

# Mohamed S El-Deab

## List of Publications by Year in descending order

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88  
papers

3,328  
citations

126907

33  
h-index

161849

54  
g-index

91  
all docs

91  
docs citations

91  
times ranked

3087  
citing authors

#	ARTICLE	IF	CITATIONS
1	Boosted electrolytic hydrogen production at tailor-tuned nano-dendritic Ni-doped Co foam-like catalyst. <i>Electrochimica Acta</i> , 2022, 410, 139992.	5.2	11
2	<i>In situ</i> generation of exfoliated graphene layers on recycled graphite rods for enhanced capacitive performance of Ni-Co binary hydroxide. <i>RSC Advances</i> , 2021, 11, 26258-26272.	3.6	14
3	Dual-functioning porous catalysts: robust electro-oxidation of small organic molecules and water electrolysis using bimetallic Ni/Cu foams. <i>Sustainable Energy and Fuels</i> , 2021, 5, 986-994.	4.9	14
4	Smart selection of fuel blends: Robust oxidation of formic acid in its blend with urea at NiOx/Pd nanoparticles-based binary anodes. <i>Renewable Energy</i> , 2021, 167, 830-840.	8.9	9
5	Microporous Film of Ternary Ni/Co/Fe Alloy for Superior Electrolytic Hydrogen Production in Alkaline Medium. <i>Journal of the Electrochemical Society</i> , 2021, 168, 054509.	2.9	14
6	Tailor-designed Ni-Co binary hydroxide electrodes for boosted supercapacitor applications: Smart selection of additives. <i>Electrochimica Acta</i> , 2021, 378, 137991.	5.2	10
7	Multi-walled vanadium oxide nanotubes modified 3D microporous bioderived carbon as novel electrodes for hybrid capacitive deionization. <i>Separation and Purification Technology</i> , 2021, 266, 118597.	7.9	18
8	Resistivity zone index: A new approach in rock typing to enhance reservoir characterization using well log data. <i>Energy Reports</i> , 2021, 7, 711-723.	5.1	12
9	Efficient catalytic production of biodiesel using nano-sized sugar beet agro-industrial waste. <i>Fuel</i> , 2020, 261, 116481.	6.4	59
10	Enhanced electro-oxidation of methanol at nanoparticle-based Ru/Pt bimetallic catalyst: Impact of GC substrate pretreatment. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27171-27181.	7.1	4
11	Hybrid supercapacitors: A simple electrochemical approach to determine optimum potential window and charge balance. <i>Journal of Power Sources</i> , 2020, 480, 229152.	7.8	45
12	Boosted electrocatalytic oxidation of formic acid at CoOx/Pd/Au nanoparticle-based ternary catalyst. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 21297-21307.	7.1	22
13	Nanocrystalline Cellulose Confined in Amorphous Carbon Fibers as Capacitor Material for Efficient Energy Storage. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7007-7015.	3.1	37
14	3D Macroporous Catalysts: Impact of Additives on the Morphology and Performance of Cu/Cu <sub>2</sub> O Foam Prepared by Dynamic Hydrogen Bubble Template Towards Glycerol Electro-Oxidation. <i>Journal of the Electrochemical Society</i> , 2020, 167, 114505.	2.9	14
15	Electrocatalysis by design: Enhanced electro-oxidation of glycerol at NiOx nanoparticle modified 3D porous carbon felts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 9658-9668.	7.1	30
16	Tailor-Designed Porous Catalysts: Nickel-Doped Cu/Cu <sub>2</sub> O Foams for Efficient Glycerol Electro-Oxidation. <i>ChemElectroChem</i> , 2020, 7, 951-958.	3.4	19
17	Enhanced Electrocatalytic Oxidation of Urea at CuOx-NiOx Nanoparticle-Based Binary Catalyst Modified Polyaniline/GC Electrodes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 064522.	2.9	17
18	Enhanced electrocatalytic oxidation of glucose at graphene nanosheets - Metal oxides nanoparticles modified GC electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2019, 835, 313-323.	3.8	20

