

# Mir ghasem Hosseini

## List of Publications by Citations

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177  
papers

4,738  
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36  
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60  
g-index

181  
ext. papers

5,312  
ext. citations

4.1  
avg, IF

6.22  
L-index

#	Paper	IF	Citations
177	Asymmetrical Schiff bases as inhibitors of mild steel corrosion in sulphuric acid media. <i>Materials Chemistry and Physics</i> , <b>2003</b> , 78, 800-808	4.4	340
176	NiTiO <sub>2</sub> nanocomposite coating with high resistance to corrosion and wear. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 3804-3810	4.4	206
175	Synergism and antagonism in mild steel corrosion inhibition by sodium dodecylbenzenesulphonate and hexamethylenetetramine. <i>Corrosion Science</i> , <b>2003</b> , 45, 1473-1489	6.8	199
174	EN, EIS and polarization studies to evaluate the inhibition effect of 3H-phenothiazin-3-one, 7-dimethylamin on mild steel corrosion in 1M HCl solution. <i>Corrosion Science</i> , <b>2008</b> , 50, 3363-3370	6.8	188
173	Investigation of physical properties and cell performance of Nafion/TiO <sub>2</sub> nanocomposite membranes for high temperature PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 9252-9260	6.7	131
172	Protection of mild steel corrosion with Schiff bases in 0.5M H <sub>2</sub> SO <sub>4</sub> solution. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 3680-3685	6.7	126
171	Corrosion resistance of NiTi alloy and NiTi/SiC nanocomposite coatings electrodeposited by sediment codeposition technique. <i>Applied Surface Science</i> , <b>2014</b> , 307, 351-359	6.7	91
170	Effect of carbon steel microstructures and molecular structure of two new Schiff base compounds on inhibition performance in 1 M HCl solution by EIS. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 115, 852-858	4.4	85
169	Inhibition of copper corrosion by self-assembled films of new Schiff bases and their modification with alkanethiols in aqueous medium. <i>Applied Surface Science</i> , <b>2006</b> , 252, 2949-2959	6.7	85
168	Effect of polyaniline/hontmorillonite nanocomposite powders addition on corrosion performance of epoxy coatings on Al 5000. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 280-286	4.4	84
167	Electrochemical studies of ZnNi alloy coatings from non-cyanide alkaline bath containing tartrate as complexing agent. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 2897-2904	4.4	81
166	Effect of Ti-containing inclusions on the nucleation of acicular ferrite and mechanical properties of multipass weld metals. <i>Micron</i> , <b>2013</b> , 45, 107-14	2.3	79
165	A Novel High-Performance Supercapacitor based on Chitosan/Graphene Oxide-MWCNT/Polyaniline. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 496, 371-381	9.3	70
164	An in-situ infrared spectroscopic study of the adsorption of citrate on Au(111) electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>2003</b> , 542, 67-74	4.1	69
163	Synergistic effect on corrosion inhibition of copper by sodium dodecylbenzenesulphonate (SDBS) and 2-mercaptobenzoxazole. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 109, 281-286	4.4	68
162	Effect of polypyrrole/hontmorillonite nanocomposites powder addition on corrosion performance of epoxy coatings on Al 5000. <i>Progress in Organic Coatings</i> , <b>2009</b> , 66, 321-327	4.8	65
161	An investigation on the effect of surface morphology and crystalline texture on corrosion behavior, structural and magnetic properties of electrodeposited nanocrystalline nickel films. <i>Applied Surface Science</i> , <b>2014</b> , 292, 795-805	6.7	63

