

A Bahgat Radwan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

20
papers

475
citations

14
h-index

21
g-index

22
ext. papers

668
ext. citations

4.4
avg, IF

4.23
L-index

#	Paper	IF	Citations
20	Corrosion protection of electrospun PVDF/ZnO superhydrophobic coating. <i>Surface and Coatings Technology</i> , 2016 , 289, 136-143	4.4	68
19	AEO7 Surfactant as an Eco-Friendly Corrosion Inhibitor for Carbon Steel in HCl solution. <i>Scientific Reports</i> , 2019 , 9, 2319	4.9	53
18	Properties enhancement of Ni-P electrodeposited coatings by the incorporation of nanoscale Y2O3 particles. <i>Applied Surface Science</i> , 2018 , 457, 956-967	6.7	42
17	Highly efficient eco-friendly corrosion inhibitor for mild steel in 5 M HCl at elevated temperatures: experimental & molecular dynamics study. <i>Scientific Reports</i> , 2019 , 9, 3695	4.9	41
16	Multifunctional self-healing polymeric nanocomposite coatings for corrosion inhibition of steel. <i>Surface and Coatings Technology</i> , 2019 , 372, 121-133	4.4	39
15	Corrosion inhibition of API X120 steel in a highly aggressive medium using stearamidopropyl dimethylamine. <i>Journal of Molecular Liquids</i> , 2017 , 236, 220-231	6	35
14	Anti-corrosive and oil sensitive coatings based on epoxy/polyaniline/magnetite-clay composites through diazonium interfacial chemistry. <i>Scientific Reports</i> , 2018 , 8, 13369	4.9	27
13	Initiation and inhibition of pitting corrosion on reinforcing steel under natural corrosion conditions. <i>Materials Chemistry and Physics</i> , 2017 , 190, 79-95	4.4	26
12	Recent advances in corrosion resistant superhydrophobic coatings. <i>Corrosion Reviews</i> , 2018 , 36, 127-153	3.2	25
11	Electrochemical and thermodynamic study on the corrosion performance of API X120 steel in 3.5% NaCl solution. <i>Scientific Reports</i> , 2020 , 10, 4314	4.9	24
10	Synthesis and characterisation of NiB/NiB/CeO2 duplex composite coatings. <i>Journal of Applied Electrochemistry</i> , 2018 , 48, 391-404	2.6	23
9	New Electrospun Polystyrene/Al2O3 Nanocomposite Superhydrophobic Coatings; Synthesis, Characterization, and Application. <i>Coatings</i> , 2018 , 8, 65	2.9	22
8	Aluminum nitride (AlN) reinforced electrodeposited NiB nanocomposite coatings. <i>Ceramics International</i> , 2020 , 46, 9863-9871	5.1	16
7	Enhancing the corrosion resistance of reinforcing steel under aggressive operational conditions using behentrimonium chloride. <i>Scientific Reports</i> , 2019 , 9, 18115	4.9	14
6	Electrospun highly corrosion-resistant polystyrene/nickel oxide superhydrophobic nanocomposite coating. <i>Journal of Applied Electrochemistry</i> , 2021 , 51, 1605	2.6	7
5	The missing piece of the puzzle regarding the relation between the degree of superhydrophobicity and the corrosion resistance of superhydrophobic coatings. <i>Electrochemistry Communications</i> , 2018 , 91, 41-44	5.1	6
4	A review of bipolar plates materials and graphene coating degradation mechanism in proton exchange membrane fuel cell. <i>International Journal of Energy Research</i> ,	4.5	2

3	Superior Corrosion and UV-Resistant Highly Porous Poly(vinylidene fluoride-co-hexafluoropropylene)/alumina Superhydrophobic Coating. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 1358-1367	4.3	1
2	Evaluation of the Pitting Corrosion of Modified Martensitic Stainless Steel in CO2 Environment Using Point Defect Model. <i>Metals</i> , 2022 , 12, 233	2.3	1
1	Superior Non-Invasive Glucose Sensor Using Bimetallic CuNi Nanospecies Coated Mesoporous Carbon. <i>Biosensors</i> , 2021 , 11,	5.9	1