

# Contents

<i>Editorial</i>	i
☐ <i>Snapshots</i>	ii
Water Scarcity and Challenges for Access to Safe Water: A Case of Bangladesh's Coastal Area Vulnerable to Climate Change <i>Mohammad Radwanur Rahman Talukder, Shannon Rutherford, Khairul Islam and Cordia Chu</i>	1
Clustering of Groundwater Wells and Spatial Variation of Groundwater Recharge in Sina Basin, India <i>Thendiyath Roshni, Jesu V. Nayahi, Madan K. Jha, Mandal Nehar, Choudhary Sourav and Pawan S. Wable</i>	11
Water Quality Assessment of a Water Body using Principal Component Analysis – Sanjay Lake, New Delhi, India <i>S.K. Singh, Harshit Sachdeva, Harshit Joon and Mridul Narang</i>	23
Using Microwave Energy for the Removal of Hardness from Groundwater: Continuous Flow Lab-Scale System <i>Fahid K. J. Rabah, Mohammad T. Ramaha, Mohamad Darwish, Mohamed Zuhaili Mohamed Najib and Shaymaa Mustafa</i>	31
Hydrogeochemistry and Overall Appraisal of Groundwater Status of Taldangra Block, Bankura District, West Bengal, India <i>Moumita Palmajumder, Susanta Chaudhuri, Vikas K. Das and Sisir K. Nag</i>	37
Column Study for Adsorption of Methylene Blue Dye using <i>Azadirachta indica</i> Adsorbent <i>Vibha Goswami, Renu Upadhyaya and Sumanta Kumar Meher</i>	47
Potentials for Ecotourism Development at the Tikub Lake: The Obscure Small Lake of Tiaong, Quezon, Philippines <i>Nico Jayson C. Anastacio and Bing Baltazar C. Brillo</i>	53
Assessment of Pollution Load in Terms of Water Quality Index and Modelling of Taladanda Canal and Mahanadi River in Paradip Area, Odisha, India <i>Rabiranjana Prusty and Trinath Biswal</i>	59
Assessing the Pollution Level in the Kuban River Basin by Multivariate Cluster Analysis <i>Vera Snezhko, Dmitrii Benin, Artem Lukyanets and Larisa Kondratenko</i>	73
A GIS-Based Approach in Drainage and Morphometric Analysis of Suvarnavathi River Basin and Sub-watersheds, Karnataka, India <i>R. Nirmala, Ravindra Pratap Singh, Neelam Verma and Poornima Bongale</i>	81
The Mathematical Model of Forestry Machines Impact on Cryolitozone Forest Soils <i>Sergej Rudov, Ol'ga Kunickaya, Albert Burgonutdinov, Igor Kruchinin, Alexey Prosuzhikh, Nikolay Dolmatov, Natalia Dmitrieva and Igor Grigorev</i>	89

## Contents

Sustainability Study of In-situ Hydroponic Vetiver System for Urban Wastewater Management in Developing Countries: A Theoretical Review	<i>Kaushik Ghosh and Arup Sarkar</i>	97
Methodology of Economic Assessment of Forest Resources, Concerning Forest Conditions and Their Impact on Wood Quality	<i>Mei Lu, Irina Volkova and Irina Petunina</i>	105
Microbial Diversity and their Biofilm Formation Potential in Pipes of Water Distribution System	<i>Rajانبir Kaur and Rajinder Kaur</i>	113
<i>Environment News Futures</i>		119