160	Influence of metal oxide nanoparticles on pseudocapacitive behavior of wet-spun polyaniline-multiwall carbon nanotube fibers. <i>Electrochimica Acta</i> , <b>2012</b> , 70, 182-192	6.7	60
159	Corrosion protection of mild steel by polypyrrole phosphate composite coating. <i>Progress in Organic Coatings</i> , <b>2007</b> , 60, 178-185	4.8	59
158	Low-cost nanowired MnO/C as an ORR catalyst in air-cathode microbial fuel cell. <i>Bioelectrochemistry</i> , <b>2019</b> , 125, 38-45	5.6	59
157	Effect of carbon steel microstructures and molecular structure of two new Schiff base compounds on inhibition performance in 1M HCl solution by EIS. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 113, 986-993	4.4	52
156	Highly Active Nickel Nanoparticles Supported on TiO <sub>2</sub> Nanotube Electrodes for Methanol Electrooxidation. <i>Electroanalysis</i> , <b>2010</b> , 22, 2620-2625	3	52
155	Corrosion Protection of Electro-Galvanized Steel by Green Conversion Coatings. <i>Journal of Rare Earths</i> , <b>2007</b> , 25, 537-543	3.7	51
154	Electrochemical fabrication of polyaniline films containing gold nanoparticles deposited on titanium electrode for electro-oxidation of ascorbic acid. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 2365-2371	4.3	49
153	Silver nanoparticles dispersed in polyaniline matrixes coated on titanium substrate as a novel electrode for electro-oxidation of hydrazine. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 3304-3310	4.3	49
152	UV-cleaning properties of Pt nanoparticle-decorated titania nanotubes in the electro-oxidation of methanol: An anti-poisoning and refreshable electrode. <i>Electrochimica Acta</i> , <b>2012</b> , 70, 1-9	6.7	48
151	Electropolymerization of polypyrrole and polypyrrole-ZnO nanocomposites on mild steel and its corrosion protection performance. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 121, 3159-3166	2.9	47
150	Gold particles supported on self-organized nanotubular TiO <sub>2</sub> matrix as highly active catalysts for electrochemical oxidation of glucose. <i>Journal of Solid State Electrochemistry</i> , <b>2010</b> , 14, 1109-1115	2.6	47
149	Rapid and sensitive detection of hydrogen peroxide in milk by Enzyme-free electrochemiluminescence sensor based on a polypyrrole-cerium oxide nanocomposite. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 271, 90-96	8.5	47
148	Electro-oxidation of hydrazine on gold nanoparticles supported on TiO <sub>2</sub> nanotube matrix as a new high active electrode. <i>Journal of Molecular Catalysis A</i> , <b>2011</b> , 335, 199-204		44
147	Synthesis, Characterization and Electrochemical Study of Graphene Oxide-Multi Walled Carbon Nanotube-Manganese Oxide-Polyaniline Electrode as Supercapacitor. <i>Journal of Materials Science and Technology</i> , <b>2016</b> , 32, 763-773	9.1	43
146	High-power positive electrode based on synergistic effect of N- and WO <sub>3</sub> -decorated carbon felt for vanadium redox flow batteries. <i>Carbon</i> , <b>2018</b> , 136, 444-453	10.4	42
145	Polypyrrole and polypyrrole/ungstate electropolymerization coatings on carbon steel and evaluating their corrosion protection performance via electrochemical impedance spectroscopy. <i>Progress in Organic Coatings</i> , <b>2009</b> , 64, 429-434	4.8	41
144	An innovative approach to electro-oxidation of dopamine on titanium dioxide nanotubes electrode modified by gold particles. <i>Journal of Applied Electrochemistry</i> , <b>2010</b> , 40, 1421-1427	2.6	39
143	Different TiO <sub>2</sub> nanotubes for back illuminated dye sensitized solar cell: fabrication, characterization and electrochemical impedance properties of DSSCs. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 5027-5034	2.1	38

- 142 Effect of rare earth (Ce, La) compounds in the electroless bath on the plating rate, bath stability and microstructure of the nickel-phosphorus deposits. *Surface and Coatings Technology*, **2008**, 202, 1615-1620 4.4 37
- 141 A dual-chambered microbial fuel cell with Ti/nano-TiO<sub>2</sub>/Pd nano-structure cathode. *Journal of Power Sources*, **2012**, 220, 292-297 8.9 35
- 140 Electrodeposition of platinum metal on titanium and anodised titanium from P salt: application to electro-oxidation of glycerol. *Surface Engineering*, **2007**, 23, 419-424 2.6 35
- 139 Inhibition of 3003 aluminum alloy corrosion by propargyl alcohol and tartrate ion and their synergistic effects in 0.5% NaCl solution. *Materials Chemistry and Physics*, **2008**, 109, 199-205 4.4 34
- 138 Synergism in copper corrosion inhibition by sodium dodecylbenzenesulphonate and 2-mercaptobenzoimidazole. *Journal of Applied Electrochemistry*, **2008**, 38, 1629-1636 2.6 34
- 137 Synthesis and Characterization of Er<sub>x</sub>Zn<sub>1-x</sub>Se Nanoparticles: A Novel Visible Light Responsive Photocatalyst. *Science of Advanced Materials*, **2013**, 5, 1074-1082 2.3 34
- 136 Synthesis and characterization of porous nanostructured Ni/PdNi electrode towards electrooxidation of borohydride. *International Journal of Hydrogen Energy*, **2013**, 38, 5449-5456 6.7 33
- 135 Self-humidifying nanocomposite membranes based on sulfonated poly(ether ether ketone) and heteropolyacid supported Pt catalyst for fuel cells. *International Journal of Hydrogen Energy*, **2011**, 36, 10940-10957 6.7 33
- 134 Electrocatalytical study of carbon supported Pt, Ru and bimetallic PtRu nanoparticles for oxygen reduction reaction in alkaline media. *Applied Surface Science*, **2015**, 345, 223-231 6.7 32
- 133 Comparison between polyaniline-phosphate and polypyrrole-phosphate composite coatings for mild steel corrosion protection. *Materials and Corrosion - Werkstoffe Und Korrosion*, **2006**, 57, 407-410 1.6 32
- 132 Investigation of the porous nanostructured Cu/Ni/AuNi electrode for sodium borohydride electrooxidation. *Electrochimica Acta*, **2013**, 114, 215-222 6.7 31
- 131 Application of titanium oxide nanotube films containing gold nanoparticles for the electroanalytical determination of ascorbic acid. *Thin Solid Films*, **2011**, 519, 3457-3461 2.2 31
- 130 Electrochemical and electromechanical behavior of Nafion-based soft actuators with PPy/CB/MWCNT nanocomposite electrodes. *RSC Advances*, **2017**, 7, 3190-3203 3.7 30
- 129 Improvement of energy conversion efficiency and power generation in direct borohydride-hydrogen peroxide fuel cell: The effect of Ni-M core-shell nanoparticles (M = Pt, Pd, Ru)/Multiwalled Carbon Nanotubes on the cell performance. *Journal of Power Sources*, **2017**, 370, 87-97 8.9 30
- 128 Methanol electro-oxidation on a porous nanostructured Ni/Pd-Ni electrode in alkaline media. *Chinese Journal of Catalysis*, **2013**, 34, 1712-1719 11.3 29
- 127 Improving the anticorrosive performance of epoxy coatings by embedding various percentages of unmodified and imidazole modified CeO<sub>2</sub> nanoparticles. *Progress in Organic Coatings*, **2018**, 122, 56-63 4.8 28
- 126 Preparation method of Ni@Pt/C nanocatalyst affects the performance of direct borohydride-hydrogen peroxide fuel cell: Improved power density and increased catalytic oxidation of borohydride. *Journal of Colloid and Interface Science*, **2017**, 500, 264-275 9.3 27
- 125 Preparation, characterization, and application of alkaline leached Ni/ZnNi binary coatings for electro-oxidation of methanol in alkaline solution. *Journal of Applied Electrochemistry*, **2012**, 42, 153-162 2.6 26

