

## CURRICULUM VITAE: RAVENDRA (RAVI) NAIDU



### PERSONAL PARTICULARS

Address: 8 Decora Crescent, Warabrook, NSW 2304  
Citizen Australian naturalised- born Fiji

### Education

1972 - 1975	B.Sc	University of the South Pacific, Fiji
1978 - 1979	M.Sc	Aberdeen, UK - University of the South Pacific, Fiji
1983 - 1985	Ph.D	Massey University, New Zealand
2013	DSc (Hon Causa)	Tamil Nadu Agricultural University
2015	DSc (Soil Chemistry)	Massey University, New Zealand.

### EMPLOYMENT

2020 – present	Laureate Professor and Founding Director, Global Centre for Environmental Research, University of Newcastle.
2015 – present	Global Chair Innovation, and Founding Director, Global Centre for Environmental Research, University of Newcastle.
2005 – present	CEO and Managing Director, CRC for Contamination Assessment and Remediation of the Environment (crcCARE).
2002 – Mar 2015	Foundation Professor of Environmental Remediation and Founding Director, Centre for Environmental Risk Assessment and Remediation, University of South Australia.
1989 – Nov 2002	Research Scientist to Chief Research Scientist (youngest and only CRS within the Division when promoted to CRS), and Group Leader, Remediation Project, Research Program Leader, and Component Co-coordinator, CSIRO Land and Water.
1987 – 1989	Head, School of Pure and Applied Sciences, University of the South Pacific, Suva, Fiji. (The school consisted of the Departments of Biology, Chemistry, Home Economics, Mathematics, Physics and Technology, and had 120 academic staff)

### Relevant positions held outside UON and crcCARE

1993 – present	Chair, Australia/New Zealand Standards Technical Committee on sampling and assessment of contaminated sites.
1994 – 1996	Associate Editor, <i>International Agroecology</i> Journal
1994 – 1997	Member, Advisory Board of the CR C for Sustainable Cotton Production, NSW
1994 – 1998	Vice Chair, Sub-commission on contaminated soils, Internat’l Congress of Soil Science.
1995 – 1996	Nominee, international specialist environmental scientist, Citizen Ambassador Program for environmental assessment - Bosnia (1995), China (1996), Africa (1996).
1996 – 1997	Member, ACT Contaminated Sites Advisory Board
1994 – present	Member, International Committee on Biogeochemistry of Trace Elements
1995 – present	Executive Committee, Environmental Geochemistry of Tropical Soils
1996 – present	Chair, Global Committee on Bioavailability and Risk Assessment
1996 – present	Contaminated Sites Auditor, Victorian EPA
1998 – present	Executive Vice Chair, Global Site Remediation Centre- China and Asia Region

### GRANTS, AWARDS, HONOURS, PRIZE

#### Grants:

Naidu received more than 100 competitive and industry-driven research grants and fellowships, including (i) Australian Research Council’s Discovery and Linkage grants, (ii) CRC, (iii) local council, and (iv) philanthropic fund.

#### Honours and awards:

- 2018 Recognised as one of the top 30 innovators in 2018 by Engineers Australia.
- 2017 Fellow of the Australian Academy of Technological Sciences and Engineering.

*Laureate Fellowship*

- 2017 Fellow of the Royal Australian Institute of Chemistry.
- 2013 winner of the Richard Pratt – Banksia CEO Award at the Banksia Sustainability Awards, recognising contributions towards environmental sustainability.
- Chair (1999 to 2012) Standards Australia’s Committee on Contaminated Site Sampling and Assessment.
- Regularly sought as external examiner of PhD theses from Australian and international institutions.

Naidu’s world standing in contamination science is exemplified by the following awards and achievements:

