

Mahmoud M Saleh

List of Publications by Year in descending order

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78
papers

2,015
citations

279487

23
h-index

276539

41
g-index

80
all docs

80
docs citations

80
times ranked

1974
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergistic inhibitor effect of cetylpyridinium chloride and other halides on the corrosion of mild steel in 0.5M H ₂ SO ₄ . <i>Corrosion Science</i> , 2013, 66, 343-349.	3.0	122
2	Effects of structure of the ionic head of cationic surfactant on its inhibition of acid corrosion of mild steel. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 899-905.	1.5	101
3	Comparative study of synergistic inhibition of mild steel and pure iron by 1-hexadecylpyridinium chloride and bromide ions. <i>Corrosion Science</i> , 2019, 154, 70-79.	3.0	101
4	Effect of octylphenol polyethylene oxide on the corrosion inhibition of steel in 0.5M H ₂ SO ₄ . <i>Materials Chemistry and Physics</i> , 2004, 86, 26-32.	2.0	89
5	Inhibition of acid corrosion of steel using cetylpyridinium chloride. <i>Journal of Applied Electrochemistry</i> , 2003, 33, 171-177.	1.5	79
6	Inhibition of mild steel corrosion by hexadecylpyridinium bromide in 0.5M H ₂ SO ₄ . <i>Materials Chemistry and Physics</i> , 2006, 98, 83-89.	2.0	78
7	On the synthesis of nickel oxide nanoparticles by sol-gel technique and its electrocatalytic oxidation of glucose. <i>Journal of Power Sources</i> , 2015, 293, 101-108.	4.0	77
8	Electrocatalytic oxidation of methanol on ordered binary catalyst of manganese and nickel oxide nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 275-283.	3.8	72
9	On the electrocatalytic urea oxidation on nickel oxide nanoparticles modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2017, 794, 189-196.	1.9	66
10	Enhanced glucose electrooxidation at a binary catalyst of manganese and nickel oxides modified glassy carbon electrode. <i>Journal of Power Sources</i> , 2013, 223, 125-128.	4.0	64
11	Exploring the effects of symmetrical and asymmetrical relative humidity on the performance of H ₂ /air PEM fuel cell at different temperatures. <i>Journal of Power Sources</i> , 2007, 164, 503-509.	4.0	63
12	Reflux-based synthesis and electrocatalytic characteristics of nickel phosphate nanoparticles. <i>Journal of Power Sources</i> , 2017, 342, 1032-1039.	4.0	60
13	Enhancing the inhibition action of cationic surfactant with sodium halides for mild steel in 0.5M H ₂ SO ₄ . <i>Corrosion Science</i> , 2013, 74, 83-91.	3.0	58
14	Electrocatalytic glucose oxidation at binary catalyst of nickel and manganese oxides nanoparticles modified glassy carbon electrode: Optimization of the loading level and order of deposition. <i>Electrochimica Acta</i> , 2013, 92, 460-467.	2.6	48
15	Adsorption and removal of cationic and anionic surfactants using zero-valent iron nanoparticles. <i>Journal of Molecular Liquids</i> , 2018, 268, 497-505.	2.3	48
16	On the removal of cationic surfactants from dilute streams by granular charcoal. <i>Water Research</i> , 2006, 40, 1052-1060.	5.3	38
17	Electrocatalytic glucose oxidation on electrochemically oxidized glassy carbon modified with nickel oxide nanoparticles. <i>Electrochimica Acta</i> , 2013, 114, 713-719.	2.6	37
18	Electrocatalytic oxidation of formaldehyde on nanoporous nickel phosphate modified electrode. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 1017-1026.	10.8	37

