Aboubakr Abdullah

List of Publications by Citations

145 papers	3,465 citations	31 h-index	52 g-index
167 ext. papers	4,561 ext. citations	4.7 avg, IF	5.96 L-index

#	Paper	IF	Citations
145	Corrosion behavior of superhydrophobic surfaces: A review. *Arabian Journal of Chemistry*, **2015**, 8, 749-765	5.9	301
144	An Interface Coassembly in Biliquid Phase: Toward Core-Shell Magnetic Mesoporous Silica Microspheres with Tunable Pore Size. *Journal of the American Chemical Society*, **2015**, 137, 13282-9	16.4	208
143	Electrostatic phase separation: A review. *Chemical Engineering Research and Design*, **2015**, 96, 177-195	5.5	143
142	Synthesis of Ordered Mesoporous Silica with Tunable Morphologies and Pore Sizes via a Nonpolar Solvent-Assisted St□ber Method. *Chemistry of Materials*, **2016**, 28, 2356-2362	9.6	131
141	Ultrahigh capacitive deionization performance by 3D interconnected MOF-derived nitrogen-doped carbon tubes. *Chemical Engineering Journal*, **2020**, 390, 124493	14.7	127
140	Review of recent research on biomedical applications of electrospun polymer nanofibers for improved wound healing. *Nanomedicine*, **2016**, 11, 715-37	5.6	121
139	Ultradispersed Palladium Nanoparticles in Three-Dimensional Dendritic Mesoporous Silica Nanospheres: Toward Active and Stable Heterogeneous Catalysts. *ACS Applied Materials & Interfaces*, **2015**, 7, 17450-9	9.5	92
138	Corrosion protection of electrospun PVDF□ZnO superhydrophobic coating. *Surface and Coatings Technology*, **2016**, 289, 136-143	4.4	68
137	Synthesis, characterization, and antimicrobial properties of novel double layer nanocomposite electrospun fibers for wound dressing applications. *International Journal of Nanomedicine*, **2017**, 12, 2205-2213	7.3	61
136	Carbon/nitrogen-doped TiO2: New synthesis route, characterization and application for phenol degradation. *Arabian Journal of Chemistry*, **2016**, 9, 229-237	5.9	58
135	Synthesis and electrochemical properties of nickel oxide/carbon nanofiber composites. *Carbon*, **2014**, 71, 276-283	10.4	54
134	Tuning the Intermolecular Electron Transfer of Low-Dimensional and Metal-Free BCN/C Electrocatalysts via Interfacial Defects for Efficient Hydrogen and Oxygen Electrochemistry. *Journal of the American Chemical Society*, **2021**, 143, 1203-1215	16.4	54
133	AEO7 Surfactant as an Eco-Friendly Corrosion Inhibitor for Carbon Steel in HCl solution. *Scientific Reports*, **2019**, 9, 2319	4.9	53
132	Recent advances in electroless-plated Ni-P and its composites for erosion and corrosion applications: a review. *Emergent Materials*, **2018**, 1, 3-24	3.5	52
131	Electrocoalescence of water drop trains in oil under constant and pulsatile electric fields. *Chemical Engineering Research and Design*, **2015**, 104, 658-668	5.5	45
130	Local supersaturation and the growth of protective scales during CO2 corrosion of steel: Effect of pH and solution flow. *Corrosion Science*, **2017**, 126, 26-36	6.8	44
129	Indentation and erosion behavior of electroless Ni-P coating on pipeline steel. *Wear*, **2017**, 376-377, 1630-1639	3.5	43

128	Properties enhancement of Ni-P electrodeposited coatings by the incorporation of nanoscale Y2O3 particles. *Applied Surface Science*, **2018**, 457, 956-967	6.7	42
127	Highly efficient eco-friendly corrosion inhibitor for mild steel in 5 M HCl at elevated temperatures: experimental & molecular dynamics study. *Scientific Reports*, **2019**, 9, 3695	4.9	41
126	Controlling the biocorrosion of sulfate-reducing bacteria (SRB) on carbon steel using ZnO/chitosan nanocomposite as an eco-friendly biocide. *Corrosion Science*, **2019**, 148, 397-406	6.8	40
