harter RD. Effect of different organic ligands on cadmium sorption by and extractability from soils. *Soil Science Society of America Journal*. 1998;62(3):644-50.
39. Bolan N, Naidu R, Syers J, Tillman R. Effect of anion sorption on cadmium sorption by soils. *Aust J Soil Res*. 1999;37:445-60.
40. Bolan NS, Naidu R, Khan M, Tillman R, Syers JK. The effects of anion sorption on sorption and leaching of cadmium. *Australian journal of soil research*. 1999;37(3):445-60.
41. Naidu R, Rengasamy P. Ion interactions and constraints to plant nutrition in Australian sodic soils. *Soil Research*. 1993;31(6):801-19.
42. Bolan NS, Naidu R, Syers JK, Tillman R. Surface charge and solute interactions in soils. *Advances in agronomy*. 1999;67:87-140.
43. Naidu R, Bolan NS, Kookana RS, Tiller KG. Ionic-strength and pH effects on the sorption of cadmium and the surface charge of soils. *European Journal of Soil Science*. 1994;45(4):419-29.
44. Duan L, Palanisami T, Liu Y, Dong Z, Mallavarapu M, Kuchel T, et al. Effects of ageing and soil properties on the oral bioavailability of benzo [a] pyrene using a swine model. *Environment international*. 2014;70:192-202.
45. Bekele DN, Naidu R, Chadalavada S. Influence of Spatial and Temporal Variability of Subsurface Soil Moisture and Temperature on Vapour Intrusion. *Atmospheric Environment*. 2014; Accepted, Ms. Ref. No.: ATMENV-D-13-01250R1.
46. Ng JC, Juhasz A, Smith E, Naidu R. Assessing the bioavailability and bioaccessibility of metals and metalloids. *Environmental Science and Pollution Research*. 2013:1-24.
47. Naidu R, Channey R, McConnell S, Johnston N, Semple KT, McGrath S, et al. Towards bioavailability-based soil criteria: past, present and future perspectives. *Environmental Science and Pollution Research*. 2013:1-7.
48. Naidu R, Juhasz A, Mallavarapu M, Smith E, Lombi E, Bolan N, et al. Chemical Bioavailability in the Terrestrial Environment-recent advances. *Journal of hazardous materials*. 2013;261:685.

49. Juhasz AL, Naidu R. Bioremediation of high molecular weight polycyclic aromatic hydrocarbons: a review of the microbial degradation of benzo[a]pyrene. *International Biodeterioration & Biodegradation*. 2000;45(1):57-88.
50. Vig K, Megharaj M, Sethunathan N, Naidu R. Bioavailability and toxicity of cadmium to microorganisms and their activities in soil: a review. *Advances in Environmental Research*. 2003;8(1):121-35.
51. McLaughlin MJ, Tiller K, Naidu R, Stevens D. Review: the behaviour and environmental impact of contaminants in fertilizers. *Soil Research*. 1996;34(1):1-54.
52. Bolan NS, Adriano DC, Naidu R. Role of phosphorus in (im) mobilization and bioavailability of heavy metals in the soil-plant system: Springer; 2003.
53. Bolan N, Mahimairaja S, Kunhikrishnan A, Naidu R. Sorption-bioavailability nexus of arsenic and cadmium in variable-charge soils. *Journal of hazardous materials*. 2013;261:725-32.
54. Hamon RE, Wundke J, McLaughlin MJ, Naidu R. Availability of zinc and cadmium to different plant species. *Australian Journal of Soil Research*. 1997;35(6):1267-77.
55. Oliver DP, McLaughlin MJ, Naidu R, Smith LH, Maynard E, Calder I. Measuring Pb bioavailability from household dusts using an in vitro model. *Environmental science & technology*. 1999;33(24):4434-9.
56. Krishnamurti GS, Naidu R. Solid-solution speciation and phytoavailability of copper and zinc in soils. *Environmental science & technology*. 2002;36(12):2645-51.
57. Singh N, Megharaj M, Gates WP, Churchman GJ, Anderson J, Kookana RS, et al. Bioavailability of an organophosphorus pesticide, fenamiphos, sorbed on an organo clay. *Journal of agricultural and food chemistry*. 2003;51(9):2653-8.
58. Krishnamurti GS, Megharaj M, Naidu R. Bioavailability of cadmium-organic complexes to soil alga an exception to the free ion model. *Journal of agricultural and food chemistry*. 2004;52(12):3894-9.
59. Juhasz AL, Smith E, Weber J, Rees M, Rofe A, Kuchel T, et al. In vitro Assessment of Arsenic Bioaccessibility in Contaminated (Anthropogenic and Geogenic) Soils. *Chemosphere*. 2007;69(1):69-78.
60. Juhasz AL, Smith E, Weber J, Rees M, Rofe A, Kuchel T, et al. Comparison of in vivo and in vitro methodologies for the assessment of arsenic bioavailability in contaminated soils. *Chemosphere*. 2007;69(6):961-6.
61. Lamb DT, Ming H, Megharaj M, Naidu R. Heavy metal (Cu, Zn, Cd and Pb) partitioning and bioaccessibility in uncontaminated and long-term contaminated soils. *Journal of Hazardous Materials*. 2009;171(1):1150-8.
62. Juhasz AL, Weber J, Naidu R, Gancarz D, Rofe A, Todor D, et al. Determination of cadmium relative bioavailability in contaminated soils and its prediction using in vitro methodologies. *Environmental science & technology*. 2010;44(13):5240-7.
63. Juhasz AL, Weber J, Smith E, Naidu R, Rees M, Rofe A, et al. Assessment of four commonly employed in vitro arsenic bioaccessibility assays for predicting in vivo relative arsenic bioavailability in contaminated soils. *Environmental science & technology*. 2009;43(24):9487-94.
64. Juhasz AL, Weber J, Smith E, Naidu R, Marschner B, Rees M, et al. Evaluation of SBRC-gastric and SBRC-intestinal methods for the prediction of in vivo relative lead bioavailability in contaminated soils. *Environmental science & technology*. 2009;43(12):4503-9.
65. Juhasz AL, Smith E, Weber J, Naidu R, Rees M, Rofe A, et al. Effect of soil ageing on in vivo arsenic bioavailability in two dissimilar soils. *Chemosphere*. 2008;71(11):2180-6.
66. Smith E, Naidu R, Weber J, Juhasz AL. The impact of sequestration on the bioaccessibility of arsenic in long-term contaminated soils. *Chemosphere*. 2008;71(4):773-80.
67. Sanderson P, Naidu R, Bolan N, Bowman M, Mclure S. Effect of soil type on distribution and bioaccessibility of metal contaminants in shooting range soils. *Science of the Total Environment*. 2012;438:452-62.
68. Ruby MV, Davis A, Schoof R, Eberle S, Sellstone CM. Estimation of lead and arsenic bioavailability using a physiologically based extraction test. *Environmental Science & Technology*. 1996;30(2):422-30.
69. Basta N, Gradwohl R, Snethen K, Schroder J. Chemical immobilization of lead, zinc, and cadmium in smelter-contaminated soils using biosolids and rock phosphate. *Journal of Environmental Quality*. 2001;30(4):1222-30.
70. Rodriguez RR, Basta NT, Casteel SW, Pace LW. An in vitro gastrointestinal method to estimate bioavailable arsenic in contaminated soils and solid media. *Environmental Science & Technology*. 1999;33(4):642-9.
71. Rahman MM, Owens G, Naidu R. Arsenic levels in rice grain and assessment of daily dietary intake of arsenic from rice in arsenic-contaminated regions of Bangladesh—implications to groundwater irrigation. *Environ Geochem Health*. 2009;31(1):179-87.

72. Smith E, Naidu R, Alston AM. Chemistry of inorganic arsenic in soils: II. Effect of phosphorus, sodium, and calcium on arsenic sorption. *Journal of Environmental Quality*. 2002;31(2):557-63.
73. Rahman F, Naidu R. The influence of arsenic speciation (As^{III} & As^V) and concentration on the growth, uptake and translocation of arsenic in vegetable crops (silverbeet and amaranth): greenhouse study. *Environ Geochem Health*. 2009 2009/04/01;31(1):115-24. English.
74. Huq SI, Joardar J, Parvin S, Correll R, Naidu R. Arsenic contamination in food-chain: transfer of arsenic into food materials through groundwater irrigation. *Journal of health, population, and nutrition*. 2006;24(3):305.
75. Correll R, Huq SI, Smith E, Owens G, Naidu R. *Dietary intake of arsenic from crops*: CSIRO Publishing; 2006.
76. Juhasz AL, Smith E, Weber J, Rees M, Rofe A, Kuchel T, et al. Application of an in vivo swine model for the determination of arsenic bioavailability in contaminated vegetables. *Chemosphere*. 2008 5//;71(10):1963-9.
77. Smith E, Juhasz AL, Weber J, Naidu R. Arsenic uptake and speciation in rice plants grown under greenhouse conditions with arsenic contaminated irrigation water. *Science of The Total Environment*. 2008 3/25//;392(2-3):277-83.
78. Juhasz AL, Smith E, Weber J, Rees M, Rofe A, Kuchel T, et al. In vivo assessment of arsenic bioavailability in rice and its significance for human health risk assessment. *Environmental Health Perspectives*. 2006;114(12):1826.
79. Naidu R. Recent Advances in Contaminated Site Remediation. *Water, Air, & Soil Pollution*. 2013 2013/11/19;224(12):1-11. English.
80. Sudharshan S, Mallavarapu M, Bolan N, Naidu R. Effect of Seaweeds on Degradation of DDT in Soils. *Water, Air, & Soil Pollution*. 2013;224(12):1-8.
81. Das P, Kambala V, Mallavarapu M, Naidu R. Remediation of Perfluorooctane Sulfonate in Contaminated Soils by Modified Clay Adsorbent—a Risk-Based Approach. *Water, Air, & Soil Pollution*. 2013;224(12):1-14.
82. Naidu R, Sreedaran B, Smith E. Electroremediation of Lead-Contaminated Kaolinite using Cation Selective Membrane and Different Electrolyte Solutions. *Water, Air, & Soil Pollution*. 2013;224(12):1-9.
83. Sarkar B, Naidu R, Megharaj M. Simultaneous Adsorption of Tri- and Hexavalent Chromium by Organoclay Mixtures. *Water, Air, & Soil Pollution*. 2013;224(12):1-10.
84. Lin H, Chen Z, Megharaj M, Naidu R. Biodegradation of TNT using *Bacillus mycoides* immobilized in PVA-sodium alginate-kaolin gels. *Applied Clay Science*. 2013;83:336-42.
85. Juhasz AL, Naidu R. Apparent degradation of 1, 1, 1-trichloro-2, 2-bis (p-chlorophenyl) ethane (DDT) by a *Cladosporium* sp. *Biotechnology letters*. 1999;21(11):991-5.
86. Juhasz AL, Naidu R. Enrichment and isolation of non-specific aromatic degraders from unique uncontaminated (plant and faecal material) sources and contaminated soils. *Journal of applied microbiology*. 2000;89(4):642-50.
87. Juhasz A, Smith E, Smith J, Naidu R. Development of a Two-Phase Cosolvent Washing-Fungal Biosorption Process for the Remediation of DDT-Contaminated Soil. *Water Air Soil Pollut*. 2003 2003/06/01;146(1-4):111-26. English.
88. Juhasz AL, Smith E, Smith J, Naidu R. Remediation of persistent organic pollutants using a novel two-phase soil washing biosorption process. *Water, Air and Soil Pollution: Focus*. 2003;3(3):233-42.
89. Sethunathan N, Megharaj M, Chen Z, Williams BD, Lewis G, Naidu R. Algal degradation of a known endocrine disrupting insecticide, α -endosulfan, and its metabolite, endosulfan sulfate, in liquid medium and soil. *Journal of agricultural and food chemistry*. 2004;52(10):3030-5.
90. Kantachote D, Naidu R, Williams B, McClure N, Megharaj M, Singleton I. Bioremediation of DDT-contaminated soil: enhancement by seaweed addition. *Journal of chemical technology and biotechnology*. 2004;79(6):632-8.
91. Thangavadivel K, Megharaj M, Smart RSC, Lesniewski PJ, Naidu R. Application of high frequency ultrasound in the destruction of DDT in contaminated sand and water. *Journal of hazardous materials*. 2009;168(2):1380-6.
92. Thangavadivel K, Megharaj M, Smart RSC, Lesniewski PJ, Naidu R. Sonochemical destruction of chloroform by using low frequency ultrasound in batch and flow cell. *Journal of Environmental Science and Health Part A*. 2010;45(4):483-9.
93. Xi Y, Mallavarapu M, Naidu R. Reduction and adsorption of Pb²⁺ in aqueous solution by nano zero-valent iron - a SEM, TEM and XPS study. *Materials Research Bulletin*. 2010;45(10):1361-7.
94. Xi Y, Mallavarapu M, Naidu R. Adsorption of the herbicide 2, 4-D on organo-palygorskite. *Applied Clay Science*. 2010;49(3):255-61.

95. Sarkar B, Xi Y, Megharaj M, Krishnamurti GS, Naidu R. Synthesis and characterisation of novel organopolygorskites for removal of p-nitrophenol from aqueous solution: Isothermal studies. *Journal of colloid and interface science*. 2010;350(1):295-304.
96. Sarkar B, Xi Y, Megharaj M, Krishnamurti GS, Rajarathnam D, Naidu R. Remediation of hexavalent chromium through adsorption by bentonite based Arquad® 2HT-75 organoclays. *Journal of hazardous materials*. 2010;183(1):87-97.
97. Park J, Bolan N, Megharaj M, Naidu R. Isolation of phosphate-solubilizing bacteria and characterization of their effects on lead immobilization. *Pedologist*. 2010;53:67-75.
98. Park JH, Bolan N, Megharaj M, Naidu R. Concomitant rock phosphate dissolution and lead immobilization by phosphate solubilizing bacteria (*Enterobacter* sp.). *Journal of environmental management*. 2011;92(4):1115-20.
99. Zhang X, Lin S, Chen Z, Megharaj M, Naidu R. Characterizations of kaolinite supported nanoscale zero-valent iron used to remove Pb²⁺ from aqueous solution. *Water Res*. 2011;45:3481-8.
100. Chen Z-x, Jin X-y, Chen Z, Megharaj M, Naidu R. Removal of methyl orange from aqueous solution using bentonite-supported nanoscale zero-valent iron. *Journal of colloid and interface science*. 2011;363(2):601-7.
101. Su J, Lin S, Chen Z, Megharaj M, Naidu R. Dechlorination of p-chlorophenol from aqueous solution using bentonite supported Fe/Pd nanoparticles: Synthesis, characterization and kinetics. *Desalination*. 2011;280(1):167-73.
102. Sudharshan S, Naidu R, Mallavarapu M, Bolan N. DDT remediation in contaminated soils: a review of recent studies. *Biodegradation*. 2012;23(6):851-63.
103. Kantachote D, Singleton I, Naidu R, McClure N, Megharaj M. Sodium application enhances DDT transformation in a long-term contaminated soil. *Water Air Soil Pollut*. 2004;154(1-4):115-25.
104. Kantachote D, Naidu R, Singleton I, McClure N, Harch BD. Resistance of microbial populations in DDT-contaminated and uncontaminated soils. *Applied Soil Ecology*. 2001;16(1):85-90.
105. Baskaran S, Kookana RS, Naidu R. Degradation of bifenthrin, chlorpyrifos and imidacloprid in soil and bedding materials at termiticidal application rates. *Pesticide science*. 1999;55(12):1222-8.
106. Dybas CL. Seaweed May Have Future Use As Cleaner of DDT-Polluted Soil. *The Washington Post* 2004 Nov 8, 2004; Sect. A SECTION.
107. Singh N, Megharaj M, Kookana RS, Naidu R, Sethunathan N. Atrazine and simazine degradation in *Pennisetum* rhizosphere. *Chemosphere*. 2004 7//;56(3):257-63.
108. Thangavadivel K, Wang W, Birke V, Naidu R. A Comparative Study of Trichloroethylene (TCE) Degradation in Contaminated Groundwater (GW) and TCE-Spiked Deionised Water Using Zero Valent Iron (ZVI) Under Various Mass Transport Conditions. *Water, Air, & Soil Pollution*. 2013 2013/11/20;224(12):1-9. English.
109. Wang WH, Hoag GE, Collins JB, Naidu R. Evaluation of Surfactant-Enhanced In Situ Chemical Oxidation (S-ISCO) in Contaminated Soil. *Water, Air, & Soil Pollution*. 2013;224(12):1-9.
110. Park JH, Bolan NS, Chung JW, Naidu R, Megharaj M. Environmental monitoring of the role of phosphate compounds in enhancing immobilization and reducing bioavailability of lead in contaminated soils. *Journal of Environmental Monitoring*. 2011;13(8):2234-42.
111. Zhang X, Lin S, Chen Z, Megharaj M, Naidu R. Kaolinite-supported nanoscale zero-valent iron for removal of Pb²⁺ from aqueous solution: reactivity, characterization and mechanism. *Water research*. 2011;45(11):3481-8.
112. Naidu R, Semple KT, Megharaj M, Juhasz A, Bolan N, Gupta S, et al. Bioavailability, definition, assessment and implications for risk assessment. 2008.
113. Naidu R, Owens G. Development of Chemical Strategies for the Immobilisation of Arsenic in Contaminated Soils from a Former Railway Depot – Naracoorte, South Australia. Stage III Confidential Report, Sinclair Knight Merz Pty Ltd. CSIRO Land and Water, 40 pages. 2002.
114. Xie ZM, Chen J, Naidu R. Not All Phosphate Fertilizers Immobilize Lead in Soils. *Water, Air, & Soil Pollution*. 2013;224(12):1-7.
115. Park JH, Bolan N, Megharaj M, Naidu R. Comparative value of phosphate sources on the immobilization of lead, and leaching of lead and phosphorus in lead contaminated soils. *Science of the Total Environment*. 2011;409(4):853-60.

- D1. Ng JC, Juhasz A, Smith E, Naidu R. Assessing the bioavailability and bioaccessibility of metals and metalloids. *Environmental Science and Pollution Research*. 2013;1-24.
- D2. Naidu R, Chaney R, McConnell S, Johnston N, Semple KT, McGrath S, et al. Towards bioavailability-based soil criteria: past, present and future perspectives. *Environmental Science and Pollution Research*. 2013;1-7.
- D3. Naidu R, Juhasz A, Mallavarapu M, Smith E, Lombi E, Bolan N, et al. Chemical Bioavailability in the Terrestrial Environment-recent advances. *Journal of Hazardous Materials*. 2013; 261:685.
- D4., C1 Barzi F, Naidu R, McLaughlin MJ. Contaminants and the Australian soil environment. In: Naidu R, Kookana RS, Oliver DP, Rogers S, McLaughlin MJ, editors. *Contaminants and the Soil Environment in the Australasia-Pacific Region*: Springer Netherlands; 1996. p. 451-84.
- D5. Juhasz AL, Naidu R. Bioremediation of high molecular weight polycyclic aromatic hydrocarbons: a review of the microbial degradation of benzo[a]pyrene. *International Biodeterioration & Biodegradation*. 2000; 45(1):57-88.
- D6. Vig K, Megharaj M, Sethunathan N, Naidu R. Bioavailability and toxicity of cadmium to microorganisms and their activities in soil: a review. *Advances in Environmental Research*. 2003;8(1):121-35.
- D7. McLaughlin MJ, Tiller K, Naidu R, Stevens D. Review: the behaviour and environmental impact of contaminants in fertilizers. *Soil Research*. 1996; 34(1):1-54.
- D8. Bolan NS, Adriano DC, Naidu R. Role of phosphorus in (im)mobilization and bioavailability of heavy metals in the soil-plant system: Springer; 2003.
- D9. , B16 Akter KF, Owens G, Davey DE, Naidu R. Arsenic speciation and toxicity in biological systems: Springer; 2005.
- D10. Bolan N, Mahimairaja S, Kunhikrishnan A, Naidu R. Sorption–bioavailability nexus of arsenic and cadmium in variable-charge soils. *Journal of Hazardous Materials*. 2013; 261:725-32.
- D11. Hamon RE, Wundke J, McLaughlin MJ, Naidu R. Availability of zinc and cadmium to different plant species. *Australian Journal of Soil Research*. 1997; 35(6):1267-77.
- D12. Oliver DP, McLaughlin MJ, Naidu R, Smith LH, Maynard E, Calder I. Measuring Pb bioavailability from household dusts using an in vitro model. *Environmental Science & Technology*. 1999; 33(24):4434-9.
- D13. Krishnamurti GS, Naidu R. Solid-solution speciation and phytoavailability of copper and zinc in soils. *Environmental Science & Technology*. 2002; 36(12):2645-51.
- D14. Singh N, Megharaj M, Gates WP, Churchman GJ, Anderson J, Kookana RS, et al. Bioavailability of an organophosphorus pesticide, fenamiphos, sorbed on an organo clay. *Journal of Agricultural and Food Chemistry*. 2003; 51(9):2653-8.
- D15. Krishnamurti GS, Megharaj M, Naidu R. Bioavailability of cadmium-organic complexes to soil alga an exception to the free ion model. *Journal of Agricultural and Food Chemistry*. 2004; 52(12):3894-9.
- D16. Juhasz AL, Smith E, Weber J, Rees M, Rofe A, Kuchel T, et al. In vitro Assessment of Arsenic Bioaccessibility in Contaminated (Anthropogenic and Geogenic) Soils. *Chemosphere*. 2007; 69(1):69-78.
- D17. Juhasz AL, Smith E, Weber J, Rees M, Rofe A, Kuchel T, et al. Comparison of in vivo and in vitro methodologies for the assessment of arsenic bioavailability in contaminated soils. *Chemosphere*. 2007; 69(6):961-6.