- 2023 Winner of the Glinka World Soil Prize from the Food and Agriculture Organisation of the United Nations, announced on December 5, 2023.
- 2023 Recipient of European Geosciences prestigious inaugural Kabata-Pendias Medal for outstanding research on toxic metals and soil science
- 2022 Awarded Mahatma Gandhi Leadership award, House of Commons London (30 September 2022) for outstanding soil and environmental science research
- 2021 Elected a Foreign Fellow of the New Zealand Academy of Science (FFNZAS) (only 0.007% per head of population)
- 2021 Elected a Foreign Fellow of the Indian Academy of Agricultural Science (FFIAAS).
- 2020: recognised as Laureate (Distinguished) Professor by the University of Newcastle, Australia.
- 2019 to present Highly Cited Researcher by Clarivate
- Stanford university ranking among top environmental scientist of the world and the google scholars ranks him as 1st in Australia.
- 2017 Fellow of the Royal Society of Chemistry.
- 2016 Fellow-Technical member of the European Academy of Science and Arts.
- 2013 Fellow of the American Association for the Advancement of Science.
- 2013 received Gold Award and an honorary Doctor of Science from Tamil Nadu Agricultural University for “outstanding contributions to agriculture”.
- 2012 International Soil Science Award, presented by the Soil Science Society of America.
- 2006 Fellow of American Society of Agronomy.
- 2004 Fellow of the New Zealand Society of Soil Science.
- 2002 Fellow of Soil Science Society of America (0.03% of members and no more than 10 per annum).
- Chair or leader of major international bodies: Inaugural Chair, Soil Contamination Research Asia-Pacific Network; Chair, International Union of Soil Sciences’ Congress Commission 3.5 for Soil Degradation (2002-2010), Control, Remediation and Reclamation; President, International Society for Trace Element Biogeochemistry (2005-2007); Chair, Standards Australia-New Zealand Technical Committee on Sampling and Assessment of Contaminated Sites) (2002-2012).
- Scientific expert on numerous environmental bodies: Environmental Geochemistry of Tropical Soils; UNEP round table meeting on remediation in Bangladesh; Contaminated Site Auditors Panel.
- Honorary life member of Bangladesh Soil Science Society.

## **PROFESSIONAL SERVICES**

### ***Editorial Responsibilities***

1. Joint Editor-in-Chief: Environmental Technology Innovations (2014-2022)
2. Member Editorial Board: Nature Scientific Reports (2021- present)
3. Associate Editor, Frontiers in Environmental Science (2018-present)
4. Associate Editor, Soil Security (2021-present)
5. Associate Editor, Environmental Geochemistry and Health (2008-present)
6. Founding Editor, "REMEDIATION AUSTRALASIA", a scientific newsletter about contaminant assessment and remediation of the environment.
7. Board member: Journal of Soils and Sediments (2010-present); Science of the Total Environment (2003 to 2006); Environment Technology (2002 to 2010).

### **Referee for international journals**

- *Australian Journal of Soil Research, Clays and Clay Minerals, Environmental Science and Technology, European Journal. Soil Science, Fertiliser Research, Geoderma, Journal of Environmental Quality, Plant and Soil, Soil and Tillage Research, Soil Science Society of America Journal, Bulletin of Environment Contaminant and Toxicology, Clay Minerals.*

### **Referee for research funding organisations**

- Australian Research Council, Foundation for Research Development, South Africa, New Zealand Foundation of Science, United States-Israel Bi-national Agricultural Research and Development Fund.

### **Society membership**

- Member, Soil Science Society of America, NZ Soil Science Society, Fiji Institute of Agricultural Science, Soil Science Society of Australia, and Society for Environmental Geochemistry and Health.

### **Contributions towards setting national standards**

- Chair of the Australian Standard Committee: Development of Australian Standard AS4422 focussing on “sampling potentially contaminated sites” and the analyses of contaminated soils for toxic metals.
- Involvement: (i) Development of the Australian National Environment Protection Measure (NEPM), (ii) standard operating procedure for metal bioavailability, and (iii) National Remediation Framework.

### **Lectures and Invited Addresses:**

- Invitations to present specialist seminars on contaminants (selected examples): Australian Contaminated Land Consultants Association seminars; Enviro 2004 and 2006; Ecoforum 2010 and 2014; EPA Victoria; National Environment Protection Council; NSW EPA; Department of Defence; Australian Institute of Petroleum.
- Invitations to present expert opinion (selected examples): Department of Defence; State EPAs; Land Management Corporation; environmental consultant companies and professional associations; minerals industry; petrochemical industry.

