

Mohamed A Ghanem

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97
papers

2,910
citations

27
h-index

50
g-index

108
ext. papers

3,248
ext. citations

4.5
avg, IF

5.39
L-index

#	Paper	IF	Citations
97	Highly Ordered Macroporous Gold and Platinum Films Formed by Electrochemical Deposition through Templates Assembled from Submicron Diameter Monodisperse Polystyrene Spheres. <i>Chemistry of Materials</i> , 2002 , 14, 2199-2208	9.6	302
96	Electrochemical deposition of macroporous platinum, palladium and cobalt films using polystyrene latex sphere templates. <i>Chemical Communications</i> , 2000 , 1671-1672	5.8	199
95	Electrochemical syntheses of highly ordered macroporous conducting polymers grown around self-assembled colloidal templates. <i>Journal of Materials Chemistry</i> , 2001 , 11, 849-853		157
94	Confined plasmons in metallic nanocavities. <i>Physical Review Letters</i> , 2001 , 87, 176801	7.4	141
93	Electrocatalytic activity and simultaneous determination of catechol and hydroquinone at mesoporous platinum electrode. <i>Electrochemistry Communications</i> , 2007 , 9, 2501-2506	5.1	127
92	Electrochemical deposition of macroporous magnetic networks using colloidal templates. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2596		107
91	The Electrochemical Deposition of Nanostructured Cobalt Films from Lyotropic Liquid Crystalline Media. <i>Journal of the Electrochemical Society</i> , 2001 , 148, C119	3.9	94
90	Templated electrochemical deposition of nanostructured macroporous PbO ₂ . <i>Journal of Materials Chemistry</i> , 2002 , 12, 3130-3135		81
89	A low cost additive-free facile synthesis of BiFeWO/BiVO nanocomposite with enhanced visible-light induced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2017 , 506, 553-563	9.3	71
88	Synthesis of Ni ₃ V ₂ O ₈ @graphene oxide nanocomposite as an efficient electrode material for supercapacitor applications. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 527-536	2.6	65
87	Rod-on-flake FeOOH/BiOI nanocomposite: Facile synthesis, characterization and enhanced photocatalytic performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 537, 435-445	5.1	63
86	A double templated electrodeposition method for the fabrication of arrays of metal nanodots. <i>Electrochemistry Communications</i> , 2004 , 6, 447-453	5.1	63
85	Covalent modification of glassy carbon surface with organic redox probes through diamine linkers using electrochemical and solid-phase synthesis methodologies. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4917		55
84	Nickel oxide/nitrogen doped carbon nanofibers catalyst for methanol oxidation in alkaline media. <i>Electrochimica Acta</i> , 2014 , 137, 774-780	6.7	54
83	Covalent tethering of organic functionality to the surface of glassy carbon electrodes by using electrochemical and solid-phase synthesis methodologies. <i>Chemistry - A European Journal</i> , 2008 , 14, 2548-2556	4.8	52
82	Enhanced electrocatalytic performance of mesoporous nickel-cobalt oxide electrode for methanol oxidation in alkaline solution. <i>Materials Letters</i> , 2017 , 196, 365-368	3.3	44
81	Zinc oxide incorporated carbon nanotubes or graphene oxide nanohybrids for enhanced sonophotocatalytic degradation of methylene blue dye. <i>Applied Surface Science</i> , 2019 , 487, 539-549	6.7	42

