

# ECOLOGY, ENVIRONMENT AND CONSERVATION

## VOL. 28 (February Suppl. Issue) : 2022

### CONTENTS

- S1–S5 Parental investment of adult Barn swallow *Hirundo rustica rustica* at nestling feeding in the urban locality of El Bouni (Northeast, Algeria)  
—*Dadci Walid, Sakraoui Rym, Boukheroufa Mehdi, Abdallah Khadidja Wissal, Sakraoui Ferial and Tahar Ali*
- S6–S13 Land-Use/ Land-Cover Changing Trends and their Relation to Landslides: A Case Study of Hali-Elain Badulla District, Sri Lanka  
—*A.M.R.N.K. Alahakoon, K.L. Thisara Sathsara, Udara S.P.R. Arachchige and Shyamantha Subasinghea*
- S14–S20 Regional and Seasonal Variations of Polychlorinated Biphenyls (PCBs) in Water of Shatt AL-Arab River, Iraq  
—*Rafid A.T. Al-Zabad, Ayad H.D. Al-Khafaji and Hamid T. AL-Saad*
- S21–S27 Synthesis and Characterization of Nanocellulose from *Cladophora* sp.  
—*S.W. Suciayati, P. Manurung, Junaidi, S. Sembiring and R. Situmeang*
- S28–S34 A Teacher's Perception of Green Building Technology: Implications to Sustainable Construction and Environmental Education in Anambra State, Nigeria  
—*Daniel Uchenna Chukwu, Hyginus Osita Omeje, Godwin Keres Okereke, Chinwe Patricia Eze and Ikechukwu Chidiebere Odogwu*
- S35–S40 Antitumor and antioxidant activity of *Aloe vera* leaf gel extract  
—*Worood Kamil Shalash*
- S41–S45 Effect of Polyphenol Fraction Exposure of *Aloe vera* on the Change in Cortisol of Koi Fish (*Cyprinus carpio*) as Stress Response  
—*Sri Andayani, M Sulaiman Dadiono, Widya Tri Elwira, Husna Nabila, Rodhyansyah, Nelvan Subayu and Ashari Fahrurrozi*
- S46–S51 Regulatory Framework for the Disposal and Management of Personal Protective equipment (PPE) During Covid-19 in Bangladesh  
—*Farhana Helal Mehtab, Md. Safiullah and Md. Arif Mahmud*
- S52–S58 Solar Cell as Energy Chlorinator for Disinfection of Flowing Water  
—*Beny Suyanto, Denok Indraswati, Tuhu Pinardi and Sujangi*
- S59–S61 Production Performance of Broiler Chicken Supplemented with *Lactobacillus plantarum* and *Lactobacillus casei* Incubated in Different Medium Infussion  
—*Nabila Hanina Hibatul Haqqi, Fatihah Istafaro Maulidiya, Galuh Hesti Dwi Indrawati<sup>1</sup>, Wenny Nur Azizah, Herinda Pertiwi and Loh Teck Chwen*
- S62–S73 Motivators and Inhibitors of Green Building Technology Integration and Advancement: Nigerian Lecturers' perspective  
—*D. U. Chukwu, H. O. Omeje, G. K. Okereke, B. A. Omeje, A. A. Okekpa and J. A. Okereke*
- S74–S78 The Impact of Electromagnetic Pollution on Human Health and Environment: Recommendation for an Effective Regulatory Framework in Bangladesh  
—*Arif Mahmud*
- S79–S84 Differences effect of red and big white ginger extract as anti-inflammatory agents by *In vitro*  
—*E.B. Aksono, T.D.K. Wungu, C.H. Wijaya, R.R.F. Sarassina, N. Hidayatik, H. Pertiwi and N. Puspitasari*
- S85–S92 Visualization of Coral Reef Cover with Photogrammetry Method at Coastal Waters of Lemon Island, Manokwari, Indonesia  
—*Dimas Algutomo, Ricardo F. Tapilatu, and Aradea Bujana Kusuma*