- D18., C19 Duan L, Palanisami T, Liu Y, Dong Z, Mallavarapu M, Kuchel T, et al. Effects of ageing and soil properties on the oral bioavailability of benzo [a]pyrene using a swine model. *Environment International*. 2014; 70:192-202.
- D19. Lamb DT, Ming H, Megharaj M, Naidu R. Heavy metal (Cu, Zn, Cd and Pb) partitioning and bioaccessibility in uncontaminated and long-term contaminated soils. *Journal of Hazardous Materials*. 2009; 171(1):1150-8.
- D20. Juhasz AL, Weber J, Naidu R, Gancarz D, Rofe A, Todor D, et al. Determination of cadmium relative bioavailability in contaminated soils and its prediction using in vitro methodologies. *Environmental Science & Technology*. 2010; 44(13):5240-7.
- D21. Juhasz AL, Weber J, Smith E, Naidu R, Rees M, Rofe A, et al. Assessment of four commonly employed in vitro arsenic bioaccessibility assays for predicting in vivo relative arsenic bioavailability in contaminated soils. *Environmental Science & Technology*. 2009; 43(24):9487-94.
- D22. Juhasz AL, Weber J, Smith E, Naidu R, Marschner B, Rees M, et al. Evaluation of SBRC-gastric and SBRC-intestinal methods for the prediction of in vivo relative lead bioavailability in contaminated soils. *Environmental Science & Technology*. 2009; 43(12):4503-9.
- D23. Juhasz AL, Smith E, Weber J, Naidu R, Rees M, Rofe A, et al. Effect of soil ageing on in vivo arsenic bioavailability in two dissimilar soils. *Chemosphere*. 2008; 71(11):2180-6.
- D24. Smith E, Naidu R, Weber J, Juhasz AL. The impact of sequestration on the bioaccessibility of arsenic in long-term contaminated soils. *Chemosphere*. 2008; 71(4):773-80.
- D25., C12 Duan L, Naidu R. Effect of ionic strength and index cation on the sorption of phenanthrene. *Water, Air, & Soil Pollution*. 2013; 224(12):1-17.
- D26., C11 Smith E, Naidu R, Alston A. Chemistry of arsenic in soils: I. Sorption of arsenate and arsenite by four Australian soils. *Journal of Environmental Quality*. 1999; 28(6):1719-26.
- D27. Sanderson P, Naidu R, Bolan N, Bowman M, Mclure S. Effect of soil type on distribution and bioaccessibility of metal contaminants in shooting range soils. *Science of the Total Environment*. 2012; 438:452-62.

- E1. D17 McLaughlin MJ, Tiller K, Naidu R, Stevens D. Review: the behaviour and environmental impact of contaminants in fertilizers. *Soil Research*. 1996; 34(1):1-54.
- E2. C5 Huq SI, Naidu R. Arsenic in ground water and contamination of the food chain: Bangladesh scenario. In: Bundschuh, J., Bhattacharya, P., Chandrashekharam, D. (eds.) *Natural Arsenic in Ground water: Occurrence, Remediation and Management*. 2004:95-101.
- E3. Rahman MM, Owens G, Naidu R. Arsenic levels in rice grain and assessment of daily dietary intake of arsenic from rice in arsenic-contaminated regions of Bangladesh—implications to groundwater irrigation. *Environ Geochem Health*. 2009; 31(1):179-87.
- E4. C4 Huq I, Correll R, Naidu R. Arsenic accumulation in food sources in Bangladesh: In: Naidu R, Smith E, Owens G, Bhattacharya P, Nadebaum P, editors. *Managing arsenic in the environment: from soil to human health*. Melbourne: CSIRO Publishing; 2006. pp. 283–93; 2006.
- E5. C3 Naidu R, Smith E, Huq SI, Owens G. Sorption and bioavailability of arsenic in selected Bangladesh soils. *Environ Geochem Health*. 2009; 31(1):61-8.
- E6. D9, B16 Akter KF, Owens G, Davey DE, Naidu R. *Arsenic speciation and toxicity in biological systems*: Springer; 2005.
- E7. D17 Juhasz AL, Smith E, Weber J, Rees M, Rofe A, Kuchel T, et al. In vitro Assessment of Arsenic Bioaccessibility in Contaminated (Anthropogenic and Geogenic) Soils. *Chemosphere*. 2007; 69(1):69-78.
- E8. Juhasz AL, Smith E, Weber J, Naidu R, Rees M, Rofe A, et al. Effect of soil ageing on in vivo arsenic bioavailability in two dissimilar soils. *Chemosphere*. 2008; 71(11):2180-6.
- E9. Smith E, Naidu R, Alston AM. Chemistry of inorganic arsenic in soils: II. Effect of phosphorus, sodium, and calcium on arsenic sorption. *Journal of Environmental Quality*. 2002; 31(2):557-63.
- E10. Rahman F, Naidu R. The influence of arsenic speciation (AsIII & AsV) and concentration on the growth, uptake and translocation of arsenic in vegetable crops (silverbeet and amaranth): greenhouse study. *Environ Geochem Health*. 2009 2009/04/01; 31(1):115-24. English.
- E11. Huq SI, Joardar J, Parvin S, Correll R, Naidu R. Arsenic contamination in food-chain: transfer of arsenic into food materials through groundwater irrigation. *Journal of Health, Population and Nutrition*. 2006; 24(3):305.
- E12. Correll R, Huq SI, Smith E, Owens G, Naidu R. *Dietary intake of arsenic from crops*: CSIRO Publishing; 2006.
- E13. Juhasz AL, Smith E, Weber J, Rees M, Rofe A, Kuchel T, et al. Application of an in vivo swine model for the determination of arsenic bioavailability in contaminated vegetables. *Chemosphere*. 2008 5//; 71(10):1963-9.
- E14. Smith E, Juhasz AL, Weber J, Naidu R. Arsenic uptake and speciation in rice plants grown under greenhouse conditions with arsenic contaminated irrigation water. *Science of the Total Environment*. 2008 3/25//; 392(2–3):277-83.
- E15. Juhasz AL, Smith E, Weber J, Rees M, Rofe A, Kuchel T, et al. In vivo assessment of arsenic bioavailability in rice and its significance for human health risk assessment. *Environmental Health Perspectives*. 2006; 114(12):1826.

Prof Ravi Naidu- Publications

Refereed Journal Papers

1. Ting Wang, Jiajiang Lin, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, Removal of nitrate in aqueous solution by green synthesized iron nanoparticles, *Journal of Cleaner Production* (2014, accepted)
2. Subashchandrabose, S.R., Krishnan, K., Gratton, E., Megharaj, M., **Naidu, R.** (2014). Potential fluorescence imaging techniques to monitor mutagenic PAH uptake by microalga. *Environmental Science and Technology* (in press).
3. Ramadass, K., Megharaj, M., Venkateswarlu, K., **Naidu, R.** (2014). Toxicity and oxidative stress induced by used and unused motor oil on freshwater microalga, *Pseudokirchneriella subcapitata*. *Environmental Science and Pollution Research* (DOI 10.1007/s11356-014-3403-9).
4. Duan, L., Palanisami, T., Liu, Y., Dong, M., Mallavarapu, M., Kuchel, T., Semple, K.T., **Naidu, R.** (2014). Effects of ageing and soil properties on the oral bioavailability of benzo(a)pyrene using a swine model. *Environment International* 70: 192-202.
5. Bekele, D.N., **Naidu, R.** , Chadalavada, S. (2014) Influence of spatial and temporal variability of subsurface soil moisture and temperature on vapour intrusion (Article) *Atmospheric Environment*. Volume 88, May 2014, P. 14-22
6. Seshadri, B. , Kunhikrishnan, A, Bolan, N., **Naidu, R** (2014) Effect of industrial waste products on phosphorus mobilisation and biomass production in abattoir wastewater irrigated soil. *Environmental Science and Pollution Research* (in press)
7. Pal, R, Megharaj, M, Kirkbride, K.P, **Naidu, R** (2014) Adsorption and desorption characteristics of methamphetamine, 3,4-methylenedioxymethamphetamine, and pseudoephedrine in soils. *Environmental Science and Pollution Research* (in press), 24554, Jar2-s2.0-84888774.
8. Seshadri, B , Bolan, N.S, Kunhikrishnan, A, Choppala, G, **Naidu, R** (2014)Effect of coal combustion products in reducing soluble phosphorus in soil II: Leaching study (Article) *Water, Air, and Soil Pollution*. Volume 225, Issue 1, January 2014, Article number 1777
9. Wang, L., Yang, D., Chen, Z. , Lesniewski, P.J., **Naidu, R.**(2014) Application of neural networks with novel independent component analysis methodologies for the simultaneous determination of cadmium, copper, and lead using an ISE array (Article) *Journal of Chemometrics*. Volume 28, Issue 6, June 2014, Pages 491-498
10. Lamb, D.T. , Venkatraman, K., Bolan, N, Ashwath, N., Choppala, G, **Naidu, R.**(2014) phytocapping: An alternative technology for the sustainable management of landfill sites (Article). *Critical Reviews in Environmental Science and Technology* Volume 44, Issue 6, 1 January 2014, Pages 561-637
11. Sanderson, P, **Naidu, R.** , Bolan, N (2014) Ecotoxicity of chemically stabilised metal(loid)s in shooting range soils (Article) *Ecotoxicology and Environmental Safety*. Volume 100, Issue 1, 2014, Pages 201-208

12. Nguyen, T.C., Loganathan, P., Nguyen, T.V., Vigneswaran, S. , Kandasamy, J., Slee, D., Stevenson, G, **Naidu, R.** (2014) Polycyclic aromatic hydrocarbons in road-deposited sediments, water sediments, and soils in Sydney, Australia: Comparisons of concentration distribution, sources and potential toxicity. *Ecotoxicology and Environmental Safety*. Volume 104, Issue 1, June 2014, Pages 339-348
13. Chuasavathi, T., Bolan, N.S., **Naidu, R.**, Seshadri, B. (2014) Biosolids-based Co-composts reduce the bioavailability of heavy metals (Conference Paper) *Acta Horticulturae*. Volume 1018, 25 January 2014, Pages 653-660
14. Kopittke, P.M , Wang, P, Menzies, N.W., **Naidu, R.**, Kinraide, T.B (2014). A web-accessible computer program for calculating electrical potentials and ion activities at cell-membrane surfaces. *Plant and Soil*, Volume 375, Issue 1-2, February 2014, Pages 35-46
15. Li Gan, Ying Cheng, Thavamani Palanisami, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, Pathways of reductive degradation of crystal violet using free stains -*Burkholderia vietnamiensis* C09V, *Environmental Science and Pollution Research*(05/2014; DOI:10.1007/s11356-014-3037)
16. Feifeng Wang, Ying Gao, Qian Sun, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, Degradation of microcystin-LR using functional supported bimetallic Fe/Pd nanoparticles based on adsorption and reduction, *Chemical Engineering Journal* 255(2014)55-62.
17. Shuangxing Zha, Ying Cheng, Ying Gao, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, Heterogeneous Fenton oxidation of AMX in aqueous solution using nanoparticulate zero-valent iron, *Chemical Engineering Journal* 255 (2014) 141–148
18. Ting Wang, Xiaoying Jin, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**. Magnetite nanoparticles using various synthetic method for simultaneous removal of Pb(II) and Cr(III), *Journal of Industrial and Engineering Chemistry* (2013, in press, <http://dx.doi.org/10.1016/j.jiec.2013.12.047>)
19. Lina Shi, Jianhua Du, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, Functional kaolin-Fe/Ni nanoparticles for simultaneous catalytic remediation of lead and nitrate from wastewater, *Journal of Colloid and Interface Science* 428 (2014) 302–307
20. Yan Liu, Shibin Li, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2014) The microbial removal of nitrate by *Paracoccus* sp. in the presence of zero-valent iron nanoparticles, *Chemosphere* 108 (2014)426-432
21. Chen Lin, Li Gan, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, Biodegradation of Naphthalene using functional *Bacillus fusiformis* (BFN) immobilized on alginate-polyvinyl alcohol-bentonite, *Biochemical Engineering Journal*, 90(2014)1-7.
22. Fengfei Zhou, Ying Cheng, Li Gan, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**. (2014) Stain *Burkholderia vietnamiensis* C09V as the functional biomaterial used to remove crystal violet and Cu(II), *Ecotoxicology and Environmental Safety*, 105(2014)1–6
23. Lanlan Huang, Xiulan Weng, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2014) Green synthesis of iron nanoparticles by various tea extracts: Comparative

study of the reactivity, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 130(2014)295-301.

24. Yuman Lin, Zhengxian Chen, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2014) Decoloration of acid violet red B by bentonite-supported nanoscale zero-valent iron: Reactivity, characterization, kinetics and reaction pathway, *Applied Clay Science* 93-94(2014)56-61.
25. Xinwen Liu, Feifeng Wang, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2014) Heterogeneous Fenton oxidation of Direct Black G in dye effluent using functional kaolin supported nanoscale zero iron, *Environmental Sciences and Pollution Research* 21(2014)936-1943.
26. Xiulan Weng, Qian Sun, Shen Lin, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**. (2014) Catalytic degradation of amoxicillin in aqueous solution using a new composite material based on bentonite/Fe/Ni nanoparticles, *Chemosphere* 103(2014)80-85
27. Xiang Cai, Gao Ying, Qian Sun, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**. (2014) Catalytic degradation of Cu (II) and nitrate from aqueous solution using K-Fe/Ni nanoparticles, *Chemical Engineering Journal* 244(2014)19-26
28. Jianhua Du, Sreenivasulu Chadalavada, Zuliang Chen, **Ravi Naidu**, (2014) Environmental Remediation Techniques of Tributyltin Contamination in Soil and Water: A Review *Chemical Engineering Journal* 235 (2014) 141-150
29. Xiulan Weng, Zhangxian Chen, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2014) Clay supported bimetallic Fe/Ni nanoparticles used for reductive degradation of amoxicillin in aqueous solution: characterization and kinetics, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 443 (2014) 404-409
30. Lanlan Huang, Xiulan Weng, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**. (2014) Synthesis of iron-based nanoparticles using oolong tea extract for the degradation of malachite green, *Spectrochimica Acta Part A* 117 (2014) 801–804.
31. Ting Wang, Xiiayin Jin, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2014) Eucalyptus Leaf Extracts Mediated Green Synthesis of Fe Nanoparticles for Treatment of Eutrophic Wastewater, *Science of the Total Environment* 466–467 (2014) 210–213
32. Liang Wang, Daisy Yang, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**. (2014). Application of neural networks with novel independent component analysis methodologies for the simultaneous determination of cadmium, copper and lead using an ISE array, *Journal of Chemometrics* 28(2014)491-498
33. Daisy Yang; Liang Wang; Zuliang Chen; Megharaj Mallavarapu; **Ravi Naidu**. (2014) Determination of Trace Lead and Cadmium in Water Samples by Anodic Stripping Voltammetry with a Nafion-Ionic Liquid-Coated Bismuth Film Electrode, *Electoanalysis* 26(2014)639-647
34. Daisy Yang; Liang Wang; Zuliang Chen; Megharaj Mallavarapu; **Ravi Naidu** (2014) . Anodic Stripping Voltammetric Determination of Traces of Pb(II) and Cd(II) using a Glassy Carbon Electrode Modified with Bismuth Nanoparticles, *Microchimica Acta* (accepted 2014)

35. Daisy Yang, Liang Wang, Zuliang Chen, Megharaj Mallavarapu, **Ravi Naidu**, (2014) Voltammetric Determination of Lead (II) and Cadmium (II) Using a Bismuth Film Electrode Modified with Mesoporous Silica Nanoparticles, *Electrochimica Acta* , 132(2014)223-229
36. Rahman MA, Hogan B, Duncan E, Doyle C, Krassoi R, Rahman MM, **Naidu R**, Lim RP, Maher W, Hassler C. (2014) Toxicity of arsenic species to three freshwater organisms and biotransformation of inorganic arsenic by freshwater phytoplankton (*Chlorella* sp. CE-35). *Ecotoxicology and Environmental Safety* 106 (2014) 126–135.
37. Rahman MA, Rahman MM, Reichman SM, Lim RP, **Naidu R**. (2014) Arsenic Speciation in Australian-Grown and Imported Rice on Sale in Australia: Implications for Human Health Risk. *J. Agric. Food Chem.* (dx.doi.org/10.1021/jf501077w).
38. Rahman MA, Rahman MM, Reichman SM, Lim RP, **Naidu R**. (2014) Heavy metals in Australian grown and imported rice and vegetables on sale in Australia: Health hazard. *Ecotoxicology and Environmental Safety* (in press) 2014.
39. Rahman MM, Asaduzzaman M, **Naidu R**. (2014) Consumption of arsenic and other elements from vegetables and drinking water from an arsenic-contaminated area of Bangladesh. *Journal of Hazardous Materials* 2013, 262, 1056-1063.
40. Thavamani, P., Megharaj, M. and **Naidu, R**. 2013. Metal tolerant PAH degrading bacteria: development of suitable test medium and effect of cadmium and its availability on PAH biodegradation. *Environmental Science and Pollution Research* DOI:10.1007/s11356-013-1850-3
41. **Naidu, R.**, Euan Smith, Ming H. Wong, Mallavarapu Megharaj, Nanthi Bolan, Albert L. Juhasz, Enzo Lombi. (2013). Remediation of Site Contamination. *Water, Air, & Soil Pollution*, 224(12): 1723
42. Harmsen, J & **Naidu, R** 2013, 'Bioavailability as a tool in site management', *Journal of Hazardous Materials*, 261: 840-846
43. Md Mezbaul Bahar, Mallavarapu Megharaj, **Ravi Naidu**, (2013). Bioremediation of Arsenic-Contaminated Water: Recent Advances and Future Prospects. *Water, Air, & Soil Pollution*, 224(12): 1722
44. Kandasamy Thangavadivel, Wei Hong Wang, Volker Birke, **Ravi Naidu**. (2013). A Comparative Study of Trichloroethylene (TCE) Degradation in Contaminated Groundwater (GW) and TCE-Spiked Deionised Water Using Zero Valent Iron (ZVI) Under Various Mass Transport Conditions. *Water, Air, & Soil Pollution*, 224(12): 1718
45. Simi Sudharshan, Megharaj Mallavarapu, Nanthi Bolan, **Ravi Naidu**, (2013). Effect of Seaweeds on Degradation of DDT in Soils. *Water, Air, & Soil Pollution*, 224(12): 1715
46. Piw Das, Victor A. Arias E., Venkata Kambala, Megharaj Mallavarapu, **Ravi Naidu**. (2013). Remediation of Perfluorooctane Sulfonate in Contaminated Soils by Modified Clay Adsorbent—a Risk-Based Approach. *Water, Air, & Soil Pollution*, 224(12): 1714
47. Wei Hong Wang, George E. Hoag, John B. Collins, **Ravi Naidu**. (2013). Evaluation of Surfactant-Enhanced In Situ Chemical Oxidation (S-ISCO) in Contaminated Soil. *Water, Air, & Soil Pollution*, 224(12): 1713

48. Zheng Miao Xie, Jianjun Chen, **Ravi Naidu**. (2013). Not All Phosphate Fertilizers Immobilize Lead in Soils. *Water, Air, & Soil Pollution*, 224(12): 1712
49. **Naidu, R.**, B. R. Sreedaran, Euan Smith, (2013). Electroremediation of Lead-Contaminated Kaolinite using Cation Selective Membrane and Different Electrolyte Solutions. *Water, Air, & Soil Pollution*, 224(12): 1708
50. **Naidu, R.** (2013). Recent Advances in Contaminated Site Remediation. *Water, Air, & Soil Pollution*, 224(12): 1705
51. Binoy Sarkar, **Ravi Naidu**, Mallavarapu Megharaj. (2013). Simultaneous Adsorption of Tri- and Hexavalent Chromium by Organoclay Mixtures. *Water, Air, & Soil Pollution*, 224(12): 1704
52. Duan, L and **Ravi Naidu**. (2013). Effect of Ionic Strength and Index Cation on the Sorption of Phenanthrene. *Water, Air, & Soil Pollution*, 224(12): 1700
53. Ming-Hung Wong , Barry Noller , **Ravi Naidu** & Thomas Baumgartl. (2013). Contaminated land, ecological assessment, and remediation conference series (CLEAR 2012): environmental pollution and risk assessments. *Environmental Science and Pollution Research*, 20:8313-8315
54. Jianhua Du, **Ravi Naidu**, Sreenivasulu Chadalavada, Zuliang Chen. (2014). Environmental remediation techniques of tributyltin contamination in soil and water: a review. *Chemical Engineering Journal*, 235: 141-150
55. Binoy Sarkar, **Ravi Naidu**. Gummuluru SR Krishnamurti , and Mallavarapu Megharaj. (2013). Manganeses (II)-catalyzed clay-minerals-mediated reduction of chromium(VI) by citrate. *Environmental science and technology*.47(23): 13629-13636
56. **R. Naidu, R.** Channey, S. McConnel, N. Johnston, K. T. Semple, S. McGrath, V. Dries, P. Nathanail, J. Harmsen, A. Pruszinski, J. MacMillan, T. Palanisami. (2013). Towards bioavailability-based soil criteria: past, present and future perspectives. *Environmental Science and Pollution Research*, DOI: 10.1007/s11356-013-1617-x
57. **R. Naidu**, A. Juhasz, M. Mallavarapu, E. Smith, E. Lombi, N. S. Bolan, M. H. Wong, J. Harmsen. (2013). Chemical bioavailability in the terrestrial environment – recent advances. *Journal of Hazardous Materials*, 261: 685-686.
58. A. Kunhikrishnan, N. S. Bolan, **R. Naidu**, W. Kim. (2013). Recycled water sources influence the bioavailability of copper to earthworms, *Journal of Hazardous Materials*, 261:784-792.
59. Xiulan Weng, Lanlan Huang, Zuliang Chen, Mallavarapu Megharaj, **R Naidu**, (2013) Synthesis of iron-based nanoparticles by green tea extract and their degradation of malachite, *Industrial Crops and Products* 51 (2013) 342– 347
60. Chenghong Jiang, Yan Liu, Zuliang Chen, Mallavarapu Megharaj, **R Naidu**. (2013) Impact of iron-based nanoparticles on microbial denitrification by *Paracoccus* sp. strain YF1, *Aquatic Toxicology*, 142–143(2013)329-335
61. Ting Wang, Jin Su, Xiaoying Jin, Zuliang Chen, Mallavarapu Megharaj, **R Naidu**. (2013) Functional clay supported bimetallic nZVI/Pd nanoparticles for removing methyl orange from industrial wastewater, *Journal of Hazardous Materials* 262 (2013) 819– 825