Apart from high-level policy level address, Naidu is often invited as a keynote/plenary speaker and to chair sessions at international conferences, workshops and symposia. Since January 2010, he has delivered ~205 invited talks at international events as invited keynote and plenary lectures in Australia, Austria, Bangladesh, Belgium, Brazil, Canada, China, Fiji, Greece, Hong Kong, India, Italy, Indonesia, Jamaica Japan, Malaysia, New Zealand, Pakistan, Papua New Guinea, Singapore, Korea, Spain, Sweden, Taiwan, Thailand, Vietnam and US. Some examples include:

- United Nation Food and Agriculture Organization (FAO) (2023): The Importance of Soil Health for a Sustainable Agrifood Systems Within the Framework of One Health (2023) UN FAO Global Soil Partnership Plenary (Opening Plenary).
- Global CleanUp Congress 2022, Malaysia: Waste to Wealth: tapping a Hidden Resource. Opening Plenary lecture.
- Indian Council of Agricultural Research Conference (2022): Opening keynote: Pollution a Dirty Secret.
- Iran National Conference (2021) Clean Earth: humanity’s next great challenge - Opening Plenary.
- US PFAS Symposium (2021). PFAS Remediation\_Australian case studies (keynote).
- PFAS Global Symposium (Berlin) Innovative Technologies for the Remediation of PFAS-contaminated Water and Soil (2020) Keynote.
- 14th ICCL-meeting, Lima, Perú (2019) Australia’s national remediation framework (keynote)
- 2019 World Soil Day, Seoul, Korea. Can we clean up the Earth? (Opening Plenary).
- Toronto, Canada International Conference on PFAS (2019) Assessment, remediation and management of PFAS site contamination. Keynote.
- United Nation Food and Agriculture Organization (FAO): Clean Soils: Humanity’s next great challenge (2018) UN FAO Global Soil Partnership Plenary (Opening Plenary).
- Kansas, USA (2015) The Critical Zone for Sustainability (Roscoe Kelly Distinguished Lecture).

## **PUBLICATIONS**

### **Top Ten Publications**

- Naidu, R., Biswas, B., Willett, I. R., Cribb, J., Kumar Singh, B., Paul Nathanail, C., Coulon, F., Semple, K. T., Jones, K. C., Barclay, A. & John Aitken, R.** 2021. Chemical pollution: A growing peril and potential catastrophic risk to humanity. *Environment International*, 156, 106616.
- Naidu, R., Nadebaum, P., Fang, C., Cousins, I., Pennell, K., Conder, J., Newell, C. J., Longpré, D., Warner, S., Crosbie, N. D., Surapaneni, A., Bekele, D., Spiese, R., Bradshaw, T., Slee, D., Liu, Y., Qi, F., Mallavarapu, M., Duan, L., Mcleod, L., Bowman, M., Richmond, B., Srivastava, P., Chadalavada, S., Umeh, A., Biswas, B., Barclay, A., Simon, J. & Nathanail, P.** 2020. Per- and poly-fluoroalkyl substances (PFAS): Current status and research needs. *Environmental Technology and Innovation*, 19.
- Naidu, R., Jit, J., Kennedy, B. & Arias, V.** 2016. Emerging contaminant uncertainties and policy: The chicken or the egg conundrum. *Chemosphere*, 154, 385-390.
- Singh, N., Megharaj, M., Gates, W. P., Churchman, J., Kookana, R. S., **Naidu, R.** & Sethunathan, N. 2004. Sorption-Desorption of Fenamiphos in Surfactant-Modified Claysy. *Bulletin of Environmental Contamination and Toxicology*, 72, 276-282.
- Naidu, R., Smith, J., McLaren, R.G., Stevens, D. P., 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*, 64, 122-128.
- Naidu, R., Merry, R.H., Churchman, G.J., Wright, M.J., Murray, R.S., Fitzpatrick, R.W. & Zarcinas, B.A.** 1993. Sodicy in south australia—a review. *Australian Journal of Soil Research*, 31, 911-929.
- Naidu, R. & Rengasamy, P.** 1993. Ion interactions and constraints to plant nutrition in australian sodic soils. *Australian Journal of Soil Research*, 31, 801-819.
- Naidu, R., Syers, J.K., Tillman, R.W. & Kirkman, J.H.** 1990. Effect of liming and added phosphate on charge characteristics of acid soils. *Journal of Soil Science*, 41, 157-164.
- Naidu, R., Syers, J.K., Tillman, R.W. & Kirkman, J.H.** 1991. Assessment of plant-available phosphate in limed, acid soils using several soil-testing procedures. *Fertilizer Research*, 30, 47-53.
- Naidu, R., Syers, J. K., Tillman, R. W., Lee, R. & Kirkman, J.H.** 1988. Extraction of aluminium from acid, strongly weathered fijian soils using M KCl: A comparison of methods of extraction and determination. *Journal of the Science of Food and Agriculture*, 45, 291-299.