125	Multifunctional self-healing polymeric nanocomposite coatings for corrosion inhibition of steel. *Surface and Coatings Technology*, **2019**, 372, 121-133	4.4	39
124	Current Trends in MXene-Based Nanomaterials for Energy Storage and Conversion System: A Mini Review. *Catalysts*, **2020**, 10, 495	4	39
123	Intergranular corrosion of copper in the presence of benzotriazole. *Scripta Materialia*, **2006**, 54, 1673-1677	5.6	37
122	Rational synthesis, characterization, and application of environmentally friendly (polymer□carbon dot) hybrid composite film for fast and efficient UV-assisted Cd2+ removal from water. *Environmental Sciences Europe*, **2020**, 32,	5	36
121	Corrosion inhibition of API X120 steel in a highly aggressive medium using stearamidopropyl dimethylamine. *Journal of Molecular Liquids*, **2017**, 236, 220-231	6	35
120	Rational Synthesis of Porous Graphitic-like Carbon Nitride Nanotubes Codoped with Au and Pd as an Efficient Catalyst for Carbon Monoxide Oxidation. *Langmuir*, **2019**, 35, 3421-3431	4	35
119	Synthesis of mesoporous carbons with controlled morphology and pore diameters from SBA-15 prepared through the microwave-assisted process and their CO2 adsorption capacity. *Microporous and Mesoporous Materials*, **2016**, 233, 44-52	5.3	35
118	Engineering graphitic carbon nitride (g-C3N4) for catalytic reduction of CO2 to fuels and chemicals: strategy and mechanism. *Green Chemistry*, **2021**, 23, 5394-5428	10	35
117	Fabrication of ZnO-Fe-MXene Based Nanocomposites for Efficient CO2 Reduction. *Catalysts*, **2020**, 10, 549	4	33
116	Unraveling template-free fabrication of carbon nitride nanorods codoped with Pt and Pd for efficient electrochemical and photoelectrochemical carbon monoxide oxidation at room temperature. *Nanoscale*, **2019**, 11, 11755-11764	7.7	32
115	Self-Healing Performance of Multifunctional Polymeric Smart Coatings. *Polymers*, **2019**, 11,	4.5	31
114	Rational synthesis of one-dimensional carbon nitride-based nanofibers atomically doped with Au/Pd for efficient carbon monoxide oxidation. *International Journal of Hydrogen Energy*, **2019**, 44, 17943-17953	6.7	31
113	Unveiling Fabrication and Environmental Remediation of MXene-Based Nanoarchitectures in Toxic Metals Removal from Wastewater: Strategy and Mechanism. *Nanomaterials*, **2020**, 10,	5.4	30
112	High electrocatalytic performance of nitrogen-doped carbon nanofiber-supported nickel oxide nanocomposite for methanol oxidation in alkaline medium. *Applied Surface Science*, **2017**, 401, 306-313	6.7	29
111	New anti-corrosion inhibitor (3ar,6ar)-3a,6a-di-p-tolyltetrahydroimidazo[4,5-d]imidazole-2,5(1□h,3h)-dithione for carbon steel in 1□M HCl medium: gravimetric, electrochemical, surface and quantum chemical analyses. *Arabian Journal of Chemistry*, **2020**, 13, 7504-7523	5.9	29

110	Platinum degradation mechanisms in proton exchange membrane fuel cell (PEMFC) system: A review. *International Journal of Hydrogen Energy*, **2021**, 46, 15850-15865	6.7	29
109	Enhanced photocatalytic degradation of a phenolic compounds□mixture using a highly efficient TiO2/reduced graphene oxide nanocomposite. *Journal of Materials Science*, **2016**, 51, 8331-8345	4.3	28
108	The Recent Advances in the Mechanical Properties of Self-Standing Two-Dimensional MXene-Based Nanostructures: Deep Insights into the Supercapacitor. *Nanomaterials*, **2020**, 10,	5.4	28
107	Unveiling One-Pot Template-Free Fabrication of Exquisite Multidimensional PtNi Multicube Nanoarchitectonics for the Efficient Electrochemical Oxidation of Ethanol and Methanol with a Great Tolerance for CO. *ACS Applied Materials & Interfaces*, **2020**, 12, 31309-31318	9.5	27
