

Contents

List of Authors — VII

Ashwin Raj Suresh, Moni Philip Jacob Kizhakedathil, Chithra Ashok
Removal of the antibiotics from wastewater by biochar — 1

Ashwini A. Wao, Charu Vyas
Biochar for the remediation of contaminated soil — 33

Shikha Kumari, Poonam Kataria, Geeta Dhania
Wastewater treatment using biochar technology — 55

K. Harinisri, Dr. B. Thamaraiselvi, Reshmi Gopalakrishnan, M. Manovina
Application of biochar in wastewater treatment: a review — 67

Helen La, J. Patrick A. Hettiaratchi
Role of biochar in the removal of organic and inorganic contaminants from waste gas streams — 89

Palas Samanta, Sukhendu Dey, Jinho Jung, Apurba Ratan Ghosh
Mechanism of metal sorption by biochar — 117

Piyush Gupta, Namrata Gupta, Subhakanta Dash
Biochar for sustainable environmental management — 147

Poulomi Ghosh, Saprativ P. Das
Unraveling a dynamic ameliorant of heavy metal-polluted soil: biochar — 163

Srinithya Ravinuthala, R. Nithya, Saprativ P. Das
Application of biochar for wastewater treatment — 185

Mohit Aggarwal, Neelancherry Remya
Removal of the pharmaceutical compounds from wastewater by biochar — 217

Sweetey Kaur, Ajay Kumar, Gurmeen Rakhra, Richa Arora
Application of biochar for wastewater treatment — 233

Tejveer Singh, Marzuqa Quraishi, Mayur Aindree, Thakre,
Piyush Kumar Gupta, Aberam Natarajan, Mohit Sahni, Meenal Kanupriya,
Gupta, Ankit Kumar, Soumya Pandit
**An overview on the application of biomass-derived biochar in the treatment
of wastewater — 245**

G. Subbulakshmi, R. Thiruneelakandan, G. Padmapriya
**Biochar remediation techniques: efficient and eco-friendly tool for
sustainable environment — 269**

Dipita Ghosh, Subodh Kumar Maiti
Mechanism of removal of contaminants by modified biochar — 277

Swapnila Roy
Application of biochar in wastewater treatment — 297

Dharm Pal, Vandana Gupta
**Biochar as an adsorbent for removal of pharmaceutical compounds from
wastewater — 309**

Vijaya Geetha B., Shreenidhi K.S., Vihaa Sriee M.G., Rashminiza A.
Removal of the pharmaceutical compounds from wastewater by biochar — 329

Reena Kumari, Poonam Dhankhar, Vikram Dalal
Applications of biochar to remediate heavy metal-contaminated soil — 353

Wan Ting Tee, Billie Yan Zhang Hiew, Suchithra Thangalazhy-Gopakumar,
Suyin Gan, Lai Yee Lee
**Biochar as a remediation solution for pharmaceutical-contaminated
wastewater — 373**

A. Saravanan, S. Jeevanantham, S. Karishma
**Biochar as sustainable strategy for remediation and regeneration of heavy
metal-contaminated soil — 417**

Vijyendra Kumar, Muskaan Kedia, A B Soni, Dharm Pal, Bidyut Mazumdar,
Gamini Sahu
**Role of biochar in the removal of organic and inorganic contaminants from
wastewater — 431**

Index — 449