62. N. S. Bolan, S. Mahimairaja, A. Kunhikrishnan, **R. Naidu**. (2013) Sorption-bioavailability nexus of arsenic and cadmium in variable-charge soils. *Journal of Hazardous Materials*, 261:725-732.
63. Ng, J., A. L. Juhasz, E. Smith and **R. Naidu** (2013). Assessing the bioavailability and bioaccessibility of metals and metalloids. *Environmental Science and Pollution Research*, June 2013: 1-24; DOI: 10.1007/s11356-013-1820-9
64. Hongyan Lin, Zuliang Chen, Mallavarapu Megharaj, **R Naidu**. (2013). Biodegradation of TNT using *Bacillus mycoides* immobilized in PVA-sodium alginate-kaolin gels. *Applied Clay Science*, 83-84: 336-342
65. Ye Kuang, Qingping Wang, Zuliang Chen, Mallavarapu Megharaj, **R Naidu**, (2013), Heterogeneous Fenton-like oxidation of monochlorobenzene using green synthesis of iron-based nanoparticles, *Journal of Colloid and Interface Science*, 410: 67-73
66. Sarkar, B.; **Naidu, R.**; Megharaj, M.; Xi, Y.; (2013) Simultaneous adsorption of tri and hexavalent chromium by organoclay mixtures. *Soil, Air and Water Pollution*, 224: 1704. doi: 10.1007/s11270-013-1704-0.
67. Thavamani, P., Megharaj, M., **Naidu, R.** (2013). Metal tolerant PAH degrading bacteria: development of suitable test medium and effect of cadmium and its availability on PAH biodegradation. *Environmental Science and Pollution Research*, p1-12
68. Das, P., Megharaj, M., **Naidu, R.** (2013). Perfluorooctane sulfonate release pattern from soils of fire training areas in Australia and its bioaccumulation potential in the earthworm *Eisenia fetida*. *Environmental Science and Pollution Research*. May 2013, DOI: 10.1007/s11356-013-1782-y
69. Krishnamurti, G.S.R., Subashchandrabose, S.R., Megharaj, M., **Naidu, R.** (2013). Assessment of bioavailability of heavy metal pollutants using soil isolates of *Chlorella* sp. *Environmental Science and Pollution Research*. May 2013, DOI: 10.1007/s11356-013-1799-2
70. Lombi E, Donner E, Taheri S, Tavakkoli E, Jämting ÅK, McClure S, **Naidu R**, Miller BW, Scheckel KG, Vasilev K. (2013) Transformation of four silver/silver chloride nanoparticles during anaerobic treatment of wastewater and post-processing of sewage sludge. *Environmental Pollution* volume 176, issue , year 2013, pp. 193 - 197
71. Subashchandrabose, S.R., Megharaj, M., Venkateswarlu, K., **Naidu, R.** (2013). Interaction effects of polycyclic aromatic hydrocarbons and heavy metals on a soil microalga, *Chlorococcum* sp. MM11. *Environmental Science and Pollution Research*, April 2013, DOI: 10.1007/s11356-013-1679-9.
72. Bahar, M.M., Megharaj, M. and **Naidu, R.** (2013). Kinetics of arsenite oxidation by *Variovorax* sp. MM1 isolated from a soil and identification of arsenite oxidase gene. *Journal of Hazardous Materials*, 262:997-1003
73. Jeong, J., Kim, C., Lee K. S., Bolan, N.S. and **Naidu, R.** (2013) Carbon storage and soil CO₂ efflux rates at varying degrees of damage from pine wilt disease in red pine stands. *Science of the Total Environment*, 465: 273-278

74. Lamb, D.T., Matanitobua, V., Palanisami, T., Megharaj, M., **Naidu, R.** (2013). Bioavailability of barium to plants and invertebrates in soils contaminated by barite. *Environmental Science and Technology* 47: 4670-4676.
75. Kuang, Y., Zhou, Y., Chen, Z., Megharaj, M., **Naidu, R.** (2013). Impact of Fe and Ni/Fe nanoparticles on biodegradation of phenol by the strain *Bacillus fusiformis* (BFN) at various pH values. *Bioresource Technology* 136: 588-594.
76. Zhou, Y., Kuang, Y., Li, W., Chen, Z., Megharaj, M., **Naidu, R.** (2013). A combination of bentonite-supported bimetallic Fe/Pd nanoparticles and biodegradation for the remediation of p-chlorophenol in wastewater. *Chemical Engineering Journal*. 223:68-75.
77. Liu, X., Chen, Z-X., Chen, Z., Megharaj, M., **Naidu, R.** (2013). Remediation of Direct Black G in wastewater using kaolin-supported bimetallic Fe.Ni nanoparticles. *Chemical Engineering Journal*. 223: 764-771.
78. Bolan, N.S., Choppala, G., Kunhikrishnan, A., Park, J.H. and **Naidu, R.** (2013) Microbial transformation of trace elements in soils in relation to bioavailability and remediation. *Reviews of Environmental Contamination and Toxicology* (in press). 225: 1-56. doi: 10.1007/978-1-4614-6470-9_1.
79. Bolan, N.S., Kunhikrishnan, A. and **Naidu, R.** (2013) Carbon storage in a heavy clay soil landfill site after biosolid application. *Science of the Total Environment*. 465: 216-225. doi.org/10.1016/j.scitotenv.2012.12.093
80. Chen, Z.X., Wang, T., Chen, Z.L., Megharaj, M., **Naidu, R.** (2013) Multifunctional kaolinite-supported nanoscale zero-valent iron used for the adsorption and degradation of crystal violet in aqueous solution. *Journal of Colloid and Interface Science* 398: 59-66.
81. Shi, L-N., Zhou, Y., Chen, Z., Megharaj, M., **Naidu, R.** (2013). Simultaneous adsorption and degradation of Zn²⁺ and Cu²⁺ from wastewater using nanoscale zero-valent iron impregnated with clays. *Environmental Science and Pollution Research* 20: 3639-3648.
82. Subashchandrabose, S.R., Megharaj, M., Venkateswarlu, K., Lockington, R., **Naidu, R.** (2013). Influence of nutrient mixtures on p-nitrophenol degradation by *Stenotrophomonas* sp. Isolated from groundwater. *Journal of Environmental Science and Health A* 48: 108-119.
83. Bolan, N.S., Makino, T., Kunhikrishnan, A., Kim, P.J., Ishikawa, S., Murakami, M., **Naidu, R.** and Kirkham, M.B. (2013) Cadmium contamination and its risk management in rice ecosystems. *Advances in Agronomy*, 119, pp 183-273.
84. Bolan, N.S., Thangarajan, R., Seshadri, B., Jena, U., Das, K.C., Wang, H., **Naidu, R.** (2013). Landfills as a biorefinery to produce biomass and capture biogas, *Bioresource Technology*, 135, pp 578-587.
85. Seshadri, B., Bolan N.S. and **Naidu, R.** (2013). Clean coal technology combustion products: Properties, agricultural and environmental applications, and risk management. *Advances in Agronomy*, 119, pp 309-370.
86. Seshadri, B., Bolan, N.S., Choppala, G. and **Naidu, R.** (2013) Differential effect of coal combustion products on the bioavailability of phosphorus between inorganic and

organic nutrient sources. *Journal of Hazardous Materials*, DOI: 10.1016/j.jhazmat.2013.04.05.

87. Liu, Y., Ming, H., **Naidu, R.**, (2013) Surface electrochemical properties of red mud (bauxite residue): Zeta potential and surface charge density. *Journal of colloid and interface science*, 394, pp451-457.
88. Thangarajan, R., Bolan, N.S., Tian, G., **Naidu, R.** and Kunhikrishnan, A. (2013) Role of organic amendment application on greenhouse gas emission from soil. *Science of the Total Environment*, doi: <http://dx.doi.org/10.1016/j.scitotenv.2013.01.031>
89. Tavakkoli, E., E. Donner, A. L. Juhasz, **R. Naidu** and E. Lombi (2013). A radioisotopic dilution technique for functional characterisation of the associations between inorganic contaminants and water-dispersible naturally occurring soil colloids. *Environmental Chemistry* <http://dx.doi.org/10.1071/EN13020>.
90. Juhasz, A. L., E. Smith, J. Weber, M. Rees, T. Kuchel, A. Rofe, L. Sansom and **R. Naidu** (2013). Predicting lead relative bioavailability in peri-urban contaminated soils using in vitro bioaccessibility assays. *Journal of Environmental Science and Health Part A* 48: 604-611.
91. Lina Shi, Yan Zhou, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2013), Removal of Cu²⁺ and Zn²⁺ from aqueous solution using bentonite-supported nanoscale zero-valent iron, *Environmental Sciences and Pollution Research* , 20 3639-3648.
92. Zhengxian Chen, Ting Wang, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2013), Multifunctional kaolin-supported nanoscale zero-valent iron used for the adsorption and degradation of cationic dye-crystal violet in aqueous, *Journal of Colloid and Interface Science*, 398 59-66
93. Yan Zhou, Ye Kuang, Wenyu, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2013), Degradation of p-chlorophenol by a combination of bentonite-supported Fe/Pd nanoparticles and biodegradation, *Chemical Engineering Journal*, 223 68-75
94. Xinwen Liu, Zhenxian Chen, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2013), Degradation of Direct Black G in aqueous solution by kaolin-supported bimetallic Fe/Ni nanoparticles , *Chemical Engineering Journal*, 223 764-771.
95. Kuang Ye, Yan Zhou, Qingping Wang, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2013), Effect of Fe and Ni/Fe nanoparticles on biodegradation of phenol by strain *Bacillus fusiformis* (BFN) at various pH values, *Bioresource Technology* 136 588-594
96. Lombi, E; Donner, E; Taheri, S; Tavakkoli, E; Jamting, A; McClure, S; **Naidu, R**; Miller, BW; Scheckel, K; Vasilev, K. (2013), Transformation of four silver/silver chloride nanoparticles during anaerobic treatment and post-processing of sewage sludge. *Environmental Pollution*, 176: 193-197.
97. Ting Wang, Zuliang Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2013), Eucalyptus Leaf Extracts Mediated Green Synthesis of Fe Nanoparticles for Treatment of Eutrophic Wastewater, *Science of the Total Environment* 466–467 C 210–213

98. Kiddee, P **Naidu, R** and Wong MG (2013) Electronic waste management approaches: An overview *Waste Management* 33 (2013) 1237–1250
99. Subashchandrabose, S.R., Ramakrishnan, B., Megharaj, M., Venkateswarlu, K., **Naidu, R.** (2013). Mixotrophic cyanobacteria and microalgae as distinctive biological agents for organic pollutant degradation. *Environment International* 51:59-72.
100. Subashchandrabose, S.R., Megharaj, M., Venkateswarlu, K., Lockington, R., **Naidu, R.** (2013). Influence of nutrient mixtures on p- nitrophenol degradation by *Stenotrophomonas* sp. Isolated from groundwater. *Journal of Environmental Science and Health A* 48: 108-119.
101. Rathnayake, I.V.N., Megharaj, M., Krishnamurti, G.S.R., Bolan, N.S. and **Naidu, R.** (2013). Heavy metal toxicity to bacteria: Are the existing growth media accurate enough to determine heavy metal toxicity? *Chemosphere* 90:1195-1200.
102. Bolan, N.S., Mahimairaja, S. Kunhikrishnan, A. and **Naidu, R.** (2012). Sorption-bioavailability nexus of arsenic and cadmium in variable-charge soils. *Journal of Hazardous Materials*, doi: <http://dx.doi.org/10.1016/j.jhazmat.2012.09.074>.
103. Kim, C., Jaeyeob Jeong, Nanthi S. Bolan and Ravi Naidu S (2012). Short-term effects of fertilizer application on soil respiration in red pine stands. *J. Ecol. Field Biol.* 35(4): 307-311.
104. Kunhikrishnan, A., Bolan, N.S., **Naidu, R.** and Kim W.I. (2012) Recycled water sources influence the bioavailability of copper to earthworms. *Journal of Hazardous Materials*, doi: <http://dx.doi.org/10.1016/j.jhazmat.2012.10.015>.
105. Lamb, D., Venkatraman, K., Bolan, N.S., Ashwath, N., Choppala, G. and **Naidu, R.** (2013) Phytocapping: an alternative technology for the sustainable management of landfill sites. *Critical Reviews in Environmental Science and Technology*, Aug 2013, DOI: 10.1080/10643389.2012.728823
106. Lamb, D.T., Heading, S., Bolan, N.S. and **Naidu, R.** (2012b) Use of biosolids for phytocapping of landfill soils. *Water, Air, and Soil Pollution*, 223(5), pp 2695-2705.
107. Sanderson, P., **Naidu, R.**, Bolan, N., Bowman, M., (2012). Critical Review on Chemical Stabilization of Metal Contaminants in Shooting Range Soils. *Journal of Hazardous, Toxic, and Radioactive Waste.* 16, 258-272.
108. Chen, Z-X., Cheng, Y., Chen, Z., Megharaj, M., and **Naidu, R.** (2012). Kaolin-supported nanoscale zero-valent iron for removing cationic dye-crystal violet in aqueous solution. *Journal of Nanoparticle Research* 14:899-915.
109. Donner, E., Ryan, C.G., Howard, D.L., Zarcinas, B., Scheckel, K.G., McGrath, S.P., de Jonge, M.D., Paterson, D., **Naidu, R.**, Lombi, E. (2012). A multi-technique investigation of copper and zinc distribution, speciation and potential bioavailability in biosolids. *Environmental Pollution.* 166: 57 - 64.
110. Sarkar, B., Megharaj, M., Shanmuganathan, D., **Naidu, R.**, (2012) Toxicity of organoclays to microbial processes and earthworm survival in soils. *Journal of Hazardous Materials*, doi: [org/10.1016/j.jhazmat.2012.11.061](http://dx.doi.org/10.1016/j.jhazmat.2012.11.061).

111. Bahar M. M., Megharaj M., **Naidu R.** (2012). Toxicity, transformation and accumulation of arsenic in a microalga *Scenedesmus* sp. Isolated from soil. *Journal of Applied Phycology*. DOI 10.1007/s10811-012-9923-0.
112. Pal, R., Megharaj, M., Kirkbride, P. and **Naidu, R.** (2013). Illicit drugs and the environment- a review. *Science of the Total Environment*, Oct 2013, DOI: 10.1016/j.scitotenv.2012.05.086
113. Choppala, G.K., Bolan, N.S., Megharaj, M., Chen, Z., **Naidu, R.** (2012). The influence of biochar and black carbon on reduction and bioavailability of chromate in soils. *Journal of Environmental Quality* 41:1175-1184.
114. Lamb, D.T., **Naidu, R.**, Ming, H., Megharaj, M. (2012). Copper phytotoxicity in native and agronomical plant species. *Ecotoxicology and Environmental Safety* 85: 23-29.
115. Pal, R., Megharaj, M., **Naidu, R.**, Klass, G., Cox, M., Kirkbride, K.P. (2012). Degradation in soil of precursors and by-products associated with the illicit manufacture of methylamphetamine: Implications for clandestine drug laboratory investigation. *Forensic Science International* 220:245-250.
116. **Naidu, R.**, Nandi, S., Megharaj, M., Praveen Kumar, R., Sreenivasulu, C., Chen, Z., Bowman, M. (2012). Monitored natural attenuation of a long term petroleum hydrocarbon contaminated sites- a case study. *Biodegradation* 23:881-895.
117. Sudharshan, S., **Naidu, R.**, Megharaj, M and Bolan, N.S. (2012). DDT pollution and remediation- a review of recent studies. *Biodegradation* 23: 851-863.
118. Thavamani, P., Megharaj, M. and **Naidu, R.** (2012). Bioremediation of high molecular weight polyaromatic hydrocarbons co-contaminated with metals in liquid and soil slurries by metal tolerant PAHs degrading bacterial consortium. *Biodegradation* 23:823-835.
119. Bahar, M.M., Megharaj, M. and **Naidu, R.** (2012). Arsenic bioremediation potential of a new arsenite-oxidizing bacterium *Stenotrophomonas* sp. MM-7 isolated from soil. *Biodegradation* 23: 803-812.
120. Cheng, Y., Lin, H.Y., Chen, Z., Megharaj, M., and **Naidu, R.** (2012). Biodegradation of crystal violet using *Burkholderia vietnamiensis* C09V immobilised on PVA sodium alginate-kaolin gel beads. *Ecotoxicology and Environmental Safety* 83: 108-114.
121. Liu, Y., Li, G, Chen, Z., Megharaj, M. and **Naidu, R.** (2012). Removal of nitrate using *Paracoccus* sp. Immobilized on bamboo carbon. *Journal of Hazardous Materials* 229-230: 419-425.
122. Lin, Y., Chen, Z., Megharaj, M. and **Naidu, R.** (2012). Degradation of scarlet 4BS in aqueous solution using bimetallic Fe/Ni nanoparticles. *Journal of Colloid and Interfacial Science* 381:30-35.
123. Yan Liu, Gan Li, Zu-liang Chen, Mallavarapu Megharaj, **Ravendra Naidu, Removal** of nitrate using *Paracoccus* sp. YF1 immobilized on bamboo carbon, *Journal of Hazardous Materials*, 229-230 (2012) 419- 425
124. Subashchandrabose, S.R., Megharaj, M., Venkateswarlu, K., **Naidu, R.** (2012). p-Nitrophenol toxicity to and its removal by three select soil isolates of

microalgae: the role of antioxidants. *Environmental Toxicology and Chemistry* 31:1980-1988.

125. Ming, H., He, W., Lamb, D., Megharaj, M. and **Naidu, R.** (2012). Bioavailability of lead in contaminated soil depends on the nature of bioreceptor. *Ecotoxicology and Environmental Safety* 78:344-350.
126. Sreenivasulu, K., Megharaj, M., Venkateswarlu, K. and **Naidu, R.** (2012). Degradation of p-nitrophenol by immobilized cells of *Bacillus* spp. isolated from soil. *International Biodeterioration & Biodegradation* 68:24-27.
127. Thavamani, P., Malik, S., Beer, M., Megharaj, M. and **Naidu, R.** (2012). Microbial activity and diversity in long-term mixed contaminated soils with respect to Polyaromatic hydrocarbons and heavy metals. *Journal of Environmental Management* 99: 10-17.
128. Pal, R., Megharaj, M., Kirkbride, P. and **Naidu, R.** (2012). Fate of 1-(1',4'-cyclohexadienyl)-2-methylaminopropane (CMP) in soil: route-specific byproduct in the clandestine manufacture of methamphetamine. *Science of the Total Environment* 416:394-399.
129. Park, J.H., Bolan, N.S., Megharaj, M. and **Naidu, R.** (2012). Relative value of phosphate compounds in reducing the bioavailability and toxicity of lead in contaminated soils. *Water, Air Soil Pollution* 223:599-608.
130. Sarkar, B., **Naidu, R.**, Rahman, M.M., Megharaj, M., Xi, Y. (2012). Organoclays reduce arsenic bioavailability and bioaccessibility in contaminated soils. *J Soils Sediments*, 12: 704-712.
131. Sarkar, B., Xi, Y., Megharaj, M., and **Naidu, R.** (2012). Surface charge characteristics of organo-palygorskites and adsorption of p-nitrophenol in flow-through reactor system. *Chemical Engineering Journal* 185-186: 35-43.
132. Sarkar, B., Xi, Y., Megharaj, M., Krishnamurti, G.S.R, Bowman, M., Rose, H and **Naidu, R.** (2012). Bio-reactive organoclay: A new technology for environmental remediation. *Critical Reviews in Environmental Science and Technology* 42:435-488.
133. Thavamani, P., Megharaj, M. and **R. Naidu.** (2012). Multivariate analysis of mixed contaminants (PAHs and Heavy metals) at manufactured gas plant site soil. *Environment Monitoring and Assessment* 184:3875-3885.
134. Smith, E., Weber, J., Rofe, A., Gancarz, D., **Naidu, R.**, Juhasz, A.L. (2012). Assessment of DDT relative bioavailability and bioaccessibility in historically contaminated soils using an in vivo mouse model and fed and unfed batch in vitro assays. *Environmental Science and Technology*. 46: 2928-2934.
135. Loganathan, P., Vigneswaran, S., Kandasamy, J., **Naidu, R.** (2012). Cadmium sorption and desorption in soils: A review. *Critical Reviews in Environmental Science and Technology*. 42: 489-533.
136. Singh, B.K., **Naidu, R.** (2012). Cleaning contaminated environment: A growing challenge. *Biodegradation*. 23: 785-786.

