ECOLOGY, ENVIRONMENT AND CONSERVATION

VOL. 28 (January Suppl. Issue): 2022

CONTENTS

S1-S10	Automation of the process of predicting the SSR as a phase variable within the entire N. meningitidis genome —Shaymaa Fouad Rasheed Al Khazraji and Mohammad Abdul Rahmman Al-Maeni
S11-S20	Assessment of the physio chemical properties and hydro chemical formula of water in some wells south of Baghdad in 2020 —Ameerah Khattab Madhi, Ibrahim Mahdi Salman and Raad Mahmoud Nassif Al-Khafaji
S21-S32	The challenge of government Policy in the management of water resources based on sustainability in Indonesia —Suwari Akhmaddhian, Erga Yuhandra and Haris Budiman
S33-S41	Potential of <i>Ipomea aquatic</i> Hay and Its Phytochemical to Improve Performance and Health Status in Ruminants —Virgianty Kusumah and Herinda Pertiwi
S42-S51	Aspects of Government Coercion in Environmental Licensing Law to Prevent Environmental Crisis In indonesia —Solechan, Kadek Cahya Susila Wibawa and Aga Natalis
S52-S53	Influence of market structure, on Copra price Bargaining position in Parigi – Moutong Regency —Hendra Kurniawan, Ratya Anindita and Silvana Maulidah
S54-S61	An experimental investigation to the use of Calcium Chloride in the water body construction of a salinity gradient solar pond —Wael Chasib Thwayin, Mohammed A. Altahan and Asaad H. Sayer
S62-S67	Investigation of indoor spider plant (Chlorophytum comosum) affecting the carbon monoxide and carboxyhemoglobin reduction —Rizky Rahadian Wicaksono, Marsha Savira Agatha Putri, Antariksa, Marjono and Ummu Maflachatus Sholichah
S68-S72	Prevalence and antibiotic resistance of Staphylococcus aureus isolated from Ettawa Crossbreed Goat Rawmilkon Wonosari sub-distric, Malang, Indonesia —Anugrah Aditya Putra, Budiarto, Tita Damayanti Lestari, Mustofa Helmi Effendi, Wiwiek Tyasningsih and Sheila Marty Yanestria
S73-S81	Impact of geographical distribution on the variation of Morphological and biochemical properties in two date Palm cultivars —Ghazzawy, H.S., M. R.Alhajhoj, H. M.Ali-Dinar, M. Munir and N. Alqahtani
S82-S88	The effectiveness of Cinnamomum (Cinnamomum burmannii) Essential Oil on the Reduction of Inflamation Levels in White Rat Livers (Rattus norvegicus) Induced by Streptozotocin—Agus Arisma, Mohammad Sukmanadi, Hani Plumeriastuti, Mustofa Helmi Effendi, Budiastuti and Sheila Marty Yanestria
S89–S94	Population dynamics of parameters and the size of the first gonade maturity on Java Barb (Barbonymus gonionotus) in Pondok Reservoir, East Java —Siti Nurul Aida, Moh. Rasyid Ridho, Edward Saleh and Agus Djoko Utomo
S95–S98	Changes of Carotenoids in Haematococcus pluvialis With the Presence of Light Metals —Wong Ling Shing, Fan Wei Jiong, Cheng Wan Hee, Ong Ghim Hock and Sinouvassane Djearamane
S99-S104	Utilization of Modified NDVI _{red and red edge} algorithm for analysis of Mangrove ecosystem conditions in Lembar bay area of West Lombok Indonesia —Sukuryadi, Nuddin Harahab, Mimit Primyastanto and Harry Irawan Johari

II

S105–S113	Facemasks as environmental risk: An observational study using street - Survey in Hisa District of Haryana State
	—Dinesh Kumar, Sukesh Trikha, Ranju Anthony and Reena Pathania
S114-S118	Interaction of Avian Assemblages with the Local Environment of Solid Waste Disposal Area A Case Study from Pramodnagar Waste Dumping Ground in Kolkata Metropolitan City
	—Tanmou Dutta, Samir Sardar, Bulganin Mitra, Arunava Mukheriee and Banani Mandal

