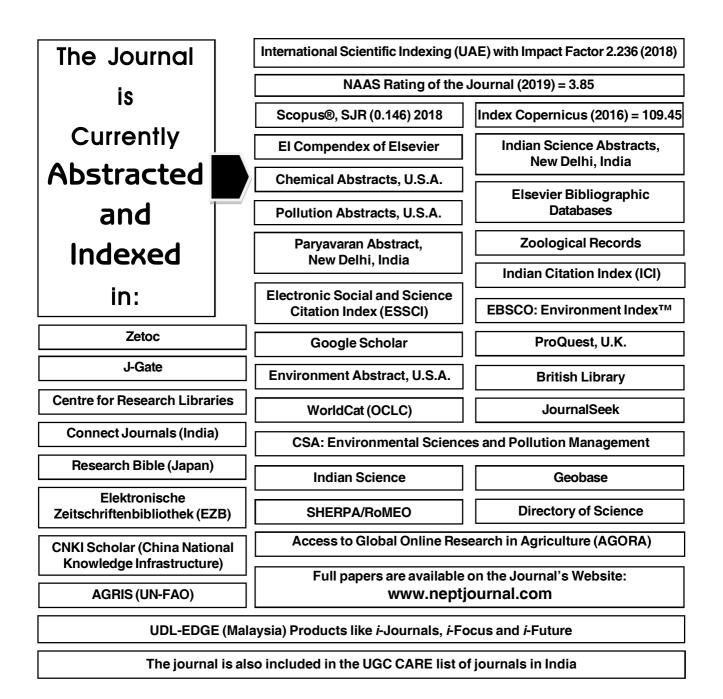
Nature Environment and Pollution Technology Vol. 18, No. (3), September, 2019

CONTENTS

1	Zeba F. Alam, Charilen Kei V. Concepcion, Johnray D. Abdulrahman and Miguel Alvaro S. Sanchez,	
	Biomonitoring of Water Bodies in Metro Manila, Philippines Using Heavy Metal Analysis and Erythrocyte	
	Micronucleus Assay in Nile Tilapia (Oreochromis niloticus)	685-696
2.	Bingchun Liu, Hui Wang, Arihant Binaykia, Chuanchuan Fu and Bingpeng Xiang, Multi-Level Air	
	Quality Classification in China Using Information Gain and Support Vector Machine Hybrid Model	697-708
3.	Ma. Theresa M. Espino, Rocky Marius Q. de Ramos and Luzvisminda M. Bellotindos, Life Cycle	
	Assessment of the Oil Palm Production in the Philippines: A Cradle to Gate Approach	709-718
4.	Muhammad Ayaz and Nasir-Uddin Khan, Forecasting of Heavy Metal Contamination in Coastal Sea	
	Surface Waters of the Karachi Harbour Area by Neural Network Approach	719-733
5.	D. Ravikumar and Govindaraju, Land Evaluation by Integrating Remote Sensing and GIS for Rainfed	
	Agriculture in Koranahalli Subwatershed	735-746
6.	Jixia Zhou, Influence of Tourism Industry Development on Environmental Pollution and Eco-	
	Compensation Measures in Chongqing City, China	747-753
7.	Jiamin Huang, Yangyang Wang, Linshan Fang, JiaojunJin, Suhui Ye, Wenjing Dun and Yuling Zhu,	
	Purification, Molecular Cloning and Expression of Three Key Saponin Hydrolases from Trichoderma	
	reesei, Trichoderma viride and Aspergillus fumigatus	755-764
8.	Alden A. Cabajar, Kramer Joseph A. Lim, Mahaleel Karl V. Migallos, Camila Flor Y. Lobarbio and	
	Evelyn B. Taboada, Microencapsulation of Phenolic Compounds from Waste Mango Seed Kernel Extract	
	by Spray Drying Technology	765-775
9.	Jie Luo, Donglin Zhao, Linxia Wang, Abdullah M. Asiri and Khalid A. Alamry, Simultaneous Removal	
	of Cu(II) and 1-Naphthol in Wastewater by Magnetic Nanoparticle-Graphene Oxide Composites	777-787
10.	Tabassum-Abbasi, Tasneem Abbasi and S. A. Abbasi, Microbial Fuel Cells as Source of Clean Energy -	
	Potential and Pitfalls	789-797
11.	Cheng Zhang and Zhaoyu Yu, Energy Efficiency and Energy Conservation in China's Transportation Industry:	
	A Three-stage Data Envelopment Analysis Approach	799-805
12.	Chuang Ma, Bin Hu, Fu-Yong Liu, Chang-Chang Jia, Ming-Bao Wei and Hong-Zhong Zhang, Effects	