124	Hydrothermal synthesis and characterization of Nd-doped ZnSe nanoparticles with enhanced visible light photocatalytic activity. <i>Research on Chemical Intermediates</i> , <b>2014</b> , 40, 495-508	2.8	26
123	Platinum nanoparticle-decorated TiO <sub>2</sub> nanotube arrays as new highly active and non-poisoning catalyst for photo-electrochemical oxidation of galactose. <i>Applied Catalysis A: General</i> , <b>2012</b> , 427-428, 35-42	5.1	26
122	Experimental investigation of MoS <sub>2</sub> /diesel oil nanofluid thermophysical and rheological properties. <i>International Communications in Heat and Mass Transfer</i> , <b>2019</b> , 108, 104298	5.8	25
121	Enhancement of output power density and performance of direct borohydride-hydrogen peroxide fuel cell using Ni-Pd core-shell nanoparticles on polymeric composite supports (rGO-PANI) as novel electrocatalysts. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 251, 37-48	21.8	25
120	Ni@Pd core-shell nanostructure supported on multi-walled carbon nanotubes as efficient anode nanocatalysts for direct methanol fuel cells with membrane electrode assembly prepared by catalyst coated membrane method. <i>Energy</i> , <b>2018</b> , 161, 1074-1084	7.9	23
119	Self-healing and corrosion protection performance of organic polysulfide@urea-formaldehyde resin core-shell nanoparticles in epoxy/PANI/ZnO nanocomposite coatings on anodized aluminum alloy. <i>Progress in Organic Coatings</i> , <b>2018</b> , 124, 110-121	4.8	23
118	Refinement of electrodeposition mechanism for fabrication of thin nickel films on n-type silicon (111). <i>Journal of Electroanalytical Chemistry</i> , <b>2013</b> , 690, 136-143	4.1	23
117	Corrosion inhibition of copper in sulphuric acid by some nitrogen heterocyclic compounds. <i>Anti-Corrosion Methods and Materials</i> , <b>2007</b> , 54, 308-313	0.8	23
116	Selective recognition of Ni <sup>2+</sup> ion based on fluorescence enhancement chemosensor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2015</b> , 140, 283-7	4.4	22
115	High-density nickel nanowire arrays for data storage applications. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 345, 012011	0.3	22
114	Innovation in acid pickling treatments of copper by characterizations of a new series of Schiff bases as corrosion inhibitors. <i>Anti-Corrosion Methods and Materials</i> , <b>2006</b> , 53, 296-302	0.8	22
113	NiB/SiC nanocomposite coating obtained by pulse plating and evaluation of its electrochemistry and mechanical properties. <i>Surface Engineering</i> , <b>2019</b> , 35, 861-872	2.6	21
112	Investigation of corrosion resistance of electrodeposited NiW/SiC composite coatings. <i>Corrosion Engineering Science and Technology</i> , <b>2014</b> , 49, 247-253	1.7	21
111	Electrocatalytic Oxidation of Sodium Borohydride on a Nanoporous Ni/Zn-Ni Electrode. <i>Chinese Journal of Catalysis</i> , <b>2012</b> , 33, 1817-1824	11.3	20
110	Fabrication of Au-Nanoparticle/TiO <sub>2</sub> -Nanotubes Electrodes Using Electrochemical Methods and Their Application for Electrocatalytic Oxidation of Hydroquinone. <i>Electroanalysis</i> , <b>2011</b> , 23, 1654-1662	3	20
109	Protection of mild steel corrosion with new thia-derivative Salens in 0.5 M H <sub>2</sub> SO <sub>4</sub> solution. <i>Journal of Applied Electrochemistry</i> , <b>2010</b> , 40, 215-223	2.6	20
108	Toward enhancing the photoelectrochemical water splitting efficiency of organic acid doped polyaniline-WO <sub>3</sub> photoanode by photo-assisted electrochemically reduced graphene oxide. <i>Electrochimica Acta</i> , <b>2020</b> , 333, 135475	6.7	20
107	The comparison of direct borohydride-hydrogen peroxide fuel cell performance with membrane electrode assembly prepared by catalyst coated membrane method and catalyst coated gas diffusion layer method using Ni@Pt/C as anodic catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 10368-10375	6.7	19