106	Precise fabrication of porous one-dimensional gC3N4 nanotubes doped with Pd and Cu atoms for efficient CO oxidation and CO2 reduction. *Inorganic Chemistry Communication*, **2019**, 107, 107460	3.1	27
105	Anti-corrosive and oil sensitive coatings based on epoxy/polyaniline/magnetite-clay composites through diazonium interfacial chemistry. *Scientific Reports*, **2018**, 8, 13369	4.9	27
104	Carbon dioxide adsorption based on porous materials.. *RSC Advances*, **2021**, 11, 12658-12681	3.7	27
103	Fabrication and investigation of the scratch and indentation behaviour of new generation Ni-P-nano-NiTi composite coating for oil and gas pipelines. *Wear*, **2019**, 426-427, 265-276	3.5	26
102	A gossypol derivative as an efficient corrosion inhibitor for St2 steel in 1□M HCl□+□1□M KCl: An experimental and theoretical investigation. *Journal of Molecular Liquids*, **2021**, 328, 115475	6	26
101	Recent advances in corrosion resistant superhydrophobic coatings. *Corrosion Reviews*, **2018**, 36, 127-153	3.2	25
100	Effect of load, temperature and humidity on the pH of the water drained out from H2/air polymer electrolyte membrane fuel cells. *Journal of Power Sources*, **2009**, 190, 264-270	8.9	25
99	Synthesis and properties of polyelectrolyte multilayered microcapsules reinforced smart coatings. *Journal of Materials Science*, **2019**, 54, 12079-12094	4.3	24
98	Electrochemical and thermodynamic study on the corrosion performance of API X120 steel in 3.5% NaCl solution. *Scientific Reports*, **2020**, 10, 4314	4.9	24
97	Indentation and bending behavior of electroless Ni-P-Ti composite coatings on pipeline steel. *Surface and Coatings Technology*, **2018**, 334, 243-252	4.4	24
96	Synthesis and characterisation of Ni□B/Ni□P□CeO2 duplex composite coatings. *Journal of Applied Electrochemistry*, **2018**, 48, 391-404	2.6	23
95	Analysis of partial electrocoalescence by Level-Set and finite element methods. *Chemical Engineering Research and Design*, **2016**, 114, 180-189	5.5	23
94	Kinetics of the electrochemical deposition of sulfur from sulfide polluted brines. *Journal of Applied Electrochemistry*, **2007**, 37, 395-404	2.6	23
93	New Electrospun Polystyrene/Al2O3 Nanocomposite Superhydrophobic Coatings; Synthesis, Characterization, and Application. *Coatings*, **2018**, 8, 65	2.9	22

92	Cerium Dioxide Nanoparticles as Smart Carriers for Self-Healing Coatings. *Nanomaterials*, **2020**, 10,	5.4	20
91	Temperature gradients measurements within a segmented H2/air PEM fuel cell. *Journal of Power Sources*, **2007**, 172, 209-214	8.9	20
90	Highly ordered nanoporous carbon films with tunable pore diameters and their excellent sensing properties. *Chemistry - A European Journal*, **2015**, 21, 697-703	4.8	19
89	Rational synthesis of three-dimensional core-double shell upconversion nanodendrites with ultrabright luminescence for bioimaging application. *Chemical Science*, **2019**, 10, 7591-7599	9.4	18
88	Investigation of fracture behavior of annealed electroless Ni-P coating on pipeline steel using acoustic emission methodology. *Surface and Coatings Technology*, **2017**, 326, 336-342	4.4	18
87	Effect of sulfide pollution on the stability of the protective film of benzotriazole on copper. *Applied Surface Science*, **2007**, 253, 8986-8991	6.7	18
86	Novel electroless deposited corrosion □resistant and anti-bacterial NiP□TiNi nanocomposite coatings. *Surface and Coatings Technology*, **2019**, 369, 323-333	4.4	17
85	Ecotoxicological Assessment of Thermally- and Hydrogen-Reduced Graphene Oxide/TiO□ Photocatalytic Nanocomposites Using the Zebrafish Embryo Model. *Nanomaterials*, **2019**, 9,	5.4	17