### **Summary of publications (Update on August 2023)**

Books – 16.

Refereed international journal articles – 920.

Referred book chapters – 58.

Refereed conference proceedings- 33.

Conference abstracts- 225.

Patents – 13

Confidential Technical Reports – 20.

#### **Books**

1. Zhu, Y., Guo, H., Bhattacharya, P., Ahmad, A., Bundschuh, J & **Naidu**, R. 2018. (Editors). Arsenic in the environment, environmental arsenic in a changing world, CRC Publishers. 714 pp.
2. Bhattacharya, P., Vahter, M., Jarsjo, J., Kumplene, J., Ahmad, A., Sparrenbom, C., Jacks, G., Eric Donselaar, M, Bundschuh, J & **Naidu**, R. 2016. (Editors). Arsenic in the Environment, Arsenic Research and Global Sustainability. CRC Publishers. 714 pp.
3. Surampalli, R.Y., Zhang, T.C., Tyagi, R.D., **Naidu**, R., Gurjar, B.R., Ojha, C.S.P., Yan, S., Brar, S.K., Ramakrishnan, A. & Kao, C.M. 2015. Carbon capture and storage: Physical, chemical, and biological methods, American Society of Civil Engineers (ASCE). 538 pp.
4. Litter, M.I., Nicolli, H.B., Meichtry, M., Quici, N., Bundschuh, J., Bhattacharya, P & **Naidu**, R. 2014. Arsenic in the Environment, One Century of the Discovery of Arsenicosis in Latin America. CRC Publishers. 992 pp.
5. **Naidu**, R. & BIRKE, V. 2014. Permeable Reactive Barrier: Sustainable Groundwater Remediation. CRC Press, USA. 333 pp.
6. Ng, J.C., Noller, B.N., **Naidu**, R., Bundschuh, J. & Bhattacharya, P. 2012. Arsenic in the Environment, Understanding the Geological and Medical Interface of Arsenic, CRC Publishers. 616 pp.
7. **Naidu**, R. (Editor-In-Chief), Bolan, N.S., Megharaj, M., Juhasz, J., Gupta, S.K., Clothier, B.E. & Schulin, R. (Associate Editors). 2008. Chemical Bioavailability in Terrestrial Environments, Developments in Soil Science, Vol. 32, Elsevier, B.V., Amsterdam, The Netherlands, 809 pp.
8. **Naidu**, R., Smith, E., Owens, G., Bhattacharya, P., Nadebaum, P. 2006. (Editors). Managing Arsenic in the Environment: From Soil to Human Health. CSIRO publishing. 544 pp.
9. Prasad, M.N.V., Sajwan, K.S. & **Naidu**, R. 2005. Trace elements in the environment: Biogeochemistry, biotechnology, and bioremediation, CRC Press. 726 pp.
10. Sajwan, K.S., Prasad, M.N.V., & **Naidu**, R. 2005. Trace elements in the environment: biogeochemistry, biotechnology, and bioremediation. CRC Press. 744 pp.
11. Juhasz, A.L., Magesan, G. & **Naidu**, R. 2004. Waste Management. Science Publishers, Inc. Enfield (NH), USA. 355 pp.
12. Kookana, R., Baskaran, B., Oliver, D., Hamon, R., Kerekes, A. & **Naidu**, R. 1996. Contaminants and the Soil Environment in the Australasia-Pacific Region. Book of Extended Abstracts. 328 pp.
13. **Naidu**, R., Kookana, R.S., Oliver, D., Rogers, S. & Mclaughlin, M.J. 1996. Contaminants and the Soil Environment in the Australasia-Pacific Region. Kluwer Academic Publishers. 717 pp.
14. Harter R.D., **Naidu** R. 1995. Role of metal-organic complexation in metal sorption by soils, Academic Press Inc. 45 pp.
15. **Naidu**, R., Sumner, M.E. & Rengasamy, P. 1995. Australian Sodic Soils: Distribution, Properties and Management, CSIRO Publications. 352 pp.
16. Haynes, R.J. & **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. 370 pp.