106	Carbon supported Ni <sub>1</sub> Pt <sub>1</sub> nanocatalyst as superior electrocatalyst with increased power density in direct borohydride-hydrogen peroxide and investigation of cell impedance at different temperatures and discharging currents. <i>Energy</i> , <b>2017</b> , 131, 137-148	7.9	19
105	Electrochemical impedance spectroscopy evaluation on the protective properties of epoxy/DBSA doped polyaniline-TiO <sub>2</sub> nanocomposite coated mild steel under cathodic polarization. <i>Surface and Coatings Technology</i> , <b>2017</b> , 331, 66-76	4.4	19
104	3D structured polypyrrole/reduced graphene oxide (PPy/rGO)-based electrode ionic soft actuators with improved actuation performance. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 12104-12118	3.6	19
103	An innovative electrochemical approach for voltammetric determination of levodopa using gold nanoparticles doped on titanium dioxide nanotubes. <i>Mikrochimica Acta</i> , <b>2011</b> , 172, 103-108	5.8	18
102	Evaluation of corrosion, mechanical and structural properties of new Ni/WBCTFE nanocomposite coating. <i>Surface and Coatings Technology</i> , <b>2016</b> , 298, 114-120	4.4	18
101	Preparation and corrosion performance of healable waterborne polyurethane coatings containing isophoronedisocyanate loaded silica capsules. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 93, 1-10	5.3	17
100	Anchoring RuO <sub>2</sub> nanoparticles on reduced graphene oxide-multi-walled carbon nanotubes as a high-performance supercapacitor. <i>Ionics</i> , <b>2019</b> , 25, 2383-2391	2.7	17
99	Effect of carbon steel microstructure and molecular structure of two new Schiff base compounds on inhibition performance in 1M HCl solution by DC, SEM and XRD studies. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 120, 134-141	4.4	17
98	Adsorption of 2-mercaptobenzimidazole on a Au(111) electrode. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 4275-4282	2.7	17
97	The influence of electrodeposited PPy film morphology on the electrochemical characteristics of Nafion-based energy storage devices. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 836, 165-175	4.1	17
96	Investigation of solar-induced photoelectrochemical water splitting and photocatalytic dye removal activities of camphor sulfonic acid doped polyaniline -WO <sub>3</sub> -MWCNT ternary nanocomposite. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 38, 7-18	9.1	17
95	Electrochemical behavior of a Nafion-membrane-based solid-state supercapacitor with a graphene oxide/multiwalled carbon nanotube/polypyrrole nanocomposite. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	16
94	Fabrication of novel solid-state supercapacitor using a Nafion polymer membrane with graphene oxide/multiwalled carbon nanotube/polyaniline. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 2833-2848	2.6	16
93	Preparation of Pt/G and PtNi/G nanocatalysts with high electrocatalytic activity for borohydride oxidation and investigation of different operation condition on the performance of direct borohydride-hydrogen peroxide fuel cell. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 208, 207-219	4.4	16
92	Gold nanoparticles deposited on polyaniline nanofibres as for electro-oxidation of hydrazine. <i>Surface Engineering</i> , <b>2013</b> , 29, 65-69	2.6	16
91	Improving corrosion protection performance of polypyrrole coating by tungstate ion dopants. <i>Russian Journal of Electrochemistry</i> , <b>2007</b> , 43, 1390-1397	1.2	16
90	Determination of suitable corrosion inhibitor formulation for a potable water supply. <i>Anti-Corrosion Methods and Materials</i> , <b>2004</b> , 51, 399-405	0.8	16
89	Inhibition effect of 3,5 bis (2-pyridil) 4-amino 1,2,4 triazole and 1-10 phenantrolin on corrosion of mild steel in acid solutions. <i>Corrosion Engineering Science and Technology</i> , <b>2002</b> , 37, 76-80		16



