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# Environmental Materials and Waste: Resource Recovery and Pollution Prevention

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## Environmental Materials and Waste: Resource Recovery and Pollution Prevention From imusti

Environmental Materials and Waste: Resource Recovery and Pollution Prevention contains the latest information on environmental sustainability as a wide variety of natural resources are increasingly being exploited to meet the demands of a worldwide growing population and economy.

These raw materials cannot, or can only partially, be substituted by renewable resources within the next few decades. As such, the efficient recovery and processing of mineral and energy resources, as well as recycling such resources, is now of significant importance.

The book takes a multidisciplinary approach to fully realize the number of by-products which can be remanufactured, providing the foundation needed across disciplines to tackle this issue. As awareness and opportunities to recover valuable resources from process and bleed streams is gaining interest, sustainable recovery of environmental materials, including wastewater, offers tremendous opportunity to combine profitable and sustainable production.

- Presents a state-of-the-art guide to environmental sustainability
- Provides an overview of the field highlighting recent and emerging issues in environmental resource recovery that cover a wide array of by-products for remanufacture potential
- Details a multidisciplinary approach to fully realize the number of by-products which can be remanufactured, providing the foundation needed across disciplines to tackle these global issues



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## **Editorial Review**

### **About the Author**

M.N.V. Prasad is a Professor in the Department of Plant Sciences at the University of Hyderabad. He has served the Ministry of Environment, Forests and Climate Change, Government of India in various advisory committees on biodiversity conservation, ecosystem services, pollution control and abatement, environmental information systems and bioremediation of contaminated sites. He is an active visiting scientist in several international universities. He is the editor, co-editor, or author of 15 books and 95 journal articles (with over 6277 journal citations and h-index 41 as per google scholar). He has made outstanding contributions to the fields of Bioremediation, Bioresources, Biomass energy sources, bioeconomy and to the broad field of environmental biotechnology (including value chain and value addition products from plants used in phytoremediation) and bioremediation are his main areas of expertise.

Dr. Kaimin SHIH is an Associate Professor in the Department of Civil Engineering and leads the Environmental Materials Research Group at the University of Hong Kong. He obtained his Ph.D. from Stanford University and is interested in engineering and employing material properties for innovative waste beneficial uses and environmental treatment processes. Dr. Shih's work particularly focuses on analyzing the pollutant behavior in solid matrices and at water-mineral interfaces, and has contributed to the research areas of hazardous metals, material resource recovery, persistent organic pollutants, water membrane materials, nuclear waste, and soil remediation. Dr. Shih is currently an Associate Editor for Waste Management, together with the other several environmental/materials journals. He is a Scientific Advisory Panel member of International Waste Working Group, the president for Overseas Chinese Environmental Engineers and Scientists Association, and the vice-president for Hong Kong Waste Management Association. Dr. Shih has published more than 90 SCI journal papers, edited 2 books, and authored more than 10 book chapters. Further details about Dr. Shih's research activities can be found at <http://web.hku.hk/~kshih/>.

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