137. Rahman, M.M., Asaduzzaman, Md., **Naidu, R** (2013). Consumption of arsenic and other elements from vegetables and drinking water from an arsenic-contaminated area of Bangladesh. *Journal of Hazardous Materials*, Nov 2013, 262: 1056-1063
138. Sanderson, P., **Naidu, R.**, Bolan, N., Bowman, M., Mclure, S. (2012). Effect of soil type on distribution and bioaccessibility of metal contaminants in shooting range soils. *Science of the Total environment*. 438:452-462.
139. Lombi, E., Donner, E., Tavakkoli, E., Turney, T.W., **Naidu, R.**, Miller, B.W., Scheckel, K.G. (2012). Fate of zinc oxide nanoparticles during anaerobic digestion of wastewater and post-treatment processing of sewage sludge. *Environmental Science and Technology*.46: 9089-9096.
140. Ma, C., **Naidu, R.**, Liu, F., Lin, C., Ming, H. (2012). Influence of hybrid giant Napier grass on salt and nutrient distributions with depth in a saline soil. *Biodegradation* 23:907-916.
141. Bolan, N.S., Thangarajan, R., Seshadri, B., Jena, U., Das, K.C., Wang, H., **Naidu, R.** (2013). Landfills as a biorefinery to produce biomass and capture biogas. *Bioresource Technology*, May 2013, 135: 578-587
142. Man, M., **Naidu, R.**, Wong, M.H. (2012). Persistent toxic substances released from uncontrolled e-waste recycling and actions for the future. *Science of the Total environment*, Oct 2013, 463-464: 1133-1137
143. Tollamadugu N. V. K. V. Prasad, Venkata Subba Rao Kambala, Ravi Naidu. (2013). Phyconanotechnology: synthesis of silver nanoparticles using brown marine algae *Cystophora moniliformis* and their characterisation. *Journal of Applied Phycology*, 25(1): 177-182
144. Mohammed, T., Aryal, R., Kandasamy, J., Vigneswaran, S., Loganathan, P., **Naidu, R.** (2012). Removal of heavy metals in stormwater by hydrous ferric oxide. *Proceedings of the Institution of Civil Engineers: Water Management* 165: 171-178.
145. Kunhikrishnan, A., Bolan, N.S., MÄller, K., Laurenson, S., **Naidu, R.**, Kim, W.-I. (2012). The influence of wastewater irrigation on the transformation and bioavailability of heavy metal(loid)s in soil. *Advances in Agronomy*. 115: 215-297.
146. Zhengxian Chen, Ying Cheng, Zuliang, Chen, Mallavarapu Megharaj, **Ravendra Naidu**, (2012), Synthesis, reactivity and characterization of kaolin-supported nanoscale zero-valent iron for removing cationic dye-crystal violet in aqueous solution. *Journal of Nanoparticle Research*, 14: 899-915.
147. Chadalavada, S., Datta, B., **Naidu, R.** (2012). Optimal Identification of Groundwater Pollution Sources Using Feedback Monitoring Information: A Case Study. *Environmental Foresnsics* 13:140-153.
148. Park, J.H., Bolan, N., Chung, J.W., **Naidu, R.** and Megharaj, M. (2011). Environmental monitoring of the role of phosphate compounds in enhancing immobilisation and reducing bioavailability of lead in contaminated soils. *Journal of Environmental Monitoring* 13: 2234-2242.
149. Y-F Zhou, R J Haynes, **R Naidu** (2011) Use of inorganic and organic wastes for in situ immobilisation of Pb and Zn in a contaminated alkaline soil. *Environmental Science and Pollution Research* 11/2011; 19(4):1260-70. DOI:10.1007/s11356-011-0648-4

150. Zhang, X., Lin, S., Chen, Z., Megharaj, M and **Naidu, R.** (2011). Kaolinite-supported nanoscale zero-valent iron for removal of Pb²⁺ from aqueous solution: Reactivity, characterization and mechanism *Water Research* 45:3481-3488.
151. Park, J., Bolan, N., Megharaj, M., **Naidu, R.** and Chung, J.W. (2011). Bacterial-assisted immobilisation of lead in soils: implications for remediation. *Pedologist* 54: 162-174.
152. Park, J.H., Bolan, N.S., Megharaj, M. and **Naidu, R.** (2011). Concomitant rock phosphate dissolution and lead immobilization by phosphate solubilising bacteria (*Enterobacter* sp.). *Journal of Environmental Management* 92: 1115-1120.
153. Sarkar, B., Xi, Y., Megharaj, M., and **Naidu, R.** (2011). Orange II adsorption to palygorskites modified with alkyl trimethylammonium and dialkyl dimethylammonium bromide – an isothermal and kinetic study. *Applied Clay Science* 51:370-374.
154. Park, J.H., Bolan, N.S., Megharaj, M. and **Naidu, R.** (2011). Isolation of phosphate solubilising bacteria and their potential for lead immobilisation in soil. *Journal of Hazardous Materials* 185: 829-836.
155. Bolan, N.S., Park, J.H., Robinson, B., **Naidu, R.** and Huh, K.Y. (2011) Phytostabilization: a green approach to contaminant containment. *Advances in Agronomy*, 112, pp 145-204.
156. Park, J.H., Bolan, N.S., Megharaj, M. and **Naidu, R.** (2011) Isolation and characterization of phosphate solubilizing bacteria from phosphate amended and lead contaminated soils. *Journal of Hazardous Materials*, 185, pp 829-836.
157. Caceres, T., Megharaj, M. and **Naidu, R.** (2011). Toxicity and transformation of insecticide fenamiphos to the earthworm *Eisenia fetida*. *Ecotoxicology* 20: 20-28.
158. Thavamani, P., M. Megharaj., McFarland, R. and **R. Naidu.** 2011. Finger printing of mixed contaminants from former manufactured gas plant (MGP) site soils: implications to bioremediation. *Environment International* 37: 184-189.
159. Donner, E.; Howard, D. L.; de Jonge, M. D.; Paterson, D.; Cheah, M. H.; **Naidu, R.**; Lombi, E., (2011) X-ray Absorption and Micro X-ray Fluorescence Spectroscopy Investigation of Copper and Zinc Speciation in Biosolids. *Environmental Science & Technology* 2011, 45 (17), 7249-7257.
160. Thangavadivel, T., Megharaj, M., Smart, R.C., Lesniewski, J., Bates, D and **Naidu, R.** (2011). Ultrasonic enhanced desorption of DDT from contaminated soils. *Water, Soil and Air Pollution* 217: 115-125.
161. T.N.V.K.V.Prasad, V S R Kambala, **R Naidu.** (2011). A critical review on biogenic silver nanoparticles and their antimicrobial activity. *Current NanoScience.* 14:531-544.
162. X. Zhang, S. Lin, Z.L. Chen, M. Megharaj, **R. Naidu,** (2011), Characterizations of kaolinite supported nanoscale zero-valent iron used to remove Pb²⁺ from aqueous solution, *Water Research* 45: 3481-3488.
163. Z.X. Chen, X.Y. Jin, Z.L. Chen, M. Megharaj, **R. Naidu,** (2011), Removal of methyl orange from aqueous solution using bentonite-supported nanoscale zero-valent iron, *Journal of Colloid and Interface Science* 363: 601-607.

164. J. Su, S. Lin, Z. L. Chen, M. Megharaj, **R. Naidu**, Synthesis, (2011), characterization and kinetics of bentonite-supported Fe/Pd nanoparticles used for dechlorination of p-chlorophenol from aqueous solution, *Desalination* 280: 167-173.
165. D. Shanmuganathan, M. Megharaj, Z.L. Chen, **R. Naidu**, (2011), Polybrominated diphenyl ethers (PBDEs) in marine foodstuffs in Australia: Residue levels and contamination status of PBDEs, *Marine Pollution Bulletin* 63: 154-159.
166. Q. Sun, Z.L. Chen, D.X. Yuan, C.P. Yu, M. Megharaj, **R. Naidu**, (2011), On-line SPE coupled with LC-APCI-MS for the determination of trace explosives in water, *Chromatographia* 73: 631-637.
167. Suresh, R.S.C., Ramakrishnan, B., Megharaj, M., Venkateswarlu, K. and **Naidu, R.** (2011). Consortia of cyanobacteria/microalgae and bacteria: biotechnological potential. *Biotechnology Advances* 29: 896-907.
168. Xi, Y., Megharaj, M. and **Naidu, R.** (2011). Dispersion of zerovalent nanoparticles onto bentonites and use of these catalysts for orange II decolourisation. *Applied Clay Science* 53: 716-722.
169. Megharaj, M., Venkateswarlu, K., **Naidu, R.** (2011). Effects of carbaryl and 1-Naphthol on soil populations of cyanobacteria and microalgae and select cultures of diazotrophic cyanobacteria. *Bulletin of Environmental Contamination and Toxicology* 87:324-329.
170. Megharaj, M., Ramakrishnan, B., Venkateswarlu, K., Sethunathan, N., **Naidu, R.** (2011). Bioremediation approaches for organic pollutants: A critical perspective. *Environment International* 37:1362-1375.
171. Ramakrishnan, B., Megharaj, M., Venkateswarlu, K., Sethunathan, N and **Naidu, R.** (2011). Mixtures of environmental pollutants: Effects on microorganisms and their activities in soils. *Reviews of Environmental Contamination and Toxicology* 211: 63-120.
172. Liu, Y., **Naidu, R.**, Ming, H. (2011). Red mud as an amendment for pollutants in solid and liquid phases, *Geoderma*, 163, 1-12.
173. Smith, E., J. Weber, **R. Naidu, R. G. McLaren** and A. L. Juhasz (2011). Assessment of lead bioaccessibility in peri-urban contaminated soils. *Journal of Hazardous Materials* 186: 300-305.
174. Smith, E., I. M. Kempson, A. L. Juhasz, J. Weber, A. Rofe, D. Gancarz, **R. Naidu, R. G. McLaren** and M. Grafe (2011). In vivo - in vitro and XANES spectroscopy assessments of lead bioavailability in contaminated peri-urban soils. *Environmental Science and Technology* 45: 6145-6152.
175. Kunhikrishnan, A., Bolan, N.S., and **Naidu, R.** (2011). Phytoavailability of copper in the presence of recycled water sources. *Plant and Soil* 348: 425-438.
176. Park, J-H.; Bolan, N.; Megharaj, M., Naidu, (2011). R. Isolation of phosphate solubilizing bacteria and their potential for lead immobilization in soil. *Journal of Hazardous Materials*, 185, 829-836.

177. Park, J-H.; Bolan, N.; Megharaj, M.; **Naidu, R.** (2011). Comparative value of phosphate sources on the immobilization of lead, and leaching of lead and phosphorus in lead contaminated soils, *Science of the Total Environment*, 409, 853-860,
178. Sarkar, B., Xi, Y., Megharaj, M., **Naidu, R.**, (2011). Orange II adsorption on palygorskites modified with alkyl trimethylammonium and dialkyl dimethylammonium bromide - an isothermal and kinetic study. *Appl Clay Sci*, 51(3): 370-374.
179. Sarkar, B.; Megharaj, M.; Xi, Y.; **Naidu, R.**; (2011), Structural characterisation of Arquad® 2HT-75 organobentonites: Surface charge characteristics and environmental application. *Journal of Hazardous Materials*, 195: 155-161.
180. Murtaza G, Haynes R, **Naidu R**, Belyaeva O, Kim K-R, Lamb D and Bolan N (2011). Natural Attenuation of Zn, Cu, Pb and Cd in Three Biosolids-Amended Soils of Contrasting pH Measured Using Rhizon Pore Water Samplers. *Water, Air, & Soil Pollution* 221, 351-363.
181. Rahman, M.M., Asaduzzman, M., **Naidu, R.** (2011). Arsenic exposure from rice and water sources in the Noakhali district of Bangladesh. *Water Quality Exposure and Health* 3 (1), 1-10.
182. Pal R., Megharaj M., Kirkbride, P., Heinrich T., **Naidu, R.** (2011). Biotic and abiotic degradation of illicit drugs, their precursor, and by-products in soil. *Chemosphere*. 85: 1002-1009.
183. Park, J.H., Bolan, N.S., Chung, J.W, **Naidu, R.**, and Megharaj, M. (2011). Environmental monitoring of the role of phosphate compounds in enhancing immobilization and reducing bioavailability of lead in contaminated soils, *Journal of Environmental Monitoring* 13: 2234-2242.
184. Bolan, N.S., Park, J.H., Robinson, B., **Naidu, R.**, and Huh, K.Y. (2011). Phytostabilization: a green approach to contaminant containment. *Adv Agron*. 112, 145-204
185. Park, J.H., Bolan, N.S., Megharaj, M., **Naidu, R.**, Chung, J.W. (2011). Bacterial-assisted immobilization of lead in soils: implications to remediation, *Pedologist* 54, 162-174
186. Park, J-H., Bolan, n.S., Megharaj, M., **Naidu, R.** (2011), Concomitant rock phosphate dissolution and lead immobilization by phosphate solubilizing bacteria (*Enterobacter* sp.), *Journal of Environmental Management* 92, 1115-1120.
187. Donner, E., Howard, D., de Jonge M., Paterson, D., **Naidu, R.**, and Lombi E. (2011). X-ray adsorption and micro X-ray fluorescence spectroscopy investigation of copper and zinc speciation in biosolids. *Environmental Science and Technology*. 45: 7249–7257.
188. Lamb, D.T., Ming, H., Megharaj, M. and **Naidu, R.** (2010). Relative tolerance of a range of Australian native plant species and lettuce to copper, zinc, cadmium and lead. *Archives of Environmental Contamination and Toxicology* 59: 424- 432.
189. Okour, Y., Shon, H.K., Saliby, IJ El, **Naidu, R.**, Kim, J.B., Kim, JH (2010) Preparation and characterisation of titanium dioxide (TiO₂) and thiourea-doped titanate nanotubes prepared from wastewater flocculated sludge *Bioresource technology* 101 (5), 1453-1458

190. Seshadri, B., Bolan, N.S., **Naidu, R.** and Brodie, K. (2010), The role of coal combustion products in managing the bioavailability of nutrients and heavy metals in soils. *Journal of Soil Science and Plant Nutrition*, 10, pp 378-398.
191. Lamb, D.T., Ming, H., Megharaj, M. and **Naidu, R.** (2010). Phytotoxicity and accumulation of lead (Pb) in Australian native vegetation. *Archives of Environmental Contamination and Toxicology* 58: 613-621.
192. Wang, W.; Chen, Z.; Davey, D.E.; **Naidu, R.**; (2010). Speciation of Selenium in Biological Samples by ion chromatography with individually coupled plasma mass spectrometry. *Journal of Liquid Chromatography and Related Technologies*, 33: 1151-1173.
193. Lamb, D.; Ming, H.; Mallavarapu, M.; **Naidu, R.** (2010). Phytotoxicity and Accumulation of Lead in Australian Native Vegetation. *Arch Environ Contam Toxicol*, pages 613-621.
194. Kim, K-R.; Owens, G.; **Naidu, R.** (2010). Effect of Roof-Induced Chemical Changes on Dynamics and Plant Uptake of Heavy Metals in Rhizosphere Soils. *Pedosphere*, pages 494-504.
195. Kim, K-R.; Owens, G.; **Naidu, R.**; Kwon, S-IK. (2010). Influence of plant roots on rhizosphere soil solution composition of long-term contaminated soils. *Geoderma* 86-92.
196. Lamb, D.T.; Ming, H.; Mallavarapu, M.; **Naidu, R.** (2010). Relative Tolerance of a Range of Australian Native Plant Species and Lettuce to Copper, Zinc, Cadmium, and Lead. *Archives of Environmental Contamination and Toxicology* 59(3): 424-432.
197. Sarkar, B.; Xi, Yunfei; Mallavarapu, M.; Krishnamurti, G.S.R.; Dharmarajan, R. and **Naidu, R.** (2010). Remediation of hexavalent chromium through adsorption by bentonite based Arquad® 2HT-75 organoclays', *Journal of Hazardous Materials*.183: 87-97.
198. Park, J-H; Bolan, N.; Mallavarapu, M.; **Naidu, R.**, (2010), Isolation of phosphate-solubilizing bacteria and characterization of their effects on lead immobilization *Pedologist* 53: 67-75.
199. Caceres, T, Megharaj, M., Venkateswarlu, K., Sethunathan, N. and **Naidu, R.** (2010). Fenamiphos and related organophosphorus pesticides: Environmental fate and toxicology. *Reviews of Environmental Contamination and Toxicology* 205: 117-162.
200. Ramakrishnan, B., Megharaj, M., Venkateswarlu, K., **Naidu, R.** and Sethunathan, N. (2010). The impacts of environmental pollutants on microalgae and cyanobacteria. *Critical Reviews in Environmental Science and Technology* 40: 694-821.
201. Patra, R.C., Malik, S., Beer, M., Megharaj, M. and **Naidu, R.** (2010). Molecular characterization of chromium (VI) reducing potential in Gram positive bacteria isolated from contaminated sites. *Soil Biology and Biochemistry* 42: 1857-1863.
202. Rathnayake, I.V.N., Megharaj, M., Bolan, N. and **Naidu, R.** (2010). Tolerance of heavy metals by Gram positive soil bacteria. *International Journal of Civil and Environmental Engineering* 2:4: 191-195.

203. Sarkar, B., Megharaj, M., Xi, Y., Krishnamurti, G.S.R and **Naidu, R.** (2010). Sorption of quaternary ammonium compounds in soils: Implications to the soil microbial activities. *Journal of Hazardous Materials* 184: 448-456.
204. Xi, Y., Megharaj, M., **Naidu, R.** (2010). Reduction and adsorption of Pb²⁺ in aqueous solution by nano zero-valent iron - a SEM, TEM and XPS study. *Materials Research Bulletin* 45: 1361-1367.
205. Xi, Y., Mallavarapu, M., **Naidu, R.** (2010). Adsorption of the herbicide 2,4-D on organopalygorskite. *Applied Clay Science* 49: 255-261.
206. Sarkar, B., Xi, Y., Megharaj, M., Krishnamurti, G.S.R and **Naidu, R.** (2010). Synthesis and characterisation of novel organopalygorskites for removal of p-nitrophenol from aqueous solution: Isothermal studies. *Journal of Colloid & Interface Science* 350:295-304.
207. Sun, Q., Yuan, D., Chen, Z.L., Megharaj, M. and **Naidu, R.** (2010). Reduction of polyatomic interferences during ion-chromatographic speciation of metal ions via their EDTA complexes along with ICP-MS detection using an octopole reaction system. *Microchim Acta* 169: 41-47.
208. Xi, Y., Megharaj, M., **Naidu, R.** (2010). Preparation, characterization of surfactants modified clay minerals and nitrate adsorption. *Applied Clay Science* 48: 92-96.
209. Thangavadivel, T., Megharaj, M., Smart, R.C., Lesniewski, J and **Naidu, R.** (2010). Sonochemical Destruction of Chloroform by using Low Frequency Ultrasound in Batch and Flow cell. *Journal of Environmental Science and health A45:483-9. 0.75 only*
210. Juhasz, A.; Weber, J.; **Naidu, R.**; Gancarz, D.; Rofe, Allan; Todor, D.A.; Smith, E. Determination of cadmium relative bioavailability in contaminated soils and its prediction using in vitro methodologies (2010) *Environmental Science and Technology*.44: 5240-5247.
211. Bolan, N.S., **Naidu, R.**, Choppala, G., Park, J.H., Mora, M.L. and Budianta, D. (2010) Solute interactions in soils in relation to heavy metal(loid) bioavailability and remediation of the environment. *Pedologist*, 53, pp 1-18.
212. Laurenson, S., Kunhikrishnan, A., Bolan, N.S., **Naidu, R.**, McKay, J. and Keremane, G. (2010) Management of recycled water for sustainable production and environmental protection: A case study with Northern Adelaide Plains recycling scheme. *International Journal of Environmental Science and Development*. 1, pp 176-180.
213. Juhasz A. L., J. Weber, **R. Naidu**, D. Gancarz, A. Rofe, D. Todor and E. Smith (2010). Determination of relative cadmium bioavailability in contaminated soils and its prediction using in vitro methodologies. *Environmental Science and Technology* 44: 5240-5247
214. He, W., Megharaj, M. and **Naidu, R.** (2009). Toxicity of trivalent and pentavalent arsenic alone and in combination to the Cladoceran *Daphnia carinata*: the influence of microbial transformation in natural waters. *Environmental Geochemistry and Health* 31: 133-141.
215. Juhasz, A. L., E. Smith, J. Weber, **R. Naidu**, M. Rees, A. Rofe, T. Kuchel and L. Sansom (2009). Assessment of four commonly employed in vitro arsenic

bioaccessibility assays for predicting in vivo arsenic relative bioavailability in contaminated soils. *Environmental Science and Technology* 43: 9487-9494.