### **Scholarly Book Chapters**

17. Paul, S. K. & **Naidu**, R. 2022. Layered aluminosilicate nanoskeletons: The structure and properties of nanoherbicide formulations. In: SPARKS, D. L. (ed.) *Advances in Agronomy*. Academic Press Inc. 301-345.
18. **Naidu**, R., Biswas, B., Chen, Z.-S., Jit, J., Rahman, M. M., Duan, L., Kim, J., Lee, K., Phenrat, T., Khan, N. & Wijayawardena, A. 2021. Status of Soil Pollution in Asia and the Pacific. *Global Assessment of Soil Pollution*. UNEP and FAO.
19. Manna, M. C., Rahman, M. M., **Naidu**, R., Bari, A. S. M. F., Singh, A. B., Thakur, J. K., Ghosh, A., Patra, A. K., Chaudhari, S. K. & Subbarao, A. 2021. Organic farming: A prospect for food, environment and livelihood security in Indian agriculture. In: SPARKS, D. L. (ed.) *Advances in Agronomy*. Academic Press Inc. 101-153.
20. Cheng, Y., Yang, R. M. H., Alejandro, F. M., Li, F., Balavandy, S. K., Wang, L., Breadmore, M., Doyle, R. & **Naidu**, R. 2021. Current applications of colourimetric microfluidic devices (smart phone based) for soil nutrient determination. *Smartphone-Based Detection Devices: Emerging Trends in Analytical Techniques*. Elsevier. 103-128.
21. Wijayawardena, M. a. A., Liu, Y., Yan, K., Duan, L., Umeh, A. C., **Naidu**, R. & Semple, K. T. 2020. Assessment of the Oral Bioavailability of Organic Contaminants in Humans. *Handbook of Environmental Chemistry*. Springer Science and Business Media Deutschland GmbH. 191-218.
22. Umeh, A. C., **Naidu**, R., Owojori, O. J. & Semple, K. T. 2020. Bioavailability and Bioaccessibility of Hydrophobic Organic Contaminants in Soil and Associated Desorption-Based Measurements. *Handbook of Environmental Chemistry*. Springer Science and Business Media Deutschland GmbH. 293-350.
23. Rahman, M. M. & **Naidu**, R. 2019. Potential Exposure to Arsenic and Other Elements from Rice in Bangladesh: Health Risk Index. *Arsenic in Drinking Water and Food*. Springer Singapore. 333-340.
24. Nuruzzaman, M., Liu, Y., Rahman, M. M., Dharmarajan, R., Duan, L., Uddin, A. F. M. J. & **Naidu**, R. 2019. Nanobiopesticides: Composition and preparation methods. *Nano-Biopesticides Today and Future Perspectives*. Elsevier. 69-131.
25. **Naidu**, R. 2018. Foreword. *Bio-Geotechnologies for Mine Site Rehabilitation*. Elsevier. xvii-xviii.
26. Kunhikrishnan, A., Park, J., Bolan, S. S., **Naidu**, R. & Bolan, N. S. 2018. Phosphorus-Induced (Im)mobilization of Heavy Metal(loid)s in Soils. *Phosphate in Soils Interaction with Micronutrients, Radionuclides and Heavy Metals*. CRC Press. 1-37.
27. Chandra Manna, M., Rahman, M. M., **Naidu**, R., Sahu, A., Bhattacharjya, S., Wanjari, R. H., Patra, A. K., Chaudhari, S. K., Majumdar, K. & Khanna, S. S. 2018. Bio-Waste Management in Subtropical Soils of India: Future Challenges and Opportunities in Agriculture. In: SPARKS, D. L. (ed.) *Advances in Agronomy*. Academic Press Inc. 87-148.
28. Lamb, D., Sanderson, P., Wang, L., Kader, M. & **Naidu**, R. 2017. Phytocapping of mine waste at derelict mine sites in New South Wales. *Spill to Soil: Mine Site Rehabilitation and Revegetation*. CRC Press. 215s-240s.
29. Basak, B. B., Sarkar, B., Biswas, D. R., Sarkar, S., Sanderson, P. & **Naidu**, R. 2017. Bio-Intervention of Naturally Occurring Silicate Minerals for Alternative Source of Potassium: Challenges and Opportunities. *Advances in Agronomy*. Academic Press Inc. 115-145.
30. Wijayawardena, M. a. A., Megharaj, M. & **Naidu**, R. 2016. Exposure, Toxicity, Health Impacts, and Bioavailability of Heavy Metal Mixtures. *Advances in Agronomy*. Academic Press Inc. 175-234.
31. Seshadri, B., Bolan, N. S., Thangarajan, R., Jena, U., Das, K. C., Wang, H. & **Naidu**, R. 2016. Biomass energy from revegetation of landfill sites. *Bioremediation and Bioeconomy*. Elsevier Inc. 99-109.
32. Mandal, S., Kunhikrishnan, A., Bolan, N. S., Wijesekara, H. & **Naidu**, R. 2016. Application of Biochar Produced From Biowaste Materials for Environmental Protection and Sustainable Agriculture Production. *Environmental Materials and Waste: Resource Recovery and Pollution Prevention*. Elsevier Inc. 73-89.

