## Editorial

The world is not going through a smooth phase now what with war clouds over middle east and ongoing conflict in Ukraine. No safe place to travel in addition to extreme air pollution scene over north India and even in far away coastal city Mumbai. Apart from these disturbing happenings, COP 28 will be held to address climate related questions ongoing for many years now without concrete implementable plan of action by all nations. Already globe is expected to reach the target of global mean temperature a few decades earlier than expected, may be even as soon as 2030-2050. Not a good sign for the emerging population.

It is surprising two distant locations - Iceland and Japan have become active for volcano - Earth still wants some action and will not call it a day till it is satisfied with man's ability to limit anthrobased causes for climate change.

In the middle east conflict there is a meeting ground for politics, economics, climate disaster and human suffering - not a comfortable combo of things to hear or see; hope better sense will prevail.

Happy reading!

November 16, 2023

(V. Subramanian)

Editor-in-Chief

## Environmental change threatens what's left of Japan's cormorant fishing legacy



A cormorant belonging to cormorant fishing master or usho Youichiro Adachi, 48, swims to catch ayu river fish on the Nagara River in Oze, Seki, Japan.

September 8, 2023 - REUTERS/Kim Kyung-Hoon

Snapshot 2

## How an undersea volcanic eruption led to a fascinating event



Recently, in October 2023, an undersea volcano eruption led to the creation of a new island near Japan's Ogaswara island chain. Reportedly, this is one of those rare events that gives a glimpse into how nature works and how such islands are created due to Earth's geology and seismic activity.

## **Contents**

Editorial	i
□ Snapshots	ii
Governance Concepts, Frameworks and Lake Governance's Conceptualisation	
Bing Baltazar C. Brillo	1
Heavy Metal Contamination of Medicinal Plants in India – A Perspective	_
Suman Rani and Rama Sisodia	9
Evaluation of Groundwater Suitability for Drinking Purposes Using GIS and WQI in Chikkaballapura Taluk, Karnataka, India	
Sridhara Malur Krishnappa, Sadashivaiah Channabasavaiah	
and Kiran Dasalukunte Ananda	19
Enhanced High Activity for Removal and Adsorption Process of Cationic Dye by Using Active Nanocomposite Surface: Reactivation and Isotherm Models	
Aseel M. Aljeboree and Ayad F. Alkaim	29
Application of Ultra Fine Bubbles for Deoxygenation of Produced Water and Tap Water via Nitrogen Purging Scheme	
Wameath S. Abdul-Majeed, Salam K. Al-Dawery, Saada Al Shukaili,	
Chandramouli Thotireddy and Ibrahim Al Amri	37
Hydrolysis of Fruit Waste to Reduce Sugars Using Sulphonated Magnetic Carbonaceous Catalyst	
Hemalatha Manivannan, Brinda Lakshmi Anguraj and G. Venkatesan	45
Wastewater Treatment by Improving the Local Clay Capacity with Chemical and Thermal Activation	
Nourelhouda Babaami, Ammar Zobeidi, Louiza Zenkheri	
Souheyla Boudjema, Ghania Ben Azia and Ahlem Benhania	53
Long Range (LoRa) and Alert Network System for Forest Fire Prediction	
S. Kavitha, K. Kanchana and G. Venkatesan	61
Kinetic, Isotherm, and Thermodynamic Modeling of Pb(II) Heavy Metals Removal from Aqueous Solutions Using Hydrogel-MWCNTs Nanocomposites	
Zainab R. Maktof and Nadher D. Radia	67
Utilisation of Clamshell Waste for Removing Mercury From Water: Fixed Bed Adsorption and Modelling Studies	
S. Baskar, K.R. Aswin Sidhaarth and L. Mangaleshwaran	77
Characterising and Analysing the Composition and Characteristics of Municipal Solid Waste (MSW) in Delhi, India	
Sumant Shekhar, Manoj Chandra Garg, Vinod Kumar Verma and Tanu Jindal	87
Environment News Futures	95