216. Lamb, D.T., Ming, H., Megharaj, M and **Naidu, R.** (2009). Heavy metal (Cu, Zn, Cd and Pb) partitioning and bioaccessibility in uncontaminated and long-term contaminated soils. *Journal of Hazardous Materials* 171:1150-1158.
217. Haynes, RJ, Murtaza, G and **Naidu, R.** (2009). Inorganic and organic constituents and contaminants of biosolids: implications for land application, *Advances in Agronomy* 104: 165-267.
218. Aryal, R., Kandasamy, J.K., Vigneswaran, S., **Naidu, R.** and Lee, S.H. (2009). Review of Stormwater quality, Quantity and Treatment Methods Part 1, *Environmental Engineering Research*, 14:71-78.
219. Juhasz, A. L., E. Smith, J. Weber, **R. Naidu**, M. Rees, A. Rofe, T. Kuchel and L. Sansom. (2009). Evaluation of SBRC-Gastric and SBRC-Intestinal Methods for the Prediction of In Vivo Relative Lead Bioavailability in Contaminated Soils. *Environmental Science and Technology*. 43, 4503-4509.
220. M. Rees, L. Sansom, A. Rofe, A. L. Juhasz, E. Smith, J. Weber, **R. Naidu** and T. Kuchel (2009). Principles and Application of an In Vivo Swine Assay for the Determination of Arsenic Bioavailability in Contaminated Matrices. *Environmental Geochemistry and Health* 31: 167-177.
221. Smith, E. and **R. Naidu.** (2009). Chemistry of inorganic arsenic in soils: Kinetics of arsenic adsorption-desorption. *Environmental Geochemistry and Health*. 31: 49-59.
222. Thangavadivel, T., Megharaj, M., Smart, R.C., Lesniewski, J and **Naidu, R.** (2009). Application of high frequency ultrasound in the destruction of DDT in contaminated sand and water. *Journal of Hazardous Materials* 168: 1380-1386.
223. Guo, Z., Megharaj, M., Beer, M., Ming, H., Rahman, M.M., Wu, W., **Naidu, R.** (2009). Heavy metal impact on bacterial biomass based on DNA analyses and uptake by wild plants in the abandoned copper mine soils. *Bioresource Technology* 100: 3831-3836.
224. Chen, Z., He, W., Beer, M., Megharaj, M., **Naidu, R.** (2009). Speciation of glyphosate, phosphate and aminomethylphosphonic acid in soil extracts by ion chromatography with inductively coupled plasma mass spectrometry with an octopole reaction system. *Talanta* 78: 852-856.
225. Sun, Q., Chen, Z.L., Yuan, D.X., Megharaj, M., **Naidu, R.** (2009), On-line solid phase extraction coupled liquid chromatography electrospray ionization mass spectrometry for the determination of trace tributyltin and triphenyltin in water, *Rapid Communication in Mass Spectrometry* 23 : 3795-3802
226. Chen, Z.L., Owen, G., Megharaj, M., **Naidu, R.** (2009). Speciation of Zn-aminopolycarboxylic complexes by electrospray ionization mass spectrometry and ion chromatography with inductively coupled plasma mass spectrometry *Rapid Communications in Mass Spectrometry* 23:419-424
227. Caceres, T., Megharaj, M., Malik, S., Beer, M. and **Naidu, R.** (2009). Hydrolysis of fenamiphos and its toxic oxidation products by *Microbacterium* sp. in pure culture and groundwater. *Bioresource Technology* 100: 2732-2736.

228. Basu, N.B., Rao, P.S.C., Poyer, I.C., Nandy, S., Mallavarapu, M., **Naidu, R.**, Davis, G.B., Patterson, B.M., Annable, M.D and Hatfield, K. (2009). Integration of traditional and innovative characterisation techniques for flux-based assessment of dense non-aqueous phase liquid (DNAPL) sites. *Journal of Contaminant Hydrology* 105: 161-172.
229. Caceres, T., He, W., Megharaj, M and **Naidu, R.** (2009). Effect of insecticide fenamiphos on soil microbial activities in Australian and Ecuadorean soils. *Journal of Environmental Science and Health B44*: 13-17.
230. Arora, M., Megharaj, M. and **Naidu, R.** (2009). Arsenic testing field kits: Some considerations and recommendations. *Environmental Geochemistry and Health* 31: 41-48.
231. **Naidu, R.** and Bhattacharya, P 2009, 'Arsenic in the environment—risks and management strategies', *Environ Geochem Health* 31:1–8.
232. Rahman, M.M, Ng, JC and **Naidu, R.** (2009). Chronic exposure of arsenic via drinking water and its adverse health impacts on humans, *Environ Geochem Health* 31:189–200.
233. Rahman, M.M, Owens, G and **Naidu, R** 2009, Arsenic levels in rice grain and assessment of daily dietary intake of arsenic from rice in arsenic-contaminated regions of Bangladesh—implications to groundwater irrigation, *Environ Geochem Health* 31:179–187.
234. Rahman, MM, Rahman, F, Sansom, L, **Naidu, R** & Schmidt, O. (2009). Arsenic interactions with lipid particles containing iron, *Environ Geochem Health* 31:201–206.
235. Kim, K.R., Owens, G., and **Naidu, R.** (2009). Heavy metal distribution, bioaccessibility and phytoavailability in long-term contaminated soils from Lake Macquarie, Australia, *Australian Journal of Soil Research*, 47: 166-176.
236. Khan, N.I., Owens, G., Bruce, D., **Naidu, R.** (2009). Human Arsenic Exposure and Risk Assessment at the Landscape Level: A Review, *Environmental Geochemistry and Health*, 31 (Suppl. 1), 143-166.
237. Khan, N.I., Owens, G., Bruce, D., **Naidu, R.** (2009). An effective Dietary Survey Framework for the Assessment of Total Dietary Arsenic Intake in Bangladesh: Part-A – FFQ Design, *Environmental Geochemistry and Health*, 31 (Suppl. 1), 207-220.
238. Khan, N.I., Owens, G., Bruce, D., **Naidu, R.** (2009). Implementation of Food Frequency Questionnaire for the Assessment of Total Dietary Arsenic Intake in Bangladesh: Part-B – Preliminary Findings, *Environmental Geochemistry and Health*, 31 (Suppl. 1), 221-238.
239. Rahman, M.M., Chen, Z.L., **Naidu, R.** (2009). Extraction of arsenic species in soils using microwave assisted extraction detected by ion chromatography coupled to inductively coupled plasma mass spectrometry. *Environmental Geochemistry and Health* 31 (Suppl. 1), 93-102.
240. Rahman, M.M., **Naidu, R.**, Bhattacharya, P. (2009). Arsenic contamination in groundwater in the Southeast Asia region. *Environmental Geochemistry and Health* 31 (Suppl. 1), 9-21.

241. Han, F., V.K. Kambala, M. Srinivasan., D. Rajarathnam and **R. Naidu**. (2009). Tailored titanium dioxide photocatalysts for the degradation of organic dyes in wastewater treatment: A Review, *Applied Catalysis:A*, 359, 25-40.
242. Kambala, V.K. and **R. Naidu**. (2009). Disinfection studies on TiO₂ thin films prepared by a sol-gel method, *J. Biomed. Nanotech*, 5, 1-9.
243. **Naidu, R.**, Smith, S.E., Huq, S.M.I., Owens, G. (2009) Sorption and bioavailability of arsenic in selected Bangladesh soils, *Environmental Geochemistry and Health*, 31 (Suppl. 1), 61-68.
244. Bhattacharya, P., M. Aziz Hasan, Ondra Sracek, Euan Smith, K. Matin Ahmed, Mattias von Brömssen, S.M. Imamul Huq, Ravi Naidu (2009) Groundwater chemistry and arsenic mobilisation in the Holocene flood plains in South-central Bangladesh. *Environmental Geochemistry and Health* 31 (Suppl. 1), 23-43.
245. Rahman, F., Chen, Z.L., **Naidu, R.** (2009). A comparative study of the extractability of arsenic species from silverbeet and amaranth vegetables. *Environmental Geochemistry and Health*, 31:103-113.
246. Wang, W.H., Z.L. Chen, D.E. Davey, **R. Naidu**. (2009). Extraction of selenium species in pharmaceutical tablets using enzymatic and chemical methods, *Microchimica Acta*, 165:167-172.
247. Rahman, F., **Naidu, R.** (2009). The influence of Arsenic speciation (As^{III} & As^V) and concentration on the growth, uptake and translocation of Arsenic in vegetable crops (silverbeet and amaranth) - greenhouse study. *Environmental Geochemistry and Health*. 31: 115-124.
248. Thiruvengkatachari, R., Vigneswaran, S. & **Naidu, R.** 2008, 'Permeable reactive barrier for groundwater remediation', *Journal of Industrial and Engineering Chemistry*, 14:145-156.
249. Chen, Z.L., Wang, W.H., Mallavarapu, M., **Naidu, R.** (2008). Comparison of no gas and He/H₂ cell modes used for reduction of isobaric interferences in selenium speciation by ion chromatography with inductively coupled plasma mass spectrometry. *Spectrochimica Acta Part B*, 63, 69-75
250. Malik, S., Beer, M., Megharaj, M and **Naidu, R.** (2008). The use of molecular techniques to characterize the microbial communities in contaminated soil and water. *Environment International* 34, 265-276.
251. Juhasz, A. L., E. Smith, J. Weber, M. Rees, A. Rofe, T. Kuchel, L. Sansom and **R. Naidu**. (2008). Application of an In Vivo Swine Model for the Determination of Arsenic Bioavailability in Hydroponically-Grown Vegetables. *Chemosphere* 71: 1963-1969.
252. Juhasz, A. L., E. Smith, J. Weber, **R. Naidu**, M. Rees, A. Rofe, T. Kuchel and L. Sansom. (2008). Effect of Soil Ageing on In Vivo Arsenic Bioavailability in Two Dissimilar Soils. *Chemosphere* 71: 2180-2186.
253. Caceres, T., Megharaj, M and **Naidu, R.** (2008) Degradation of fenamiphos in soils collected from different geographical regions: the influence of soil properties and climatic conditions. *Journal of Environmental Science and Health B43*, 314-322.

254. Caceres, T., Megharaj, M and **Naidu, R.** (2008) Sorption of fenamiphos to different soils: the influence of soil properties. *Journal of Environmental Science and Health B43*; 605-610.
255. Caceres, T., Megharaj, M and **Naidu, R.** (2008). Biodegradation of the Pesticide Fenamiphos by ten different species of green algae and cyanobacteria. *Current Microbiology* 57: 643-646.
256. Caceres, T., Megharaj, M and **Naidu, R.** (2008). Toxicity and transformation of fenamiphos and its metabolites by two microalgae *Pseudokirchneriella subcapitata* and *Chlorococcum* sp. *Science of the Total Environment* 398: 53-59.
257. Smith, E., A. L. Juhasz, J. Weber and **R. Naidu.** (2008). Arsenic Uptake and Speciation in Rice Plants Grown Under Greenhouse Conditions With Arsenic Contaminated Irrigation Water. *Science of the Total Environment* 392: 277-283.
258. Smith, E., **R. Naidu,** J. Weber and A. L. Juhasz. (2008). The Impact of Sequestration on the Bioaccessibility of Arsenic in Long-Term Contaminated Soils. *Chemosphere* 71: 773-780.
259. Kim, K-R., G. Owens, **R. Naidu** and K-H. Kim. (2008) Influence of vetiver grass (*Vetiveria zizanioides*) on rhizosphere chemistry in long-term contaminated soils. *Korean Journal of Soil Science and Fertilizer*, 41: 55-64.
260. Chen, Z., K-R. Kim, G. Owens, and **R. Naidu** (2008) Determination of Carboxylic Acids from Plant Root Exudates by Ion Exclusion Chromatography with ESI-MS, *Chromatographia*, 67: 113-117.
261. Chen, Z., Akter, K.F., Rahman, M.M and **Naidu, R.** (2008). Selection of mobile phase for the separation of arsenic species in soils and plant tissues by anion-exchange chromatography with inductively coupled mass spectrometry. *Microchem Journal*, 89:20-28.
262. Z.L. Chen, M. Megharaj, **R,Naidu** (2007). Confirmation of iron complex formation using electrospray ionization mass spectrometry (ESI-MS) and sample stacking for analysis of iron polycarboxylate speciation by capillary electrophoresis, *Microchemical Journal*, 86:94-101.
263. Kim, K-R. Owens, G., **Naidu, R** and Kim, K-H. (2007). Hyperaccumulation mechanism in plants and the effects of roots on rhizosphere soil chemistry – A critical review. *Korean Society of Soil Science and Fertilizer* 40:280-291
264. Kim, K-R. Owens, G., **Naidu, R** and Kim, K-H. (2007). Assessment Techniques of Heavy Metal Bioavailability in Soil - A critical review. *Korean Society of Soil Science and Fertilizer* 40: 311-325
265. Juhasz, A. L. and **R. Naidu.** (2007). Explosives: Fate, Dynamics and Ecological Impact in Terrestrial and Marine Environments. *Reviews in Environmental Contamination and Toxicology* 191: 163-215.
266. Juhasz, A. L., Smith, E., Weber, J., Rees, M., Rofe, A., Kuchel, T., Sansom, L. and **Naidu, R.** (2007). In vitro Assessment of Arsenic Bioaccessibility in Contaminated (Anthropogenic and Geogenic) Soils. *Chemosphere* 69: 69-78.

267. Juhasz, A. L., Smith, E., Weber, J., Rees, M., Rofe, A., Kuchel, T., Sansom, L. and **Naidu, R.** (2007). Comparison of In Vivo and In Vitro Methodologies for the Assessment of Arsenic Bioavailability in Contaminated Soils. *Chemosphere* 69: 961-966.
268. Chen, Z.L., Khan, N.I., Owens, G. and **Naidu, R.** (2007). Elimination of chloride interference on arsenic speciation in ion chromatography inductively coupled mass spectrometry using an octopole collision/reaction system, *Microchemical Journal*, 87: 87-90.
269. Chen, Z.L., Owens, G., Kim, K-R and **Naidu, R.** (2007). Confirmation of lead aminocarboxylic complex formation using electrospray ionization mass spectrometry and speciation by anion-exchange chromatography coupled with ICP-MS, *Analytica Chimica Acta*, 599: 163-169.
270. Chen, Z.L., Megharaj, M. and **Naidu, R.** (2007). The analysis of Fe³⁺ aminopolycarboxylate complexes by ESI-MS and CZE with the enhancement of UV sensitivity using sample stacking techniques. *Microchemical Journal*, 86, 94-101.
271. Chen, Z.L., Megharaj, M. and **Naidu, R.** (2007). Separation of chromium by ion chromatography with inductively coupled plasma mass spectrometry with octopole reaction system. *Talanta*, 72, 394-400.
272. Chen, Z.L., Rahman, M.M and **Naidu, R.** (2007). Speciation of vanadium by anion-exchange chromatography with inductively coupled plasma mass spectrometry and confirmation of vanadium complex formation using electrospray mass spectrometry. *J Anal At Spectrom.* 22, 811- 816.
273. Chen, Z.L., Megharaj, M and **Naidu, R.** (2007). Determination of bromate and bromide in seawater by ion chromatography with an ammonium salt solution as mobile phase, and inductively coupled plasma mass spectrometry *Chromatographia* 65: 115-118.
274. Chen, Z.L., Megharaj, M and **Naidu, R.** (2007). Removal of interferences in the speciation of chromium using an octopole reaction system in ion chromatography with inductively coupled plasma mass spectrometry. *Talanta* 73: 948-952.
275. Chen, Z.L., Megharaj, M and **Naidu, R.** (2007). Speciation of iodate and iodide in seawater by non-suppressed ion chromatography with inductively coupled plasma mass spectrometry. *Talanta* 72: 1842-1846.
276. Chen, ZL, G. Owen, **R. Naidu** (2007) Confirmation of vanadium complexes using ESI-MS and sample stacking for enhanced sensitivity by capillary electrophoretic determination of vanadium speciation, *Analytica Chimica Acta*, 585:32-37.
277. Cáceres, T., Megharaj, M and **Naidu, R.** (2007). Toxicity of fenamiphos and its metabolites to the Cladoceran *Daphnia carinata*: the influence of microbial degradation in natural waters. *Chemosphere* 66:1264-1269.
278. Cáceres, T., He, W., Megharaj, M and **Naidu, R.** (2007). Toxicity of Chlorpyrifos and TCP alone and in combination to *Daphnia carinata*: the influence of microbial degradation in natural water. *Water Research* 41: 4497-4503.
279. Cáceres, T., He, W., Megharaj, M. and **Naidu, R.** (2007). Toxicity of chlorpyrifos and TCP alone and in combination to *Daphnia carinata*: the influence of microbial degradation in natural water. *Water Research* 41: 4497-4503.

280. Chen, Z.L., Megharaj, M. and **Naidu, R.** (2007). Speciation of chromium in waste water using ion chromatography inductively coupled plasma mass spectrometry. *Talanta* 72: 394-400.
281. Chen, Z.L., Akter, K.F., Rahman, M.M., **Naidu, R.** (2006). Speciation of arsenic by ion chromatography inductively coupled plasma mass spectrometry using ammonium eluents. *J. Sep. Sci.* 29, 2671 – 2676.
282. Juhasz, A.L., Smith, E., Weber, J., Rees, M., Rofe, A., Kuchel, T., Sansom, L and **Naidu, R.** (2006). In vivo assessment of arsenic bioavailability in rice and its impact on human health risk assessment. *Environmental Health Perspectives*, 114:1826-1831.
283. Smith, E., Smith, J. and **Naidu, R.** (2006). Distribution and nature of arsenic along former railway corridors of South Australia. *Science of the Total Environment*, 363:175-182.
284. Sethunathan, N., Megharaj, M., Smith, L., Kamaludeen, S.P.B., S. Avudainayagam, S. and **Naidu, R.** (2005). Microbial role in the failure of natural attenuation of chromium (VI) in long-term tannery waste contaminated site. *Agriculture, Ecosystems and Environment* 105: 657-661.
285. Juhasz, A. L. and **R. Naidu** (2000). Enrichment and Isolation of Non-Specific Aromatic Degraders from Unique Uncontaminated (plant and faecal material) Sources and Contaminated Soils. *Journal of Applied Microbiology* 89: 642-650.
286. Akter, K.F., Chen, Z., Smith, L., Davey, D. and **Naidu, R.** (2005). Speciation of arsenic in ground water samples: A comparative study of CE-UV, HG-AAS and LC-ICP-MS. *Talanta* 68: 406-415.
287. Akter, K.F., Owens, G., Davey, D. and **Naidu, R.** (2005). Arsenic speciation and toxicity in biological systems. *Reviews of Environmental Contamination and Toxicology* 184: 97-149.
288. Sethunathan, N., Megharaj, M., Smith, L., Kamaludeen, S.P.B., S. Avudainayagam, S., **Naidu, R.** (2005). Microbial role in the failure of natural attenuation of chromium(VI) in long-term tannery waste contaminated site. *Agriculture, Ecosystems and Environment* 105: 657-661.
289. Krishnamurti, G.S.R., Megharaj, M. and **Naidu, R.** (2004). Bioavailability of cadmium-organic complexes to soil alga – an exception to free ion model. *Journal of Agricultural and Food Chemistry* 52: 3894-3899.
290. Sethunathan, N., Megharaj, M., Chen, Z.L., Williams, B.D., Lewis, G., **Naidu, R.** (2004). Algal degradation of an endocrine disrupting insecticide α -endosulfan and its metabolite, endosulfan sulfate in liquid medium and soil. *Journal of Agricultural and Food Chemistry* 52: 3030-3035.
291. Krishnamurti, G.S.R., Megharaj, M., **Naidu, R.** (2004). Bioavailability of cadmium-organic complexes to soil alga- an exception to free ion model. *Journal of Agricultural and Food Chemistry* 52:3894-3899.
292. Sethunathan, N., Megharaj, M., Chen, Z.L., Williams, B.D., Lewis, G., **Naidu, R.** (2004). Algal degradation of an endocrine disrupting insecticide α -Endosulfan and Its Metabolite, Endosulfan Sulfate in Liquid Medium and Soil. *Journal of Agricultural and Food Chemistry* 52: 3030-3035.