- S93–S98 Restoring River Water Pollution from the Impact of Water Hyacinth (*Eichornia crassipes*) through Utilization as Raw Material for Fertilizer  
—*Hery Koesmantoro, Karno, Sunaryo and Suparji*
- S99–S102 Effect of Slope on Landslide Potential at Kuranji Watershed  
—*Andriani, Hendri Gusti Putra, Masril Syukur and Ulung Sadewo*
- S103–S110 Isolation of Fungi from Oil-contaminated Soil from Maysan Province, Southern Iraq  
—*Ahmed R. Mossa and Ali A. Kasim*
- S111–S119 Ecological Diagnosis of the Algerian West Coast Marine Environment by Using Benthic Macroalgae  
—*Imene Bouri, Omar Rouane-Hacene and Zitouni Boutiba*
- S120–S124 Effectiveness of Adsorbents Chicken Eggshells and Cassava Skin to Reduce Pollutants in the Electroplating Industry  
—*Muhammad Al Kholif, Pungut, Sugito and Djoko Adi Walujo*
- S125–S127 Impact of Lockdown on Dengue in Kolkata: A Socio-Ecological Study  
—*Abhishek Mondal and Saheli Guha Neogi Ghatak*
- S128–S130 Potable Water Quality of Thenhlum Village in Lunglei District, Mizoram, India  
—*Malsawmtluanga*
- S131–S134 Heavy Metal Concentration in Surface Water around the Industrial Area M.I.D.C. Mahad, Maharashtra, India  
—*Srikant Kekane and R.P. Chavan*
- S135–S142 Study of Microbial Diversity and their Role in the Deterioration of Tarkeshwar Temple, Jaipur, India  
—*Mansvi Yadav and Varsha Gupta*
- S143–S146 Diversity of Mangrove Ecosystem from Vaitarna Estuary (Palghar), Maharashtra, India  
—*Harshad S., Vanmali and Rahul N. Jadhav*
- S147–S152 Assessment of Physico-chemical Characteristics of Vairtarna Estuary of Palghar, (M.S.) India  
—*Harshad Vanmali and Rahul Jadhav*
- S153–S162 Linkages of Sustainable Development Goals with Integrated Coastal Zone Management Project in India: An Approach to Enhance Efficacy  
—*Satyendra Kumar and C. R. Suthar*
- S163–S167 The Influence of Environmental Shock Initiation on Vegetative and Spore Production of *Bacillus megaterium*  
—*I Made Dedi Mahariawan, Wahyu Endra Kusuma, Ating Yuniarti and Anik Martinah Hariati*
- S168–S174 Impacts of the Changing Housing Patterns on the Populations of House Sparrow *Passer domesticus* (Passeriformes: Passeridae) in the Rural Hills of Uttarakhand: A Case Study  
—*Ritika Waldia and Jay Prakash Bhatt*
- S175–S179 An Overview on Facile Green Synthesis Approaches and Optical Sensing Applications of Silver Nanoparticles  
—*Sugandha Sangar and Kulvinder Singh*
- S180–S182 Detection of Valuable Material-protein, in Faecal Sludge  
—*Hansa K., M.C. Sampath Kumar and Priya V.*
- S183–S187 Effect of Value Added Admixture Zeolite on Setting Time and Compressive Strength of Magnesia Cement  
—*R.N. Yadav and Ramkishan*
- S188–S193 Genetic Variability Studies for Yield and Yield Attributing Traits of Wheat (*Triticum aestivum* L.)  
—*Mayur Roshan Sahoo, Aarti Sharma and Hemant Kumar Jaiswal*