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19	EIS-Activity Correlation for the Electro-Oxidation of Ethylene Glycol at Nanoparticles-Based Electrocatalysts. <i>Journal of the Electrochemical Society</i> , 2019, 166, F364-F376.	2.9	9
20	A competent simultaneously co-electrodeposited Pt-MnOx nanocatalyst for enhanced formic acid electro-oxidation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 169-175.	5.3	24
21	Design of efficient bimetallic Pt-Au nanoparticle-based anodes for direct formic acid fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 3615-3624.	7.1	37
22	Superior electrocatalysis of formic acid electro-oxidation on a platinum, gold and manganese oxide nanoparticle-based ternary catalyst. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 139-149.	7.1	37
23	Activation/deactivation behavior of nano-NiOx based anodes towards the OER: Influence of temperature. <i>Electrochimica Acta</i> , 2018, 276, 176-183.	5.2	30
24	Fabrication of CuO-Pd Nanocatalyst Supported on a Glassy Carbon Electrode for Enhanced Formic Acid Electro-Oxidation. <i>Journal of Nanotechnology</i> , 2018, 2018, 1-9.	3.4	9
25	Flower-shaped gold nanoparticles: Preparation, characterization, and electrocatalytic application. <i>Arabian Journal of Chemistry</i> , 2017, 10, 877-884.	4.9	27
26	Conducting polymers inducing catalysis: Enhanced formic acid electro-oxidation at a Pt/polyaniline nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11166-11176.	7.1	33
27	Efficient direct formic acid fuel cell (DFAFC) anode of nano-sized palladium complex: High durability and activity origin. <i>Applied Catalysis B: Environmental</i> , 2017, 213, 118-126.	20.2	32
28	Propitious Dendritic Cu <sub>2</sub> -Pt Nanostructured Anodes for Direct Formic Acid Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 19766-19772.	8.0	39
29	Promising ethylene glycol electro-oxidation at tailor-designed NiOx/Pt nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5095-5104.	7.1	12
30	Performance Enhancement of PA-TFC RO Membrane by Using Magnesium Silicate Nanoparticles. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017, 27, 201-214.	3.7	16
31	Novel fuel blends facilitating the electro-oxidation of formic acid at a nano-Pt/GC electrode. <i>RSC Advances</i> , 2016, 6, 29099-29105.	3.6	13
32	Synergistic enhancement of the electro-oxidation of methanol at tailor-designed nanoparticle-based CoOx/MnOx/Pt ternary catalysts. <i>Electrochimica Acta</i> , 2015, 165, 402-409.	5.2	29
33	The Origin of Electrocatalytic Activity of Gold Nanoparticles Modified Pt-Based Surfaces Towards Formic Acid Oxidation. <i>Springer Proceedings in Energy</i> , 2015, , 379-387.	0.3	2
34	Electrocatalysis by design: Synergistic catalytic enhancement of formic acid electro-oxidation at core-shell Pd/Pt nanocatalysts. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 1789-1794.	7.1	34
35	Towards improving the catalytic activity and stability of platinum-based anodes in direct formic acid fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 7808-7816.	7.1	48
36	Fuel blends: Enhanced electro-oxidation of formic acid in its blend with methanol at platinum nanoparticles modified glassy carbon electrodes. <i>Journal of Power Sources</i> , 2015, 286, 504-509.	7.8	27

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37	On the Catalytic Activity of Palladium Nanoparticles-Based Anodes Towards Formic Acid Electro-oxidation: Effect of Electrodeposition Potential. , 2015, , 559-570.		1
38	Electrocatalysis of Formic Acid Electro-Oxidation at Platinum Nanoparticles Modified Surfaces with Nickel and Cobalt Oxides Nanostructures. , 2015, , 577-594.		6
39	Electrocatalysis by Nanoparticle: Enhanced Electro-Oxidation of Formic Acid at NiO<i>x</i>â€“Pd Binary Nanocatalysts. Journal of the Electrochemical Society, 2015, 162, F1114-F1118.	2.9	20
40	Promoting Effect of Hydrocarbon Impurities on the Electro-Oxidation of Formic Acid at Pt Nanoparticles Modified GC Electrodes. Electrochimica Acta, 2015, 180, 268-279.	5.2	23
41	Electrocatalytic Oxidation of Methanol at Nanoparticle-Based MnO <sub>x</sub> /NiO <sub>x</sub> /Pt Ternary Catalysts: Optimization of Loading Level and Order of Deposition. Journal of the Electrochemical Society, 2014, 161, F1340-F1347.	2.9	13
42	Impurities Contributing to Catalysis: Enhanced Electro-Oxidation of Formic Acid at Pt/GC Electrodes in the Presence of Vinyl Acetate. Journal of Physical Chemistry C, 2014, 118, 22457-22464.	3.1	28
43	Acrylonitrile-contamination induced enhancement of formic acid electro-oxidation at platinum nanoparticles modified glassy carbon electrodes. Journal of Power Sources, 2014, 265, 57-61.	7.8	34
44	Enhanced electrolytic generation of oxygen gas at binary nickel oxideâ€“cobalt oxide nanoparticle-modified electrodes. Journal of Solid State Electrochemistry, 2013, 17, 871-879.	2.5	22
45	Poisoning Effect of Selected Hydrocarbon Impurities on the Catalytic Performance of Pt/C Catalysts towards the Oxygen Reduction Reaction. Journal of the Electrochemical Society, 2013, 160, F651-F658.	2.9	33
46	Electrocatalysis by design: Enhanced electrooxidation of formic acid at platinum nanoparticlesâ€“nickel oxide nanoparticles binary catalysts. Electrochimica Acta, 2013, 94, 62-71.	5.2	67
47	Impact of acrylonitrile poisoning on oxygen reduction reaction at Pt/C catalysts. Journal of Power Sources, 2013, 229, 65-71.	7.8	25
48	Electrocatalytic oxidation of methanol at tantalum oxide-modified Pt electrodes. Journal of Power Sources, 2012, 220, 399-404.	7.8	38
49	Facilitated Electro-Oxidation of Formic Acid at Nickel Oxide Nanoparticles Modified Electrodes. Journal of the Electrochemical Society, 2012, 159, F249-F254.	2.9	41
50	Electrocatalytic activity of nickel oxide nanoparticles-modified electrodes: Optimization of the loading level and operating pH towards the oxygen evolution reaction. International Journal of Hydrogen Energy, 2012, 37, 68-77.	7.1	92
51	Platinum nanoparticlesâ€“manganese oxide nanorods as novel binary catalysts for formic acid oxidation. Journal of Advanced Research, 2012, 3, 65-71.	9.5	20
52	Electrooxidation of Formic Acid at Platinumâ€“Gold Nanoparticle-modified Electrodes. Chemistry Letters, 2011, 40, 1374-1375.	1.3	25
53	Interaction of cysteine and copper ions on the surface of iron: EIS, polarization and XPS study. Materials Chemistry and Physics, 2011, 129, 223-227.	4.0	25
54	Electrocatalytic Oxidation of CO at Pt Modified with Manganese Oxide Nanorods. Electrocatalysis, 2011, 2, 220-223.	3.0	3