293. Kantachote, D., Singleton, I., **Naidu, R.**, Williams, B.D., McClure, N., Megharaj, M. (2004). Bioremediation of DDT contaminated soil: enhancement by seaweed addition. *Journal of Chemical Technology and Biotechnology*, 79:632-638.
294. Singh, N., Megharaj, M., Kookana, R.S., **Naidu, R.**, Sethunathan, N. (2004). Atrazine and simazine degradation in Pennisetum rhizosphere. *Chemosphere* 56:257-263
295. Chen, Z., Megharaj, M., **Naidu, R.** (2004). Determination of tetrachloroethene, trichloroethylene and their metabolites at trace level in groundwaters by on-line solid phase extraction/HPLC. *Journal of Liquid Chromatography & Related Technologies* 27: 885-896.
296. Kantachote, D., Singleton, I., **Naidu, R.**, McClure, N.C., Megharaj, M. (2004). Sodium application enhances DDT transformation in a long-term contaminated soil. *Water, Air and Soil Pollution* 154: 115-125.
297. Edvartoro, B.B., **Naidu, R.**, Megharaj, M., Merrington, G. and Singleton, I. (2004). Microbial formation of volatile arsenic in cattle dip site soils contaminated with arsenic and DDT. *Applied Soil Ecology* 25: 207-217.
298. Singh, N., Megharaj, M., Gates, W.D.P., Churchman, J., Kookana, R.S., **Naidu, R** and N. Sethunathan N. (2004). Sorption-Desorption of Fenamiphos in Surfactant-Modified Clays. *Bulletin of Environmental Contamination and Toxicology* 72:276-282
299. Chen, Z and **Naidu, R.** (2004). On-column complexation capillary electrophoretic separation of Fe²⁺ and Fe³⁺ using 2,6-pyridinedicarboxylic acid coupled with large-volume sample stacking. *Journal of Chromatography, A* 1023: 151-157.
300. Smith, E., Smith, J., **Naidu, R** and Juhasz, A.L. (2004). Desorption of DDT from a contaminated soil using cosolvent and surfactant washing in batch experiments. *Water, Air and Soil Pollution* 151: 71-86.
301. Juhasz, A. L., E. Smith, J. Smith and **R. Naidu** (2003). Development of a two-phase cosolvent washing-fungal biosorption process for the remediation of DDT-contaminated soil. *Water, Air and Soil Pollution* 146: 111-126.
302. Kamaludeen, S.P.B., Megharaj, M., **Naidu, R.**, Singleton, I., Juhasz, A.L., Hawke, B.G. and N. Sethunathan, N. (2003). Microbial activity and phospholipid fatty Acid pattern in long-term tannery wastes contaminated soil. *Ecotoxicology and Environmental Safety* 56: 302-310.
303. Zheng, M X., Xu, J.m., Smith, L and **Naidu, R** (2003) Why a fern (*Pteris multifida*) dominantly growing on an arsenic-heavy metal contaminated soil does not accumulate arsenic? *J. Phys. IV France* 107 (2003) 1409
304. Kamaludeen, S. B. P., M. Megharaj, A. L. Juhasz, N. Sethunathan and **R. Naidu** (2003). Chromium-Microorganism Interactions in Soils: Remediation Implications. *Reviews of Environmental Contamination and Toxicology* 178: 93-164.
305. Smith, E., Smith, J., Smith, L., Biswas, T., Correll, R. and **Naidu, R.** (2003). Arsenic in the Australian environment: An overview. *Journal of Environmental Science and Health, Part A Vol. A38*:223-239.

306. Bolan, NS, Adriano, DC and **Naidu, R.** (2003). Role of Phosphorus on Immobilization and Bioavailability of Heavy Metals in Soil-Plant System. *Reviews of Environmental Contamination and Toxicology*. 177: 1-44.
307. Avudainayagam, S., Megharaj, M., Owens, G., Kookana, R.S., Chittleborough, D. and **Naidu, R.** (2003). Chemistry of Chromium in Soils with Emphasis on Tannery Waste sites. *Reviews of Environmental Contamination and Toxicology* 178: 53-91.
308. Chen Z.L., Owens G. and **Naidu R.** (2003). Enhanced Selectivity and Sensitivity for Inorganic Anions Using an Ion-pairing Reagent and Sample Stacking in Capillary Zone Electrophoresis with Direct UV Detection, *Anal. Bioanal. Chem.*, 375, 182-187.
309. Chen, Z.L. and **Naidu, R.** (2003). Separation of sulphur species in water by co-electroosmotic capillary electrophoresis with direct and indirect UV detection. *Intern. J. Environ. Anal. Chem.* 83: 749-759.
310. Chen, Z.L., Lin, J-M and **R. Naidu.** (2003). Separation of arsenic species by capillary electrophoresis with sample-stacking techniques. *Anal. Biol. Chem.* 375: 679-684.
311. Z.L.Chen, **R. Naidu** (2003). Separation of sulfur species in water by co-electroosmotic capillary electrophoresis with direct and indirect UV detection. *International Journal of Environmental Analytical Chemistry*, 83:749-759.
312. Hettipathirana, T.; Grey, N., and **Naidu, R.** (2003). Elimination of analytical error due to the use of catch weights with loss-eliminated alphas in X-ray fluorescence spectrometric analysis of limestone using borate fusions. *Spectrochimica Acta Part B-Atomic Spectroscopy*. 58:85-95.
313. Juhasz, A.L., Smith, E., Smith J., **Naidu, R.** (2003). Development of a two-phase cosolvent-fungal biosorption process to remediate DDT-contaminated soil. *Wat. Air Soil Pollut.*, 146:111-126.
314. Juhasz, A.L., Smith, E., Smith, J., **Naidu, R.** (2003). Remediation of persistent organic pollutants using a novel two-phase soil washing biosorption process. *Wat. Air Soil Pollut. Focus*, 3:233-242.
315. Juhasz, A. L., **R. Naidu**, Y. G. Zhu, L. S. Wang, J. Y. Jiang and Z. H. Cao (2003) Toxicity Issues Associated with Geogenic Arsenic in the Groundwater-Soil-Plant-Human Continuum. *Bulletin of Environmental Contamination and Toxicology*. 71:1100-1107
316. Juhasz, A. L., E. Smith, J. Smith and **R. Naidu** (2003). In situ remediation of DDT-contaminated soil using a two-phase cosolvent flushing-biosorption process. *Water, Air and Soil Pollution* 147: 263-274.
317. Kanistar K., Chen Z.L., Owens G. and **Naidu R.** (2003). Influence of Organic Modifiers on the Separation Selectivity of Carboxylic Acids by Capillary Electrophoresis with Direct UV Detection, *J. Liq. Chrom. and Rel. Technol.*, 26: 455-468.
318. Kamaludeen, S. P. B., M. Megharaj, **R. Naidu**, I. Singleton, A. L. Juhasz, B. G. Hawke and N. Sethunathan (2003). Microbial Activity and Phospholipid Fatty Acid Pattern in Long-Term Tannery Waste Contaminated Soil. *Ecotoxicology and Environmental Safety* 56: 302-310.

319. Kamaludeen, S.P.B., Megharaj, M., Sethunathan, N., Juhasz, A. and **Naidu, R.** (2003). Chromium-microorganisms interactions in soils: Implications to remediation. *Reviews of Environmental Contamination and Toxicology* 178:93-164.
320. Kantachote, D., Singleton, I., McClure, N., **Naidu, R.**, Megharaj M. and Harch B.D. (2003) DDT Resistance and transformation by different microbial strains isolated from DDT-contaminated soils and compost materials. *Compost Science and Utilisation* 11: 300-310.
321. Megharaj, M., Avudainayagam, S and **Naidu, R.** 2003. Toxicity of hexavalent chromium and its reduction by bacteria isolated from soil contaminated with tannery waste. *Current Microbiology* 47:51-54.
322. Megharaj, M., Singh, N., Kookana, R.S., **Naidu, R** and Sethunathan, N. 2003. Hydrolysis of fenamiphos and its oxidation products by a soil bacterium in pure culture, soil and water. *Applied Microbiology and Biotechnology* 61: 252-256.
323. Scott, T.L., Janusz, A., Perkins, M.V., Megharaj, M., Naidu,R., Kirkbride,K.P. (2003). Effect of Amphetamine Precursors and By-Products on Soil Enzymes of Two Urban Soils. *Bulletin of Environmental Contamination and Toxicology*. 70:824-831
324. K. Kanitsar, Z.L.Chen, G. Owens, **R. Naidu** (2003). Influence of organic modifiers on the separation of carboxylic acids using Co-EOF capillary electrophoresis. *Journal of Liquid Chromatography & Related Technologies*, 26:455-468.
325. Edvantoro, B.B., Naidu,R., Megharaj,M., Singleton, I. (2003) Changes in microbial properties associated with long-term arsenic and DDT contaminated soils at disused cattle dip sites. *Ecotoxicology and Environmental Safety* 55: 344-351
326. Janusz, A., Kirkbride, K.P., Scott, T.L., **Naidu, R.**, Perkins, M.V. and Megharaj, M. (2003). Microbial degradation of illicit drugs, their precursors, and manufacturing by-products: implications for clandestine drug laboratory investigation and environmental assessment. *Forensic Science International* 131:62-71.
327. Singh, N., Megharaj, M., Gates, W.P., Churchman, G.J., Anderson, J.A., Kookana, R.S., **Naidu, R.**, Chen, Z.,Slade, P.G. and Sethunathan,N. 2003. Bioavailability of an organophosphorus pesticide, fenamiphos, sorbed on an organo-clay. *Journal of Agricultural and Food Chemistry* 51: 2653-2658.
328. Vig, K., Megharaj, M., Sethunathan, N and **Naidu, R.** (2003). Bioavailability and toxicity of cadmium to microorganisms and their activities in soil: a review. *Advances in Environmental Research* 8:121-135.
329. Huq, S.M.I., N. Sultana, R. Correll and **R. Naidu** (2003) Arsenic contamination in food chain: Bangladesh scenario. *J. Environ. Sci. Health, Part A* Vol. A38, No.1 (In Press)
330. Bolan, NS, Adriano, D and **Naidu, R.** (2002) Immobilization of heavy metals in soils using phosphate compounds. *Soil News*: 50: 44-47.
331. Juhasz, A. L., E. Smith, J. Smith and **R. Naidu.** (2002). Biosorption of Organochlorine Pesticides Using Fungal Biomass. *Journal of Industrial Microbiology and Biotechnology*. 29: 163-169.

332. Krishnamurti, G.S.R., **Naidu, R.** Solid-solution equilibria of cadmium in soils. *Geoderma* 113, 17-30.
333. Chen, Z.L., Megharaj, M and **Naidu, R.** (2002). On-line solid phase extraction of pesticide residues in natural water, coupled with liquid chromatography and UV detection, using various sorbents. *Journal of Liquid Chromatography & Related Technologies* 25: 1779-1790.
334. Chen, Z.L., Megharaj, M and **Naidu, R.** (2002). Comparison of adsorbents for on-line solid-phase extraction of polycyclic aromatic hydrocarbons before liquid chromatography with UV detection. *Chromatographia* 56: 105-108.
335. Sethunathan, N., Megharaj, M., Chen, Z., Singh, N., Kookana, R.S. and **Naidu, R.** (2002). Persistence of endosulfan and endosulfan sulfate in soil as affected by moisture regime and organic matter addition. *Bulletin of Environmental Contamination and Toxicology* 68: 725-731.
336. Chen, Z.L., **Naidu, R.** (2002). On-column complexation of metal ions using 2,6-pyridinedicarboxylic acid and separation of their anionic complexes by capillary electrophoresis with direct UV detection. *J. Chromatogr. A*, 966, 245-251.
337. Chen, Z.L., **Naidu, R.** (2002). On-column complexation and simultaneous separation of vanadium (IV) and vanadium (V) by capillary electrophoresis with direct UV detection. *Anal. Bioanal. Chem.*, 374, 520-525.
338. Chen, Z.L., Pavelic, P., Dillon, P., **Naidu, R.** (2002). Determination of caffeine in surface and ground-water by on-line solid-phase extraction and liquid chromatography with diode-array detection, *Water Res.*, 36, 4830-4838.
339. Krishnamurti, G.S.R., **Naidu, R.** (2002). Solid-solution speciation and phytoavailability of Copper and Zinc in soils. *Environ. Sci. Technol.*, 36:2645-2651.
340. Smith, E, **Naidu, R.**, Alston, A. (2002). Chemistry of arsenic in soils: II. Effect of P, Na and Ca. *Environ. Qual.*, 31, 557-563.
341. Avidainayagam, S, **Naidu, R.**, Kookana, R.S., Alston, A.M., McClure, S., Smith, L.H. (2001), Effects of electrolyte composition on chromium desorption in soils contaminated by tannery waste. *Aust J Soil Res.* 39(5): 1077-1090.
342. Chen, Z.L., Krishnamurti, G.S.R., **Naidu, R.** (2001). Separation of phenolic acids in soil and plant tissue extracts by co-electroosmotic capillary electrophoresis with direct UV detection. *Chromatographia.* 53: 179-184.
343. Chen, Z.L., **Naidu, R.**, Subramanian A. (2001). Separation of chromium (III) and chromium (VI) by capillary electrophoresis using 2,6-pyridinedicarboxylic acid as a pre-column complexation agent. *J. Chromatogr. A*, 927: 219-227.
344. Harter, R.D., **Naidu, R.** (2001) An assessment of environmental parameter impact on trace-metal sorption by soils. *Soil Sci. Soc. America. Journal.* 597-612.
345. Kantachote, D., **Naidu, R.**, Singleton, I., McClure, N., Harch, B.D. (2001), Resistance of microbial populations in DDT contaminated soils. *Applied Soil Ecology*, 16: 85-90.

346. **Naidu, R.**, Chen, Z. (2001). Application of co-electroosmotic capillary electrophoresis for the determination of inorganic anions and carboxylic acids in soil and plant extract with direct UV detection. *Chromatographia*, 54: 495-500.
347. Chen, Z.L., Kookana, R.S., **Naidu, R.** (2000). Determination of sulfonylurea herbicides in soil extracts by solid-phase extraction and capillary zone electrophoresis. *Chromatographia*, 52:142-146.
348. Juhasz, A.L., **Naidu, R.** (2000). Extraction and recovery of organochlorine pesticides from fungal mycelia. *Journal of Microbiological Methods*. 39: 149-158.
349. Juhasz, A.L., **Naidu, R.** (2000). Enrichment and isolation of non-specific aromatic degraders from unique uncontaminated (plant and fecal material) sources and contaminated soils. *Journal of Applied Microbiology* 89: 642-650.
350. Juhasz, A.L., **Naidu, R.** (2000). Bioremediation of high molecular weight polycyclic aromatic Hydrocarbons: A review of the microbial degradation of Benzo[a]pyrene. *International Biodeterioration and Biodegradation* 45: 57-88.
351. Juhasz, A.L., Smith, E., Smith, J., **Naidu, R.** (2000). Biosorption of persistent organic pollutants: An overlooked aspect of biosorption. *Microbiology Australia*. 21: 15-16.
352. Krishnamurti, G.S.R., **Naidu, R.** (2000). Speciation and phytoavailability of cadmium in selected surface soils of South Australia. *Aust J Soil Res*. 38: 991-1004.
353. Krishnamurti, G.S.R., Smith L.H., **Naidu, R.** (2000). Method for assessing plant-available cadmium in soils. *Aust J Soil Res*. 38: 823-836.
354. Megharaj, M, Kantachote, D, Singleton, I., **Naidu, R.** (2000). Effects of long-term contamination of DDT on soil microflora with special reference to soil algae and algal metabolism of DDT. *Environmental Pollution*. 109: 35-42.
355. Megharaj, M., Singleton I., McClure, N.C., **Naidu, R.** (2000). Influence of petroleum hydrocarbon contamination on microalgae and microbial activities in a long-term contaminated soil. *Arch. Environ Contam Toxicol.*, 38: 439-445.
356. **Naidu, R.**, Smith, J., McLaren, R.G., Stevens, D., Sumner, M.E., Jackson, P.E. (2000). Application of capillary electrophoresis to anion speciation in soil water extracts: II. Arsenic. *Soil Science Society of America Journal*. 122: 64.
357. Juhasz, A.L., **Naidu, R.** (1999). Apparent degradation of DDT by *Cladosporium* sp. strain AJR318, 501. *Biotechnology Letters*. 21: 991-995.
358. Baskaran, S., Kookana, R.S., **Naidu, R.** (1999). Degradation of bifenthrin, chlorpyrifos and imidacloprid in soil and bedding materials at termiticidal application rates. *Pesticide Sci*. 55: 1222-1228.
359. Bolan N.S., **Naidu R.**, Syers J.K., Tillman R.W. (1999). Effect of anion sorption on cadmium sorption by soils. *Aust. J. Soil Res*. 37: 445-460.
360. Megharaj M., Singleton, I., Kookana, R.S., **Naidu, R.** (1999). Persistence and effects of fenamiphos on native algal populations and enzymatic activities in soil. *Soil Biology & Biochemistry* 31: 1549-1553.

361. Oliver, D.P., McLaughlin, M.J., **Naidu, R.**, Smith, L.H., Maynard, E.J., Calder, I.C. (1999). Measuring Pb bioavailability from household dusts using an in vitro model. *Environ. Sci. Technol.* 33: 4434-4439.
362. Smith, E, **Naidu, R.**, Alston, A.M. (1999). Chemistry of arsenic in soils: I Sorption of arsenate and arsenite by four Australian soils. *J. Environ. Qual.*, 28: 1719-1726.
363. **Naidu, R.**, Haynes, R.J. (1998). Effects of liming and drying and rewetting cycles on composition of saturation paste extracts of a Fijian Oxisol. *TROP AGR* 76: 29-35
364. Bolan, N.S., **Naidu, R.**, Tillman, R.W., Syers, J.K. (1998). Surface charge and solute interactions in soils. Invited review- *Adv. Agron.* 67: 88-141.
365. Fotovat, A., **Naidu, R.** (1998). Changes in composition of soil aqueous phase influence desorption and chemistry of native heavy metals in alkaline sodic and acidic soils. *Geoderma.* 84: 213-234.
366. Gupta, V.V.S.R., Rogers, S., **Naidu, R.** (1998). Effects of secondary treated sewage effluent application on the populations of microfauna in a hardwood plantation soil: Bolivar HIAT trial. *Geoderma*, 49: 263.
367. Hamon, R.E., McLaughlin, M.J., **Naidu, R.**, Correll, R. (1998). Long-term changes in cadmium bioavailability in soil. *Environ. Sci. Technol.* 32: 3699-3703.
368. Haynes, R.J., **Naidu, R.** (1998). Influence of lime, fertilizer and manure applications on organic matter content and soil physical conditions-a review. *Nutrient cycling in Agroecosystems*, 51: 123-137.
369. Kookana, R.S., Baskaran, S., **Naidu, R.** (1998). Pesticide fate and behavior in Australian soils in relation to contamination and management of soil and water: a review. *Aust. J Soil Res.* 36: 715-764.
370. Kookana, R.S., **Naidu, R.** (1998). Effect of soil solution composition on transport of Cd in variable charge soils. *Geoderma* 84: 235-248.
371. McLaren, R., **Naidu, R.**, Smith, J., Tiller, K.G. (1998). Fractionation and distribution of arsenic in soils contaminated by cattle dip. *Environ. Qual.* 27: 348-354.
372. **Naidu, R.**, Naidu, S., Jackson, P., McLaren, R.G., Sumner, M.E. (1998). Application of capillary electrophoresis to anion speciation in soil water extracts: I. Theory and Principles of Capillary Electrophoresis. *Advances in Agronomy.* 65.
373. **Naidu, R.**, Harter, R.D. (1998). Effectiveness of different organic ligands on sorption and extractability of cadmium by soils. *Soil Science Society America J.*, 62: 644-650.
374. **Naidu, R.**, Sumner, M.E., Harter, R.D. (1998). Sorption of heavy metals in strongly weathered soils: An Overview. *J Environmental Geochemistry and Health* 20: 5-9.
375. Smith, E., **Naidu, R.**, Alston, A.M. (1998). Arsenic in the Soil Environment: A review. *Advances in Agronomy*, 64: 149-195.
376. **Naidu, R.**, Morrison, R.J., Janik, L., Asghar, M. (1997). Clay mineralogy and surface charge characteristics of basaltic soils from W Samoa. *Clay Minerals* 32: 545-556.

