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Indian Journal of Natural Sciences (IJONS)

Volume 2 CODEN:		December 2020 SN: 0976 - 0997
S. No.	CONTENTS	Page No.
	Editorial	
01	Modeling of Disease through Discrete Time Models R. Sivaraman	28300-28303
02	Various Call Signal and Body Posture in Red-vented Bulbul (<i>Pycnonotus caj</i> at Udaipur District, Rajasthan, India Nadim Chishty, Rehana Parveen, Narayan Lal Choudhary, Pritesh Patel and Pushkar Kumawat	28304-28309
03	Sensible Energy Meter N.Vellachi, VE.Jayanthi and E.Chandrasekhar	28310-28314
04	Are Mothers Shaping or Shaking the Lives of Daughters? A Study of Sel Novels of Manju Kapur. A.Visva Sangeetha and A.Muthu Meena Losini	ect 28315-28318
05	Cordia sebestena Linn: Pharmacognostic Standardization and Phytochemi Studies of its Leaves Karthikeyan V, Senniappan P, Janarthanan L and Loganathan J	cal 28319-28327
06	Development of a Prototype for Ion Beam Diagnostic G.K.Sahu, P.K. Rath, D.Das, H.Pai and N.N.Deshmukh	28328-28330
07	Clinical Characteristics of Novel Coronavirus and Its Impacts R. Venkatesh, L. Vadivel Kannan and K. Jeyalakshmi	28331-28335
08	An Introduction to Prime Topology along with the Concept of COVID-19 a Separation Axioms Chinnadurai .V and Sindhu M.P	nd 28336-28345
09	Analysis of Renal Stone Struvite Crystal and Evaluation of Antiurolithia Activity of Methanolic Leaf Extract of <i>Citrus maxima</i> Merr. Surya.S, Naga krithika.N and Priscilla Suresh	28346-28354
10	Signal Source Separation using PCA-ICA Method from Real Time General Signal Sudhansu Kumar Samal, Anjan Kumar Sahoo and Anshuman Nayak	zed 28355-28362
11	Agricultural Waste as a Sustainable Source for 2G-Bioethanol Production Future Prospects and Challenges Jyoti Gupta, Anjali Shukla, Kiransinh Rajput and Rakeshkumar Panchal	on: 28363-28376
12	Stirling's Numbers and Matrices R. Sivaraman*	28377-28382
13	Production of a Herbal Wine from <i>Aloe vera</i> Gel and its Antimicrobial Activi Ruffina.D, John Bastin.T.M.M, Ramanathan.K and Sudhakar.S	ty 28383-28388
14	An Overview of Slope Monitoring Techniques in Opencast Mines Arun Kumar Sahoo and Jitendra Pramanik	28389-28394
15	Pharmacognostic Standardization and Phytochemical Studies of <i>Physic minima</i> Leaves Senniappan P, Karthikeyan V, Janarthanan L, Loganathan J and Sathiyabal G	

16	One-Pot Synthesis, Spectral Characterization, Antibacterial, Antifungal Studies of New Schiff Base Fe(III) Complex C. Veeravel, K. Rajasekar, S. Balasubramanian and R. Selvarani	28403-28407
17	Isolation and Biochemical Composition of the Filamentous Algae Collected from Tamil Nadu Swetha.G, Vasugi.V, Sandhya.P and Jegan.G	28408-28416
18	Adaptive LMS-Filtering to Remove the Outliers from the Power System using Dymola Sudhansu Kumar Samal, Anshuman Nayak and Anjan Kumar Sahoo	28417-28423
19	Pharmacognostic Standardization and Phytochemical Studies of <i>Coelogyne breviscapa</i> Lindl Leaves Janarthanan L, Karthikeyan V, Senniappan P and Loganathan J	28424-28431
20	In-vitro Hepatoprotective Activity of Notonia grandiflora Wall. On Ethanol-Induced Oxidative Damage in HEPG2 Cells Meera Paul, R.Sanilkumar and Sabu M.C	28432-28440
21	Soft Template Mediated Approach towards PbS Nanoparticles and Application Ashish Kumar Sahoo	28441-28448
22	Phytochemical Evaluation and Antioxidant Activity of Selected Medicinal Plant <i>Terminalia bellerica</i> P. Venkatachalam and C.V Chittibabu	28449-28445
23	Performance Analysis of Variable Compression Ratio Diesel Engine using Kusum Biodiesel Manas Ranjan Padhi	28446-28460
24	Effect of Myofascial Release on Flexibility Sam Thamburaj.A, Prabhakaradoss.D, Rajan Samuel.A, Murali Sankar.KSI and Arul.B	28461-28465
25	Effect of Matrix Rhythm Therapy on Pain and Disability of Patients with Adhesive Capsulitis Rajan Samuel A, Sam Thamburaj A and Prabhakaradoss D	28466-28471
26	Impacts of Structural and Optical Properties of FeWO ₄ Nanoparticles in the Photocatalytic Degradation of Rhodamine-B Dye under Solar Light. Tamilarasi and K.Balakrishnan	28472-28480
27	Utilization of Plastic Waste for Paver Blocks Monalisha Pani and Chiranjeeb Prasad Mohanty	28481-28484
28	Assessment of Antioxidant Activity of Garcinol Derived from <i>Garcinia xanthochymus</i> Hook. f. Gogoi Nabajyoti, Gogoi Ankur, Neog Bijoy and Baruah Dibyojyoti	28485-28491
29	A Review on Multi Dimensional uses of <i>Bauhinia variegata</i> Plant Somalika Pradhan	28492-28497
30	Biochemical Constituents of Microalgae and Filamentous Algae Collected from Chennai Vijayalakshmi R, KokilaV, Deebiga S and Jegan G	28498-28506
31	Development of Analytical Method and Validation for Nadolol in Pure and Pharmaceutical Formulations using UV-Spectrophotometry and Spectrofluorimetry using Sodium Hydroxide Anandha Jothi.D, Arun.R and Anton Smith.A	28507-28516

