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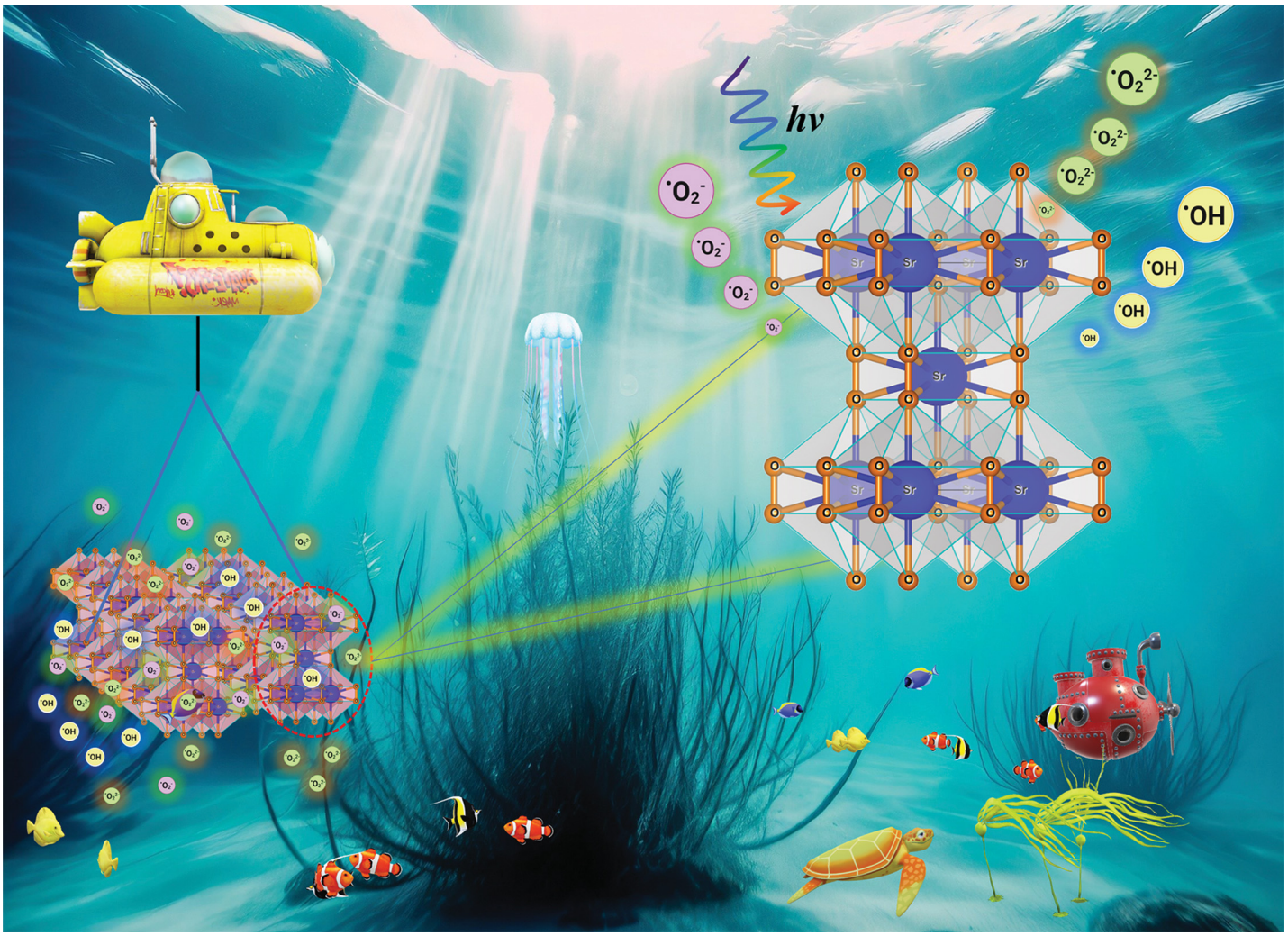


**Showcasing research from Professor Vijayaraghavan's laboratory, Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology, Vellore, India**

Strontium peroxide as a potential photocatalyst: rapid degradation of organic and pharmaceutical pollutants

The generation of Reactive Oxygen Species (ROS) is crucial for effective and sustainable decontamination of environmental pollutants. Inorganic oxide materials such as $TiO_2$, ZnO have been extensively studied for environmental remediation, that operate through photogenerated Reactive Oxygen Species to decontaminate wastewater. However, inorganic solid oxidants such as metal peroxides capable of generating ROS in aqueous solutions have not been studied for environmental remediation. Towards this objective, we have synthesized metal peroxides and employed these as chemical sources of ROS in aqueous suspensions in addition to their photochemical generation.

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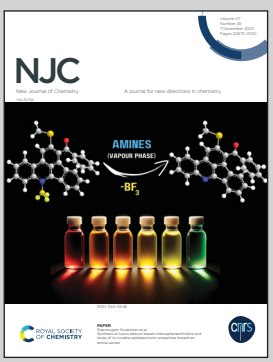


See Dhakshnamoorthi Harikaran and Vijayaraghavan R., *New J. Chem.*, 2023, **47**, 20733.

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