33. Kuppusamy, S., Palanisami, T., Megharaj, M., Venkateswarlu, K. & **Naidu**, R. 2016a. Ex-situ remediation technologies for environmental pollutants: A critical perspective. *Reviews of Environmental Contamination and Toxicology*. Springer New York LLC. 117-192.
34. Kuppusamy, S., Palanisami, T., Megharaj, M., Venkateswarlu, K. & **Naidu**, R. 2016b. In-situ remediation approaches for the management of contaminated sites: A comprehensive overview. *Reviews of Environmental Contamination and Toxicology*. Springer New York LLC. 1-115.
35. Kunhikrishnan, A., Thangarajan, R., Bolan, N. S., Xu, Y., Mandal, S., Gleeson, D. B., Seshadri, B., Zaman, M., Barton, L., Tang, C., Luo, J., Dalal, R., Ding, W., Kirkham, M. B. & **Naidu**, R. 2016. Functional Relationships of Soil Acidification, Liming, and Greenhouse Gas Flux. In: SPARKS, D. L. (ed.) *Advances in Agronomy*. Academic Press Inc. 1-71.
36. Karunanithi, R., Szogi, A., Bolan, N. S., **Naidu**, R., Ok, Y. S., Krishnamurthy, S. & Seshadri, B. 2016. Phosphorus Recovery From Wastes. *Environmental Materials and Waste: Resource Recovery and Pollution Prevention*. Elsevier Inc. 687-705.
37. Surampalli, R. Y., Zhang, T. C., Tyagi, R. D., **Naidu**, R., Gurjar, B. R., Ojha, C. S. P., Yan, S., Brar, S. K., Ramakrishnan, A. & Kao, C. M. 2015. Preface. *Carbon Capture and Storage: Physical, Chemical, and Biological Methods*. American Society of Civil Engineers (ASCE). ix.
38. Sarkar, B. & **Naidu**, R. 2015a. Organopolygorskites prepared from quaternary ammonium compounds and their environmental uses. *Natural Mineral Nanotubes Properties and Applications*. Apple Academic Press. 323-340.
39. Sarkar, B. & **Naidu**, R. 2015b. Nutrient and Water Use Efficiency in Soil: The Influence of Geological Mineral Amendments. *Nutrient Use Efficiency: From Basics to Advance*. Springer India. 29-44.
40. Karunanithi, R., Szogi, A. A., Bolan, N., **Naidu**, R., Loganathan, P., Hunt, P. G., Vanotti, M. B., Saint, C. P., Ok, Y. S. & Krishnamoorthy, S. 2015. Phosphorus recovery and reuse from waste streams. *Advances in Agronomy*. Academic Press Inc. 173-250.
41. Bolan, N. S., Adriano, D. C., **Naidu**, R., De La Luz Mora, M. & Santiago, M. 2015. Phosphorus-trace element interactions in soil-plant systems. *Phosphorus: Agriculture and the Environment*. Wiley. 317-352.
42. Rahman, M. A., Rahman, M. M. & **Naidu**, R. 2014. Arsenic in Rice. Sources and Human Health Risk. *Wheat and Rice in Disease Prevention and Health*. Elsevier Inc. 365-375.
43. **Naidu**, R. & Birke, V. 2014. Preface. *Permeable Reactive Barrier: Sustainable Groundwater Remediation*. CRC Press. vii-viii.
44. **Naidu**, R., Bekele, D. N. & Birke, V. 2014. Permeable reactive barriers: Cost-effective and sustainable remediation of groundwater. *Permeable Reactive Barrier: Sustainable Groundwater Remediation*. CRC Press. 1-23.
45. Megharaj, M., Venkateswarlu, K. & **Naidu**, R. 2014. Bioremediation. *Encyclopedia of Toxicology: Third Edition*. Elsevier. 485-489.
46. Chen, Z. X., Cheng, Y., Chen, Z., Megharaj, M. & **Naidu**, R. 2014. Kaolin-supported nanoscale zero-valent iron for removing cationic dye—crystal violet in aqueous solution. *Nanotechnology for Sustainable Development, First Edition*. Springer International Publishing. 189-196.
47. Chadalavada, S., Wegner, M. & **Naidu**, R. 2014. Groundwater modeling involving PRBs: General aspects, case study. *Permeable Reactive Barrier: Sustainable Groundwater Remediation*. CRC Press. 63-85.
48. Bekele, D. N., **Naidu**, R., Birke, V. & Chadalavada, S. 2014. Choosing the best design and construction technologies for permeable reactive barriers. *Permeable Reactive Barrier: Sustainable Groundwater Remediation*. CRC Press. 41-61.
49. Seshadri, B., Bolan, N. S., **Naidu**, R., Wang, H. & Sajwan, K. 2013. Clean Coal Technology Combustion Products. Properties, Agricultural and Environmental Applications, and Risk Management. *Advances in Agronomy*. Academic Press Inc. 309-370.