	of a Novel Soil Remediation Agent on Cadmium Contaminated Soil	807-814
13.	Omolayo Ajoke Omorinoye, Zaini Bin Assim, Ismail Bin Jusoh, Naseer Inuwa Durumin Iya and	
	Isaac John Umaru, Review of the Sedimentological and Geochemical Approaches for Environmental	
	Assessment of River Sadong, Samarahan-Asajaya District Sarawak, Malaysia	815-823
14.	Chengcheng Xia, Jie Mei, Wen Liu, Jing Zhou and Guodong Liu, Variations of Environmental Isotopes in	
	Precipitation and Surface Water in Plain Area Influenced by Summer Monsoon: A Case Study in Jinjiang River	
	Basin, Chengdu, China	825-833
15.	Yanli Zhu, Youxian Zhang, Zhongyang Shi and Bo Li, Regeneration of Wind Power Waste Lubricating	
	Oil by a Combination Use of Chitosan, Sodium Carbonate and Silica Gel	835-843
16.	C. Ramprasad, Karthik Sona, Mohammed Afridhi, Ram Kumar and Naveenatha Gopalakrishnan,	
	Comparative Study on the Treatment of Landfill Leachate by Coagulation and Electrocoagulation Processes	845-856
17.	Ming Wei, Development Performance and Influencing Factors of Environmental Protection Industry in China	857-862
	Suha Sahib Abd and Ahmed Mohammed Abbas, Preparation, Characterization and Adsorption Capacity of	
	Bauxite-Carbon Nanotube Composite	863-869
19.	Jiamin Huang, Yizi Ye, Zheng Fu, Wen Jing Dun, Yangyang Wang, Linshan Fang, Suhui Ye,	
	Xiaoying Ye, Jiaojun Jin and Qingyuan Hu, Synergetic Effects of Zero-valent Iron and Morganella morganii on	
	the Removal of Cr(VI) from Wastewater	871-877
20.	Manoj Thakur and R. K. Verma, Biomass and Soil Organic Carbon Stocks Under Cedrus deodara Forests in	
	Mandi District of Himachal Pradesh	879-887
21.	Sandeep Sirohi, Chitra Yadav and Debjyoti Banerjee, Biofuel from Bryophyta as an Alternative Fuel for Future	889-895
22.	Kun Xiao and Jingdong Zhang, Games Strategy Study of Power Generation and Carbon Emission Rights Trading	897-902
	Baowei Zhao, Renzhi Xu, Fengfeng Ma, Yewei Li and Lu Wang, Effects of Flax Straw Biochar on Soil	
	Properties, Fractions and Maize Availability of Lead and Cadmium in Light Sierozem	903-910
24.	Zhou Zi-zhen, Huang Ting-lin, Gong Wei-jin, Li Yang, Liu Yue, Zhao Fu-wang, Bai Yang, Dou Yan-yan,	
	Lv Jing-jing and Liu Hai-fang, In-Situ Water Quality Improvement by Hypolimnion Oxygenation and Artificially	
	Induced Mixing in a Drinking Water Reservoir	911-918