80	Confined Surface Plasmons in Gold Photonic Nanocavities. <i>Advanced Materials</i> , 2001 , 13, 1368-1370	24	41
79	Magnetic antidot arrays from self-assembly template methods. <i>Journal of Applied Physics</i> , 2003 , 93, 7322-7324	39	
78	Electrochemical and solid-phase synthetic modification of glassy carbon electrodes with dihydroxybenzene compounds and the electrocatalytic oxidation of NADH. <i>Bioelectrochemistry</i> , 2009 , 76, 115-25	5.6	34
77	Enhancing the Optical Absorption and Interfacial Properties of BiVO ₄ with Ag ₃ PO ₄ Nanoparticles for Efficient Water Splitting. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11608-11615	3.8	33
76	Mesoporous platinum hosts for electrode liquid liquid triple phase boundary redox systems. <i>Electrochemistry Communications</i> , 2005 , 7, 1333-1339	5.1	33
75	Microwave activation of electrochemical processes: High temperature phenol and triclosan electro-oxidation at carbon and diamond electrodes. <i>Electrochimica Acta</i> , 2007 , 53, 1092-1099	6.7	32
74	Mesoporous cobalt hydroxide prepared using liquid crystal template for efficient oxygen evolution in alkaline media. <i>Electrochimica Acta</i> , 2016 , 207, 177-186	6.7	31
73	Metal-organic-silica nanocomposites: copper, silver nanoparticles-ethylene diamine-silica gel and their CO ₂ adsorption behaviour. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12032		30
72	Microwave-Assisted Synthesis of Co ₃ (PO ₄) ₂ Nanospheres for Electrocatalytic Oxidation of Methanol in Alkaline Media. <i>Catalysts</i> , 2017 , 7, 119	4	28
71	Microwave activation of the electro-oxidation of glucose in alkaline media. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 3552-9	3.6	28
70	Cooperative Catalytic Effect of ZrO and Fe ₂ O ₃ Nanoparticles on BiVO ₄ Photoanodes for Enhanced Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2016 , 9, 2779-2783	8.3	27
69	Shape induced anomalies in vortex pinning and dynamics of superconducting antidot arrays with spherical cavities. <i>Applied Physics Letters</i> , 2006 , 89, 092503	3.4	27
68	Mesoporous Nickel/Nickel Hydroxide Catalyst Using Liquid Crystal Template for Ethanol Oxidation in Alkaline Solution. <i>Journal of the Electrochemical Society</i> , 2015 , 162, H453-H459	3.9	26
67	Covalent modification of carbon nanotubes with anthraquinone by electrochemical grafting and solid phase synthesis. <i>Electrochimica Acta</i> , 2012 , 68, 74-80	6.7	26
66	Waste PET plastic derived ZnO@NMC nanocomposite via MOF-5 construction for hydrogen and oxygen evolution reactions. <i>Journal of King Saud University - Science</i> , 2020 , 32, 2397-2405	3.6	25
65	Lowering energy band gap and enhancing photocatalytic properties of Cu/ZnO composite decorated by transition metals. <i>Journal of Molecular Structure</i> , 2018 , 1173, 1-6	3.4	25
64	Microwave induced jet boiling investigated via voltammetry at ring-disk microelectrodes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17589-94	3.4	25
63	A low-cost visible light active BiFeWO ₆ /TiO ₂ nanocomposite with an efficient photocatalytic and photoelectrochemical performance. <i>Optical Materials</i> , 2018 , 81, 84-92	3.3	24

62	Activation effect of silver nanoparticles on the photoelectrochemical performance of mesoporous TiO ₂ nanospheres photoanodes for water oxidation reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11346-11355	6.7	23
61	Sequestration of CO ₂ using Cu nanoparticles supported on spherical and rod-shape mesoporous silica. <i>Journal of Saudi Chemical Society</i> , 2018 , 22, 343-351	4.3	23
60	Photoelectrochemical oxidation of water using La(Ta,Nb)O ₂ N modified electrodes. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11644-11652	6.7	23
59	Hydrothermally synthesized nickel molybdenum selenide composites as cost-effective and efficient trifunctional electrocatalysts for water splitting reactions. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 22796-22805	6.7	23
58	A study of the modification of glassy carbon and edge and basal plane highly oriented pyrolytic graphite electrodes modified with anthraquinone using diazonium coupling and solid phase synthesis and their use for oxygen reduction. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 706, 25-32	4.1	22
57	Oscillatory thickness dependence of the coercive field in magnetic three-dimensional antidot arrays. <i>Applied Physics Letters</i> , 2006 , 88, 062511	3.4	21
56	Microwave assisted synthesis and characterization of Ni/NiO nanoparticles as electrocatalyst for methanol oxidation in alkaline solution. <i>Materials Research Express</i> , 2017 , 4, 025035	1.7	20
55	Selective formation of hydrogen peroxide by oxygen reduction on TiO ₂ nanotubes in alkaline media. <i>Electrochimica Acta</i> , 2015 , 174, 557-562	6.7	19
54	The oxidation of ascorbate at copolymeric sulfonated poly(aniline) coated on glassy carbon electrodes. <i>Bioelectrochemistry</i> , 2011 , 80, 105-13	5.6	19
53	Incorporation of Cu, Fe, Ag, and Au nanoparticles in mercapto-silica (MOS) and their CO ₂ adsorption capacities. <i>Journal of CO₂ Utilization</i> , 2014 , 5, 17-23	7.6	18
52	Covalent modification of glassy carbon surfaces by using electrochemical and solid-phase synthetic methodologies: application to bi- and trifunctionalisation with different redox centres. <i>Chemistry - A European Journal</i> , 2009 , 15, 11928-36	4.8	18
51	Efficient Bi-Functional Electrocatalysts of Strontium Iron Oxy-Halides for Oxygen Evolution and Reduction Reactions in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H450-H458	3.9	17
50	Microwave-enhanced electrochemical processes in micellar surfactant media. <i>Journal of Solid State Electrochemistry</i> , 2005 , 9, 809-815	2.6	17
49	Highly dispersed platinum nanoparticles supported on silica as catalyst for hydrogen production. <i>RSC Advances</i> , 2014 , 4, 50114-50122	3.7	16
48	Concurrent Deposition and Exfoliation of Nickel Hydroxide Nanoflakes Using Liquid Crystal Template and Their Activity for Urea Electrooxidation in Alkaline Medium. <i>Electrocatalysis</i> , 2017 , 8, 16-26	2.7	16
47	Microwave-enhanced electro-deposition and stripping of palladium at boron-doped diamond electrodes. <i>Talanta</i> , 2007 , 72, 66-71	6.2	16
46	Superconducting anti-dot arrays from self-assembly template methods. <i>Physica C: Superconductivity and Its Applications</i> , 2004 , 404, 455-459	1.3	16
45	Photovoltaic and capacitance performance of low-resistance ZnO nanorods incorporated into carbon nanotube-graphene oxide nanocomposites. <i>Electrochimica Acta</i> , 2019 , 307, 430-441	6.7	15