84	Effect of the graphene oxide reduction method on the photocatalytic and electrocatalytic activities of reduced graphene oxide/TiO2 composite. *RSC Advances*, **2015**, 5, 71988-71998	3.7	17
83	The Role of Oxygen on the Stability of Crevice Corrosion. *Journal of the Electrochemical Society*, **2002**, 149, B198	3.9	17
82	Synthesis, Characterization, and Application of Novel Ni-P-Carbon Nitride Nanocomposites. *Coatings*, **2018**, 8, 37	2.9	17
81	Effect of electroless bath composition on the mechanical, chemical, and electrochemical properties of new NiP□3N4 nanocomposite coatings. *Surface and Coatings Technology*, **2019**, 362, 239-251	4.4	16
80	Data on the catalytic CO oxidation and CO reduction durability on gCN nanotubes Co-doped atomically with Pd and Cu. *Data in Brief*, **2019**, 26, 104495	1.2	15
79	Synthesis and Characterization of Scratch-Resistant Ni-P-Ti-Based Composite Coating. *Tribology Transactions*, **2019**, 62, 880-896	1.8	15
78	An efficient eco advanced oxidation process for phenol mineralization using a 2D/3D nanocomposite photocatalyst and visible light irradiations. *Scientific Reports*, **2017**, 7, 9898	4.9	15
77	Improved self-healing performance of polymeric nanocomposites reinforced with talc nanoparticles (TNPs) and urea-formaldehyde microcapsules (UFMCs). *Arabian Journal of Chemistry*, **2021**, 14, 102926	5.9	15
76	Designing and performance evaluation of polyelectrolyte multilayered composite smart coatings. *Progress in Organic Coatings*, **2019**, 137, 105319	4.8	14
75	Unveiling one-pot scalable fabrication of reusable carboxylated heterogeneous carbon-based catalysts from eucalyptus plant with the assistance of dry ice for selective hydrolysis of eucalyptus biomass. *Renewable Energy*, **2020**, 153, 998-1004	8.1	14

74	Kinetics of corrosion inhibition of benzotriazole to copper in 3.5% NaCl. *Materials and Corrosion - Werkstoffe Und Korrosion*, **2008**, 59, 691-696	1.6	14
73	Tailored fabrication of iridium nanoparticle-sensitized titanium oxynitride nanotubes for solar-driven water splitting: experimental insights on the photocatalytic activity defects relationship. *Catalysis Science and Technology*, **2020**, 10, 801-809	5.5	14
72	Dry ice-mediated rational synthesis of edge-carboxylated crumpled graphene nanosheets for selective and prompt hydrolysis of cellulose and eucalyptus lignocellulose under ambient reaction conditions. *Green Chemistry*, **2020**, 22, 5437-5446	10	14
71	Enhancing the corrosion resistance of reinforcing steel under aggressive operational conditions using behentrimonium chloride. *Scientific Reports*, **2019**, 9, 18115	4.9	14
70	The localized corrosion of Al 6XXX alloys. *Jom*, **2001**, 53, 42-46	2.1	13
69	Highly exfoliated Ti3C2Tx MXene nanosheets atomically doped with Cu for efficient electrochemical CO2 reduction: an experimental and theoretical study. *Journal of Materials Chemistry A*, **2022**, 10, 1965-1975	13	13
68	Synergistic Effect of O3 and H2O2 on the Visible Photocatalytic Degradation of Phenolic Compounds Using TiO2/Reduced Graphene Oxide Nanocomposite. *Science of Advanced Materials*, **2017**, 9, 739-746	2.3	13
67	Enhanced mechanical and corrosion protection properties of pulse electrodeposited NiP-ZrO2 nanocomposite coatings. *Surface and Coatings Technology*, **2020**, 403, 126340	4.4	13
66	Calix[4]arene-clicked clay through thiol-yne addition for the molecular recognition and removal of Cd(II) from wastewater. *Separation and Purification Technology*, **2020**, 251, 117383	8.3	13
65	Linear dynamics modelling of droplet deformation in a pulsatile electric field. *Chemical Engineering Research and Design*, **2016**, 114, 162-170	5.5	12
