

International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 2, Issue 7, January 2022

## **Investigating the Catalytic Properties of Metal-Organic Frameworks (MOFs) for CO2 Conversion**

Miss. Rafat Sabir Chafekar

Department of Chemistry

M. M. Jagtap College of Arts, Science and Commerce, Mahad-Raigad, Maharashtra, India

**Abstract:** Metal-organic frameworks (MOFs) have garnered significant attention as versatile materials in catalysis due to their high surface areas and tenable pore structures. In this study, we focus on exploring the potential of MOFs containing transition metal nodes for the conversion of carbon dioxide (CO2) into value-added chemicals. An abstract like this provides a concise overview of the research objectives, methodology, key findings, and implications of a study in inorganic chemistry, specifically focusing on the catalytic properties of metal-organic frameworks for CO2 conversion



**Keywords:** Catalysis, CO2 Conversion, Electrochemical Reduction, Transition Metals, Format Production, In-situ spectroscopy, Computational Simulations.



Copyright to IJARSCT www.ijarsct.co.in