CONTENTS

S119-S126 A Taxonomic Treatment of Corticolous Mosses from Nambor Reserve Forest, Golaghat, Assam, India

—P. Hazarika and J. Barukial

- S127-S132 Molecular Docking; future of Medicinal Research
 - —Anuradha Sharma, Sahil Ahuja, Pragya Deep, Shravani, Saranya Nair, Sneha Sambhyal, Deependra Mishra, Chetan Pandey, Preet Manchanda, Krishma, Akash Deep, Lamha Kumar, Parveen Gwalia, Ria Arora, Bhupender Singh, Shubham Attri, Deepika Kumari Singh, Areeba, Muskaan Gupta and *Vivek Chopra
- S133-S137 Effect of coconut based integrated cropping system on soil organic carbon and microbial populations in coastal Odisha condition

 —Gopa Mishra, S.C. Sahoo, A.K. Karna, S.K. Pattanayak and H.P. Maheswarappa
- S138–S143 Correlation and path co-efficient analysis in bottle gourd (Lagenaria siceraria L.)

 —Rajat Singh, Bijendra Singh, Satya Prakash, Mukesh Kumar, Himanshu Kaushik, Satvaan Singh and Amit Kumar
- S144–S150 Community analysis of nematodes associated with Sapota (Manilkara zapota)
 —Pranaya Pradhan, Rudra Pratap Subudhi and Niranjan Kumar Sahoo
- S151–S155 Storage study (Shelf life) and Consumer acceptability of value added (enriched) barnyard millet cookies

 —Uma Ballolli, Savita Hulamani and Bharati Chimmada
- S156–S163 Environmental and Provinance study of Mudflats from Shastri Estuary, Ratnagiri District, Maharashtra using Clay Minerals
 —S.B. Joshi and D. D. Kulkarni
- S164–S170 Causes of famers Suicides in Karnataka: A Fuzzy cognitive analysis
 Jayashree S., Aanish Nair, Abhinav Mondal and Abdul Quadir
- S171–S178 Uranium concentration and health rishk assessments in groundwater samples taken different location of Korba District, Chhattisgarh, India
 —Krishna Kumar Kashyap, Sanyogita Shahi and Manoj Kumar Ghosh
- S179–S184 Rhizo-biodegradation of Methylene Blue Dye using Developed Mycorrhizal Soil

 —Poonam Pal and Hardik Patel
- S185–S193 Post SARS-CoV-2 Urban India: Computing Air Quality Health Indicators (AQHI) for Gurugram City to Assess Imminent Threats to Public Health
 —Arvaan Kumar and Sriroop Chaudhuri
- S194–S199 Rebooting the Value of Traditional Knowledge in Scientific Fruit Farming
 Jinto James, J., S. Senthilkumar and S. Manivannan
- S200–S205 Effect of spacing and pinching on growth, flowering and seed yield traits in African marigold (Tagetes erecta) cultivar Pusa Narangi Gainda under semi-arid conditions of Haryana, India —Pooja Pant, Sushma Devi Mayengbam, Heena and Babita Singh
- S206–S216 Effect of Active Packaging on the Quality and Shelf Life of Labeo rohita during Chilled Storage
 - —Aayushi Dogra, Roopma Gandotra, Mohammad Arif, Dheeraj Sharma and Poonam Choudhary