64	Photocatalysis of TiO2 - Supported Graphene Oxide and its Reduced Form towards Phenol Degradation. *ECS Transactions*, **2015**, 64, 1-12	1	9
63	Effect of Temperature on the Corrosion Behavior of API X120 Pipeline Steel in H2S Environment. *Journal of Materials Engineering and Performance*, **2017**, 26, 3775-3783	1.6	9
62	Development of spin-coated Si/TiOx/Pt/TiOx electrodes for the electrochemical ozone production. *Applied Surface Science*, **2009**, 255, 8458-8463	6.7	9
61	Temperature effect on the recovery of SO2-Poisoned GC/Nano-Pt electrode towards oxygen reduction. *Journal of Solid State Electrochemistry*, **2010**, 14, 1727-1734	2.6	9
60	Corrosion Inhibition of Mild Steel in Sulfuric Acid by a Newly Synthesized Schiff Base: An Electrochemical, DFT, and Monte Carlo Simulation Study. *Electroanalysis*, **2020**, 32, 3145-3158	3	9
59	An efficient green ionic liquid for the corrosion inhibition of reinforcement steel in neutral and alkaline highly saline simulated concrete pore solutions. *Scientific Reports*, **2020**, 10, 14565	4.9	9
58	The Effects of Cr/Mo Micro-Alloying on the Corrosion Behavior of Carbon Steel in CO2-Saturated (Sweet) Brine under Hydrodynamic Control. *Journal of the Electrochemical Society*, **2018**, 165, C278-C288	3.9	8
57	Data on structural and composition-related merits of gCN nanofibres doped and undoped with Au/Pd at the atomic level for efficient catalytic CO oxidation. *Data in Brief*, **2019**, 27, 104734	1.2	8

56	Hydrothermal-induced growth of Ca10V6O25 crystals with various morphologies in a strong basic medium at different temperatures. *Materials Research Bulletin*, **2013**, 48, 1388-1396	5.1	8
55	High Electrocatalytic Performance of CuCoNi@CNTs Modified Glassy Carbon Electrode towards Methanol Oxidation in Alkaline Medium. *Applied Sciences (Switzerland)*, **2017**, 7, 64	2.6	8
54	Controlling the Interfacial Charge Polarization of MOF-Derived 0D-2D vdW Architectures as a Unique Strategy for Bifunctional Oxygen Electrocatalysis.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	8
53	Corrosion and Heat Treatment Study of Electroless NiP-Ti Nanocomposite Coatings Deposited on HSLA Steel. *Nanomaterials*, **2020**, 10,	5.4	8
52	Smart design of exquisite multidimensional multilayered sand-clock-like upconversion nanostructures with ultrabright luminescence as efficient luminescence probes for bioimaging application. *Mikrochimica Acta*, **2020**, 187, 527	5.8	8
51	Simulation studies of Sn-based perovskites with Cu back-contact for non-toxic and non-corrosive devices. *Journal of Materials Research*, **2019**, 34, 2789-2795	2.5	7
50	Superhydrophobic and Corrosion Behavior of Electrospun PVDF-ZnO Coating. *ECS Transactions*, **2015**, 64, 57-67	1	7
49	Data on the synthesis and characterizations of carboxylated carbon-based catalyst from eucalyptus as efficient and reusable catalysts for hydrolysis of eucalyptus. *Data in Brief*, **2020**, 30, 105520	1.2	7
48	Organ-specific toxicity evaluation of stearamidopropyl dimethylamine (SAPDMA) surfactant using zebrafish embryos. *Science of the Total Environment*, **2020**, 741, 140450	10.2	7
47	Effect of Cr/Mo on the Protectiveness of Corrosion Scales on Carbon Steel in Sweet Medium under High Flow Regime. *ECS Transactions*, **2017**, 80, 509-517	1	7
46	Erosion Behavior of API X120 Steel: Effect of Particle Speed and Impact Angle. *Coatings*, **2018**, 8, 343	2.9	7
45	Electrospun highly corrosion-resistant polystyrene–nickel oxide superhydrophobic nanocomposite coating. *Journal of Applied Electrochemistry*, **2021**, 51, 1605	2.6	7
44	Tailoring the defects of sub-100 nm multipodal titanium nitride/oxynitride nanotubes for efficient water splitting performance. *Nanoscale Advances*, **2021**, 3, 5016-5026	5.1	7