- S194–S205 Life Without Antibiotics? – A Review on Increasing Threat of Antibiotic Resistance with A Broader Look on Agricultural aspect  
—*Debanjana Debnath, Chinmayee Mohapatra, Snehasish Routray and Suraj Goldar*
- S206–S209 Assessing Land - use, Misuse and Abuse in Nilgiris District of Tamil Nadu Using Remote Sensing Data  
—*M. Suguna Devakumari, R. Alex Immanuel Jeyasingh, S. Praveena Katharine and S. Carolin Jeeva*
- S210–S212 Anthropogenic Drives of Emerging Infectious Diseases and Possible Mitigation Approaches  
—*Pinak Dutta and Mita Dutta*
- S213–S216 Eco-sensitive Zones and Ecologically Fragile Lands in Kerala: Known and Unknown  
—*Liji Samuel*
- S217–S226 Traditional Medicinal Values of *Rubus ellipticus* with Biological Activities Observed from its Crude Extract: A Review  
—*Vinit Prakash, Anjana Kumari, Harpreet Kaur, Manoj Kumar, Sumeet Gupta, Ritu Bala, Dinesh Gupta*
- S227–S232 Study on Development of Consortia for NPK Bacteria and its Effect on Growth of Selected Crops  
—*Nileema S. Gore, Vaishali Hiwale, Vaibhav Jagdale and Sanjay Harke*
- S233–S241 Effect of Organic Fertilizer on Growth, Yield and Quality of *Pisum sativum* L.: A Review  
—*Sarbeswar Behera, B. Jyotirmayee, Ushashee Mandal, Ananya Mishra, Pratyasha Mohanty and Gyanranjan Mahalik*
- S242–S250 Kriging Interpolation Based Error Analysis of Epic Model with Respect to Standard K Factor Method for Gurushikhar, Rajasthan, India  
—*Narendra Kumar Maurya, Prakash Singh Tanwar and Yusuf A.S.*
- S251–S257 A Review of techniques to eliminate fluoride from water  
—*Amit Punia, M.S. Narwal and A.K. Berwal*
- S258–S264 Enzyme Analysis and Histological Studies of Earthworms in the Treatment of Different Organic Wastes  
—*G. Priya, Vimala Bangarusamy, Nasreen Najeeb and P. Mahalakshmi*
- S265–S272 Study of soil moisture distribution under different mulching methods  
—*Nitin M Changade and Raj Kumar*
- S273–S274 Augmenting the Geotechnical Characteristics of Soil by Dry Bagasse and Fly Ash  
—*Tanu Kumar and Ashok Kumar Gupta*
- S275–S278 Green Energy Bricks: A Step Towards Smart and Sustainable Structures  
—*Pratibha Singh, Vivek Sharma, Sandeep Gupta, Savitha H.S., Asha Upadhyay and Nupoor Srivastava*
- S279–S283 A Questionnaire-based Survey on Groundwater Characterization  
—*N. Sridhar, K. Ezhisaivallabi and S. Poongothai*
- S284–S290 Assessment of Rooftop Rainwater Harvesting Potential in Karnal Smart city, (Haryana) using Geospatial Technology  
—*Meenakshi, K.E. Mothi Kumar and Nisha Kumari*
- S291–S293 Correlation of Chemical Attributes of Soil with Yield of Wheat Crop  
—*Amit Kumar Pandey, Ashutosh Singh and Umesh Singh*
- S294–S299 *Eria meghasaniensis* (S. Misra) S. Misra, an endemic and endangered orchid of Similipal Biosphere Reserve, Odisha, India  
—*D. Behera, S.S. Jena, B.T. Panda and H.N. Subudhi and S.P. Panda*

- S300–S306 Evaluation of Heavy Metals Contamination in Suspended Sediments of Dikrong River, Assam, India  
—*Satya Ranjan Goswami, B. J. Saikia, A. Goswami, A. J. Dev Sarma, Md. Y. Hassan and M. Buragohain*
- S307–S312 Temperature trend and variation analysis in the eastern plain zone of Uttar Pradesh  
—*Devegowda S.R., Saket Kushwaha, P.S. Badal, Avdhesh Sharma and Nagaveni M.*
- S313–S321 Optimal Annual Allocation Model of Large Storage Based Irrigation Project by Multi Level Approach  
—*A. Srinivasa Prasad, G.K. Viswanadh, P.V.S. Maruthi Krishna and K. Leela Krishna*
- S322–S327 Hydrobiological Study of Lotic Water of Yamuna River at Yamuna Nagar, Haryana, India during 2018-2019  
—*Babita and Sushil Kumar Upadhyay*
- S328–S339 Sanitation Condition and its Association with Menstrual Hygiene of Non-Tribal and Tribal Communities in Selected Districts of West Bengal  
—*Lopamudra Ganguly and Lakshminarayan Satpati*
- S340–S343 Effect of Air Pollution and Oxidative Stress in Development of Cataract – A Study in Rural Regions of West Bengal  
—*Somnath Ghosh, Sayani Pal Choudhury, Gopeswar Mukherjee and Animesh Dey*
- S344–S350 Impact of Jhum Cultivation on Forest Ecosystem and Environment Management Policies in Meghalaya, India  
—*Trishna Moni Tamuli and Ashok K. Bora*
- S351–S362 Plant disease diagnosis using image processing techniques – A review on machine and deep learning approaches  
—*Kalpesh Patel and Atul Patel*
- S363–S366 Performance of contingent crops under deferred sowing in transitional plain of luni basin in Western Rajasthan  
—*Dharmendra Meena, Santosh Kumari Meena, Suresh, N.V., Asu Singh Godara, Nema Ram, Arjun Lal Bijarnia and Dileep Kumar*
- S367–S371 A Study on Air Quality Index for Tiruchirappalli City Corporation  
—*Vignesh PM, J. Fowmithabanu, P. Kalaipriya, K. Sridhar and M. Govindaraju*
- S372–S381 Ameliorative effect of *Nelumbo nucifera* seeds and wheat grass formulated feed against tannery effluent toxicity and stress in freshwater fish *Oreochromis mossambicus*  
—*M. Sankar, T. Kumaran and R. Saravanan*
- S382–S386 Multinutrient Extraction – Need of the Hour – A Review  
—*Praveena Katharine Stephen, Suguna Devakumari, M. and Susan Poonguzhali, R.*
- S387–S398 Comprehensive Study on Raniganj Coalfield Area, India: A Review  
—*Dibyendu Saha, Jai Prakash Keshri and Nimai Chandra Saha*
- S399–S405 Extraction of Bioactive Compounds in *Ganoderma lucidum* from Himachal Pradesh  
—*K. Theresa, Vimalin Hena<sup>2</sup> and Jasmin Dora*
- S406–S411 Macronutrient availability and microbial population in fly ash amended alluvial soil  
—*K. Theresa and J. Vimalin Hena*
- S412–S424 Potential of Sodium Hydroxide Pre treatment of *Prosopis juliflora* for Fermentable Sugar Production  
—*Vijayakumar Palled, M. Anantachar, M. Veerangouda, K.V. Prakash, C.T. Ramachandra, Nagaraj M. Naik and R.V. Beladadhi*
- S425–S435 Population dynamics of *Maydelliathelphusa masoniana* Henderson 1893 from freshwater bodies of Jammu region (Jammu & Kashmir, India)  
—*Harmeen Kour, Seema Langer, and Nipoon Sharma*

