

## Editorial

We have now entered the new year and also have carried forward a new variant of the covid virus. It appears that the virus is playing a relay game—one over (delta minimised) and a new one (Omicron) appeared! There were interesting dialogue about the name conferred by WHO on the new variant: Delta is followed by two other alphabets but both of them—Nu and Xi may be misconstrued to their nationality and hence were dropped. I wonder how many more variants are waiting to come and how WHO plans to name them anyway! Luckily it does not appear to be a very blood sucking variant almost like a gentleman virus with minimal invasion but the global numbers are spiralling just the same way as other earlier variants and this has caused an economic set back to global community as they were all hoping to have come out of long drawn downslide for all economies—a new restriction is now in place but due to selective vaccine availability, the world is seeing a lopsided up turn in numbers and rich nations are stocking up the available shots while one nation even is planning to have a fourth doze.

The age of dinosaurs have now been pushed back by a few million years due to the discovery of some fossils in unlikely places and thus reopening the pandora box of animal succession, extinction and evolution. Climate in the meantime continues to change with devastating unusual floods. In December southern Indian states due to the inability of weather pundits to predict monsoon behaviour with a greater precision which is required for minimising management related approach, bore the heavy brunt of the weather Gods!

Have a happy reading!



(V. Subramanian)  
Editor-in-Chief

January 7, 2022

Snapshot 1



The Next Wave: Empowering Global Change  
(See Environment News Futures)

Snapshot 2



First ever true millipede with over 1,000 feet found in Australia  
(See Environment News Futures)

# Contents

<i>Editorial</i>	i
❑ <i>Snapshots</i>	ii
Content Estimation of Heavy Metals and Arsenic in Waters and Soils of the Unal Tailings Pond <i>Vadim Ermakov, Alexander Degtyarev, Vladimir Safonov, Uliana Gulyaeva, Sergey Tyutikov and Valentina Danilova</i>	1
Reverse Micellar Extraction of Copper Ions from Wastewater: Modelling and Simulation <i>Tarun Kumar Chaturvedi, Prabhat Pandit, Sushant Upadhyaya and Manish Vashishtha</i>	9
Air Pollution: A Study of Its Concept, Causes, Sources and Effects <i>Suaad Hadi Hassan Al-Taai and Waleed Abood Mohammed al-Dulaimi</i>	17
Implementation of Renewable Energy Indicators to Manage Water Supply Resources <i>Ismail Husein, A. Surendar, Marsel Kadyrov, Alireza Heidary, Mohsen Mortazavi and Marischa Elveny</i>	23
Evaluation and Correlation Analysis of Surface Water In and Around Mangalore Coastal Belt, Karnataka, India <i>Kiran, D.A and Ramaraju, H.K.</i>	27
Utilization of Seawater in the Pretreatment and Saccharification of Seaweed <i>Binita Dev, Vivek Kambhampati and P. Balasubramanian</i>	33
Evaluating the Efficiency of the Classifier Method When Analysing the Sales Data of Agricultural Products <i>Yuxin Wang, Svetlana Avdeenko and Yuriy Shmidt</i>	41
Analysing the Changes in Water Quality of River Ganga Passing Through Urban Cities with Remote Sensing and GIS Support <i>Kamakshi Singh and Ramakar Jha</i>	47
Prediction of Fractures and Cracks to Improve the Drilling Operations <i>Saade Abdalkareem Jasim, Khaldoon T. Falih, Ahmed Kateb Jumaah Al-Nssairi, Ola Kamal A. Alkadir, Yasser Fakri Mustafa and Li Yang</i>	59
Zero-valent Iron Loaded Activated Carbon Nanocomposites for Photocatalytic Degradation of Potassium Dichromate <i>Md. Ahmaruzzaman</i>	67
Modeling the Effect of Magnesia Nanoparticles on CO Hydrogenation to Light Olefins in a Continuous Flow Reactor Using Fine Gaussian Support Vector Machine <i>Alyaa K. Mageed, Mohamed A. Abdel Ghany, May Ali Alsaffar and Jamal M. Ali</i>	73
Assessment and Appraisal of Morning Peak Time Urban Road Traffic Noise at Selected Locations of Major Arterial Roads of Surat City, India <i>Ramesh B. Ranpise and B.N. Tandel</i>	81
Study The Suitability of Water Quality For Agricultural Uses In Al- Diwaniyah Governorate in Iraq <i>Rana Abd Al-Hadi Mukheef, Alaa Adnan Obayes and Zainab Ali Omran</i>	87
<i>Environment News Futures</i>	93

## **Announcement**

In view of the overwhelming response from contributors across various countries, we have decided to add on another two issues in 2022. We hope you will appreciate and find the Journal more useful and interesting.