377. Morrison, R.J., Gangaiya, P., Naqasima, M.R., **Naidu, R.** (1997). Trace metal studies in the Great Astrolabe Lagoon, Fiji, a pristine marine environment. *Marine Pollution Bulletin* 34: 353-356.
378. Hamon, R., Wundke, J., McLaughlin, M.J., **Naidu, R.** (1997). Availability of zinc and cadmium to different plant species. *Aust. J. Soil. Res.* 35: 1267-1278.
379. Fotovat, A., **Naidu, R.**, Sumner, M.E. (1997). Water: Soil ratio influences aqueous phase chemistry of indigeneous copper and zinc in soils. *Aust. J Soil Res.* 35:687-710.
380. **Naidu, R.**, Bolan, N.S., Baskaran, S., Kookana, R.S. (1997). Environmental impacts of agrochemicals on soils, water and food quality. *Agro's Annual Review of Crop Ecology.* 1: 1-34
381. Fotovat, A., **Naidu, R.** (1997). Ion exchange resin and MINTEQA2 speciation of Zn and Cu in alkaline sodic and acidic soil extracts. *Aust. J. Soil Res.* 35: 711-726
382. Baskaran, S., Kookana, R.S., **Naidu, R.** (1997). HPLC determination of Imidacloprid, a newly developed Nitromethylene insecticide, in water and soil. *J of Chromatography A* 787: 271-275.
383. Baskaran, S., Kookana, R.S., **Naidu, R.** (1997) Sorption and movement of some pesticides through turf profiles under Australian conditions. *International Turfgrass Society.* 8: 151-166.
384. Bolan N S., **Naidu, R.**, Khan, MAR., Tillman R W., Syers, JK (1996) The effects of anion sorption on sorption and leaching of cadmium. *Aust. J. Soil Res.* 37, 445-460.
385. McLaughlin, MJ, Tiller, KG, **Naidu, R** and Stevens, DP. (1996) Review: The behaviour and environmental impact of contaminants in fertilizers. *Aust. J. Soil Res.* 34, 1-54.
386. **Naidu, R**, Kookana, RS, Sumner, ME, Harter, RD and the late Tiller, KG. (1996) Cadmium sorption and transport in Variable Charge Soil: A review. *J Environmental Quality* 26: 602-617.
387. Fotovat, A., Smith, L, **Naidu, R**, Oades, J.M. (1996) Analysis of Indigenous Zinc in Alkaline Sodic Soil Solutions by Graphite Furnace Atomic Absorption Spectrometry (GFAAS). *Communications in Soil Science and Plant Analyses* 27: 2997-3012.
388. **Naidu, R**, McKenzie, NJ, Fitzpatrick, RW and McClure, S. (1996) Effect of long term farming on soil solution composition and aggregate stability of four contrasting soils in Mid North South Australia. *Aust. J Soil Res.* 34:511-527.
389. Harter, R.D. and **R. Naidu.** (1995). Role of Metal-Organic Complexation in Metal Sorption by Soils. *Adv. Agron.* 55:219-263.
390. Doube, B, **Naidu, R**, McClure, S and Davoren, CW. (1995). Preliminary analysis of the distribution of particles of calcium carbonate in the soil matrix and in casts of Aporetodea trapezoides and its response to gradients in soil pH. *Acta Zoologica Fennica.* 196: 65-66
391. Tiller, KG, Oliver, DP, McLaughlin, MJ and **Naidu, R.** (1995) Managing Cd contamination of agricultural land. *Adv. in Environ. Sci.* pp155-182

392. Rengasamy, P and **Naidu, R.** (1995) Rupture strength of alfisols and oxisols as affected by slaking and dispersion. In: So, HB, Smith, GD, Raine, SR, Schafer, BM and Loch, RJ (eds) Sealing Crusting and Hardsetting soils: Productivity and Conservation. Australian Society of soil Science Brisbane, Australia. pp. 489-492.
393. Harter, RD and **Naidu, R.** (1995) Role of metal-organic complexation on metal sorption by soils. *Advances in Agronomy* 55:219-264
394. **Naidu, R.**, Mitchell, BD and MacKenzie, RC. (1994). Characteristics of some soils on middle old red sandstone sediments in the Orkney Islands. *Aust J Soil Res.* 32; 519-34
395. **Naidu, R.**, Bolan, NS, Kookana, RS and Tiller, KG. (1994) Ionic strength and pH effects on surface charge and Cd sorption characteristics of soils. *J of Soil Sci.* 45: 419-429
396. Kookana, RS, **Naidu, R** and Tiller, KG. (1994) Sorption non-equilibrium during Cd transport through soil. *Aust J Soil Res.*32:635-651
397. Bolan, NS, **Naidu, R.**, Mahimairaja, S and Baskaran, S. (1994) Influence of low molecular weight organic acids on the solubilization of phosphorus. *Biol. and Fert. of Soils* 18: 311-319.
398. Fitzpatrick, RW, Boucher, S, **Naidu, R** and Fritsch, E. (1994) Environmental consequences of sodicity. *Aust. J Soil Res.* Vol. 32: 1069-1093.
399. **Naidu, R** and Rengasamy, P. (1993) Ion interactions and constraints to plant nutrition in Australian sodic soils: an Overview. *Aust J Soil Res* Vol 31.801-821
400. **Naidu, R.**, Merry, RAH, Churchman, GJ, Wright, MJ, Murray, R, Fitzpatrick, RW and Zarcinas, BAZ (1993) Sodicity in South Australia: a review. *Aust J Soil Res* Vol. 31 :911-930
401. **Naidu, R.**, Sumner, ME and Rengasamy, P. (1993) National conference and workshop on sodic soils: Summary and conclusions. *Aust. J Soil Res.* Vol. 31: 949-956
402. Fitzpatrick, RW, Hudnall, WH, **Naidu, R** and Self, PG. (1993). Origin and properties of inland and tidal saline sulfate soils in South Australia. Selected papers of the Ho Chi Minh City Symposium on acid sulfate soils. International Institute of Land Reclamation and Development Pub. no. 53, 71-80.
403. **Naidu, R.**, Williamson, D, Fitzpatrick, RW and Hollingsworth, I. (1993). Chemistry of throughflow water above clayey sodic B horizon: Implications to catchment management. *Aust. J of Exper. Agric.* 33: 239-244
404. **Naidu, R.** (1993) Distribution properties and management of sodic soils: an introduction. *Aust. J Soil Res.*Vol. 31.:681-682
405. **Naidu, R** and Syers, JK. (1992). Influence of sugarcane millmud, Lime, and phosphorus, on soil chemical properties and the growth of *Leucaena Leucocephala* in an oxisol from Fiji. *Biores. Tech.* 41: 65-70.
406. Rengasamy, P, **Naidu, R.**, Beech, TA, Chan, KY and Chartres, CJ. (1992). Rupture strength as related to dispersive potential in Australian soils. *Catena Sup.* 24: 65-75.

407. Fitzpatrick, RW, **Naidu, R** and Self, PJ. (1992) Iron deposits and microorganisms in saline sulfidic soils with altered soil water regimes in South Australia. *Catena Sup.* 21: 263-286.
408. **Naidu, R**, Syers, JK, Tillman, RW and Kirkman, JH. (1991). Assessment of plant available phosphate using several soil-testing procedures. *Fert. Res.* 30: 47-53.
409. Curtin, D, **Naidu, R** and Syers, JK. (1991) Chemical and mineralogical characteristics of some strongly weathered Fijian soils: Fertility Implications. *Geoderma.* 48: 363-372.
410. **Naidu, R**, Haynes, RJ, Gawandar, JS, Morrison, RJ and Fitzpatrick, RW. (1991). Chemical and mineralogical properties and soil solution composition of acid soils from the South Pacific Islands. *Plant and Soil.* In. *Plant-Soil Interactions at low pH* ed. R.J. Wright - USDA-ARS, West Virginia, USA pp. 43-53.
411. Haynes, RJ and **Naidu, R**. (1991) Effect of lime additions on the availability of P and S in some temperate and acid soils. *Plant and Soil.* In. *Plant-Soil Interactions at low pH* ed. R.J. Wright - USDA-ARS, West Virginia, USA pp. 268-274.
412. **Naidu, R**, Syers, JK, Tillman, RW and Kirkman, JH. (1990). Effect of liming on phosphate sorption by acid soils. *J. Soil Sci.* Vol. 41: 157-164.
413. **Naidu, R**, Tillman, RW, Syers, JK and Kirkman, JH. (1990). Effect of liming and added phosphate on charge characteristics of acid soils. *J. Soil Sci.* Vol. 41: 165-175.
414. **Naidu, R**, Syers, JK, Tillman, RW and Kirkman, JH. (1990). Lime-aluminium-phosphate interactions and the growth of *Leucaena leucocephala*. I. Plant growth. *Plant and Soil.* Vol 126: 1-9.
415. **Naidu, R**, Tillman, RW, Syers, JK and Kirkman, JH. (1990). Lime-aluminium-phosphate interactions and the growth of *Leucaena Leucocephala*. II. Chemical Composition. *Plant and Soil.* Vol 126: 9-19.
416. **Naidu, R**, Singh, U, Prasad, G, Bain, DC and Morrison, RJ. (1990). Evaluation of Fiji phosphate rocks: Chemical and Mineralogical properties of samples from the Laugroup. *Fert. Res.* 23: 181-190.
417. **Naidu, R**, Syers, JK, Tillman, RW, Lee, R and Kirkman, JH. (1988). Extraction of aluminium from soils using M. KCl: Comparison of methods. *J. Sci. Food and Agric.* 45 (4) 291-301.
418. **Naidu, R**, Kirkman JH and Morrison, RJ. (1987). Mineralogy of basaltic volcanic ash soils from Taveuni, Fiji. *Geoderma.* 39: 181-192.
419. **Naidu, R**, Syers, JK, Tillman, RW and Kirkman, JH. (1987). Effect of liming on phosphate extracted by two soil-testing procedures. *Fert. Res.* 14 (2): 143-152.
420. **Naidu, R**. (1986). A glasshouse study of the growth of *Leucaena leucocephala* in an oxisol from Fiji. *Leuc. Res.* 7: 31-33.
421. **Naidu, R**, Dandy, AJ and Morrison, RJ. (1984). Clay mineralogy of a Haplustoll and a haplustox from Viti Levu, Fiji. *S. Pac. J. of Nat. Sci.* 6: 71-85.

Books

1. **Naidu, R.** (Editor-in-Chief), Bolan, N. S., Megharaj, M., Juhasz, J., Gupta, S. K., Clothier, B. E. and Schulin, R. (Associate Editors). (2008). Chemical Bioavailability in Terrestrial Environments, Developments in Soil Science, Vol. 32, Elsevier, B.V., Amsterdam, The Netherlands, 809 pp. ISBN: 978-0-444-52169-9.
2. **Naidu, Ravi**; Smith, Euan; Owens, Gary; Bhattacharya, Prosun; Nadebaum, Peter; Editors. (2006). Managing Arsenic in the Environment: From Soil to Human Health. 656 pp. AN 2006:1223915 CAPLUS
3. Prasad, M.N.V., K.S. Sajwan, **R. Naidu** (2006). Trace elements in the environment: biogeochemistry, biotechnology and bioremediation. CRC Press, 726 pp. ISBN:1566706858, 9781566706858.
4. **Naidu, R** et al (editor) (2004). Bioavailability and its potential role in risk assessment- Science Publishers, Inc. Enfield (NH), USA. 344 pp
5. AL Juhasz, G Magesan and **R Naidu** (2004). Waste Management. Science Publishers, Inc. Enfield (NH), USA. 355 pp
6. Sumner, ME and **Naidu, R.** (eds) (1998). Sodic soils: Distribution, Processes, Management and Environmental Consequences. 208pp. Oxford University Press.
7. **Naidu, R.** Kookana, RS, Oliver, D, Rogers, S and McLaughlin, MJ. (1996). Contaminants and the Soil Environment in the Australasia-Pacific Region. Kluwer Academic Publishers. 717 pp.
8. Kookana, R, Baskaran, B, Oliver, D, Hamon, R, Kerekes, A and **Naidu, R.** (1996). Contaminants and the Soil Environment in the Australasia-Pacific Region. Book of Extended Abstracts. 328pp;
9. **Naidu, R.** Rengasamy, P and Sumner, ME. (eds) (1994). Australian sodic soils: distribution, properties and management. CSIRO Publications, Melbourne 351pp.
10. Haynes, RJ and **Naidu, R.** (eds.) (1989). Agricultural development in the Pacific Islands in the 90's. Proceedings of an International Conference, and Workshop held in Suva, Fiji on 31 March to 5 April 1990. ISBN 0-477-03152-8. pp 370.

Book Chapters

1. Sarkar, B., **Naidu, R.**, (In press) Nutrient and water use efficiency in soil: Influence of mineral amendments. In: A. Rakshit, A. Sen, H.B. Singh (Eds.), Nutrient Use Efficiency: From Basics to Advances, Springer Publication. (Invited contribution, accepted for publication).
2. Sarkar, B., **Naidu, R.**, (In press) Organic modification of palygorskite and their environmental uses. In: P. Pasbakhsh, G.J. Churchman (Eds.), Research Progress in Natural Mineral Nanotubes, CRC Press & Apple Academic Press Inc. (Invited contribution, accepted for publication).
3. Rahman MA, Rahman MM, **Naidu R.** Arsenic in Rice: Sources and Human Health Risk. Book: Wheat and Rice in Disease Prevention and Health, Eds: RR Watson, V Preedy, S Zibadi, Elsevier, 2013, pp 363-374.
4. Megharaj, M., Venkateswarlu, K. and **R. Naidu.** (2013). Bioremediation (chapter 01001) In: Encyclopedia of Toxicology 3rd edition, Elsevier Inc. (in press).

5. Thavamani, P., Megharaj, M., Venkateswarlu, K. and **Naidu, R.** (2013). Mixed contamination of polyaromatic hydrocarbons and metals at manufactured gas plant sites: toxicity and implications to bioremediation. In: Wong, M.H. (Ed) *Environmental Contamination—Health Risks, Bioavailability and Bioremediation*. Taylor and Francis. Pubs., pp. 347-368.
6. Matheyarasu, R., Seshadri, B., Bolan, N.S. and **Naidu, R.** (2012). Nutrient management in effluents derived from agricultural industries: an Australian perspective. *Sustainable Irrigation and Drainage: Management, Technologies and Policies*. WIT Transactions on Ecology and The Environment, 168: 213-223.
7. Thangarajan, R., Kunhikrishnan, A., Seshadri, B., Bolan, N. S. and **Naidu, R.** (2012). Greenhouse gas emission from wastewater irrigated soils. *Sustainable Irrigation and Drainage: Management, Technologies and Policies*, WIT Transactions on Ecology and The Environment 168: 225-236.
8. Thangavadeivel, K., Megharaj, M., Mudhoo, A. and **Naidu, R.** (2012). Degradation of organic pollutants using ultrasound. In: Chen, D., Sharma, S.K., Mudhoo, A. (Eds) *Handbook on Applications of Ultrasound- Sonochemistry for Sustainability*. CRC press, Boca Raton, USA., pp. 447-474.
9. Bolan, N.S., Brennan, R., Budianta, D., Camberato, J.J., **Naidu, R.**, Pan, W.L., Sharpley, A., Sparks, D.L. and Sumner, M.E. (2011). Bioavailability of N, P, K, Ca, Mg, S, Si and Micronutrients. In: *Handbook of Soil Sciences: Resource Management and Environmental Impacts*. (Eds. Huang et al.), Second Edition, CRC press, Florida, USA. ISBN 978-1-04398-0307-3. pp 11-1 to 11-80.
10. Kunhikrishnan, A., Bolan, N.S., and **Naidu, R.** (2009). Adsorption of copper as affected by wastewater resources. In: *Recycling of water. Proceedings of 20th Anniversary of the New Zealand Land Treatment Collective Conference*. <http://www.scionresearch.com/general/working-with-scion/new-zealand-land-treatment-collective>. Taupo, New Zealand.
11. **Naidu, R.**, Semple, K.T., Megharaj, M., Juhasz, A.L., Bolan, N.S., Gupta, S.K., Clothier, B.E. and Schulin, R. (2008). Bioavailability: Definition, Assessment and Implications for risk assessment. In: **R. Naidu** et al. (Eds) *Developments in Soil Science*, Vol 32, Elsevier B.V., pp. 39-51.
12. **Naidu, R.** Bolan, N.S., Megharaj, M., Juhasz, A.L., Gupta, S.K., Clothier, B.E., and Schulin, R. (2008). Chemical bioavailability in terrestrial environment. In: **R. Naidu** et al. (Eds) *Developments in Soil Science*, Vol 32, Elsevier B.V., pp 1-6.
13. **Naidu, R.**, Bolan, N.S., Megharaj, M., Juhasz, A.L., Gupta, S., Clothier, B. and Schulin, R. (2008). Chemical Bioavailability in Terrestrial Environment. In: *Chemical Bioavailability in Terrestrial Environment*. (Eds. Naidu et al). Elsevier, Amsterdam, The Netherlands. ISBN 978-0-444-52. pp 1-8.
14. Bolan, N.S., Ko, B.J., Anderson, C.W.N., Vogeler, I., Mahimairaja, S. and **Naidu, R.** (2008). Manipulating bioavailability to manage remediation of metal contaminated soils. In: *Chemical Bioavailability in Terrestrial Environment*. (Eds. Naidu et al). Elsevier, Amsterdam, The Netherlands. ISBN 978-0-444-52. pp 657-678.
15. Fuentes, B., Mora, M.L., Bolan, N.S., **Naidu, R.** (2008). Assessment of Phosphorus Bioavailability from Organic Wastes in Soil. In: *Chemical Bioavailability in Terrestrial Environment*. (Eds. Naidu et al). Elsevier, Amsterdam, The Netherlands. ISBN 978-0-444-52169-9. pp 363-412.
16. Krishnamurti, G.S.R. and **R. Naidu.** (2008). Chemical speciation and bioavailability of trace metals. In: *Biophysico-Chemical Processes of Heavy Metals and Metalloids*. (A.

- Violante, P.M. Huang and G.M. Gadd, Eds.), John Wiley & Sons, Inc. New Jersey. pp. 419–466.
17. Megharaj, M and **Naidu, R.** (2008). Bioavailability and toxicity of contaminant mixtures to soil biota. In: *Developments in Soil Science*, vol 32 (Ed. **R. Naidu** et al.) Elsevier B.V. pp 233-242.
 18. **Naidu, R.** and Bolan, N.S. (2008). Contaminant Chemistry in Soils: key concepts and bioavailability. *Chemical Bioavailability in Terrestrial Environment*. (Eds. Naidu et al). Elsevier, Amsterdam, The Netherlands. ISBN 978-0-444-52169-9. pp 9-38.
 19. **Naidu, R.**, Bolan, N.S., Megharaj, M., Juhasz, A.L., Gupta, S., Clothier, B. and Schulin, R. (2008). Bioavailability, Definition, Assessment and Implications for Risk Assessment. In: *Chemical Bioavailability in Terrestrial Environment*. (Eds. Naidu et al). Elsevier, Amsterdam, The Netherlands. ISBN 978-0-444-52. pp 1-8.
 20. **Naidu, R.**, Pollard, S.J.T., Bolan, N.S., Owens, G. and Pruszinski, A.W. (2008). Bioavailability: the underlying basis for risk based land management. In: *Chemical Bioavailability in Terrestrial Environment*. (Eds. Naidu et al). Elsevier, Amsterdam, The Netherlands. ISBN 978-0-444-52. pp 53-72.
 21. **Naidu, R.**, Semple, K.T., Megharaj, M., Juhasz, A.L., Bolan, N.S., Gupta, S., Clothier, B., Schulin, R. and Chaney, R. (2008). Bioavailability, Definition, Assessment and Implications for Risk Assessment. In: *Chemical Bioavailability in Terrestrial Environment*. (Eds. Naidu et al). Elsevier, Amsterdam, The Netherlands. ISBN 978-0-444-52. pp 39-52.
 22. Singh, N., Sethunathan, N., Megharaj, M and **Naidu, R.** (2008). Bioavailability of sorbed pesticides to bacteria. An overview. In: *Developments in Soil Science*, vol 32 (Ed. **R. Naidu** et al.) Elsevier B.V. pp 71-80.
 23. Correll, Ray; Huq, S. M. Imamul; Smith, Euan; Owens, Gary; **Naidu, Ravi.** Dietary intake of arsenic from crops. *Managing Arsenic in the Environment* (2006), 255-271. CODEN: 69IOT2 AN 2006:1158528 CAPLUS
 24. **Naidu, Ravi;** Smith, Euan; Owens, Gary; Nadebaum, Peter; Bhattacharya, Prosun. Management of arsenic-contaminated soils. *Managing Arsenic in the Environment* (2006), 419-432. CODEN: 69IOT2 AN 2006:1158539 CAPLUS
 25. Smith, Euan; Owens, Gary; **Naidu, Ravi.** Arsenic in the Australian environment: an overview. *Managing Arsenic in the Environment* (2006), 627-638. CODEN: 69IOT2 AN 2006:1158550 CAPLUS
 26. **Naidu, Ravi;** Smith, Euan; Owens, Gary; Bhattacharya, Prosun; Nadebaum, Peter. (2006). Managing arsenic in the Asia-Pacific region: an overview. *Managing Arsenic in the Environment*, 641-645. CODEN: 69IOT2 AN 2006:1158551 CAPLUS
 27. Kantachote, D., Arrykul, S., Chongsuvivatwong, V., Bunnaul, P and **Naidu, R.** (2006). Extent and severity of arsenic poisoning in Thailand In: *Managing Arsenic in the Environment: From soil to human health*, pp615-625.
 28. Mukherjee., A.B., Bhattacharya, P., Jacks, G., Banerjee, D.M., Ramanathan, AL, Mahanta, C., Chandrashekharam, D., Chatterjee, D., and **Naidu, R.** (2006). Groundwater arsenic contamination in India, extent and severity. In: *Managing Arsenic in the Environment: From soil to human health*, pp553- .
 29. Xie, Z.M., Zhang, Y.M., and **Naidu, R.** (2006). Extent and severity of arsenic poisoning in China. In: *Managing Arsenic in the Environment: From soil to human health* 541-552.

