

Mahmoud M Saleh

List of Publications by Year in descending order

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78
papers

2,015
citations

279798
23
h-index

276875
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 . Corrosion Science, 2013, 66, 343-349.	6.6	122
2	Effects of structure of the ionic head of cationic surfactant on its inhibition of acid corrosion of mild steel. Journal of Applied Electrochemistry, 2006, 36, 899-905.	2.9	101
3	Comparative study of synergistic inhibition of mild steel and pure iron by 1-hexadecylpyridinium chloride and bromide ions. Corrosion Science, 2019, 154, 70-79.	6.6	101
4	Effect of octylphenol polyethylene oxide on the corrosion inhibition of steel in 0.5M H ₂ SO ₄ . Materials Chemistry and Physics, 2004, 86, 26-32.	4.0	89
5	Inhibition of acid corrosion of steel using cetylpyridinium chloride. Journal of Applied Electrochemistry, 2003, 33, 171-177.	2.9	79
6	Inhibition of mild steel corrosion by hexadecylpyridinium bromide in 0.5M H ₂ SO ₄ . Materials Chemistry and Physics, 2006, 98, 83-89.	4.0	78
7	On the synthesis of nickel oxide nanoparticles by sol-gel technique and its electrocatalytic oxidation of glucose. Journal of Power Sources, 2015, 293, 101-108.	7.8	77
8	Electrocatalytic oxidation of methanol on ordered binary catalyst of manganese and nickel oxide nanoparticles. International Journal of Hydrogen Energy, 2015, 40, 275-283.	7.1	72
9	On the electrocatalytic urea oxidation on nickel oxide nanoparticles modified glassy carbon electrode. Journal of Electroanalytical Chemistry, 2017, 794, 189-196.	3.8	66
10	Enhanced glucose electrooxidation at a binary catalyst of manganese and nickel oxides modified glassy carbon electrode. Journal of Power Sources, 2013, 223, 125-128.	7.8	64
11	Exploring the effects of symmetrical and asymmetrical relative humidity on the performance of H ₂ /air PEM fuel cell at different temperatures. Journal of Power Sources, 2007, 164, 503-509.	7.8	63
12	Reflux-based synthesis and electrocatalytic characteristics of nickel phosphate nanoparticles. Journal of Power Sources, 2017, 342, 1032-1039.	7.8	60
13	Enhancing the inhibition action of cationic surfactant with sodium halides for mild steel in 0.5M H ₂ SO ₄ . Corrosion Science, 2013, 74, 83-91.	6.6	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. Electrochimica Acta, 2013, 92, 460-467.	5.2	48
15	Adsorption and removal of cationic and anionic surfactants using zero-valent iron nanoparticles. Journal of Molecular Liquids, 2018, 268, 497-505.	4.9	48
16	On the removal of cationic surfactants from dilute streams by granular charcoal. Water Research, 2006, 40, 1052-1060.	11.3	38
17	Electrocatalytic glucose oxidation on electrochemically oxidized glassy carbon modified with nickel oxide nanoparticles. Electrochimica Acta, 2013, 114, 713-719.	5.2	37
18	Electrocatalytic oxidation of formaldehyde on nanoporous nickel phosphate modified electrode. Applied Catalysis B: Environmental, 2018, 224, 1017-1026.	20.2	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.	3.0	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.	4.7	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.	2.9	31
22	Electrochemical generation of ozone at PbO ₂ -loaded platinum screens. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1877-1883.	2.5	31
23	Biodegradable/biocompatible coated metal implants for orthopedic applications. <i>Bio-Medical Materials and Engineering</i> , 2016, 27, 87-99.	0.6	29
24	Characterization of oxidized reticulated vitreous carbon electrode for oxygen reduction reaction in acid solutions. <i>Electrochimica Acta</i> , 2007, 52, 3095-3104.	5.2	23
25	Ozone Electrogenation on Pt-Loaded Reticulated Vitreous Carbon Using Flooded and Flow-Through Assembly. <i>Journal of the Electrochemical Society</i> , 2006, 153, D207.	2.9	21
26	Mathematical modeling of gas evolving flow-through porous electrodes. <i>Electrochimica Acta</i> , 1999, 45, 959-967.	5.2	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.	2.5	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.	4.0	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.	4.5	20
30	Photoelectrochemical characteristics of ferric tungstate. <i>Journal of Solid State Electrochemistry</i> , 1998, 2, 170-175.	2.5	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.	2.9	18
32	Simulation of oxygen evolution reaction at porous anode from flowing electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 811-820.	2.5	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.	9.5	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.	7.8	17
35	Mesoporous NiPh/carbon fibers nanocomposite for enhanced electrocatalytic oxidation of ethanol. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 128-136.	3.8	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.	2.9	16