43	Spectral, thermal, antimicrobial studies for silver(I) complexes of pyrazolone derivatives. *BMC Chemistry*, **2020**, 14, 69	3.7	6
42	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	5.1	6
41	Novel Enzyme-Free Multifunctional Bentonite/Polypyrrole/Silver Nanocomposite Sensor for Hydrogen Peroxide Detection over a Wide pH Range. *Sensors*, **2019**, 19,	3.8	6
40	Graphene /TiO2 Composite Electrode: Synthesis and Application towards the Oxygen Reduction Reaction. *ECS Transactions*, **2014**, 61, 13-26	1	6
39	A quartz crystal microbalance study of the kinetics of interaction of benzotriazole with copper. *Journal of Applied Electrochemistry*, **2007**, 37, 1177-1182	2.6	6

38	An Extraordinary Effect of Benzotriazole and Sulfide Ions on the Corrosion of Copper. *Electrochemical and Solid-State Letters*, **2006**, 9, B19		6
37	Superior Electrocatalysis of Spin-coated Titanium Oxide Electrodes for the Electrochemical Ozone Production. *Chemistry Letters*, **2007**, 36, 1046-1047	1.7	6
36	Efforts at Enhancing Bifunctional Electrocatalysis and Related Events for Rechargeable Zinc-Air Batteries. *ChemElectroChem*, **2021**, 8, 3998	4.3	6
35	A simple in situ characterization technique for the onset of the chemical degradation of PEM fuel cells□fluorinated membranes. *Electrochemistry Communications*, **2008**, 10, 1732-1735	5.1	5
34	Effects of microstructures on hydrogen induced cracking of electrochemically hydrogenated double notched tensile sample of 4340 steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 659, 242-255	5.3	5
33	Chitosan/Lignosulfonate Nanospheres as "Green" Biocide for Controlling the Microbiologically Influenced Corrosion of Carbon Steel. *Materials*, **2020**, 13,	3.5	4
32	Effect of Operating Conditions on the Acidity of H2/Air PEM Fuel Cells' Water. *ECS Transactions*, **2009**, 16, 543-550	1	4
31	Nitrogenization of Biomass-Derived Porous Carbon Microtubes Promotes Capacitive Deionization Performance. *Bulletin of the Chemical Society of Japan*, **2021**, 94, 1645-1650	5.1	4
30	Self-Healing Performance of Smart Polymeric Coatings Modified with Tung Oil and Linalyl Acetate. *Polymers*, **2021**, 13,	4.5	4
29	Effects of Oxygen on Scale Formation in CO2Corrosion of Steel in Hot Brine: In Situ Synchrotron X-ray Diffraction Study of Anodic Products. *Journal of the Electrochemical Society*, **2018**, 165, C756-C761	3.9	4
28	Effect of Trace H2S on the Scale Formation Behavior in a Predominant CO2 Environment under Hydrodynamic Control: Role of Cr/Mo Micro-Alloying in Plain Carbon Steel. *Journal of the Electrochemical Society*, **2019**, 166, C3233-C3240	3.9	3
27	Controlled synthesis of carbon nitride-TiO2 nanocomposites for prompt photocatalytic degradation of individual and mixed organic dyes at room temperature. *Emergent Materials*, **2020**, 3, 955-963	3.5	3
26	Engineering of Pt-based nanostructures for efficient dry (CO2) reforming: Strategy and mechanism for rich-hydrogen production. *International Journal of Hydrogen Energy*, **2022**, 47, 5901-5928	6.7	3
25	Investigation of the Mechanical Behavior of Electroless NiP□Ti Composite Coatings. *Journal of Engineering Materials and Technology, Transactions of the ASME*, **2020**, 142,	1.8	3
24	AEO-7 surfactant is □uper toxic□and induces severe cardiac, liver and locomotion damage in zebrafish embryos. *Environmental Sciences Europe*, **2020**, 32,	5	3
23	A review of MXenes as emergent materials for dye removal from wastewater. *Separation and Purification Technology*, **2021**, 282, 120083	8.3	3
