

Nature Environment and Pollution Technology

Vol. 20, No. (3), September 2021

CONTENTS

1. **X. Tang, J. Luo, L. Wang and X. Li**, Effect of Water Chemistry on the Uptake of Co(II) on Graphene Oxide Investigated by Batch Technique 909-922
2. **Chandi Prasad, Ramesh C. Sharma and Rahul Kumar**, Ethnobotanical Study and Plant Diversity in the Forest of Kedarnath Valley, Garhwal Himalaya, India 923-939
3. **T. Li, G. Li, X. Zhang, S. Xu and H. Ghougassian**, Study on the Electrochemical Anticorrosion Effect of Piezoelectric Materials in the Internal Environment of Water Supply Pipeline 941-953
4. **K. M. Hamasha**, The Increasing Trend of Black Carbon and Organic Carbon in Jordan During the Period of 2007 to 2018 955-972
5. **K. Saraswathi and K. Selvam**, Procuring Plant Services for Ecological and Human Well Being 973-983
6. **Thi-Kim Chi Do, Sunil Herat, Le Van Khoa and Prasad Kaparaju**, The Current Use and Management of Single-Use Items (SUIs) in the Fast Food Industry in Ho Chi Minh City, Vietnam 985-996
7. **Hao Zhang, Jianping Li, Yi Zhang, Yutao Wang, Juan Zhang, Xu Luo and Ru Zhang**, Soil Organic Carbon Stocks and Its Driving Factors Under Different Land-Use Patterns in Semiarid Grasslands of the Loess Plateau, China 997-1006
8. **Akash, M. Zakir, Navneet and B. S. Bhandari**, Species Diversity, Soil Nutrients Dynamics and Regeneration Status of Sal (*Shorea robusta*) Forests in Western Himalayan Region of India 1007-1019
9. **N. Thakur, D. Parashar, C. Chidambaram and M. Dharwal**, Climate Responsive Strategy Matrix for Designing Buildings in India 1021-1031
10. **B. W. Zhao, Y. Zhao, H. Liu, Y. Q. Li, K. X. Duan and X. Zhang**, Effect of Wheat Straw Biochar on Thermophysical Properties of Loessial Soil 1033-1039
11. **Li Linjin, Men Baohui† and Peng Rui**, Water Quality Evaluation of Wenyu River Based on Single Factor Evaluation and Comprehensive Pollution Index Method 1041-1046
12. **M. P. Adhikari, N. B. Rawal and N. B. Adhikari**, Real-Time Fine-Scale Measurement of Water Quality Parameters Along the Bagmati River in the Kathmandu Valley 1047-1057
13. **S. Tantry, K. Tharpa, Ajay Kumar, Arun Kumar and B.H.S. Thimmappa**, Reagent Activated Cotton Fiber for Rapid Determination of Aldehydes in Diverse Matrices 1059-1068
14. **R. Rathinam and M. Govindaraj**, Photoelectrocatalytic Oxidation of Textile Industry Wastewater by RuO₂/IrO₂/TaO₂ Coated Titanium Electrodes 1069-1076
15. **N. Deepika and R. Jaya Madhuri**, Reliable and Sophisticated Techniques to Evaluate LDPE Degraded Compounds by *Streptomyces werraensis* SDJM 1077-1085
16. **R. Xu, Q. Tian, H. Wan, J. Wen, Q. Zhang and Y. Zhang**, Spatial and Temporal Characteristics of PM Sources and Pollution Events in a Low Industrialized City 1087-1096
17. **G. Rodríguez-Martínez, I. Galaviz-Villa, S. Partida-Sedas, C.A. Sosa-Villalobos, R. de G. Bernal-Ramírez, V. Alcántara-Méndez and A. García-Saldaña**, Water Erosion, its Relationship to Total Suspended Solids and Water Quality in the Lower Basin of the Usumacinta River, Tabasco, Mexico 1097-1106
18. **Y. Li, S. Yi, Y. Lin and S. Liu**, Optimization of the Water and Fertilizer of Rice in the Cold Field and the Biochar Application Amount Based on RAGA Model 1107-1113
19. **H.R. Yu, Y.Z. Wang, Z. Liang and C.K. Min**, The Construction of Regional Ecological Security Pattern Based on a Multi-Factor Comprehensive Model and Circuit Theory 1115-1126
20. **J. Mary Sheela, K. Divya and S. Premina**, Amylase Production by *Aspergillus niger* and *Penicillium* Species by Solid-State and Submerged Cultivation Using Two Food Industrial Wastes 1127-1135
21. **H. Lu, F. Luo, Q. Zhang, J. Li and L. Cai**, The Physicochemical Characteristic of Activated Carbon Based on Sludge and Preparation Method 1137-1145
22. **Qingkong Cai, Erjun Li, Yafei Zhang, Guo Wang and Chao Chen**, Contributions of Land Utilization Differences and Changes in Zhongyuan Urban Agglomeration to Regional Thermal Environment 1147-1156
23. **G. Chelladurai, T.K. Yadav and R.K. Pathak**, Chemical Composition and Nutritional Value of Paddy Straw Milky Mushroom (*Calocybe indica*) 1157-1164
24. **T. Yu, F. Wang, H. Hu, C. Qu and Le Zhang**, Study on Catalytic Oxidation, Flocculation and Sedimentation of Acidizing and Fracturing Wastewater 1165-1171
25. **N.Z. Zabi, W.N. Wan Ibrahim, N.S. Mohammad Hanapi and N. Mat Hadzir**, Removal of Various Contaminants by Highly Porous Activated Carbon Sorbent Derived from Agricultural Waste Produced in Malaysia - A Review 1173-1183