30. Ahmed, K.M., Huq, S.M., and **Naidu R.** (2006). Extent and severity of arsenic poisoning in Bangladesh. In: *Managing Arsenic in the Environment: From soil to human health* 525- .
31. Huq, S.M., Correll, R., and **Naidu R.** (2006). Arsenic accumulation in food sources in Bangladesh Variability with soil type. In: *Managing Arsenic in the Environment: From soil to human health* 283-293
32. Xie, Z, M., and **Naidu, R.** (2006). Factors influencing bioavailability of arsenic to crops. In: *Managing Arsenic in the Environment: From soil to human health* 223-234.
33. **Naidu, R.**, and Bhattacharya P. (2006). Management and remediation of arsenic from contaminated water. In: *Managing Arsenic in the Environment: From soil to human health* 331-354.
34. Akter, K. and **Naidu, R.** (2006). Arsenic speciation in the environment. In: *Managing Arsenic in the Environment: From soil to human health* 59-74.
35. Bolan, N.S., Mahimairaja, S., Megharaj, M., **Naidu, R.** and Adriano, D.C. (2006). Biotransformation of arsenic in soil and aquatic environments in relation to bioavailability and bioremediation. (Eds. **R. Naidu** et al.) CSIRO Publishing, Melbourne, pp.433-454.
36. McLaren, R.G., Megharaj, M. and **Naidu, R.** (2006). Fate of arsenic in the soil environment. In: *Managing Arsenic in the Environment: From soil to human health* (Eds. **R. Naidu** et al.) CSIRO Publishing, Melbourne, pp157-182.
37. **Naidu, R.**, Megharaj, M. and Owens, G. (2004). Recyclable urban and industrial waste – benefits and problems in agricultural use. In: *Managing Soil Quality- Challenges in Modern Agriculture* (Eds. Per Schjønning, S. Emholt and B.T. Christensen), CABI Publishing, CABI International, Wallingford, Oxon, pp. 219-238.
38. Diomides, C, Correll, R and **Naidu, R** (2003). Assessment of Aberrant Levels In: *Health and Environmental Assessment of Site Contamination. Proceedings of the Fifth National Workshop on Site Contamination.* (eds.) Langley, A., Gilbey, M., Kennedy, B. NEPC Service Corporation. pp. 225-234
39. **Naidu, R.**, Oliver, D and McConnell, S (2003). Heavy metal phytotoxicity in soils. In: *Health and Environmental Assessment of Site Contamination. Proceedings of the Fifth National Workshop on Site Contamination.* (eds.) Langley, A., Gilbey, M., Kennedy, B. NEPC Service Corporation. pp. 235-242.
40. Oliver, D and **Naidu, R** (2003). Uptake of copper (Cu), lead (Pb), cadmium (Cd) arsenic (As) and DDT by vegetables grown in urban environments. In: *Health and Environmental Assessment of Site Contamination. Proceedings of the Fifth National Workshop on Site Contamination.* (eds.) Langley, A., Gilbey, M., Kennedy, B. NEPC Service Corporation. pp. 151-162
41. Juhasz, A.L., Smith, E., **Naidu, R.** (2002). Estimation of human bioavailability of arsenic in contaminated soil. In: *Health and Environmental Assessment of Site Contamination. Proceedings of the Fifth National Workshop on Site Contamination.* (eds.) Langley, A., Gilbey, M., Kennedy, B. NEPC Service Corporation. pp. 183-194.
42. **Naidu, R.**, Rogers, S., Gupta, V.V.S.R., Kookana, R.S., Bolan, N.S., Adriano, D. (2003). Bioavailability of metals in the soil-plant environment and its potential role in risk assessment: An overview. In: *Bioavailability and its Potential Role in Risk Assessment*, **Naidu, R.** et al. (eds.). Oxford/IBH Publishers, UK, pp21-57.
43. Raghu, K., Sethunathan, N., Singh, N., Megharaj, M., Kookana, R.S. and **Naidu, R.** (2002). Wetland rice ecosystem: A favourable environment for pesticide biodegradation. In: *R. S. Kookana, R. Sadler, N. Sethunathan and R. Naidu* (Eds.).

- Environmental protection and risk assessment of organic contaminants. Science Publishers, Inc., Enfield (NH), USA, pp. 125-146.
44. Kookana, R., Sadler, R., Connell, D., Sethunathan, N., Megharaj, M., Juhasz, A., Seth, P.K. and **Naidu, R.** (2002). Organic contaminants in soil environment – Environmental fate, impacts and remediation. In: R. S. Kookana, R. Sadler, N. Sethunathan and **R. Naidu** (Eds.). Environmental protection and risk assessment of organic contaminants. Science Publishers, Inc., Enfield (NH), USA, pp. 3-25.
 45. **Naidu, R.**, Megharaj, M., Dillon, P., Kookana, R., Correll, R., Wenzel, W. (2002). Non-Point source Pollution. In: Encyclopedia of Soil Science, R. Lal (ed.). Marcel Dekker, Inc., NY. pp.872-874.
 46. **Naidu, R.**, Megharaj, M., Dillon, P., Kookana, R., Correll, R., Wenzel, W. (2002). Point source Pollution. In: Encyclopedia of Soil Science, R. Lal (ed.). Marcel Dekker, Inc., NY. pp. 1012-1017.
 47. **Naidu, R.**, Krishnamurti, G.S.R., Bolan, N.S., Wenzel, W. and Megharaj, M. (2001). Heavy metal interactions in soils and implications for soil microbial biodiversity. In: Prasad, M.N. (Ed) Metals in the Environment: Analysis by Biodiversity. Marcel Dekker, Inc., NY, pp. 401-432.
 48. Megharaj, M., Ragusa, S.R., **Naidu, R.** (2001) Metal-Microalgae interactions: Implications of bioavailability. In: Bioavailability, toxicity and risk relationships in ecosystems, **Naidu, R.** et al., (eds.). Oxford/IBH Publishers, UK, pp. 109-144.
 49. Kookana, R., Sadler, R., Connell, D., Sethunathan, N., Megharaj, M., Juhasz, A., Seth, P.K., **Naidu, R.** (2002). Organic contaminants in soil environment- Environmental fate, impacts and remediation. In: Organic Contaminants in the Soil Environment, Kookana, R.S., Sadler, R., Sethunathan, N., **Naidu, R.** (eds.), Oxford & IBH publs Co Pvt Ltd., New Delhi.
 50. **Naidu, R.**, Krishnamurti, G.S.R., Bolan, N.S., Wenzel, W., Megharaj, M. (2001). Heavy metal interactions in soils and implications to soil microbial biodiversity. In: Metals in the Environment: Analysis by Biodiversity, Prasad, M.N. (ed). Marcel Dekker Inc., pp. 401–431.
 51. Bhattacharya, P., S.H. Frisbie, E. Smith, **R. Naidu**, G. Jacks, and B. Sarkar. (2001). Arsenic in the Environment: A Global Perspective. In: B. Sarkar (ed.) Handbook of Heavy Metals in the Environment.(Chapter 6) Marcell Dekker Inc., New York. pp. 147-215.
 52. **R. Naidu**, GSR Krishnamurti, N. S. Bolan, W. Wenzel and M. Megharaj (2001) Heavy metal interactions in soils and implications to soil microbial biodiversity. In: MN Prasad. Ed (2001). Metals in the Environment: Analysis by Biodiversity. NY, Marcel Dekker Inc, pp 401–431.
 53. Juhasz, A.L. and **Naidu, R.** (2001) Degradative potential of microorganisms from DDT-contaminated soils, In: Environmental Monitoring and Biodiagnostics of Hazardous Contaminants. Healy, M., Wise, D.L., Moo-Young, M. (eds.), Kluwer Academic Publishers, pp.105-115.
 54. Juhasz, A.L., Megharaj, M., **Naidu, R.** (2000) Bioavailability: The major challenge (constraint) to bioremediation of organically contaminated soils. In: Remediation Engineering of Contaminated Soils, 2nd Edition, Vol. 1: Engineering considerations and remediation strategies, Wise, D., Trantoilo, D.J., Cichon, E.J., Inyang, H.I., Stottmeister, U. (eds.). Marcel Dekker, Inc., N.Y., pp. 217-241.
 55. Kookana, R.S., **Naidu, R.**, Barry, D.A., Tran, Y.T., Bajracharya, K. (1999). Sorption-desorption equilibria and dynamics of cadmium during transport in soil. In: Fate and

- Transport of Heavy Metals in the Vadose Zone, HM Selim and Iskandar (eds.), pp59-90.
56. Curtin, D., **Naidu, R.** Nutrient constraints to plant growth in sodic soils. In: Sodicity: global scene. Sumner, M.E., **Naidu, R.** (eds.). Oxford University Press, pp.107-124.
 57. Sumner, M.E., Rengasamy, P., **Naidu, R.** (1998) Sodic soils: A reappraisal. In: Sodic soils: Distribution, processes, management and environmental consequences. Sumner, M.E., **Naidu, R.** (eds). Oxford University Press, pp.3-14.
 58. Curtin, D, and **Naidu, R.** (1998) Fertility constraints to plant production. In: M. E. Sumner and **R. Naidu** (Eds.) Sodic soils: Distribution, Processes, Management and Environmental Consequences. Oxford University Press pp107-124.
 59. Helmke, PA and **Naidu, R.** (1996) Fate of Contaminants in the Soil Environment: Metal Contaminants. In: **Naidu, R.**, Kookana, RS, Oliver, D and Rogers, S McLaughlin, MJ, (eds) Contaminants and the Soil Environment in the Australasia-Pacific Region. Kluwer Academic Publishers. pp.69-94.
 60. Barzi, F, **Naidu, R** and McLaughlin, MJ. (1996) Contaminants and the Australian Soil Environment. In: **Naidu, R**, Kookana, RS, Oliver, D and Rogers, S, McLaughlin, MJ, (eds) Contaminants and the Soil Environment in the Australasia-Pacific Region. Kluwer Academic Publishers. Pp.451-484.
 61. **Naidu, R** and Rengasamy, P. (1994) Ion interactions and constraints to plant nutrition in Australian sodic soils: an Overview. In: R Naidu, ME Sumner and P Rengasamy (eds). Australian Sodic Soils, CSIRO Publications, Victoria
 62. **Naidu, R**, Merry, RAH, Churchman, GJ, Wright, MJ, Murray, R, Fitzpatrick, RW and Zarcinas, BAZ. (1994) Sodicity in South Australia: a review. In: **R. Naidu**, ME Sumner and P Rengasamy (eds). Australian Sodic Soils, CSIRO Publications, Victoria 300pp
 63. **Naidu, R**, Sumner, ME and Rengasamy, P. (1994) Distribution, properties and management of Australian sodic soils: an introduction. IN. **R. Naidu**, ME Sumner and P Rengasamy (eds). Australian Sodic Soils, CSIRO Publications, Victoria
 64. Kookana, R., **Naidu, R.**, Harter, R. (1994) Vertical Heterogeneity in soil properties and contaminant transport through soil profiles. In: Shallow Groundwater Systems. International Association of Hydrogeologists, Dillon, P., Simmers, I. (eds). AA Balkema/Rotterdam/Brookefield Publishers, pp.15-28

Conference

1. Luchun Duan, **Ravi Naidu**, Yanju Liu, Thavamani Palanisami and Megharaj Mallavarapu, Effect of biochar and pulverized activated carbon on the bioavailability of benzo[a]pyrene in a soil aged over 90 days, the 7th International Workshop on Chemical Bioavailability, 3–6 Nov 2013, Nottingham, United Kingdom (poster)
2. Luchun Duan, **Ravi Naidu**, Thavamani Palanisami, Yanju Liu, Megharaj Mallavarapu, Oral Bioavailability of Benzo[a]pyrene Soils---The Use of a Swine Model, The 5th International Contaminated Site Remediation Conference, 15-18 Sept 2013, Melbourne, Australia (oral presentation)
3. Luchun Duan, Yanju Liu, Thavamani Palanisami, Mallavarapu Megharaj, **Ravi Naidu**, Effect of ageing on benzo[a]pyrene extractability in four contrasting soils, The 5th International Contaminated Site Remediation Conference, 15-18 Sept 2013, Melbourne, Australia (Poster)

4. Yanju Liu, Hui Ming, **Ravi Naidu**, Expansion of surface area of red mud by thermal and acid treatments, The 5th International Contaminated Site Remediation Conference, 15-18 Sept 2013, Melbourne, Australia (Poster)
5. Yanju Liu, Hui Ming, **Ravi Naidu**, Red mud-a reactive medium for phosphorus removal, Communicate 2012, 17-19 Sept 2012, CRC CARE Conference, Adelaide, Australia (Poster)
6. Yanju Liu, Hui Ming, **Ravi Naidu**, Effect of neutralization on characteristics of Bayer red mud, ISWA 2011 (World Congress of International Solid Waste Association), 17-20 Oct 2011, Daegu, Korea (Poster)
7. Yanju Liu, Hui Ming, **Ravi Naidu**, Composition of red mud varies depending on source refineries, Cleanup 2011, The 4th International Contaminated Site remediation Conference, 11-15 Sept 2011, Adelaide Australia (Oral)

- A1. Naidu R, Smith E, Wong M, Megharaj M, Bolan N, Juhasz A, et al. Remediation of site contamination. *Water, Air, & Soil Pollution*. 2013 2013/11/15; 224(12):1-2. English.
- A2. Naidu R, Bekele DN, Birke V. Permeable Reactive Barrier - cost effective and sustainable remediation of groundwater. In: Naidu R, editor. 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487: CRC Press group, Taylor & Francis Group, LLC; 2014.
- A3. GCI. Global Contamination Initiative: A proposal for a new global initiative addressing one of the most serious threats to our planet and our future CRC CARE Pty Ltd ACN 113 908 044, University of South Australia, Mawson Lakes, South Australia 5095, 2013.

- B1. Baskaran S, Kookana RS, Naidu R. Determination of the insecticide imidacloprid in water and soil using high-performance liquid chromatography. *Journal of Chromatography A*. 1997; 787(1):271-5.
- B2. Naidu R, Smith J, McLaren RG, Stevens D, Sumner M, Jackson P. Application of Capillary Electrophoresis to Anion Speciation in Soil Water Extracts II. Arsenic. *Soil Science Society of America Journal*. 2000; 64(1):122-8.
- B3. Krishnamurti GS, Naidu R. Speciation and phytoavailability of cadmium in selected surface soils of South Australia. *Soil Research*. 2000; 38(5):991-1004.
- B4. Krishnamurti GS, Smith L, Naidu R. Method for assessing plant-available cadmium in soils. *Soil Research*. 2000; 38(4):823-36.
- B5. Naidu R, Chen Z. Application of co-electroosmotic capillary electrophoresis for the determination of inorganic anions and carboxylic acids in soil and plant extract with direct UV detection. *Chromatographia*. 2001; 54(7-8):495-500.
- B6. Chen Z, Krishnamurti GS, Naidu R. Separation of phenolic acids in soil and plant tissue extracts by co-electroosmotic capillary electrophoresis with direct UV detection. *Chromatographia*. 2000; 53(3-4):179-84.
- B7. Chen Z, Naidu R, Subramanian A. Separation of chromium (III) and chromium (VI) by capillary electrophoresis using 2, 6-pyridinedicarboxylic acid as a pre-column complexation agent. *Journal of Chromatography A*. 2001; 927(1):219-27.
- B8. Chen Z, Naidu R. On-column complexation of metal ions using 2, 6-pyridinedicarboxylic acid and separation of their anionic complexes by capillary electrophoresis with direct UV detection. *Journal of Chromatography A*. 2002; 966(1):245-51.
- B9. Chen Z, Naidu R. On-column complexation and simultaneous separation of vanadium (IV) and vanadium (V) by capillary electrophoresis with direct UV detection. *Analytical and bioanalytical chemistry*. 2002; 374(3):520-5.
- B10. Lin J-M, Naidu R. Separation of arsenic species by capillary electrophoresis with sample-stacking techniques. *Analytical and Bioanalytical Chemistry*. 2003; 375(5):679-84.
- B11. Naidu R, Naidu S, Jackson P, McLaren RG, Sumner ME. Application of Capillary Electrophoresis to Anion Speciation in Soil Water Extracts. In: Donald LS, editor. *Advances in Agronomy*. Volume 65: Academic Press; 1999. p. 131-50.
- B12. Smith E, Naidu R, Alston AM. Arsenic in the Soil Environment: A Review. In: Donald LS, editor. *Advances in Agronomy*. Volume 64: Academic Press; 1998. p. 149-95.
- B13. Chen Z, Kookana RS, Naidu R. Determination of sulfonylurea herbicides in soil extracts by solid-phase extraction and capillary zone electrophoresis. *Chromatographia*. 2000; 52(3-4):142-6.
- B14. Akter KF, Chen Z, Smith L, Davey D, Naidu R. Speciation of arsenic in ground water samples: A comparative study of CE-UV, HG-AAS and LC-ICP-MS. *Talanta*. 2005; 68(2):406-15.
- B15. Rahman MA, Rahman MM, Reichman SM, Lim RP, Naidu R. Arsenic Speciation in Australian-Grown and Imported Rice on Sale in Australia: Implications for Human Health Risk. *Journal of Agricultural and Food Chemistry*. 2014 2014/06/25; 62(25):6016-24.
- B16. Akter KF, Owens G, Davey DE, Naidu R. *Arsenic speciation and toxicity in biological systems*: Springer; 2005.
- B17. Chen Z, Akter KF, Rahman MM, Naidu R. The separation of arsenic species in soils and plant tissues by anion-exchange chromatography with inductively

coupled mass spectrometry using various mobile phases. *Microchemical Journal*. 2008; 89(1):20-8.

- B18. Chen Z, Naidu R. Separation of sulfur species in water by co-electroosmotic capillary electrophoresis with direct and indirect UV detection. *International Journal of Environmental & Analytical Chemistry*. 2003; 83(9):749-59.
- B19. Chen Z, Megharaj M, Naidu R. Speciation of chromium in waste water using ion chromatography inductively coupled plasma mass spectrometry. *Talanta*. 2007; 72(2):394-400.
- B20. Chen Z, Akter KF, Rahman MM, Naidu R. Speciation of arsenic by ion chromatography inductively coupled plasma mass spectrometry using ammonium eluents. *Journal of Separation Science*. 2006; 29(17):2671-6.
- B21. Fotovat A, Naidu R. Ion exchange resin and MINTEQA2 speciation of Zn and Cu in alkaline sodic and acidic soil extracts. *Australian Journal of Soil Research*. 1997; 35:711-26.

- C1. Barzi F, Naidu R, McLaughlin MJ. Contaminants and the Australian soil environment. In: Naidu R, Kookana RS, Oliver DP, Rogers S, McLaughlin MJ, editors. *Contaminants and the Soil Environment in the Australasia-Pacific Region*: Springer Netherlands; 1996. p. 451-84.
- C2. Naidu R, Kookana RS, Sumner ME, Harter RD, Tiller K. Cadmium sorption and transport in variable charge soils: a review. *Journal of Environmental Quality*. 1997; 26(3):602-17.
- C3. Naidu R, Smith E, Huq SI, Owens G. Sorption and bioavailability of arsenic in selected Bangladesh soils. *Environ Geochem Health*. 2009;31(1):61-8.
- C4. Huq I, Correll R, Naidu R. Arsenic accumulation in food sources in Bangladesh: In: Naidu R, Smith E, Owens G, Bhattacharya P, Nadebaum P, editors. *Managing arsenic in the environment: from soil to human health*. Melbourne: CSIRO Publishing; 2006. pp. 283–93; 2006.
- C5. Huq SI, Naidu R. Arsenic in ground water and contamination of the food chain: Bangladesh scenario. *Natural arsenic in ground water: occurrence, remediation and management*. 2004:95-101.
- C6. Naidu R, Bolan NS, Kookana RS, Tiller K. Ionic strength and pH effects on the sorption of cadmium and the surface charge of soils. *European Journal of Soil Science*. 1994; 45(4):419-29.
- C7. Naidu R, Sumner ME, Harter R. Sorption of heavy metals in strongly weathered soils: an overview. *Environ Geochem Health*. 1998; 20(1):5-9.
- C8. Harter RD, Naidu R. An assessment of environmental and solution parameter impact on trace-metal sorption by soils. *Soil Science Society of America Journal*. 2001; 65(3):597-612.
- C9. Smith E, Smith J, Smith L, Biswas T, Correll R, Naidu R. Arsenic in Australian environment: an overview. *Journal of Environmental Science and Health, Part A*. 2003; 38(1):223-39.
- C10. Smith E, Naidu R, Alston AM. Arsenic in the Soil Environment: A Review. In: Donald LS, editor. *Advances in Agronomy*. Volume 64: Academic Press; 1998. p. 149-95.
- C11. Smith E, Naidu R, Alston A. Chemistry of arsenic in soils: I. Sorption of arsenate and arsenite by four Australian soils. *Journal of Environmental Quality*. 1999; 28(6):1719-26.
- C12. Duan L, Naidu R. Effect of ionic strength and index cation on the sorption of phenanthrene. *Water, Air, & Soil Pollution*. 2013; 224(12):1-17.
- C13. Naidu R, Harter RD. Effect of different organic ligands on cadmium sorption by and extractability from soils. *Soil Science Society of America Journal*. 1998; 62(3):644-50.
- C14. Bolan N, Naidu R, Syers J, Tillman R. The effects of anion sorption on sorption and leaching of cadmium. *Aust J Soil Res*. 1999; 37:445-60.
- C15. Bolan NS, Naidu R, Khan M, Tillman R, Syers JK. The effects of anion sorption on sorption and leaching of cadmium. *Australian Journal of Soil Research*. 1999; 37(3):445-60.
- C16. Naidu R, Rengasamy P. Ion interactions and constraints to plant nutrition in Australian sodic soils. *Soil Research*. 1993; 31(6):801-19.
- C17. Bolan NS, Naidu R, Syers JK, Tillman R. Surface charge and solute interactions in soils. *Advances in Agronomy*. 1999; 67:87-140.
- C18. Naidu R, Bolan NS, Kookana RS, Tiller KG. Ionic-strength and pH effects on the sorption of cadmium and the surface charge of soils. *European Journal of Soil Science*. 1994; 45(4):419-29.

- C19. Duan L, Palanisami T, Liu Y, Dong Z, Mallavarapu M, Kuchel T, et al. Effects of ageing and soil properties on the oral bioavailability of benzo [a]pyrene using a swine model. *Environment International*. 2014; 70:192-202.
- C20. Bekele DN, Naidu R, Chadalavada S. Influence of Spatial and Temporal Variability of Subsurface Soil Moisture and Temperature on Vapour Intrusion. *Atmospheric Environment*. 2014; Accepted, Ms. Ref. No.: ATMENV-D-13-01250R1.