88	Ni@M (M = Pt, Pd and Ru) core@shell nanoparticles on a Vulcan XC-72R support with superior catalytic activity toward borohydride oxidation: electrochemical and fuel cell studies. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 13408-13417	3.6	15
87	Electrochemical impedance study on methyl orange and methyl red as power enhancing electron mediators in glucose fed microbial fuel cell. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2013</b> , 44, 617-621	5.3	15
86	Electrodeposition of Ni/WB nanocomposite from tartrate electrolyte as alternative to chromium plating. <i>Surface Engineering</i> , <b>2009</b> , 25, 382-388	2.6	15
85	Improved dye degradation and simultaneous electricity generation in a photoelectrocatalytic microbial fuel cell equipped with AgBr/CuO hybrid photocathode. <i>Journal of Power Sources</i> , <b>2020</b> , 474, 228589	8.9	15
84	Self-healing waterborne polyurethane coating by pH-dependent triggered-release mechanism. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47082	2.9	15
83	The effect of MWCNT content on electropolymerization of PPy film and electromechanical behavior of PPy electrode-based soft actuators. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 806, 136-149 <sup>1</sup>	4.1	14
82	Enhancement the anticorrosive resistance of epoxy coatings by incorporation of CeO <sub>2</sub> @ polyaniline @ 2-mercaptobenzotiazole nanocomposite. <i>Synthetic Metals</i> , <b>2019</b> , 250, 63-72	3.6	14
81	Evaluation of the Performance of Platinum Nanoparticle/Titanium Oxide Nanotubes as a New Refreshable Electrode for Formic Acid Electro-oxidation. <i>Fuel Cells</i> , <b>2012</b> , 12, 406-414	2.9	14
80	The effect of Tl(I) on the hard gold alloy electrodeposition of Au <sub>100</sub> from acid baths. <i>Journal of Electroanalytical Chemistry</i> , <b>2010</b> , 645, 109-114	4.1	14
79	Comparison of the corrosion protection of mild steel by polypyrrole/phosphate and polypyrrole/tungstenate coatings. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 110, 2733-2741	2.9	14
78	Synergistic effect of 1-dodecanethiol upon inhibition of Schiff bases on carbon steel corrosion in sulphuric acid media. <i>Anti-Corrosion Methods and Materials</i> , <b>2006</b> , 53, 147-152	0.8	14
77	High performance direct hydrazine/hydrogen peroxide fuel cell using reduced graphene oxide supported Ni@M (M = Pt, Pd, Ru) nanoparticles as novel anodic electrocatalysts. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 12222-12233	3.6	14
76	Corrosion and biological behavior of nanostructured 316L stainless steel processed by severe plastic deformation. <i>Surface and Interface Analysis</i> , <b>2015</b> , 47, 978-985	1.5	13
75	Mechanochemically synthesized NiCo <sub>2</sub> O <sub>4</sub> /Vulcan/PANI nanocomposite and investigation of its electrochemical behavior as a supercapacitor. <i>Ceramics International</i> , <b>2018</b> , 44, 20049-20057	5.1	12
74	Effect of Equal Channel Angular Pressing Process on the Corrosion Behavior of Type 316L Stainless Steel in Ringer's Solution. <i>Corrosion</i> , <b>2015</b> , 71, 367-375	1.8	11
73	Electrocatalysis of oxygen reduction on multi-walled carbon nanotube supported Ru-based catalysts in alkaline media. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 8803-8818	6.7	11
72	TaO-incorporated in photoinduced electrocatalyst of TiO <sub>2</sub> -RuO <sub>2</sub> decorated by PPy-NrGO nanocomposite for boosting overall water splitting. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 582, 254-269	9.3	11
71	Turn-on fluorescent chemosensor for determination of lutetium ion. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2015</b> , 137, 1231-4	4.4	10