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19	Electrocatalytic Oxidation of Glucose at Nickel Phosphate Nano/Micro Particles Modified Electrode. <i>Electrocatalysis</i> , 2017, 8, 340-350.	1.5	36
20	Design of ultrafine nickel oxide nanostructured material for enhanced electrocatalytic oxidation of urea: Physicochemical and electrochemical analyses. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 585, 124092.	2.3	35
21	Electrowinning of Non-Noble Metals with Simultaneous Hydrogen Evolution at Flow-Through Porous Electrodes: I. Theoretical. <i>Journal of the Electrochemical Society</i> , 1995, 142, 4113-4121.	1.3	31
22	Electrochemical generation of ozone at PbO ₂ -loaded platinum screens. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1877-1883.	1.2	31
23	Biodegradable/biocompatible coated metal implants for orthopedic applications. <i>Bio-Medical Materials and Engineering</i> , 2016, 27, 87-99.	0.4	29
24	Characterization of oxidized reticulated vitreous carbon electrode for oxygen reduction reaction in acid solutions. <i>Electrochimica Acta</i> , 2007, 52, 3095-3104.	2.6	23
25	Ozone Electrogeneration on Pt-Loaded Reticulated Vitreous Carbon Using Flooded and Flow-Through Assembly. <i>Journal of the Electrochemical Society</i> , 2006, 153, D207.	1.3	21
26	Mathematical modeling of gas evolving flow-through porous electrodes. <i>Electrochimica Acta</i> , 1999, 45, 959-967.	2.6	20
27	Tolerance of glucose electrocatalytic oxidation on NiO _x /MnO _x /GC electrode to poisoning by halides. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 5-12.	1.2	20
28	Organic synthesis and inhibition action of novel hydrazide derivative for mild steel corrosion in acid solutions. <i>Materials Chemistry and Physics</i> , 2016, 174, 91-99.	2.0	20
29	Electrocatalytic performance of inorganic nanoflakes nickel phosphates under adjusted synthetic parameters towards urea and methanol oxidation in alkaline media. <i>Microchemical Journal</i> , 2021, 163, 105901.	2.3	20
30	Photoelectrochemical characteristics of ferric tungstate. <i>Journal of Solid State Electrochemistry</i> , 1998, 2, 170-175.	1.2	19
31	Electrowinning of Non-Noble Metals with Simultaneous Hydrogen Evolution at Flow-Through Porous Electrodes: II. Experimental. <i>Journal of the Electrochemical Society</i> , 1995, 142, 4122-4128.	1.3	18
32	Simulation of oxygen evolution reaction at porous anode from flowing electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 811-820.	1.2	18
33	Inhibitory action of quaternary ammonium bromide on mild steel and synergistic effect with other halide ions in 0.5M H ₂ SO ₄ . <i>Journal of Advanced Research</i> , 2014, 5, 637-646.	4.4	18
34	Impact of SO ₂ poisoning of platinum nanoparticles modified glassy carbon electrode on oxygen reduction. <i>Journal of Power Sources</i> , 2011, 196, 3722-3728.	4.0	17
35	Mesoporous NiPh/carbon fibers nanocomposite for enhanced electrocatalytic oxidation of ethanol. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 128-136.	1.9	17
36	Electrowinning of Nonnoble Metals with Simultaneous Hydrogen Evolution at Flow-Through Porous Electrodes: III. Time Effects. <i>Journal of the Electrochemical Society</i> , 1997, 144, 922-927.	1.3	16

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37	On the Effectiveness Factor of Flow-Through Porous Electrodes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13419-13426.	1.2	16
38	Electrochemical Removal of Lead Ions from Flowing Electrolytes Using Packed Bed Electrodes. <i>Journal of the Electrochemical Society</i> , 1999, 146, 208-213.	1.3	15
39	Electrocatalytic production of hydrogen on reticulated vitreous carbon. <i>International Journal of Hydrogen Energy</i> , 2003, 28, 1199-1206.	3.8	15
40	Experimental and theoretical investigation of sorption kinetics of beryllium on Amberlite-IR-120 sorbent. <i>Journal of Nuclear Materials</i> , 2009, 392, 427-433.	1.3	15
41	Water softening using packed bed of polypyrrole from flowing solutions. <i>Desalination</i> , 2009, 235, 319-329.	4.0	15
42	Enhanced adsorption and removal of urea from aqueous solutions using eco-friendly iron phosphate nanoparticles. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102939.	3.3	15
43	Electrocatalytic oxidation of formic acid on nano/micro fibers of poly(p-anisidine) modified platinum electrode. <i>Journal of Power Sources</i> , 2014, 246, 178-183.	4.0	14
44	Synthesis of mesoporous nickel ferrite nanoparticles by use of citrate framework methodology and application for electrooxidation of glucose in alkaline media. <i>Microchemical Journal</i> , 2020, 153, 104507.	2.3	14
45	Applications of Porous Flow-Through Electrodes: V. Electrowinning of Zinc from Flowing Alkaline Zincates at Packed-Bed Electrodes. <i>Journal of the Electrochemical Society</i> , 1994, 141, 441-447.	1.3	13
46	Removal of Some Surfactants from Dilute Aqueous Solutions Using Charcoal. <i>Adsorption Science and Technology</i> , 1999, 17, 53-63.	1.5	13
47	Electrochemical hydrogen evolution on polypyrrole from alkaline solutions. <i>Journal of Applied Electrochemistry</i> , 2000, 30, 939-944.	1.5	13
48	Effects of gas bubbles on the concentration profiles and conversion efficiency of three-dimensional packed-bed electrodes. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 343-351.	1.2	13
49	Application of porous flow through electrodes: IV. Hydrogen evolution on packed bed electrodes of iron spheres in flowing alkaline solutions. <i>Journal of Applied Electrochemistry</i> , 1991, 21, 166-169.	1.5	12
50	Oxygen reduction on rotating porous cylinder of modified reticulated vitreous carbon. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 251-258.	1.2	12
51	Fabrication of biphasic calcium phosphates nanowiskers by reflux approach. <i>Ceramics International</i> , 2018, 44, 16543-16547.	2.3	12
52	Nickel phosphate/carbon fibre nanocomposite for high-performance pseudocapacitors. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 45-55.	1.5	12
53	Comparative study between the photoelectrochemical behaviors of metal-loaded n- and p-GaAs. <i>Thin Solid Films</i> , 1999, 349, 165-170.	0.8	11
54	Temperature effect on the recovery of SO ₂ -Poisoned GC/Nano-Pt electrode towards oxygen reduction. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1727-1734.	1.2	11

