Biochar not only for agriculture and industry

V4 Biochar Platform

Dr. Ajit K Sarmah is currently a Full Professor of Civil and Environmental Engineering at the University of Auckland (UoA), New Zealand. He is also an Adjunct Professor at the Institute of Agriculture, University of Western Australia, Perth. He received his Bachelor Degree in Agricultural Engineering from the Sam Higginbottom University of Agriculture, Technology and Sciences, INDIA. He holds MEng (Soil and Water) from the Asian Institute of Technology, Bangkok, Thailand and MS in Soil Physics from the University of Queensland. He obtained his PhD in 'Soil and Water' from the University of Adelaide, South Australia. Prior to coming to the UoA in 2011, he worked as Senior Research Scientist at Manaaki Whenua Landcare Research NZ Ltd, Hamilton, New Zealand; Visiting Scientist in Civil & Environmental Engineering/Agronomy Department, Purdue University, USA; as Research Fellow at the University of Western Australia, and as Research Associate at the Asian Institute of Technology, Bangkok, Thailand.

Prof. Sarmah has gained significant national and international recognition for his applied research in BIOCHAR. His pioneering work on biochar's use in non-soil areas such as contaminant remediation, wood plastic composites, construction & building sectors including CO_2 sequestration in concrete with biochar as filler gained significant international recognition. His other areas of research include environmental fate modelling of emerging contaminants such as steroid hormones (both single-free and conjugated forms), veterinary antibiotics and pharmaceutical compounds.

Prof. Sarmah is 2021 and 2022 Clarivate highly Cited Researcher and to date he has published **>170 papers** in ISI-Web of Science listed Journals, **10** book chapters, **1** Book and presented **25** plenary and keynote addresses in international conferences/symposiums. Dr. Sarmah's papers have been cited more than **12,000 (Scopus) and 16,000 (Google)** times with Scopus *h*-index **= 54, and** Google *h*-index **= 62**. Prof. Sarmah is an Editorial Advisory Board member of Elsevier's "Trends in Analytical Chemistry" (IF 12.296), Critical Reviews in Environmental Science & Technology (IF 12.561); Associate Editor for Elsevier's "Process Safety & Environmental Protection" (IF 7.962); Springer's "Environmental Management" (IF = 3.8), and Board Member of Springer's "BIOCHAR" Journal. Earlier he served as Associate Editor for Elsevier's Science of the Total Environment (IF: 7.961).

BLACK IS THE NEW **GREEN**: **BLUE** SHADES OF BIOCHAR TO MITIGATE CARBON FOOTPRINT

An overview presenting a multidirectional application of biochar such as in remediation, construction and geotechnical sectors

July 19 from 10:00 AM in D424 (MCEV II)