50. Bolan, N. S., Makino, T., Kunhikrishnan, A., Kim, P. J., Ishikawa, S., Murakami, M., **Naidu**, R. & Kirkham, M. B. 2013. Cadmium Contamination and Its Risk Management in Rice Ecosystems. *Advances in Agronomy*. Academic Press Inc. 183-273.
51. Wong, M. H., Leung, A. O. W., Wu, S., Leung, C. K. M. & **Naidu**, R. 2012. Mitigating Environmental and Health Risks Associated with Uncontrolled Recycling of Electronic Waste: Are International and National Regulations Effective? *Environmental Contamination: Health Risks and Ecological Restoration*. CRC Press. 193-208.
52. Thavamani, P., Megharaj, M., Venkateswarlu, K. & **Naidu**, R. 2012. Mixed Contamination of Polyaromatic Hydrocarbons and Metals at Manufactured Gas Plant Sites: Toxicity and Implications to Bioremediation. *Environmental Contamination: Health Risks and Ecological Restoration*. CRC Press. 347-367.
53. Thangarajan, R., Kunhikrishnan, A., Seshadri, B., Bolan, N. S. & **Naidu**, R. 2012. Greenhouse gas emission from wastewater irrigated soils. In: BJORN LUND, H., C.A. BREBBIA & WHEELER, S. (eds.) *Sustainable Irrigation and Drainage: Management, Technologies And Policies*. WIT Press. 225-236.
54. Kunhikrishnan, A., Bolan, N. S., Müller, 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*. 215-297.
55. Kiddee, P., **Naidu**, R. & Wong, M. H. 2012. Decision-Making Support Tools for Managing Electronic Waste. *Environmental Contamination: Health Risks and Ecological Restoration*. CRC Press. 209-228.
56. Thangavadivel, K., Megharaj, M., Mudhoo, A. & **Naidu**, R. 2011. Degradation of organic pollutants using ultrasound. *Handbook on Applications of Ultrasound: Sonochemistry for Sustainability*. CRC Press. 447-474.
57. Bolan, N. S., Park, J. H., Robinson, B., **Naidu**, R. & Huh, K. Y. 2011. Phytostabilization. A green approach to contaminant containment. *Advances in Agronomy*. 145-204.
58. Kopittke, P. M., Lombi, E., Menzies, N. W. & **Naidu**, R. 2010. Principles of plant-based remediation of contaminated soils. *Industrial Crops and Uses*. CABI Publishing. 446-469.
59. Haynes, R. J., Murtaza, G. & **Naidu**, R. 2009. Chapter 4 Inorganic and Organic Constituents and Contaminants of Biosolids. Implications for Land Application. In: SPARKS, D. L. (ed.) *Advances in Agronomy*. 165-267.
60. Wilson, S. C. & **Naidu**, R. 2008. Chapter 10 Organic contaminant speciation and bioavailability in the terrestrial environment. *Developments in Soil Science*. 187-229.
61. Singh, N., Sethunathan, N., Megharaj, M. & **Naidu**, R. 2008. Chapter 5 Bioavailability of sorbed pesticides to bacteria: An overview. *Developments in Soil Science*. 73-82.
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