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55	Effect of different synthesis routes on the electrocatalytic properties of NiO X nanoparticles. <i>Journal of Molecular Liquids</i> , 2017, 225, 919-925.	2.3	11
56	Facile synthesis and characterization of biphasic magnesium phosphate bioceramic nanosheets by a reflux approach. <i>Materials Research Express</i> , 2019, 6, 095007.	0.8	9
57	Antimicrobial activities of mesoporous nickel phosphate synthesized with low-temperature method. <i>Microchemical Journal</i> , 2019, 145, 113-118.	2.3	9
58	An optimized nickel phosphate/carbon composite electrocatalyst for the oxidation of formaldehyde. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14320-14333.	3.8	9
59	Hydrogen evolution on metallized plastic packed bed electrodes. <i>Electrochimica Acta</i> , 1991, 36, 1899-1905.	2.6	8
60	Removal of urea from dilute streams using RVC/nano-NiOx-modified electrode. <i>Environmental Science and Pollution Research</i> , 2018, 25, 19898-19907.	2.7	8
61	Electrocatalytic Activity of Metal-Loaded Reticulated Vitreous Carbon Electrodes for Hydrogen Evolution from Flowing Alkaline Solutions. <i>Bulletin of the Chemical Society of Japan</i> , 2006, 79, 1711-1718.	2.0	7
62	Absorption/desorption of calcium ions on polypyrrole-loaded reticulated vitreous carbon. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 179-186.	1.5	7
63	Bimetallic nickel/manganese phosphate-carbon nanofiber electrocatalyst for the oxidation of formaldehyde in alkaline medium. <i>RSC Advances</i> , 2022, 12, 20656-20671.	1.7	7
64	Mathematical model: Retention of beryllium on flow-through fixed bed reactor of Amb-IR-120. <i>Chemical Engineering Journal</i> , 2010, 156, 157-164.	6.6	6
65	Experimental validation for a mathematical model describing beryllium retention on flow-through fixed bed reactor of Amb-IR-120. <i>Hydrometallurgy</i> , 2011, 108, 136-142.	1.8	6
66	Electroactivity regeneration of sulfur-poisoned platinum nanoparticle-modified glassy carbon electrode at low anodic potentials. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1331-1340.	1.2	6
67	Corrosion Inhibition of Copper-Iron Alloy in Acid Solution Using Cetylpyridinium Bromide as Cationic Surfactant. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019, 55, 761-769.	0.3	6
68	Direct and indirect electrocatalysis on nickel phosphate-based catalysts. <i>Journal of Electroanalytical Chemistry</i> , 2019, 844, 116-123.	1.9	5
69	Electrochemical methods for fabrication of polymers/calcium phosphates nanocomposites as hard tissue implants. <i>Applied Physics Reviews</i> , 2019, 6, 021303.	5.5	5
70	Mathematical modeling of gas evolution from flowing electrolytes on stable porous anodes of finite matrix phase conductivity. <i>Electrochimica Acta</i> , 2006, 51, 6331-6337.	2.6	4
71	Removal of cationic surfactants from dilute solutions using nanoporous nickel phosphate: A structural, kinetic and thermodynamic study. <i>Journal of Molecular Liquids</i> , 2019, 283, 30-38.	2.3	4
72	Adsorption/Desorption of H ₂ and O ₂ at a p-Cr ₂ O ₃ Surface: Electrical Conductivity Studies. <i>Adsorption Science and Technology</i> , 1998, 16, 503-520.	1.5	3

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73	A novel fabrication of a polymeric ionic liquid hybrid film modified electrode and its successful application to the electrogeneration of a superoxide anion in aqueous media. Chemical Communications, 2015, 51, 3343-3346.	2.2	3
74	Characterization of Oxidized Reticulated Vitreous Carbon for Generation of H ₂ O ₂ from Flowing Acid Solutions. ECS Transactions, 2006, 3, 67-78.	0.3	1
75	Empirical Simulation of the <i>I</i> - <i>E</i> Curves of a H ₂ /Air PEM Fuel Cell at Asymmetric Relative Humidity. Bulletin of the Chemical Society of Japan, 2016, 89, 1455-1461.	2.0	1
76	Anodic Pretreatment of Glassy Carbon: Impacts on Structural and Electrochemical Characteristics of NiO Nanoparticles. International Journal of Biosensors & Bioelectronics, 2017, 2, .	0.2	1
77	Studies of the Adsorption of SO ₂ , H ₂ and O ₂ on a Cr ₂ O ₃ Surface by an Electrical Conductivity Technique. Adsorption Science and Technology, 1999, 17, 375-387.	1.5	0
78	Application of Metallized Plastic Electrodes for Electrowinning of Metals. , 1992, , 73-82.		0