70	Fabrication and photo-electrocatalytic activity of highly oriented titania nanotube loaded with platinum nanoparticles for electro-oxidation of lactose: A new recyclable electro-catalyst. <i>Journal of Molecular Catalysis A</i> , <b>2012</b> , 355, 216-222		10
69	Deposition and corrosion resistance of electroless Ni-PCTFE-P nanocomposite coatings. <i>Surface and Coatings Technology</i> , <b>2012</b> , 206, 4546-4552	4.4	10
68	Electrodeposition mechanism of nickel films on polycrystalline copper from dilute simple sulphate solutions. <i>Russian Journal of Electrochemistry</i> , <b>2011</b> , 47, 787-792	1.2	10
67	Electrodeposition and mechanical properties of Ni-W-B composites from tartrate bath. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2010</b> , 46, 117-122	0.9	10
66	Preparation of a NiMo/PCTFE nanocomposite coating and evaluation of its nano-tribological, mechanical and electrochemical performance. <i>RSC Advances</i> , <b>2016</b> , 6, 78774-78783	3.7	10
65	Evaluation effect of electrodeposition parameters on superhydrophobicity and corrosion performance of nickel coatings. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2017</b> , 53, 88-93	0.9	9
64	Pulse plating of NiB/WC nanocomposite coating and study of its corrosion and wear resistance. <i>Materials Science and Technology</i> , <b>2019</b> , 35, 1248-1256	1.5	9
63	Electrochemical, Structural and Nano Tribological Behavior of Ni-W-PTFE Nanocomposite Coatings Prepared by Tartrate Bath. <i>International Journal of Electrochemical Science</i> , <b>2016</b> , 5140-5153	2.2	9
62	Electrochemical and Electromechanical Study of Carbon-Electrode-Based Ionic Soft Actuators. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 795-806	3.9	9
61	Effect of Water and Fluoride Content of Anodizing Electrolyte on Morphology and Corrosion Behavior of ZrO <sub>2</sub> -Nanotubes Developed on Zirconium Implant. <i>Journal of Materials Engineering and Performance</i> , <b>2016</b> , 25, 1129-1135	1.6	9
60	Morphological characterization of AA5083-H321 aluminum alloy corrosion in NaCl solution under hydrodynamic conditions. <i>Anti-Corrosion Methods and Materials</i> , <b>2009</b> , 56, 35-42	0.8	9
59	The influence of electrodeposited conducting polymer electrode structure on the actuation performance of muscle-like ionic actuators. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 279, 204-215	3.9	9
58	Preparation and characterization of hexagonal mesoporous FeCo(OH) <sub>2</sub> nanorings. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 284, 421-426	5.3	8
57	TiO <sub>2</sub> nanoparticles with superior hydrogen evolution and pollutant degradation performance. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 24162-24173	6.7	8
56	Preparation Ce(III) conversion coatings on electrodeposited ZnNi alloy and comparison of their corrosion performance and morphology with Cr(VI) conversion coatings. <i>Surface Engineering</i> , <b>2013</b> , 29, 1-5	2.6	8
55	Preparation and electrocatalytic activity of gold nanoparticle embedded in highly ordered TiO <sub>2</sub> nanotube array electrode for electro-oxidation of galactose. <i>Surface Engineering</i> , <b>2011</b> , 27, 784-789	2.6	8
54	SYNTHESIS AND CHARACTERIZATION OF PALLADIUM NANOPARTICLES IMMOBILIZED ON TiO <sub>2</sub> NANOTUBES AS A NEW HIGH ACTIVE ELECTRODE FOR METHANOL ELECTRO-OXIDATION. <i>International Journal of Nanoscience</i> , <b>2012</b> , 11, 1250016	0.6	8
53	Preparation of ZnO, ZnFe <sub>2</sub> O <sub>4</sub> and ZnO-SnO <sub>2</sub> nanocrystals and investigation of their photocatalytic activity. <i>International Journal of Nanotechnology</i> , <b>2009</b> , 6, 984	1.5	8



52	Electrochemical advanced oxidation process of Phenazopyridine drug waste using different Ti-based IrO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> anodes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2020</b> , 117, 103-111	5.3	8
51	Porous Co/CoNiPt nanostructures prepared by galvanic replacement towards methanol electro-oxidation. <i>Journal of Porous Materials</i> , <b>2017</b> , 24, 305-313	2.4	7
50	Geometry Dependent Magnetic Properties of Ni Nanowires Embedded in Self-Assembled Arrays. <i>Physics Procedia</i> , <b>2011</b> , 22, 549-556		7
49	Influence of tungstate ion dopants in corrosion protection behavior of polyaniline coating on mild steel. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2008</b> , 59, 814-818	1.6	7
48	Epoxy coating with self-healing capability based on a 2-mercaptobenzothiazole-loaded CeO <sub>2</sub> nanocontainer. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47297	2.9	7
47	A Development in Direct Borohydride/Hydrogen Peroxide Fuel Cell Using Nanostructured Ni-Pt/C Anode. <i>Fuel Cells</i> , <b>2017</b> , 17, 321-327	2.9	6
46	Yb-doped ZnSe nanoparticles: synthesis, physical properties and photocatalytic activity. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 6950-6	1.3	6
45	Effect of cathodic polarisation on pitting corrosion of AA5083-H321 aluminium-magnesium alloy in stagnant 3.5% NaCl solution. <i>Corrosion Engineering Science and Technology</i> , <b>2009</b> , 44, 144-148	1.7	6
44	Structural characterization, mechanical, and electrochemical studies of hydroxyapatite-titanium composite coating fabricated using electrophoretic deposition and reaction bonding process. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 2119-2130	3.5	6
43	Polyaniline grafted chitosan/GO-CNT/Fe <sub>3</sub> O <sub>4</sub> nanocomposite as a superior electrode material for supercapacitor application. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50976	2.9	6
42	Pulse Plating of Ni-W-B Coating and Study of Its Corrosion and Wear Resistance. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 5510-5524	2.3	5
41	Enhanced Photocatalytic Activity of Ag Doped ZnO Nanorods for Degradation of an Azo Dye. <i>Water Environment Research</i> , <b>2016</b> , 88, 2001-2007	2.8	5
40	Modification of polyaniline-WO <sub>3</sub> as a noble metal-free photo electrocatalyst with (6, 6) - Phenyl-C61- butyric acid methyl ester for solar photoelectrochemical water splitting. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 121, 105440	4.3	5
39	Synthesis of hexagonal cobalt hydroxide and cobalt oxide nanorings as promising materials for oxygen evolution and supercapacitive processes. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 3887-3897	6.7	5
38	Pd-Ni nanoparticle supported on reduced graphene oxide and multi-walled carbon nanotubes as electrocatalyst for oxygen reduction reaction. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2018</b> , 26, 675-687	1.8	5
37	Electrooxidation of ethanol on platinum nanoparticles supported by ZrO <sub>2</sub> nanotube matrix as a new highly active electrode. <i>Russian Journal of Physical Chemistry A</i> , <b>2017</b> , 91, 1586-1591	0.7	4
36	Fabrication, characterisation and investigation of zirconium oxide corrosion behaviour on resistance of zirconium oxide nanotubes in artificial saliva as biological environment. <i>Corrosion Engineering Science and Technology</i> , <b>2015</b> , 50, 533-537	1.7	4
35	Magnetic Properties of Nickel Nanowire Arrays Patterned by Template Electrodeposition. <i>Solid State Phenomena</i> , <b>2012</b> , 190, 522-525	0.4	4