- S436–S443 A Multi Criterion Decision Approach for Identification of Potential Flood Risk Zones in Hussainsagar Watershed using Geomatics – A Case Study  
—*Padmaja G. and Giridhar M.V.S.S.*
- S444–S451 Diversity and abundance of Macrozoobenthic communities in a Gangetic flood plain wetland of West Bengal, India  
—*D. Sarkar (Paria)*
- S452–S458 Analyzing River Bank Erosion Vulnerability of Sadiya Region, Assam, India  
—*Ratul Das and Barnali Gogoi*
- S459–S469 Forecasting the Emission of Carbon-di-oxide Equivalent in Key Sectors of India Using Arima Model  
—*Deepa S. and Vijayasree G.*
- S470–S478 Seed Source Determines Germination and Survivability in *Saussurea obvallata* (Dc.) Edgew an Endemic Herb of Indian Himalayan Region, India  
—*Vijay Kant Purohit, Pradeep Dobhal, Bhagat Singh Mengwal, Jaidev Chauhan, Mohan Chandra Nautiyal, Anant Ram Nautiyal and Pratti Prasad*
- S479–S487 The fragile Environment, ever growing tourism and the quest for sustainability: A case study from Duars, Alipurduar, West Bengal  
—*Gobinda Chandra Roy, Manjil Gupta and Siddharthasankar Banerjee*
- S488–S491 Physico-chemical Investigation of Neera River Water Near Sarola Bridge Shirval, District Pune (Maharashtra), India  
—*S. D. Jadhav and M.S. Jadhav*
- S492–S498 Environmental impact of paper consumption in the educational sector and digital learning - examination system post Covid-19  
—*Ashok Verghese, A. K. Parvathy, S. Sathyalakshmi, Beena James and M. Prabakaran*
- S499–S505 Eco-friendly approach toward preparation of plantable paper like material from organic sugarcane bagasse waste  
—*Minakshi Bhattacharjee, Susanta Mog and Nabin Soren*
- S506–S511 Study of water management and scarcity of drinking water in Alwar City (Rajasthan)  
—*R.N. Yadav and Ajit Singh*
- S512–S519 Distribution of Avian Diversity in Different Habitats from Gangetic Plains of West Bengal, India  
—*Kausik Ghosh*
- S520–S527 Hydrothermal Carbonization of Paper Mill ETP Sludge and Assessing its Potential Application in Agriculture  
—*K. Blessy Monica, E. Parameswari, V. Davamani, K. Sivakumar and P. Kalaiselvi*
- S528–S533 Contribution to the Study of the Soil's Diversity of the Algerian North-east, Case of the Transect «Souk-ahras -tebessa»  
—*Samai Ibtissem, Amri Naziha, Chouba Ibtissem, Zentar Amina and Remita Ferial*
- S534–S538 A Study on the Economic Impact of Covid 19 among Different Sections of People  
—*Kanchan Devi*
- S539–S543 A Study of Identification *Listeria monocytogenes* Bacteria Isolated from Raw Vegetables in Madhya Pradesh, India  
—*Shivendra Verma, Abhishek Gupta and Shalini Singh*
- S544–S547 Effect of plant extracts against stripe rust of barley caused by *Puccinia striiformis* f. sp. *hordei*  
—*Harshraj Kanwar, Pradeep Singh Shekhawat and Brajnandan Singh Chandrawat*