26. **P. Muthupriya and B. Vignesh Kumar**, Experimental Investigation on Concrete with E-waste - A Way to Minimize Solid Waste Deposition 1185-1191
27. **S. Fu, Y. Dong, L. Liang and X. Meng**, Fabrication of Ag/TiO₂ Cotton Fabric to Enhance Photocatalytic Degradation of Anionic Dye 1193-1199
28. **T. S. Subbiah, P. Parthiban, R. Mahesh and A. Das**, Time Series Analysis of Decadal Precipitation Pattern at Selected Cities of Southern India 1201-1208
29. **Zhongchao Hao**, Analysis on Pollution Hazards and Recycling Strategies of Logistics Packaging Wastes of E-Commerce Enterprises 1209-1216
30. **A.M.M. Mawad, H. Albasri and H. A. Temerk**, Biosorption of Malachite Green by Dry Cells of Isolated Free Living Nitrogen Fixing Bacteria 1217-1223
31. **C. Jesu Raj and J. Prema Kumari**, Urban and Rural Airborne Particulate Matter: Seasonal Variation of Alpha Activity in Kanyakumari District 1225-1229
32. **X. Zhao, L. H. Sun and X. Y. Qiu**, Influence of Evaporation on the Hydrogen and Oxygen Stable Isotopes in an Enclosed Water Body: A Case Study 1231-1236
33. **S.R. Krishna Motukuri, D. Vijaya Nagini, J. Nallamotheu and S. Karthikeyan**, In-silico Molecular Docking Studies of Volatile Compounds Identified by GC-MS from *Tagetes* Species Against *Mamestra brassicae* (Linnaeus, 1758) 1237-1242
34. **Xianqi Zhang, Zhiwen Zheng and Rulin Ouyang**, Study on Spatiotemporal Evolution Characteristics of Regional Annual Precipitation 1243-1250
35. **T. Arathi, K. P. Rahna, Delse P. Sebastian and Satheesh George**, Assessment of Heavy Metal and Pesticide Contamination in Banana Fields and Development of Phytoremediation System in Kozhikode District, Kerala, India 1251-1256
36. **K. Ruengruehan, R. Junggoth, S. Suttibak, C. Sirikoon and N. Sanphoti**, Contamination of Cadmium, Lead, Mercury and Manganese in Leachate from Open Dump, Controlled Dump and Sanitary Landfill Sites in Rural Thailand: A Case Study in Sakon Nakhon Province 1257-1261
37. **S. Pal, S. Maity, S. Balachandran and S. Chaudhury**, In-vitro Effects of Chlorpyrifos and Monocrotophos on the Activity of Acetylcholinesterase (AChE) in Different Tissues of Apple Snail *Pila globosa* (Swainson, 1822) 1263-1268
38. **M. Riza, M. N. Ehsan and S. Hoque**, Portrayal of Textile Based Pollutants and its Impact on Soil, Plants and Fisheries 1269-1275
39. **Chunwei Han**, Impact of Environmental Subsidies on Environmental Technology Innovation of Polluting Enterprises 1277-1284
40. **D. Nageswara Rao, T. Bhaskara Rao and P.V.S. Machiraju**, Chemical and Pathogen Impacts on Human Health near Aquaculture Areas in West Godavari District of Andhra Pradesh, India 1285-1293
41. **S. Singh, S. Shankar and Shikha**, Evaluation of LDPE Degradation Under Controlled Composting 1295-1300
42. **K.M.P. Mokatse and J.P.H. van Wyk**, Successive Saccharification of Waste Paper as a Resource for Bio-product Development 1301-1308
43. **E. N. Hidayah, O. H. Cahyonugroho, M. Mirwan, R. B. Pachwarya and M. K. Asrori**, Effect of Oxidation on the Formation of Disinfectant By-products of Low Molecular Weight Organic Matter 1309-1313
44. **S. Maheshwari, P. Kriplani, A. S. Jethoo, P. Kumar and M. Khwairakpam**, Study of Change in Physico-Chemical Parameters by Treatment of Sludge from Common Effluent Treatment Plant (CETP) with Earthworms 1315-1321
45. **T. Azhaguthasan, T. Ravimycin and K. Santhi**, Impact of Organic and Inorganic Fertilizers on Morphological and Biochemical Components of *Arachis hypogaea* L. 1323-1329
46. **Shang Li**, Evaluation of Ecological Environmental Pollution in Green Building Construction 1331-1337
47. **B. Paul and D. Paul**, Comparative Analysis of Municipal Solid Waste Management in Kochi and Indore 1339-1345
48. **T. Stalin Subbiah, R. Mahesh, P. Parthiban and A. Das**, Spatio-Temporal Variability of Gamma Radiation Profile Along the Southern-Indian Coastline (Poompuhar to Nagapattinam Stretch) 1347-1351
49. **Zhong Wei Wang and Huan Le Han**, Analysis on Tourism Environmental Pollution and Tourism Economy-Ecological Environmental Coordination Degree: A Case Study from China 1353-1361
50. **I. Galaviz-Villa, C.A. Sosa-Villalobos, N.L. Lagunes-Reyes, C. Landeros-Sánchez, M.A. Castillo-Ferat, A. García-Saldaña, S. Partida Sedas and A. Cabal Prieto**, Nitrate-Nitrogen (N-NO₃⁻) in Ground Waters of Agricultural Zones in Tabasco, México; Risks for Aquatic Life and Human Health 1363-1368
51. **Sawkat Ara Pinki, Md. Reazul Karim, Dipankar Dewanjee, Habibur Rahman Bhuiyan, H. M. Abdullah Al Masud and Md. Imranul Hoq**, Microbial Reduction and Detoxification of Chromium from Tannery Effluent by Natural Inhabitants 1369-1380