34	Improvement of the conductivity, electroactivity, and redoxability of polythiophene by electropolymerization of thiophene in the presence of catalytic amount of 1-(2-pyrrolyl)-2-(2-thienyl) ethylene (PTE). <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 108, 2700-2706	2.9	4
33	Novel Bimetallic Pd <sub>X</sub> (X = Ni, Co) Nanoparticles Assembled on N-Doped Reduced Graphene Oxide as an Anode Catalyst for Highly Efficient Direct Sodium Borohydride/Hydrogen Peroxide Fuel Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 6025-6039	6.1	4
32	Synthesis and characterization of palladium nanoparticles immobilized on ZrO <sub>2</sub> nanotubes as a new highly active electrode for methanol electro-oxidation. <i>Journal of Porous Materials</i> , <b>2017</b> , 24, 1155-1163	2.4	3
31	Facile and Scalable Synthesis of Ultrafine MnCo <sub>2</sub> O <sub>4</sub> Nanoparticles Via Mechanical Alloying as Supercapacitive Materials. <i>Jom</i> , <b>2019</b> , 71, 2396-2404	2.1	3
30	RuO <sub>2</sub> , RuO <sub>2</sub> @TiO <sub>2</sub> and RuO <sub>2</sub> @TiO <sub>2</sub> @TiO <sub>2</sub> nanoparticles supported on Ni mesh as mixed metal oxide electrodes for oxygen reduction reaction. <i>Journal of the Iranian Chemical Society</i> , <b>2019</b> , 16, 1749-1760	2	3
29	Green synthesis of water-soluble graphene nanosheets under solvent-free condition and in-situ anchored with MnO <sub>2</sub> as supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 6692-6701	2.1	3
28	Evaluation of the Electrochemical Activity and Stability of Ti/IrO <sub>2</sub> @Ta <sub>2</sub> O <sub>5</sub> Electrode as Anode in the Cathodic Protection Systems via Impressed Current. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2018</b> , 54, 700-708	0.9	3
27	Influence of electrodeposition potential, TiO <sub>2</sub> nanoparticles and chromium (III) inhibitor addition on the corrosion protection performance of organosilane coating on aluminium. <i>Transactions of the Institute of Metal Finishing</i> , <b>2019</b> , 97, 189-196	1.3	3
26	Photodegradation of an azo dye by silver-doped nano-particulate titanium dioxide. <i>Toxicological and Environmental Chemistry</i> , <b>2011</b> , 93, 1591-1601	1.4	3
25	Towards Production of a Highly Catalytic and Stable Graphene-Wrapped Graphite Felt Electrode for Vanadium Redox Flow Batteries. <i>Batteries</i> , <b>2018</b> , 4, 63	5.7	3
24	Superior corrosion and wear resistance of pulse plated Ni <sub>4</sub> W <sub>2</sub> B/SiC composite coatings. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 270, 124761	4.4	3
23	Preparation of Pulse Electrodeposited Ni-B Coating with RSM Software and Evaluation of Its Microhardness and Electrochemical Behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 3167-3179	2.3	2
22	APPLICATION AND COMPARISON OF CURRENT INTERRUPTION AND ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY METHODS TO STUDY A MICROBIAL FUEL CELL. <i>Instrumentation Science and Technology</i> , <b>2013</b> , 41, 72-81	1.4	2
21	Palladium-Nickel Electrocatalysts on Nitrogen-Doped Reduced Graphene Oxide Nanosheets for Direct Hydrazine/Hydrogen Peroxide Fuel Cells. <i>Catalysts</i> , <b>2021</b> , 11, 1372	4	2
20	RuO <sub>2</sub> modification of graphene oxide-multiwalled carbon nanotubes as excellent positive electrode for vanadium redox flow battery. <i>Ionics</i> , <b>2019</b> , 25, 1215-1222	2.7	2
19	Pd@Co nanoparticles decorated on different carbon based substrates as electrocatalyst for O <sub>2</sub> reduction reaction. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 28513-28526	6.7	2
18	Corrosion and Wear Study of Ni <sub>4</sub> W <sub>2</sub> B/WC Composite Coatings Electroplated by Pulse Plating. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 2000426	3.5	1
17	Novel electrocatalysts for borohydride fuel cells: enhanced power generation by optimizing anodic core-shell nanoparticles on reduced graphene oxide. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 11974-11987	3.6	1

