Randa Abdel Hameed

List of Publications by Year
in descending order

50 papers	2,130 citations	236612 25 h-index	223531 46 g-index
50 all docs	50 docs citations	50 times ranked	2374 citing authors

#	Article	IF	Citations
1	Nickel as a catalyst for the electro-oxidation of methanol in alkaline medium. Journal of Power Sources, 2004, 134, 160-169.	4.0	487
2	Development of Cu2O/Carbon Vulcan XC-72 as non-enzymatic sensor for glucose determination. Biosensors and Bioelectronics, 2011, 26, 3542-3548.	5.3	141
3	Niâ€“P and Niâ€“Cuâ€“P modified carbon catalysts for methanol electro-oxidation in KOH solution. International Journal of Hydrogen Energy, 2010, 35, 2517-2529.	3.8	130
4	Electrocatalytic activity of nanostructured Ni and Pdâ€“Ni on Vulcan XC-72R carbon black for methanol oxidation in alkaline medium. International Journal of Hydrogen Energy, 2014, 39, 2026-2041.	3.8	83
5	Ptâ€“NiO/C anode electrocatalysts for direct methanol fuel cells. Electrochimica Acta, 2012, 59, 499-508.	2.6	78
6	Microwave irradiated nickel nanoparticles on Vulcan XC-72R carbon black for methanol oxidation reaction in KOH solution. Applied Catalysis B: Environmental, 2015, 162, 217-226.	10.8	67
7	Amperometric glucose sensor based on nickel nanoparticles/carbon Vulcan XC-72R. Biosensors and Bioelectronics, 2013, 47, 248-257.	5.3	63
8	Influence of support material on the electrocatalytic activity of nickel oxide nanoparticles for urea electro-oxidation reaction. Journal of Colloid and Interface Science, 2018, 513, 536-548.	5.0	61
9	NiO nanoparticles on graphene nanosheets at different calcination temperatures as effective electrocatalysts for urea electro-oxidation in alkaline medium. Journal of Colloid and Interface Science, 2017, 508, 291-302.	5.0	59
10	Niâ€“P and Niâ€“Coâ€“P coated aluminum alloy 5251 substrates as metallic bipolar plates for PEM fuel cell applications. International Journal of Hydrogen Energy, 2012, 37, 7677-7688.	3.8	56
11	Enhanced electrocatalytic activity of NiO nanoparticles supported on graphite planes towards urea electro-oxidation in NaOH solution. International Journal of Hydrogen Energy, 2017, 42, 24117-24130.	3.8	56
12	Electrochemical impedance studies of modified Niâ€“P and Niâ€“Cuâ€“P deposits in alkaline medium. Electrochimica Acta, 2010, 55, 5922-5929.	2.6	50
13	Microwave heated synthesis of carbon supported Pd, Ni and Pdâ€“Ni nanoparticles for methanol oxidation in KOH solution. Applied Catalysis B: Environmental, 2014, 148-149, 557-567.	10.8	50
14	Effect of preparation conditions on the performance of nano Ptâ€'CuO/C electrocatalysts for methanol electro-oxidation. International Journal of Hydrogen Energy, 2012, 37, 18870-18881.	3.8	43
15	Improved electrocatalytic kinetics of nickel hydroxide nanoparticles on Vulcan XC-72R carbon black towards alkaline urea oxidation reaction. International Journal of Hydrogen Energy, 2019, 44, 3636-3648.	3.8	36
16	The role of a bimetallic catalyst in enhancing the electro-catalytic activity towards methanol oxidation. Journal of Power Sources, 2004, 135, 42-51.	4.0	35
17	Niâ€“P and Niâ€“Moâ€“P modified aluminium alloy 6061 as bipolar plate material for proton exchange membrane fuel cells. Journal of Power Sources, 2013, 240, 589-597.	4.0	35
18	Facile preparation of Pd-metal oxide/C electrocatalysts and their application in the electrocatalytic oxidation of ethanol. Applied Surface Science, 2017, 411, 91-104.	3.1	35

