

Ayman E Elkholy

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

981
citations

471509

17
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

1019
citing authors

#	ARTICLE	IF	CITATIONS
1	Gemini surfactants as corrosion inhibitors for carbon steel. <i>Journal of Molecular Liquids</i> , 2017, 230, 395-407.	4.9	143
2	A facile electrosynthesis approach of amorphous Mn-Co-Fe ternary hydroxides as binder-free active electrode materials for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2019, 296, 59-68.	5.2	128
3	Nanostructured spinel manganese cobalt ferrite for high-performance supercapacitors. <i>RSC Advances</i> , 2017, 7, 51888-51895.	3.6	98
4	Mesoporous Ni-Zn-Fe layered double hydroxide as an efficient binder-free electrode active material for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2020, 466, 228294.	7.8	96
5	Performance of <i>Centaurea cyanus</i> aqueous extract towards corrosion mitigation of carbon steel in saline formation water. <i>Desalination</i> , 2018, 425, 111-122.	8.2	73
6	Green approach towards corrosion inhibition of carbon steel in produced oilfield water using lemongrass extract. <i>RSC Advances</i> , 2017, 7, 45241-45251.	3.6	69
7	Synthesis and assessment of new cationic gemini surfactants as inhibitors for carbon steel corrosion in oilfield water. <i>RSC Advances</i> , 2017, 7, 47335-47352.	3.6	65
8	Monte Carlo simulation for guar and xanthan gums as green scale inhibitors. <i>Journal of Petroleum Science and Engineering</i> , 2018, 166, 263-273.	4.2	37
9	Synthesis, characterization and computational chemical study of novel pyrazole derivatives as anticorrosion and antiscalant agents. <i>Journal of Molecular Structure</i> , 2017, 1147, 714-724.	3.6	36
10	Mesoporous ZnMoS ₄ as a supercapacitor electrode material with battery-like behavior. <i>New Journal of Chemistry</i> , 2019, 43, 1987-1992.	2.8	35
11	Monte Carlo simulation for the antiscaling performance of Gemini ionic liquids. <i>Journal of Molecular Liquids</i> , 2019, 285, 408-415.	4.9	35
12	Characterization of newly synthesized pyrimidine derivatives for corrosion inhibition as inferred from computational chemical analysis. <i>Journal of Molecular Structure</i> , 2018, 1152, 328-336.	3.6	34
13	Enhancing lubricating oil properties using novel quinazolinone derivatives: DFT study and molecular dynamics simulation. <i>Journal of Molecular Structure</i> , 2019, 1175, 788-796.	3.6	31
14	Stable β -MoO ₃ Electrode with a Widened Electrochemical Potential Window for Aqueous Electrochemical Capacitors. <i>ACS Applied Energy Materials</i> , 2021, 4, 3210-3220.	5.1	27
15	Electrochemical measurements and semi-empirical calculations for understanding adsorption of novel cationic Gemini surfactant on carbon steel in H ₂ SO ₄ solution. <i>Journal of Molecular Structure</i> , 2018, 1156, 473-482.	3.6	25
16	Improving the electrocatalytic performance of Pd nanoparticles supported on indium/tin oxide substrates towards glucose oxidation. <i>Applied Catalysis A: General</i> , 2019, 580, 28-33.	4.3	23
17	Electrochemical and Quantum Chemical Studies on the Corrosion Inhibition Potential of <i>Camellia sinensis</i> Leaves Extract for Carbon Steel in Produced Water. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 232, 13-35.	2.8	19
18	Charge Storage Behaviour of β -MoO ₃ in Aqueous Electrolytes – Effect of Charge Density of Electrolyte Cations. <i>ChemElectroChem</i> , 2022, 9, .	3.4	5

#	ARTICLE	IF	CITATIONS
19	Smart coatings on magnesium alloys in transportation industries. , 2020, , 263-287.		1
20	Transformation of Spinel $Zn_2Mn_4O_8 \cdot H_2O$ to Layered $\gamma\text{-MnO}_2$ -Based Composite Nanosheets with Enhanced Capacitance in Aqueous Electrolyte. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000649.	1.8	1