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37	On the Effectiveness Factor of Flow-Through Porous Electrodes. Journal of Physical Chemistry B, 2004, 108, 13419-13426.	2.6	16
38	Electrochemical Removal of Lead Ions from Flowing Electrolytes Using Packed Bed Electrodes. Journal of the Electrochemical Society, 1999, 146, 208-213.	2.9	15
39	Electrocatalytic production of hydrogen on reticulated vitreous carbon. International Journal of Hydrogen Energy, 2003, 28, 1199-1206.	7.1	15
40	Experimental and theoretical investigation of sorption kinetics of beryllium on Amberlite-IR-120 sorbent. Journal of Nuclear Materials, 2009, 392, 427-433.	2.7	15
41	Water softening using packed bed of polypyrrole from flowing solutions. Desalination, 2009, 235, 319-329.	8.2	15
42	Enhanced adsorption and removal of urea from aqueous solutions using eco-friendly iron phosphate nanoparticles. Journal of Environmental Chemical Engineering, 2019, 7, 102939.	6.7	15
43	Electrocatalytic oxidation of formic acid on nano/micro fibers of poly(p-anisidine) modified platinum electrode. Journal of Power Sources, 2014, 246, 178-183.	7.8	14
44	Synthesis of mesoporous nickel ferrite nanoparticles by use of citrate framework methodology and application for electrooxidation of glucose in alkaline media. Microchemical Journal, 2020, 153, 104507.	4.5	14
45	Applications of Porous Flow-Through Electrodes: V. Electrowinning of Zinc from Flowing Alkaline Zincates at Packed-Bed Electrodes. Journal of the Electrochemical Society, 1994, 141, 441-447.	2.9	13
46	Removal of Some Surfactants from Dilute Aqueous Solutions Using Charcoal. Adsorption Science and Technology, 1999, 17, 53-63.	3.2	13
47	Electrochemical hydrogen evolution on polypyrrole from alkaline solutions. Journal of Applied Electrochemistry, 2000, 30, 939-944.	2.9	13
48	Effects of gas bubbles on the concentration profiles and conversion efficiency of three-dimensional packed-bed electrodes. Journal of Solid State Electrochemistry, 2009, 13, 343-351.	2.5	13
49	Application of porous flow through electrodes: IV. Hydrogen evolution on packed bed electrodes of iron spheres in flowing alkaline solutions. Journal of Applied Electrochemistry, 1991, 21, 166-169.	2.9	12
50	Oxygen reduction on rotating porous cylinder of modified reticulated vitreous carbon. Journal of Solid State Electrochemistry, 2008, 12, 251-258.	2.5	12
51	Fabrication of biphasic calcium phosphates nanowhiskers by reflux approach. Ceramics International, 2018, 44, 16543-16547.	4.8	12
52	Nickel phosphate/carbon fibre nanocomposite for high-performance pseudocapacitors. Journal of Applied Electrochemistry, 2019, 49, 45-55.	2.9	12
53	Comparative study between the photoelectrochemical behaviors of metal-loaded n- and p-GaAs. Thin Solid Films, 1999, 349, 165-170.	1.8	11
54	Temperature effect on the recovery of SO ₂ -Poisoned GC/Nano-Pt electrode towards oxygen reduction. Journal of Solid State Electrochemistry, 2010, 14, 1727-1734.	2.5	11