22	Effects of superelastic nano-NiTi additions on electroless Ni□P coating properties under bending. *Surface and Coatings Technology*, **2019**, 378, 125064	4.4	2
21	Porous ternary Pt-based branched nanostructures for electrocatalytic oxygen reduction. *Electrochemistry Communications*, **2022**, 136, 107237	5.1	2

20	Porous high-entropy alloys as efficient electrocatalysts for water-splitting reactions. *Electrochemistry Communications*, **2022**, 136, 107207	5.1	2
19	A review of bipolar plates materials and graphene coating degradation mechanism in proton exchange membrane fuel cell. *International Journal of Energy Research*,	4.5	2
18	Design of hybrid clay/ polypyrrole decorated with silver and zinc oxide nanoparticles for anticorrosive and antibacterial applications. *Progress in Organic Coatings*, **2020**, 149, 105918	4.8	2
17	Data on the fabrication of hybrid calix [4]arene-modified natural bentonite clay for efficient selective removal of toxic metals from wastewater at room temperature. *Data in Brief*, **2021**, 35, 106799	1.2	2
16	Microbiologically-influenced corrosion of the electroless-deposited NiP-TiNi Coating. *Arabian Journal of Chemistry*, **2021**, 14, 103445	5.9	2
15	Facile one-step aqueous-phase synthesis of porous PtBi nanosponges for efficient electrochemical methanol oxidation with a high CO tolerance. *Journal of Electroanalytical Chemistry*, **2022**, 916, 116361	4.1	2
14	Nickel Oxide Carbon Nanofiber Composite for Electrochemical Oxidation of Methanol. *ECS Transactions*, **2014**, 61, 1-11	1	1
13	Superior Corrosion and UV-Resistant Highly Porous Poly(vinylidene fluoride-co-hexafluoropropylene)/alumina Superhydrophobic Coating. *ACS Applied Polymer Materials*, **2022**, 4, 1358-1367	4.3	1
12	Rational Synthesis of Mixed Metal Oxide Clusters Supported on a Partially Etched MAX Phase for Efficient Electrocatalytic CO2 Conversion. *Topics in Catalysis*,1	2.3	1
11	Multilevel Self-Healing Characteristics of Smart Polymeric Composite Coatings. *ACS Applied Materials & Interfaces*, **2021**, 13, 51459-51473	9.5	1
10	Toward an Accurate Spectrophotometric Evaluation of the Efficiencies of Photocatalysts in Processes Involving Their Separation Using Nylon Membranes. *Catalysts*, **2018**, 8, 576	4	1
9	Titanium Carbide (Ti3C2Tx) MXene Ornamented with Pallidum Nanoparticles for Electrochemical CO Oxidation. *Electroanalysis*,	3	1
8	A Hybrid Photo-Electro Catalytic Conversion of Carbon dioxide Using CuOMgO Nanocomposite. *Topics in Catalysis*,1	2.3	0
7	Efforts at Enhancing Bifunctional Electrocatalysis and Related Events for Rechargeable Zinc-Air Batteries. *ChemElectroChem*, **2021**, 8, 3996	4.3	0
6	Eco-friendly highly efficient BN/rGO/TiO nanocomposite visible-light photocatalyst for phenol mineralization. *Environmental Science and Pollution Research*, **2021**, 28, 62771-62781	5.1	0
5	Surface Layer Formation in the Earliest Stages of Corrosion of Steel in CO2-Saturated Brine at 80C: Studied by In Situ Synchrotron X-ray Methods. *Journal of the Electrochemical Society*, **2018**, 165, C842-C847	3.9	0
4	Effect of Relative Humidity on Temperature and Current Distributions within a Segmented H2/Air PEM Fuel Cell. *ECS Transactions*, **2011**, 35, 293-302	1	
3	Template-assisted growth of rhodium nanowire contacts to silicon nanowires. *International Journal of Nanomanufacturing*, **2009**, 4, 146	0.7	

2	Study of In Vitro Biodegradation Behavior of Mg□.5Zn□ES Composite. *Minerals, Metals and Materials Series*, **2020**, 253-258	0.3
1	Synthesis and Optimization of a Highly Stable and Efficient BN/TiO2 Nanocomposite for Phenol Degradation: A Photocatalytic, Mechanistic and Environmental Impact Study. *ChemistrySelect*, **2021**, 6, 5752-5762	1.8