The Journal
is
Currently
Abstracted
and
Indexed
in:

International Scientific Indexing (UAE) with Impact Factor 2.236 (2018)

NAAS Rating of the Journal (2019) = 3.85

Scopus®, SJR (0.127) 2019

Index Copernicus (2018) = 135.97

EI Compendex of Elsevier

Indian Science Abstracts,
New Delhi, India

Chemical Abstracts, U.S.A.

Elsevier Bibliographic
Databases

Pollution Abstracts, U.S.A.

Zoological Records

Paryavaran Abstract,
New Delhi, India

Indian Citation Index (ICI)

Scopus CiteScore (2019) = 0.5

Electronic Social and Science
Citation Index (ESSCI)

EBSCO: Environment Index™

Ulrich's (Refereed) database

CrossRef (DOI)

DOAJ

Zetoc

Google Scholar

ProQuest, U.K.

J-Gate

Environment Abstract, U.S.A.

British Library

Centre for Research Libraries

WorldCat (OCLC)

JournalSeek

Connect Journals (India)

CSA: Environmental Sciences and Pollution Management

Research Bible (Japan)

Indian Science

Geobase

Elektronische
Zeitschriftenbibliothek (EZB)

SHERPA/RoMEO

Directory of Science

CNKI Scholar (China National
Knowledge Infrastructure)

Access to Global Online Research in Agriculture (AGORA)

AGRIS (UN-FAO)

Present in UGC-CARE List (Group II)

UDL-EDGE (Malaysia) Products like *i*-Journals, *i*-Focus and *i*-Future

www.neptjournal.com

Nature Environment and Pollution Technology

EDITORS

Dr. P. K. Goel (Chief Editor)

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) (Thane) Mumbai-401107, 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**)

EDITORIAL ADVISORY BOARD

1. **Dr. Prof. Malay Chaudhury**, Department of Civil Engineering, 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
19. **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
24. **Dr. G.R. Pathade**, H.V. Desai College, Pune, India
25. **Dr. Hossam Adel Zaqoot**, Ministry of Environmental Affairs, Ramallah, Palestine
26. **Prof. Riccardo Buccolieri**, Deptt. of Atmospheric Physics, University of Salento-Dipartimento di Scienze e Tecnologie Biologiche ed Ambientali Complesso Ecotekne-Palazzina M S.P. 6 Lecce-Monteroni, Lecce, Italy
27. **Dr. James J. Newton**, Environmental Program Manager 701 S. Walnut St. Milford, DE 19963, USA
28. **Prof. Subhashini Sharma**, Dept. of Zoology, University 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, Haridwar, 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. Manish Sharma**, Deptt. of Physics, Sharda University, Greater Noida, India
38. **Dr. Wen Zhang**, Deptt. of Civil and Environmental Engineering, New Jersey Institute of Technology, USA