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55	Effect of different synthesis routes on the electrocatalytic properties of NiO X nanoparticles. Journal of Molecular Liquids, 2017, 225, 919-925.	4.9	11
56	Facile synthesis and characterization of biphasic magnesium phosphate bioceramic nanosheets by a reflux approach. Materials Research Express, 2019, 6, 095007.	1.6	9
57	Antimicrobial activities of mesoporous nickel phosphate synthesized with low-temperature method. Microchemical Journal, 2019, 145, 113-118.	4.5	9
58	An optimized nickel phosphate/carbon composite electrocatalyst for the oxidation of formaldehyde. International Journal of Hydrogen Energy, 2020, 45, 14320-14333.	7.1	9
59	Hydrogen evolution on metallized plastic packed bed electrodes. Electrochimica Acta, 1991, 36, 1899-1905.	5.2	8
60	Removal of urea from dilute streams using RVC/nano-NiOx-modified electrode. Environmental Science and Pollution Research, 2018, 25, 19898-19907.	5.3	8
61	Electrocatalytic Activity of Metal-Loaded Reticulated Vitreous Carbon Electrodes for Hydrogen Evolution from Flowing Alkaline Solutions. Bulletin of the Chemical Society of Japan, 2006, 79, 1711-1718.	3.2	7
62	Absorption/desorption of calcium ions on polypyrrole-loaded reticulated vitreous carbon. Journal of Applied Electrochemistry, 2006, 36, 179-186.	2.9	7
63	Bimetallic nickel/manganese phosphate-carbon nanofiber electrocatalyst for the oxidation of formaldehyde in alkaline medium. RSC Advances, 2022, 12, 20656-20671.	3.6	7
64	Mathematical model: Retention of beryllium on flow-through fixed bed reactor of Amb-IR-120. Chemical Engineering Journal, 2010, 156, 157-164.	12.7	6
65	Experimental validation for a mathematical model describing beryllium retention on flow-through fixed bed reactor of Amb-IR-120. Hydrometallurgy, 2011, 108, 136-142.	4.3	6
66	Electroactivity regeneration of sulfur-poisoned platinum nanoparticle-modified glassy carbon electrode at low anodic potentials. Journal of Solid State Electrochemistry, 2015, 19, 1331-1340.	2.5	6
67	Corrosion Inhibition of Copper-Iron Alloy in Acid Solution Using Cetylpyridinium Bromide as Cationic Surfactant. Protection of Metals and Physical Chemistry of Surfaces, 2019, 55, 761-769.	1.1	6
68	Direct and indirect electrocatalysis on nickel phosphate-based catalysts. Journal of Electroanalytical Chemistry, 2019, 844, 116-123.	3.8	5
69	Electrochemical methods for fabrication of polymers/calcium phosphates nanocomposites as hard tissue implants. Applied Physics Reviews, 2019, 6, 021303.	11.3	5
70	Mathematical modeling of gas evolution from flowing electrolytes on stable porous anodes of finite matrix phase conductivity. Electrochimica Acta, 2006, 51, 6331-6337.	5.2	4
71	Removal of cationic surfactants from dilute solutions using nanoporous nickel phosphate: A structural, kinetic and thermodynamic study. Journal of Molecular Liquids, 2019, 283, 30-38.	4.9	4
72	Adsorption/Desorption of H_2 and O_2 at a $p-Cr_2O_3$ Surface: Electrical Conductivity Studies. Adsorption Science and Technology, 1998, 16, 503-520.	3.2	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.	4.1	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.	0.5	1
75	Empirical Simulation of the i - E Curves of a H ₂ /Air PEM Fuel Cell at Asymmetric Relative Humidity. Bulletin of the Chemical Society of Japan, 2016, 89, 1455-1461.	3.2	1
76	Anodic Pretreatment of Glassy Carbon: Impacts on Structural and Electrochemical Characteristics of NiOx 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.	3.2	0
78	Application of Metallized Plastic Electrodes for Electrowinning of Metals. , 1992, , 73-82.		0