44	Self-grown one-dimensional nickel sulfo-selenide nanostructured electrocatalysts for water splitting reactions. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 15904-15914	6.7	15
43	Microwave enhanced electroanalysis of formulations: processes in micellar media at glassy carbon and at platinum electrodes. <i>Analyst, The</i> , 2005 , 130, 1425-31	5	15
42	Low-Symmetry Mesoporous Titanium Dioxide (lsm-TiO ₂) Electrocatalyst for Efficient and Durable Oxygen Evolution in Aqueous Alkali. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H300-H309	3.9	14
41	Development of a nanowire-based test bed device for molecular electronics applications. <i>Analytical Chemistry</i> , 2006 , 78, 951-5	7.8	14
40	Ordered sub-micron magnetic dot arrays using self-assembly template method. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 286, 1-4	2.8	14
39	Mesoporous titanium dioxide photoanodes decorated with gold nanoparticles for boosting the photoelectrochemical alkali water oxidation. <i>Materials Chemistry and Physics</i> , 2018 , 213, 56-66	4.4	13
38	Mesoporous Tungsten Trioxide Photoanodes Modified with Nitrogen-Doped Carbon Quantum Dots for Enhanced Oxygen Evolution Photo-Reaction. <i>Nanomaterials</i> , 2019 , 9,	5.4	12
37	Microwave Activation of Processes in Mesopores: The Thiourea Electrooxidation at Mesoporous Platinum. <i>Electroanalysis</i> , 2006 , 18, 793-800	3	12
36	Capillary electrophoresis with microwave-enhanced electrochemical detection. <i>Analyst, The</i> , 2006 , 131, 1210-2	5	12
35	Coercivity of 3D nanoscale magnetic arrays from self-assembly template methods. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1621-1622	2.8	12
34	Recent Developments in the Use of Heterogeneous Semiconductor Photocatalyst Based Materials for a Visible-Light-Induced Water-Splitting System: A Brief Review. <i>Catalysts</i> , 2021 , 11, 160	4	12
33	Enriched active surface structure in nanosized tungsten-cobalt oxides electrocatalysts for efficient oxygen redox reactions. <i>Applied Surface Science</i> , 2020 , 513, 145831	6.7	11
32	Zinc Tantalum Oxynitride (ZnTaO _x N _y) Photoanode Modified with Cobalt Phosphate Layers for the Photoelectrochemical Oxidation of Alkali Water. <i>Nanomaterials</i> , 2018 , 8,	5.4	11
31	Mesoporous cobalt phosphate electrocatalyst prepared using liquid crystal template for methanol oxidation reaction in alkaline solution. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 2873-2882	5.9	11
30	Development of Conducting Poly(o-Aminophenol) Film and its Capacitance Behavior. <i>International Journal of Electrochemical Science</i> , 2016 , 9987-9997	2.2	10
29	Low-loading of oxidized platinum nanoparticles into mesoporous titanium dioxide for effective and durable hydrogen evolution in acidic media. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 2257-2270	5.9	10
28	Electrodeposited Co _{1-x} MoxS thin films as highly efficient electrocatalysts for hydrogen evolution reaction in acid medium. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 2641-2647	2.6	9
27	Bifunctional Electrocatalyst of Low-Symmetry Mesoporous Titanium Dioxide Modified with Cobalt Oxide for Oxygen Evolution and Reduction Reactions. <i>Catalysts</i> , 2019 , 9, 836	4	9