32	Haematological Assessment of Some Fishes of Pradhanpat Waterfall, Deogarh, Odisha - A Review Sagarika Mishra and Siba Prasad Parida	28517-28525
33	Correlation between Blood Glucose, HbA1c and Serum Lipid Levels in Non-Insulin Dependent Diabetes Mellitus (NIDDM) Patients Gopika R, Senthilkumar G, Karthy E.S and Panneerselvam A	28526-28532
34	Application of Trigonometry to Science and Engineering Sasmita Jena	28533-28536
35	Simulation of an Electrostatic Mirror G. K. Sahu, P. K. Rath, D. Das, H. Pai and N. N.Deshmukh	28537-28539
36	Biosynthesis and Characterization of Silver Nanoparticles from <i>Boerhavia diffusa</i> L. and their Anti-oxidant and Anti- cancer Activity in Human Cervical Cancer Cells Delpiya. R, Priscilla Suresh and Jasmine Maria James	28540-28548
37	Phytochemical Constituents of <i>Hibiscus rosa-sinensis, Laurus nobilis</i> and <i>Psidium guajava</i> Leaves and their Antimicrobial Activity Shalini Sehgal, Pragyan Khanna and Roshanlal Yadav	28549-28557
38	A Review for the Neutron Production using Ion Beam from Accelerator G. K. Sahu, P. K. Rath, N. N. Deshmukh and M. Mishra	28558-28560
39	Comparative Study on Antibacterial Activity of Commercially Available Honey with Locally Obtained Honey Kokila M, Ganesh P, Parkavi S, Balalakshitha M and Vigneshwari J	28561-28565
40	Thermal Behaviour, NLO Investigation and Antimicrobial Activity of L-Alanine doped Ethylene Diamine Tetra Acetate Composite Crystals M. Joice Malini, R. Kunjitham, M.K. Sangeetha and S.Ramalingam	28566-28571
41	Development and Validation of Simple RP-HPLC Method for the Estimation of Imatinib Mesylate Senthil Kumar.V, Ajay Kumar.T.V, Krishnaprabha.N and Parthasarathy.V	28572-28579
42	Clinical Profile and Outcome of Chronic Kidney Disease in a Tertiary Care Hospital, Salem Nivetha S R, Balasubramanian Arul and Ramalingam Kothai	28580-28585
43	An Exploratory Journey from Artificial Intelligence to Augmented Intelligence – A Bird's Eye View of Few Contemporary Technologies M S Chelva and Jitendra Pramanik	28586-28592
44	Acute and Subacute Toxicity Studies of Ethanolic Extract of Leaves of <i>Dichrostachys cinerea</i> Wight & Arn R. Kothai, B. Arul and E. Manivannan	28593-28600
45	Spatiotemporal Variation of Air Pollutants during COVID–19 Lockdown Over Andhra Pradesh, India M.C.Ajay Kumar, P. Vinay Kumar and P. Venkateswara Rao	28601-28610

Editorial



Biodiversity encompasses the variety of ecosystems, species and genetic resources, and mountains have many endemic varieties. The differentiated topography in terms of altitude, slope and exposure in mountains offers opportunities to grow a variety of high-value crops, horticulture, livestock and forest species. Mountains loom large in some of the world's most spectacular landscapes. Their unique topography, compressed climatic zones and isolation have created the conditions for a wide spectrum of life forms. Mountain glaciers are losing their glaciers at

an unprecedented rate. Snow depth in high mountains is expected to decrease by 10 to 40 per cent between 2031 and 2050. Mountains are home to stunning biodiversity. Mountain regions host more than a quarter of terrestrial plants and animals and 30 per cent of key biodiversity areas on land. At a time of accelerating climate change and land degradation, this year's observance of International Mountain Day highlights these threats and the importance of mountain ecosystems.

Mountains must move to the centre of our attention and it is time to move mountains to secure the changes we need to secure the health of our planet and to build a sustainable future for all. Mountain biodiversity is the theme of this year's International Mountain Day, so let's celebrate their rich biodiversity, as well as address the threats they face. Mountain wildlife is also at risk. Snow leopards in Central Asia, mountain gorillas in Virunga, Royal Bengal tigers in Bhutan and other species are affected by changes to wider ecosystems and human uses of the landscape that could, in turn, lead to further encroachment into remote and high-altitude areas and increased human-wildlife conflict. The United Nations General Assembly has declared 2021 – 2030 the Decade on Ecosystem Restoration. And the United Nations continues to work with local and national partners to protect mountain ecosystems and species and to promote mountain products. Nearly 70% of mountain land is used for grazing and provides manure that enhances soil fertility. Livestock not only produces food items such as milk, butter and meat, but also valuable by-products, such as some of the most precious yarns, like cashmere wool.

However, climate change, unsustainable farming practices, commercial mining, logging, and poaching all exact a heavy toll on mountain biodiversity. In addition, land use and land cover change, and natural disasters, accelerate biodiversity loss and contribute to creating a fragile environment for mountain communities. Ecosystem degradation, loss of livelihoods and migration in mountains can lead to the abandonment of cultural practices and ancient traditions that have sustained biodiversity for generations. The sustainable management of mountain biodiversity has been increasingly recognized as a global priority. Sustainable Development Goal 15, target four, is dedicated to the conservation of mountains' biodiversity in consideration of its global relevance.

Celebrate and create awareness attention of this International Mountain Day 2020 with our community and friends preparing an event or joining the conversation of the biodiversity in the mountains near by you.

Vijikumar.S

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