S217-S221	Assessment of combining ability and heterosis in rice (Oryza sativa L.) under irrigated ecosystem
	—K. Parimala, Ch. Surender Raju and S. Sudheer Kumar
S222-S226	Study of factors affecting chromium adsorption by different saw dusts —Anoop Kumar Mishra and Siddhartha Shukla
S227-S232	Experimental study on partial replacement of Coarseaggregate, Fine Aggregate and Cement by Crushed Tiles, Granite Powder and Silica Fume in Cement Concrete —K. Saranya, C. Shankar, R. Thenmozhi, R. Priya and M. Arun Kumar
S233-S238	Use of the Modified Winogradsky Microcosm Technique to Help in Building an Indigenous Culture Collection of Iron and Sulphur Bacteria Valuable in Green Synthesis of Gold Nanoparticles —Dabolkar Sujata and Kamat Nandkumar
S239-S256	Spring water quality analysis using water quality index and geospatial technology in Takoli Gad Watershed, Tehri Garhwal, Uttarakhand, India —Nidhi Chhillar and Varun Joshi
S257-S261	Morphological characterization of biomass-derived biochar as cementitious material and its Partial Cement Replacement for Carbon footprint Reduction: A Review —Sourav Ghosal, P. K. Pani, R. R. Pattanaik and M. K. Ghosal
S262-S268	Recycling of Biomethanated Distillery Spent wash to enhance soil health, growth and Yield of Sugarcane —R. Jayashree, K. Suganya and V. Sathyasree
S269-S279	Diversity of soil bacteria in some sacred patches of Purba Bardhaman District, West Bengal, India —Souvik Bag, Debraj Biswal, Anirban Roy, Basanta Sarkar, Ayan Mondal and Soumendranath Chatterjee
S280-S285	Biosorption of lead (Pb(II)) ions by active and inactive biomass of heavy metal tolerant fungal biomass isolated from the polluted sites —Shobha Shrivastava and Mayuri Gupta
S286-S295	The COVID-19 (SARS-CoV-2) Pandemic: An Era to Rejuvenate Wildlife and Environmental Rehabilitation in India —Devendra Kumar, Saha Dev Jakhar, Ajay Kumar Kumawat and Megha Shrivastava
S296-S299	Assessment and Evaluation of Water Quality of Thorapalli lake —Veena S.S. and M. Ramachandra Mohan
S300-S305	Rejuvenation of Ecosystem using Axenic Culture of Octoblepharum albidum HEDW. —Meenu Mathew, Abraham Mathew and Sindu N.
S306-S310	Adsorptive removal of Zn (II) Ions from Wastewater using the Biosorbent of <i>Tectona grandis</i> Leaves: Equilibrium and Thermodynamic studies —Ankita Negi, Sushil Kumar Joshi and Narendra Singh Bhandari
S311-S318	Land use and Land cover Detection using Geo-spatial Tools for Sustainable Land Use Planning —Gulap Sonowal and Gitika Thakuriah
S319-S329	Rural to Urban Land Transformation Effects on Ground Water Levels – A Case Study of Greater Noida, Gautham Budh Nagar District, Uttar Pradesh —Ashwani Kumar and S.M. Veerabhadrappa
S330-S339	Effect of water from different sources and associated soil on the germination, growth and yield of Oryza sativa (L.) —Anitha Kumari C. G. Johnsi Christopel and Beena Lazvrence

