A Bahgat Radwan

List of Publications by Year
in descending order

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22 papers	878 citations	471371 17 h-index	677027 22 g-index
22 all docs	22 docs citations	22 times ranked	765 citing authors

#	Article	IF	Citations
1	Corrosion protection of electrospun PVDFâ€“ZnO superhydrophobic coating. Surface and Coatings Technology, 2016, 289, 136-143.	2.2	105
2	AEO7 Surfactant as an Eco-Friendly Corrosion Inhibitor for Carbon Steel in HCl solution. Scientific Reports, 2019, 9, 2319.	1.6	91
3	Highly efficient eco-friendly corrosion inhibitor for mild steel in 5â€‰M HCl at elevated temperatures: experimental & molecular dynamics study. Scientific Reports, 2019, 9, 3695.	1.6	77
4	Properties enhancement of Ni-P electrodeposited coatings by the incorporation of nanoscale Y2O3 particles. Applied Surface Science, 2018, 457, 956-967.	3.1	76
5	Multifunctional self-healing polymeric nanocomposite coatings for corrosion inhibition of steel. Surface and Coatings Technology, 2019, 372, 121-133.	2.2	74
6	Corrosion inhibition of API X120 steel in a highly aggressive medium using stearamidopropyl dimethylamine. Journal of Molecular Liquids, 2017, 236, 220-231.	2.3	49
7	Initiation and inhibition of pitting corrosion on reinforcing steel under natural corrosion conditions. Materials Chemistry and Physics, 2017, 190, 79-95.	2.0	48
8	Electrochemical and thermodynamic study on the corrosion performance of API X120 steel in 3.5% NaCl solution. Scientific Reports, 2020, 10, 4314.	1.6	46
9	Anti-corrosive and oil sensitive coatings based on epoxy/polyaniline/magnetite-clay composites through diazonium interfacial chemistry. Scientific Reports, 2018, 8, 13369.	1.6	37
10	Aluminum nitride (AlN) reinforced electrodeposited Niâ€“B nanocomposite coatings. Ceramics International, 2020, 46, 9863-9871.	2.3	34
11	Recent advances in corrosion resistant superhydrophobic coatings. Corrosion Reviews, 2018, 36, 127-153.	1.0	31
12	New Electrospun Polystyrene/Al2O3 Nanocomposite Superhydrophobic Coatings; Synthesis, Characterization, and Application. Coatings, 2018, 8, 65.	1.2	31
13	Synthesis and characterisation of Niâ€“B/Niâ€“Pâ€“CeO2 duplex composite coatings. Journal of Applied Electrochemistry, 2018, 48, 391-404.	1.5	29
14	Utilization of renewable hybrid energy for refueling station in Al-Kharj, Saudi Arabia. International Journal of Hydrogen Energy, 2022, 47, 22273-22284.	3.8	29
15	Electrospun highly corrosion-resistant polystyreneâ€“nickel oxide superhydrophobic nanocomposite coating. Journal of Applied Electrochemistry, 2021, 51, 1605-1618.	1.5	26
16	Heterogeneous Catalysts for Conversion of Biodiesel-Waste Glycerol into High-Added-Value Chemicals. Catalysts, 2022, 12, 767.	1.6	25
17	Enhancing the corrosion resistance of reinforcing steel under aggressive operational conditions using behentrimonium chloride. Scientific Reports, 2019, 9, 18115.	1.6	24
18	A review of bipolar plates materials and graphene coating degradation mechanism in proton exchange membrane fuel cell. International Journal of Energy Research, 2022, 46, 3766-3781.	2.2	16

#	Article	IF	Citations
19	Superior Corrosion and UV-Resistant Highly Porous Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (fluoride-<i:c Materials, 2022, 4, 1358-1367.	2.0	11
20	Superior Non-Invasive Glucose Sensor Using Bimetallic CuNi Nanospecies Coated Mesoporous Carbon. Biosensors, 2021, 11, 463.	2.3	8
21	The missing piece of the puzzle regarding the relation between the degree of superhydrophobicity and the corrosion resistance of superhydrophobic coatings. Electrochemistry Communications, 2018, 91, 41-44.	2.3	7
22	Evaluation of the Pitting Corrosion of Modified Martensitic Stainless Steel in CO2 Environment Using Point Defect Model. Metals, 2022, 12, 233.	1.0	4