25.	Zhaoya Chen, Lijun Ma, Fengyu Guo, Xiangling Ma and Yu Chu, Study on the Influence of Land Use	
	Patterns on the Comprehensive Harnessing Effects of Soil and Water Erosion	919-930
26.	Jagbir Kaur, A. K. Dhami and S. A. Khan, Effect of Population Density and Surroundings on the Environmental	
	RF Radiation	931-934
27.	Weipeng Chao, Changjiang Zhang and Pengcheng Wang, Urban and Rural Residents' Willingness to Pay for	
	Desertification Prevention and Control and its Influencing Factors	935-940
28.	Surajit Mondal, Jitendra K. Pandey and Suresh Kumar, Solar Thermal Pyrolysis of Karanja Seeds for a	
	Sustainable Approach for Liquid Biofuel Utilization	941-948
	Rajeshwari Prabha Lahare and Anil Kumar, HPTLC Based Screening of β-Sitosterol from <i>Andrographis</i>	211 210
	paniculata	949-954
	Yanyu Lin, Shujuan Yi, Zhongxue Zhang, Mengxue Wang and Tangzhe Nie, Study on the Effect of Water,	747-754
	Fertilizer and Biochar Interaction on N ₂ O Emission Reduction in Paddy Fields of Northeast China	955-961
31.	Sheng Fang, Ningcan Yang, Muqing Qiu and Chengcai Huang, Degradation of Dye C.I. Reactive Red 15 in	955-901
		0(2.0(0
22	Aqueous Solution by Kaolinite Supported Zero Valent Iron	963-968
32.	Caneon Kurien and Ajay Kumar Srivastava, Solid Reductant Based Selective Catalytic Reduction System for	0.00.000
	Exhaust Emission Control of Compression Ignition Engines	969-973
33.	Bibhu Prasad Panda, Biswajit Panda, Siba Prasad Parida, Biswajita Mahapatra, Aditya Kishore Dash	
	and Abanti Pradhan, Heavy Metal Accumulation in Some Fishes Preferred for Consumption by Egrets in	
	Odisha, India	975-979
34.	Wei Xian Zhong, Influencing Factors of the Energy Consumption Behaviour of Civil Buildings in Hubei Province,	
	China	981-988
35.	Moh. Awaludin Adam, Maftuch, Yuni Kilawati and Yenny Risjani, Detection of Metallothionein Protein	
	Biomarkers (MTs) and Pinocytosis Activity in Gambusia Fish (Gambusia affinis) Exposed to Cadmium	989-994
36.	Zineb Yahia, Mounir Ziati, Nabila Aissiou and Moussa Bounoughaz, Effect of the Olive Mill Wastewater	
	on Corrosion Behaviour of Carbon Steel	995-1000
37.	M. Nagabhushan Reddy, P. Kavitha, T. Baleeswaramma and K. Nirosha, Influence of Rainfall as an	
	Environmental Factor on the Distribution of Faunal Biodiversity in Nallamala Forest (Kurnool District),	
	Andhra Pradesh	1001-1004
38	Liu Hua and Zhu Min, Carbon Emission Efficiency of Construction Industry in Hunan Province and Measures of	1001 1001
50.	Carbon Emission Reduction	1005-1010
30	Miao Song, Pollution Evaluation of a Phosphorus-Rich Area of Zhongxiang City	1011-1021
	E. A. Alhassan, J. O. Olaoye, T. A. Adekanye and C. E. Okonkwo, Estimation of Wood Residues Generation	1011-1021
40.		1022 1027
4.1	from Sawmilling Activities and Energy Potential in Kwara State, Nigeria	1023-1027
41.	Zhang Lei, Jia Yang, Zhang Lei, Zeng Tianyou, Wen Xin and Kong Tingting, Preparation of New Surfactant	1020 1022
	and Study on its Application in Ultra-low Emission of Flue Gas	1029-1033
42.	Jun Jie Peng, Factors Affecting Carbon Emissions in the Construction Industry based on STIRPAT Model: Taking	
	Henan Province of China as an Example	1035-1040
43.	M. Prasad, Y. Sudharshan Reddy, E. Balaji, V. Sunitha and M. Ramakrishna Reddy, Application of	
	Geospatial Technology in Evaluating the Impact of Mining Associated Urbanization on Agricultural Lands	1041-1044
44.	Chitsanuphong Pratum, Noppol Arunrat, Sukanya Sereenonchai, Huang Jung-Chen and Tian Xu,	
	Water Quality Situation of the Tha Chin River and the Riverbank Community's Understanding	1045-1051
45.	Pratistha Sharma, Attachai Ueranantasun†, Phattrawan Tongkumchum and Mayuening Eso,	
	Modelling of Chlorophyll-a Concentration Patterns from Satellite Data Using Cubic Spline Function in Pattani Bay,	
	Thailand	1053-1062
46.	Gebrehiwet Reta, Xiaohua Dong, Zhonghua Li, Huijuan Bo, Dan Yu, Hao Wan and Bob Su,	
	Application of Single Factor and Multi-Factor Pollution Indices Assessment for Human-Impacted River Basins:	
	Water Quality Classification and Pollution Indicators	1063-1072
47.	B. Muthulakshmi, S. Johnson Jeyakumar and I. Kartharinal Punithavathy, Characteristic Behaviour of the	
	Air Pollutant NO ₂ Over an Urban Coastal Area Along the Bay of Bengal	1073-1076
48	Weiguo Sun, Xudong Zhao and Hong Chen, Detection of Sewage Discharge by Density Peak Search and	-0,0 10,0
10.	Differential Expression Analysis	1077-1082
		10,7 1002