1 V	CONTENTS Lett. B. Cons. 20 (Junuary Suppl. Issue) . 2022
S340-S344	Review of landfill studies on physico-chemical characters, associated microflora and their Dynamics —Moitrayee Banerjee Chakraborty, Saranga Ranjan Patgiri and Sagarika Paul
S345-S350	Effect of Different farming systems on management of insect pests and population of Natural Enemies in Groundnut and Blackgram —Madhurima Vinod, Sudhir Kamath K.V., Lakshmana and Sunil Kumar K.
S351-S357	Prevalence and Infestation Rate of Intestinal Acanthocephalan Parasite Pallisentis nagpurensis in Fresh Water Fish, Channa striatus —Nandini N.J. and Siny G. Benjamin
S358-S364	Assessment of airborne fungi in the indoor environment of schools in Imphal —Rajukumar Khumukcham and R.S. Khoiyangbam
S365-S369	Comprehension of Women's Knowledge, Attitude and Practices Associated with Household Waste Management —Ms. Kalpana Srivastava
S370-S373	Influence of organic, Natural farming and recommended package of practices on yield and Economics of summer groundnut (Arachis hypogea L.) —Sunil Kumar, K., Sudhir Kamath, K. V. Lakhsmana and Madhurima Vinod
S374–S381	Laboratory Evaluation on Insecticidal toxicity to Indian Honey bee, Apiscerana indica F. (Hymenoptera: Apidae) —M. Gokulakrishnan, C. Gailce Leo Justin, S. Sheeba Joyce Roseleen and J. Ejilane
S382-S386	Effect of nutrient ratios of Water Soluble Fertilizers on Quality of Tomato (Solanum lycopersicum L.) under fertigation —Minnu John, M. Elayarajan, R. Swarna Priya and P. Janaki
S387-S392	Deriving of Topographical Attributes using SRTM DEM for Tiruppur District, Tamil Nadu, India —S. Janarth, R. Kumaraperumal, S. Pazhanivelan and K.P. Ragunath
S393-S397	Key Stakeholder's Perspective Towards Sustainable Tourism Development —Shahnaz Akhtar, Syed Aasif Bukhari and Parwaiz Ahmad Najar
S398-S410	Long-term Changes in Phytoplankton Assemblages of Lake Khurpatal, Kumaun Himalaya, India —Pragya Singh, Mamta Pant and P.K. Gupta
S411-S419	Long-term Changes in Physico-chemical Variables of Lake Khurpatal, Kumaun Himalaya, India
	—Pragya Singh, Mamta Pant, Sandeep Dutt Maindoli and P.K. Gupta
S420-S428	Effect of Vermiwash on the growth of Capsicum annuum —Kulkarni Rajender Rao, Juliana Silveira, Naik Anjali, Naik Sneha, Raikar Sutisha and Rekdo Savita
S429–S431	First photographic inland record of the Bull shark Carcharhinus leucas (müller and henle 1839) (Carcharhiniformes: Carcharhinidae) in Java, Indonesia —Frans Tony, Hadiratul Kudsiah, Rina Iskandar, Muhammad Ahsin Rifa'i and Achmad Syamsu Hidayat
S432-S445	Modeling the changes of Paddy field to Residential in Pringsewu District, Indonesia —Dedy Miswar, Agus Suyatna, Wan Abba Zakaria, Endro P. Wahono, Yarmaidi and Diana Ardiyanti
S446-S460	Anti-fungal efficacy of aqueous leaf extracts Neem (Azadirachta indica) in the treatment of tap water —Salah Omar Abdulali Habberrih, Mir Sujaul Islam, Zaied Bin Khalid, Che Ku Mohammad Faizal and Fadzil Mat Yahaya