16	Magnetic Behavior of Single Ni Nanowires and its Arrays Embedded in Highly Ordered Nanoporous Alumina Templates. <i>Solid State Phenomena</i> , <b>2014</b> , 215, 298-305	0.4	1
15	Polyaniline nanofibers supported on titanium as templates for immobilization of Pd nanoparticles: A new electro-catalyst for hydrazine oxidation. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 124, n/a-n/a	2.9	1
14	PRAPARATION AND CHARACTERISATION OF TiO <sub>2</sub> NANOTUBULAR ARRAYS FOR ELECTRO-OXIDATION OF ORGANIC COMPOUNDS: EFFECT OF IMMOBILIZATION OF THE NOBLE METAL PARTICLES. <i>International Journal of Modern Physics Conference Series</i> , <b>2012</b> , 05, 41-48	0.7	1
13	Synthesis of poly(3-methylthiophene) in the presence of 1-(2-Pyrrolyl)-2-(2-thienyl) ethylene by electropolymerization. <i>Journal of the Iranian Chemical Society</i> , <b>2008</b> , 5, 559-565	2	1
12	Influence of lead (II) chloride and/or lead (II) bromide entrance on the efficiency and stability of methyl ammonium lead triiodide perovskite solar cell: Comparative study of the halide composition and substitution percentage. <i>Optical Materials</i> , <b>2021</b> , 113, 110888	3.3	1
11	Hierarchical FTO/PPy/ACo <sub>2</sub> O <sub>4</sub> (A: Mn or Ni) with stacks spinel structure as superb photoanodes for photoelectrochemical water splitting. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 272, 124953	4.4	1
10	Superior overall water splitting performance in polypyrrole photoelectrode by coupling NrGO and modifying electropolymerization substrate. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50507	2.9	1
9	Efficient electrochemical removal of 5-fluorouracil pharmaceutical from wastewater by mixed metal oxides via anodic oxidation process.. <i>Chemosphere</i> , <b>2022</b> , 296, 134007	8.4	1
8	Multi-walled carbon nanotube-supported Ni@Pd core-shell electrocatalyst for direct formate fuel cells. <i>Journal of Applied Electrochemistry</i> , <b>2022</b> , 52, 755	2.6	0
7	Cobalt-modified palladium nanocatalyst on nitrogen-doped reduced graphene oxide for direct hydrazine fuel cell.. <i>RSC Advances</i> , <b>2021</b> , 11, 39223-39232	3.7	0
6	Polyaniline film decorated with cadmium sulfide- NrGO nanosheet heterostructure hybrid as highly efficient photoelectrocatalyst for water splitting. <i>Materials Science in Semiconductor Processing</i> , <b>2022</b> , 141, 106425	4.3	0
5	Metal Oxides for Supercapacitors <b>2021</b> , 245-283		0
4	The use of silica in IrO <sub>2</sub> -based DSA type electrode: An efficient approach to construct cost-effective, potent electrodes for oxygen evolution reaction. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 285, 126086	4.4	0
3	Visible-light enhanced azo dye degradation and power generation in a microbial photoelectrochemical cell using AgBr/ZnO composite photocathode.. <i>Bioelectrochemistry</i> , <b>2022</b> , 146, 108139	5.6	0
2	Fabrication and evaluation of the performance of Co/CoNiZnAg nanoporous structures as a good candidate for using as anode catalyst in a hydrazine fuel cell. <i>Materials Technology</i> , <b>2019</b> , 34, 697-703	2.1	
1	Synthesis of nitrogen and phosphorus co-doped graphene quantum dots as metal-free electrocatalysts for ethanol electrooxidation. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 1-10	1.8	