www.neptjournal.com

Nature Environment and Pollution Technology

EDITORS

Dr. P. K. Goel

Former Head, Deptt. of Pollution Studies Yashwantrao Chavan College of Science Vidyanagar, Karad-415 124 Maharashtra, India

Dr. K. P. Sharma

Former Professor, Ecology Lab, Deptt. of Botany University of Rajasthan Jaipur-302 004, India Rajasthan, India

Manager Operations: Mrs. Apurva Goel Garg, C-102, Building No. 12, Swarna CGHS, Beverly Park, Kanakia, Mira Road (E)-401107, Distt. Thane, Maharashtra, India (E-mail: operations@neptjournal.com)

Business Manager: Mrs. Tara P. Goel, Technoscience Publications, A-504, Bliss Avenue, Balewadi, Pune-411 045, Maharashtra, India (E-mail: contact@neptjournal.com)

All correspondence regarding publication of papers in the journal must be made only by e-mail (contact@neptjournal.com) to the Editor

EDITORIAL ADVISORY BOARD

- 1. Dr. Prof. Malay Chaudhury, Department of Civil Engineer ing, Universiti Teknologi PETRONAS, Malaysia
- 2. Dr. Saikat Kumar Basu, University of Lethbridge, Lethbridge AB, Canada
- 3. Dr. Sudip Datta Banik, Department of Human Ecology Cinvestav-IPN Merida, Yucatan, Mexico
- 4. Dr. Elsayed Elsayed Hafez, Deptt. of of Molecular Plant Pathology, Arid Land Institute, Egypt
- 5. Dr. Dilip Nandwani, College of Agriculture, Human & Natural Sciences, Tennessee State Univ., Nashville, TN, USA
- 6. Dr. Ibrahim Umaru, Department of Economics, Nasarawa State University, Keffi, Nigeria
- 7. Dr. Tri Nguyen-Quang, Department of Engineering Agricultural Campus, Dalhousie University, Canada
- 8. Dr. Hoang Anh Tuan, Deptt. of Science and Technology Ho Chi Minh City University of Transport, Vietnam
- 9. Mr. Shun-Chung Lee, Deptt. of Resources Engineering, National Cheng Kung University, Tainan City, Taiwan
- 10. Samir Kumar Khanal, Deptt. of Molecular Biosciences & Bioengineering, University of Hawaii, Honolulu, Hawaii
- 11. Dr. Sang-Bing Tsai, Zhongshan Institute, University of Electronic Science and Technology, China
- 12. Dr. Zawawi Bin Daud, Faculty of Civil and Environmental Engg., Universiti Tun Hussein Onn Malaysia, Johor, Malaysia
- **13. Dr. Srijan Aggarwal**, Civil and Environmental Engg. University of Alaska, Fairbanks, USA
- 14. Dr. M. I. Zuberi, Department of Environmental Science, Ambo University, Ambo, Ethiopia
- 15. Dr. Prof. A.B. Gupta, Dept. of Civil Engineering, MREC, Jaipur, India
- 16. Dr. B. Akbar John, Kulliyyah of Science, International Islamic University, Kuantan, Pahang, Malaysia
- 17. Dr. Bing Jie Ni, Advanced Water Management Centre, The University of Queensland, Australia
- **18. Dr. Prof. S. Krishnamoorthy,** National Institute of Technology, Tiruchirapally, India
- Dr. Prof. (Mrs.) Madhoolika Agarwal, Dept. of Botany, B.H.U., Varanasi, India

- 20. Dr. Anthony Horton, Envirocarb Pty Ltd., Australia
- 21. Dr. C. Stella, School of Marine Sciences, Alagappa University, Thondi -623409, Tamil Nadu, India
- 22. Dr. Ahmed Jalal Khan Chowdhury, International Islamic
- University, Kuantan, Pahang Darul Makmur, Malaysia 23. Dr. Prof. M.P. Sinha, Dumka University, Dumka, India
- Dr. G.R. Pathade, H.V. Desai College, Pune, Maharashtra, India
- 25. Dr. Hossam Adel Zaqoot, Ministry of Environmental Affairs, Ramallah, Palestine
- 26. Dr. T.S. Anirudhan, Dept. of Chemistry, University of Kerala, Trivandrum, Kerala, India
- 27. Dr. James J. Newton, Environmental Program Manager 701 S. Walnut St. Milford, DE 19963, USA
- 28. Prof. Subhashini Sharma, Dept. of Zoology, Uiversity of Rajasthan, Jaipur, India
- 29. Dr. Murat Eyvaz, Department of Environmental Engg. Gebze Inst. of Technology, Gebze-Kocaeli, Turkey
- **30.** Dr. Zhihui Liu, School of Resources and Environment Science, Xinjiang University, Urumqi , China
- **31. Claudio M. Amescua García**, Department of Publications Centro de Ciencias de la Atmósfera, Universidad Nacional Autónoma de, México
- **32. Dr. D. R. Khanna**, Gurukul Kangri Vishwavidyalaya, Hardwar, India
- 33. Dr. S. Dawood Sharief, Dept. of Zoology, The New College, Chennai, T. N., India
- 34. Dr. Amit Arora, Department of Chemical Engineering Shaheed Bhagat Singh State Technical Campus Ferozepur -152004, Punjab, India
- **35.** Dr. Xianyong Meng, Xinjiang Inst. of Ecology and Geography, Chinese Academy of Sciences, Urumqi , China
- 36. Dr. Sandra Gómez-Arroyo, Centre of Atmospheric Sciences National Autonomous University, Mexico
- **37. Dr. Nirmal Kumar, J. I.**, ISTAR, Vallabh Vidyanagar, Gujarat, India
- **38.** Dr. Wen Zhang, Deptt. of Civil and Environmental Engineering, New Jersey Institute of Technology, USA