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19	Sensitive nitrite detection at core-shell structured Cu@Pt nanoparticles supported on graphene. Applied Surface Science, 2018, 458, 252-263.	3.1	35
20	Effect of nickel loading in Ni@Pt/C electrocatalysts on their activity for ethanol oxidation in alkaline medium. Electrochimica Acta, 2017, 242, 187-201.	2.6	32
21	Enhanced ethanol electro-oxidation reaction on carbon supported Pd-metal oxide electrocatalysts. Journal of Colloid and Interface Science, 2017, 505, 230-240.	5.0	31
22	Construction of core-shell structured nickel@platinum nanoparticles on graphene sheets for electrochemical determination of nitrite in drinking water samples. Microchemical Journal, 2019, 145, 354-366.	2.3	31
23	Nickel oxide nanoparticles grown on mesoporous carbon as an efficient electrocatalyst for urea electro-oxidation. International Journal of Hydrogen Energy, 2018, 43, 20591-20606.	3.8	29
24	Preparation and characterization of Ptâ€“CeO2/C and Ptâ€“TiO2/C electrocatalysts with improved electrocatalytic activity for methanol oxidation. Applied Surface Science, 2016, 367, 382-390.	3.1	28
25	Decorated carbon nanofibers with mixed nickelâ^'manganese carbides for methanol electro-oxidation in alkaline solution. International Journal of Hydrogen Energy, 2021, 46, 6494-6512.	3.8	27
26	Study of different aluminum alloy substrates coated with Niâ€“Coâ€“P as metallic bipolar plates for PEM fuel cell applications. International Journal of Hydrogen Energy, 2012, 37, 10807-10817.	3.8	26
27	Promotion effect of manganese oxide on the electrocatalytic activity of Pt/C for methanol oxidation in acid medium. Applied Surface Science, 2015, 359, 651-663.	3.1	26
28	Coreâ€“shell structured Cu@Pt nanoparticles as effective electrocatalyst for ethanol oxidation in alkaline medium. International Journal of Hydrogen Energy, 2017, 42, 14680-14696.	3.8	24
29	Optimization of manganese oxide amount on Vulcan XC-72R carbon black as a promising support of Ni nanoparticles for methanol electro-oxidation reaction. International Journal of Hydrogen Energy, 2015, 40, 13979-13993.	3.8	22
30	Synthesis of Ptâ€“Co nanoparticles on multi-walled carbon nanotubes for methanol oxidation in H2SO4 solution. Applied Catalysis A: General, 2011, 407, 195-203.	2.2	21
31	Preparation, characterization and electrochemical application of CuNiO nanoparticles supported on graphite for potentiometric determination of copper ions in spiked water samples. Microchemical Journal, 2019, 144, 110-116.	2.3	20
32	Evaluation of core-shell structured cobalt@platinum nanoparticles-decorated graphene for nitrite sensing. Synthetic Metals, 2019, 247, 67-80.	2.1	19
33	Development of electroless Niâ€“P modified aluminum substrates in a simulated fuel cell environment. Journal of Industrial and Engineering Chemistry, 2015, 30, 239-248.	2.9	18
34	Microwave irradiated Niâ€“MnO /C as an electrocatalyst for methanol oxidation in KOH solution for fuel cell application. Applied Surface Science, 2015, 357, 417-428.	3.1	18
35	Electrocatalytic activity of Ptâ€“ZrO2 supported on different carbon materials for methanol oxidation in H2SO4 solution. International Journal of Hydrogen Energy, 2016, 41, 1846-1858.	3.8	18
36	CoCr 7 C 3 -like nanorods embedded on carbon nanofibers as effective electrocatalyst for methanol electro-oxidation. International Journal of Hydrogen Energy, 2018, 43, 9943-9953.	3.8	18

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37	Synthesis and characterization of WC@GNFs as an efficient supercapacitor electrode material in acidic medium. Ceramics International, 2020, 46, 27437-27445.	2.3	18
38	Niâ€“Pâ€“SnO2/C composite: Synthesis, characterization and electrocatalytic activity for methanol oxidation in KOH solution. International Journal of Hydrogen Energy, 2015, 40, 10262-10273.	3.8	16
39	Tungsten carbide@graphene nanoflakes: Preparation, characterization and electrochemical activity for capacitive deionization technology. Journal of Colloid and Interface Science, 2021, 581, 112-125.	5.0	16
40	Enhanced electro-adsorption desalination performance of graphene by TiC. Separation and Purification Technology, 2021, 254, 117602.	3.9	15
41	Fabrication of electrospun nickel sulphide nanoparticles onto carbon nanofibers for efficient urea electro-oxidation in alkaline medium. International Journal of Hydrogen Energy, 2021, 46, 12944-12960.	3.8	12
42	Core-shell structured Pt-transition metals nanoparticles supported on activated carbon for direct methanol fuel cells. Microchemical Journal, 2019, 145, 566-577.	2.3	9
43	Tin oxide as a promoter for copper@palladium nanoparticles on graphene sheets during ethanol electro-oxidation in NaOH solution. Journal of Molecular Liquids, 2020, 297, 111816.	2.3	8
44	Facile synthesis of electrospun transition metallic nanofibrous mats with outstanding activity for ethylene glycol electro-oxidation in alkaline solution. Molecular Catalysis, 2022, 522, 112186.	1.0	8
45	Preparation, characterization and electrocatalytic activity of transition metal @ platinum on carbon support for alkaline ethanol electro-oxidation. Journal of Porous Materials, 2019, 26, 971-986.	1.3	6
46	Insights on the role of supporting electrospun carbon nanofibers with binary metallic carbides for enhancing their capacitive deionization performance. Journal of Materials Research and Technology, 2021, 15, 3795-3806.	2.6	5
47	Tin oxide species as promotive additives to Ni-P/C electrocatalysts for ethanol electro-oxidation in NaOH solution. Microchemical Journal, 2019, 146, 250-257.	2.3	4
48	Nickel Oxide Nanoparticles Supported on Graphitized Carbon for Ethanol Oxidation in NaOH Solution. Journal of Cluster Science, 2019, 30, 1003-1016.	1.7	3
49	Influence of incorporating manganese in Pt/C on its electrochemical performance towards pseudoephedrine HCl assaying. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 570, 11-21.	2.3	1
50	Chemically modified screenâ€printed electrodes as efficient potentiometric sensors for cyclobenzaprine hydrochloride determination in pure and pharmaceutical preparations. Applied Organometallic Chemistry, 2020, 34, e5439.	1.7	1