

# Udit Surya Mohanty

## List of Publications by Year in descending order

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15  
papers

630  
citations

623734

14  
h-index

996975

15  
g-index

15  
all docs

15  
docs citations

15  
times ranked

399  
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental Friendliness and High Performance of Multifunctional Tween 80/ZnO-Nanoparticles-Added Water-Based Drilling Fluid: An Experimental Approach. ACS Sustainable Chemistry and Engineering, 2020, 8, 11224-11243.	6.7	87
2	Current advances in syngas (CO + H <sub>2</sub> ) production through bi-reforming of methane using various catalysts: A review. International Journal of Hydrogen Energy, 2021, 46, 32809-32845.	7.1	85
3	Electrochemical corrosion behaviour of Pb-free Sn <sup>8.5</sup> Zn <sup>0.05</sup> Al <sup>X</sup> Ga and Sn <sup>3</sup> Ag <sup>0.5</sup> Cu alloys in chloride containing aqueous solution. Corrosion Science, 2008, 50, 2437-2443.	6.6	72
4	Influence of Cryogenic Liquid Nitrogen on Petro-Physical Characteristics of Mancos Shale: An Experimental Investigation. Energy & Fuels, 2020, 34, 2160-2168.	5.1	69
5	Electrochemical corrosion behaviour of lead-free Sn <sup>8.5</sup> Zn <sup>X</sup> Ag <sup>0.1</sup> Al <sup>0.5</sup> Ga solder in 3.5% NaCl solution. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 406, 34-42.	5.6	58
6	Morphological and petro physical estimation of Eocene tight carbonate formation cracking by cryogenic liquid nitrogen; a case study of Lower Indus basin, Pakistan. Journal of Petroleum Science and Engineering, 2020, 192, 107318.	4.2	49
7	Effect of Cryogenic Liquid Nitrogen on the Morphological and Petrophysical Characteristics of Tight Gas Sandstone Rocks from Kirthar Fold Belt, Indus Basin, Pakistan. Energy & Fuels, 2020, 34, 14548-14559.	5.1	43
8	Effect of Al on the electrochemical corrosion behaviour of Pb free Sn <sup>8.5</sup> Zn <sup>0.5</sup> Ag <sup>X</sup> Al <sup>0.5</sup> Ga solder in 3.5% NaCl solution. Applied Surface Science, 2006, 252, 5907-5916.	6.1	36
9	Corrosion Behavior of Pb-Free Sn-1Ag-0.5Cu-XNi Solder Alloys in 3.5% NaCl Solution. Journal of Electronic Materials, 2013, 42, 628-638.	2.2	25
10	Influence of cryogenic liquid nitrogen cooling and thermal shocks on petro-physical and morphological characteristics of Eagle Ford shale. Journal of Natural Gas Science and Engineering, 2021, 96, 104313.	4.4	24
11	Physicochemical Characterization of Zirconia Nanoparticle-Based Sodium Alginate Polymer Suspension for Enhanced Oil Recovery. Energy & Fuels, 2021, 35, 19389-19398.	5.1	24
12	The polarization characteristics of Pb-free Sn <sup>8.5</sup> Zn <sup>X</sup> Ag <sup>0.1</sup> Al <sup>0.05</sup> Ga alloy in 3.5% NaCl solution. Corrosion Science, 2007, 49, 2815-2831.	6.6	20
13	Potentiodynamic Polarization Measurement of Sn <sup>8.5</sup> Zn <sup>X</sup> Al <sup>0.5</sup> Ga Alloy in 3.5% NaCl Solution. Journal of the Electrochemical Society, 2006, 153, B319.	2.9	19
14	Electrochemical corrosion study of Sn <sup>X</sup> Ag <sup>0.5</sup> Cu alloys in 3.5% NaCl solution. Journal of Materials Research, 2007, 22, 2573-2581.	2.6	15
15	Analysis of Mancos Shale gas production scenarios under various stress mechanisms. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	4