

## Preface

### Exploring Diverse Perspectives in Earth Sciences

Welcome to final issue of 2023 of *JOURNAL OF GEOINTERFACE*. The authors and the valued audience of the journal will notice a complete makeover, which aligns with contemporary trends in STEM typesetting worldwide. Each article is set in double column, with hyperlinking of citations, references, figures and tables, as well as enabling of tool tip pop-ups for figures and tables. These are value-added services aimed at enhancing the credibility of articles as well as of the journal.

In this volume we present a collection of nine papers that delve into various aspects of Earth sciences, offering insights into intriguing phenomena and critical environmental challenges. These contributions span a wide spectrum of topics, showcasing the depth and breadth of research within the Earth and Environmental Sciences.

1. **Hydrogen Emanations from SCSDs:** *King and Esposito* revisit previous studies on hydrogen emanations from semi-circular, shallow depressions (SCSDs) globally, proposing a new hydrogen-emitting area in southern Belize.
2. **Terrane Boundary Shear Zone in EGMB:** *Singh et al.* investigate the NE-SW trending Mesoproterozoic Eastern Ghats Mobile Belt (EGMB) and its Terrane Boundary Shear Zone, unraveling the shear kinematics on the NW and N margins.
3. **Siliciclastics and Carbonates:** *Chakroborthy* dwells on sedimentology, and challenges the traditional separation of siliciclastics and carbonates, focusing on the mixing mechanisms in heterolithic settings with implications for hydrocarbon exploration.
4. **Kallar Aquifer System:** *Chandran et al.* explore the hydrogeological complexities of the Kallar Aquifer System in Tamil Nadu, India, addressing challenges related to low aquifer yields, sustainability, and contamination issues.
5. **Gundar River Basin Aquifer Geometry:** *Mohanty et al.* employs geophysical data to define hydrostratigraphic units and aquifer geometry in the Gundar river basin of Tamil Nadu, providing insights for sustainable groundwater development.
6. **Flood Simulation in Cuttack City:** *Sahoo et al.* utilize high-resolution data for flood simulation in parts of Cuttack City, offering valuable insights to minimize damage during flooding.
7. **Copper Mineralization in India:** *Sahoo and Khan* review major copper deposits in India, emphasizing geological characteristics and economic implications, aiming to contribute to global knowledge exchange.
8. **Impact of Devotional Music on Crop Growth:** *Sharan et al.* explore the impact of devotional music on Mung bean crop growth, revealing significant improvements in germination, vegetative, and reproductive parameters.
9. **Mining Impact on Land Use and Land Cover:** *Sahu et al.* investigate the impact of mineral mining on land use and land cover in the Balda village of Barbil tehsil, Keonjhar district, Odisha, emphasizing the need for sustainable practices.

Each paper in this collection offers valuable contributions to the understanding of Earth's processes, from geological phenomena to environmental impacts. We hope this compilation inspires further exploration and discussion within the scientific community.

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JOURNAL OF GEOINTERFACE