CONTENTS

Lee. Live. C	Const. 26 ()
S461–S472	Relationship of annual flow with Hydrochemical analysis of the Tigris river and Evualation of Water for Drinking and Irrigation Uses —Alyaa Shakir Oleiwi and Moutaz Al-Dabbas
S473-S478	The therapeutic role of Alcoholic Extract of Black Tea (Camellia sinensis) against Infection with Staphylococcus aureus —Aseel J. Mohammad and May T. Flayyih
S479-S496	A forestation of desert Cities: A case study Al-Ramadi Cities —Zeyad M. Abdulrazzaq, Dina T. Hammody, Atheer H. Abdul Majeed, Mohammed S. Jumaah and Namariq D. Hameed
S497-S500	Taxonomic Study of some Isopoda in Najaf, Iraq —Aliaa H. Mizhir
S501-S511	Phytoplankton responses to Hypolimnetic Aeration in Lake Naukuchiyatal, Central Himalaya, Uttarakhand —Mamta Pant, Pragya Singh and P.K. Gupta
S512-S516	Cashew area mapping using Sentinel-2 in Ariyalur District of Tamil Nadu, India —Sabthapathy M., Ragunath Kaliaperumal, Pazhanivelan S., Velmurugan S., Sudarmanian N.S. and Thirumeninathan S
S517-S522	Paddy area estimation in Cauvery Delta Region Using Synthetic Aperture Radar —R. Tamilmounika, S. Pazhanivelan, K.P. Ragunath, A.P. Sivamurugan, N.S. Sudarmanian, R. Kumaraperumal and S. Thirumeninathan
S523-S528	Estimation of Summer Paddy Area using Sentinel-2A Satellite data —P. Ashok Kumar, K. Sivakumar, S. Pazhanivelan, K.P. Ragunath, N.S. Sudarmanian and S. Thirumeninathan
S529-S534	Mapping and Estimation of Water Spread Area in Manamelkudi block of Pudukkottai District using Sentinel-1A Data —D. Pandiya Kumar, Balaji Kannan, S. Panneerselvam, R. Kumaraperumal, S. Pazhanivelan, K.P. Ragunath, N.S. Sudarmanian and Venkatesan M.
S535-S540	Appraise a seed Treatment of Carbendazim 50% Wp against Sheath Blight Disease of Rice (Oryza sativa L.) —Ravindra, H, Narasimhamurthy H.B. and Balanagouda Patil
S541-S547	Plant growth and nutrient uptake of Green gram (Vigna radiata. L) under marine gypsum reclaimed sodic soil as influenced by foliar nutrition —P. Keerthana, S. Avudaithai, A. Alagesan and T. Thilagavathi
S548-S553	Feasibility of using drone for foliar spraying of nutrients in irrigated green gram (Vigna radiata L.) —K. Dayana, T. Ramesh, S. Avudaithai, S. Paul Sebastian and S. Rathika
S554-S558	Oviposition preference of Fall armyworm Spodoptera frugiperda (Lepidoptera:Noctuidae) (J.E.Smith) among monocot and dicot plants —A. Lackisha Navin V.R. Saminathan, S. Sheeba Joyce Roseleen and Venugopal Rajanbabu
S559-S564	Growth and yield response of cowpea (Vigna unguiculata L.) in sodic soil amended with marine gypsum, biochar and bioinoculants —T. Ravi Teja, A. Alagesan, S. Avudaithai, J. Ejilane and S. Paul Sebastian
S565–S570	Effect of seed soaking duration on germination and other physiological parameters of Caston (Ricinus communis L.) —Nithyadevi, G., Jerlin, R., Thirusendura Selvi, D. and Thiyagarajan, R.
S571–S573	Elucidation of biosynthetic pathway for plant bioactives from aerial portion of Green Chireta (Andrographis paniculata Nees.) —M.S. Swetha, S. Haripriya, A. Lakshmanan and Z. John Kennedy

S574–S581	Ecofriendly management of Coconut Rhinoceros Beetle Grubs, Oryctes Rhinoce roslinnaeus (Scarabaeidae: Coleoptera) using Botanical Extracts under Laboratory Condition —K. Manivasagam, M. Muthuswami, T. Srinivasan and K.K. Kumar
S582-S585	Comparative study of epiphytic and endophytic bacteria associated with seeds of Zea mays L. —Abarna Ravichandran, Kalaiselvi Thangavel and Anandham Rangasamy
S586-S596	Anticancer effect of Citrullus colocynthis and Capparis spinosa against human Cervix and Hepatocellular cancer cell lines —Haifa Abdulaziz S. Alhaithloul, Mohamed A. Abdein and Nabil S. Awad
S597-S600	Fish Cultivation: an Empirical Analysis of Poverty Eradication of Jhumias in Gomati District of Tripura, India —Suman Kalyan Chaudhury and Sukanta Sarkar
S601-S606	Formulation and Evaluation Granul Effervescent of Catechin from Gambier (Uncaria gambier (Hunter) Roxb) —Henni Rosaini, Yoky Elfadri, Indra Makmur, Wahyu Margi Sidoretno, Auzal Halim and Rina Desni Yetti
S607-S610	Influence of Spacing in Cut Chrysanthemum under Aeroponics system —Mangaiyarkarasi R., P. Aruna, M. Jawaharlal, C.N. Chandrasekhar, S. Panneerselvam and K. Kumutha
S611-S616	Comprehending landslides from the Locals of landslide vulnerable villages: A general field observation —Shikha Subba
S617-S621	Importance of Natural Plants in Human Health —Samai Ibtissem, Remita Feriel, Bekkouche Assia, Chalane Fatiha, Amri Naziha and Nebbache Saloua
S622-S628	Phosphorus transformation in root zone environment under semi tropical agro ecosystem in sandy clay loam soil —K. Kalaiselvi, D. Jayanthi and B. Gokila