26	Solid phase modification of carbon nanotubes with anthraquinone and nitrobenzene functional groups. <i>Electrochemistry Communications</i> , 2013 , 34, 258-262	5.1	9
25	Magnetic nano-scale dot arrays from double-templated electrodeposition. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, E1369-E1371	2.8	9
24	Enhanced photoelectrochemical oxidation of alkali water over cobalt phosphate (Co-Pi) catalyst-modified ZnLaTaON ₂ photoanodes. <i>Ionics</i> , 2019 , 25, 737-745	2.7	8
23	Modification of nanostructured gold surfaces with organic functional groups using electrochemical and solid-phase synthesis methodologies. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 670, 42-49	4.1	7
22	Optical coupling between a self-assembled microsphere grating and a rib waveguide. <i>Applied Physics Letters</i> , 2004 , 84, 3513-3515	3.4	6
21	Patterned magnetic media from self-assembly template methods. <i>IET Science, Measurement and Technology</i> , 2003 , 150, 257-259		6
20	Oscillatory thickness dependence of the coercive field in three-dimensional anti-dot arrays from self-assembly. <i>Journal of Applied Physics</i> , 2005 , 97, 10J701	2.5	6
19	Facile sonochemical synthesis of silver nanoparticle and graphene oxide deposition on bismuth doped manganese oxide nanotube composites for electro-catalytic sensor and oxygen reduction reaction (ORR) applications. <i>Intermetallics</i> , 2021 , 131, 107101	3.5	6
18	Anchoring di and tri-metallic nanoparticles on an amorphous functionalized surface for inducing photocatalytic activity. <i>New Journal of Chemistry</i> , 2017 , 41, 11556-11567	3.6	5
17	Synthesis of calcium silicate nanoparticles and its catalytic application in Friedlander reaction. <i>Inorganic and Nano-Metal Chemistry</i> , 2017 , 47, 946-949	1.2	5
16	Synthesis and Electrochemical Properties of Pure Pt, Au, and PtAu Alloy Catalysts on Titanium Oxide Nanotubes (TONs). <i>Electrocatalysis</i> , 2013 , 4, 134-143	2.7	4
15	Shape-induced anisotropy in antidot arrays from self-assembled templates. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3598-3600	2	4
14	Synthesis of iron and vanadium co-doped mesoporous cobalt oxide: An efficient and robust catalysts for electrochemical water oxidation. <i>International Journal of Energy Research</i> , 2021 , 45, 9422-9437	4.5	4
13	Self-assembly Routes towards Creating Superconducting and Magnetic Arrays. <i>Journal of Low Temperature Physics</i> , 2005 , 139, 339-349	1.3	3
12	Structure and electrochemical activity of nickel aluminium fluoride nanosheets during urea electro-oxidation in an alkaline solution.. <i>RSC Advances</i> , 2021 , 11, 3190-3201	3.7	3
11	Hydroxide ion oxidation using low-symmetry mesoporous titanium dioxide (lsm-TiO ₂) electrode. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 871, 114268	4.1	2
10	Synthesis and Characterizations of Titanium Tungstophosphate Nanoparticles for Heavy Metal Ions Removal. <i>Solid State Phenomena</i> , 2016 , 257, 187-192	0.4	2
9	Electrooxidation of Urea in Alkaline Solution Using Nickel Hydroxide Activated Carbon Paper Electrodeposited from DMSO Solution. <i>Catalysts</i> , 2021 , 11, 102	4	2

8	Copper-N-SiO ₂ nanoparticles catalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 22926-22935	6.7	1
7	Halide-Doping Effect of Strontium Cobalt Oxide Electrocatalyst and the Induced Activity for Oxygen Evolution in an Alkaline Solution. <i>Catalysts</i> , 2021 , 11, 1408	4	1
6	Chemical deposition and exfoliation from liquid crystal template: Nickel/nickel (II) hydroxide nanoflakes electrocatalyst for a non-enzymatic glucose oxidation reaction. <i>Arabian Journal of Chemistry</i> , 2022 , 15, 103467	5.9	1
5	Synthesis of homo- and hetero-metallic cobalt and zinc nano oxide particles by a calcination process using coordination compounds: their characterization, DFT calculations and capacitance behavioural study.. <i>RSC Advances</i> , 2020 , 10, 13126-13138	3.7	1
4	Characteristics of the voltammetric behavior of the hydroxide ion oxidation at disordered mesoporous titanium dioxide electrocatalyst. <i>Journal of Saudi Chemical Society</i> , 2021 , 25, 101274	4.3	1
3	Activation effect of nickel phosphate co-catalysts on the photoelectrochemical water oxidation performance of TiO ₂ nanotubes. <i>Journal of Saudi Chemical Society</i> , 2022 , 101484	4.3	1
2	Nonplatinum-based anode catalyst systems for direct methanol fuel cells 2020 , 201-256		0
1	Oxides free materials for asymmetric capacitor 2022 , 95-113		