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55	Electrocatalysis by nanoparticles: Oxidation of formic acid at manganese oxide nanorods-modified Pt planar and nanohole-arrays. <i>Journal of Advanced Research</i> , 2010, 1, 87-93.	9.5	14
56	Hydrogen spillover phenomenon: Enhanced reversible hydrogen adsorption/desorption at Ta <sub>2</sub> O <sub>5</sub> -coated Pt electrode in acidic media. <i>Electrochimica Acta</i> , 2010, 55, 3528-3536.	5.2	27
57	Enhanced electro-oxidation of formic acid at manganese oxide single crystalline nanorod-modified Pt electrodes. <i>Electrochemistry Communications</i> , 2009, 11, 776-778.	4.7	40
58	Novel procedure for the fabrication of gold nanostructures enriched in Au (1 1 0) facet orientation. <i>Electrochemistry Communications</i> , 2009, 11, 1273-1276.	4.7	12
59	On the preferential crystallographic orientation of Au nanoparticles: Effect of electrodeposition time. <i>Electrochimica Acta</i> , 2009, 54, 3720-3725.	5.2	56
60	Non-platinum electrocatalysts: Manganese oxide nanoparticle-cobaltporphyrin binary catalysts for oxygen reduction. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 1445-1451.	2.9	20
61	Electrocatalysis by nanoparticles: Optimization of the loading level and operating pH for the oxygen evolution at crystallographically oriented manganese oxide nanorods modified electrodes. <i>Electrochimica Acta</i> , 2008, 53, 4351-4358.	5.2	75
62	On the aggregation phenomena of Au nanoparticles: Effect of substrate roughness on the particle size. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 318, 78-83.	4.7	14
63	Electrosynthesis of Single-Crystalline MnOOH Nanorods onto Pt Electrodes. <i>Journal of the Electrochemical Society</i> , 2008, 155, D14.	2.9	35
64	Bisthiolâ€Assisted Multilayers' Selfâ€Assembly of Gold Nanoparticles: Synthesis, Characterization, Size Control and Electrocatalytic Applications. <i>Macromolecular Symposia</i> , 2008, 270, 74-81.	0.7	3
65	Electrocatalysis by Nanoparticles: Fabrication and Electrochemical Applications of Tailor-Designed Nanoparticles-Based Electrocatalysts. <i>Electrochemistry</i> , 2007, 75, 858-866.	1.4	3
66	Tailor-Designed Platinum Nanoparticles Electrodeposited onto Gold Electrode. <i>Journal of the Electrochemical Society</i> , 2007, 154, B810.	2.9	30
67	Enhanced water electrolysis: Electrocatalytic generation of oxygen gas at manganese oxide nanorods modified electrodes. <i>Electrochemistry Communications</i> , 2007, 9, 2082-2087.	4.7	145
68	Direct electron transfer of copperâ€zinc superoxide dismutase (SOD) on crystallographically oriented Au nanoparticles. <i>Electrochemistry Communications</i> , 2007, 9, 651-656.	4.7	22
69	Electrocatalysis by design: Effect of the loading level of Au nanoparticlesâ€MnOx nanoparticles binary catalysts on the electrochemical reduction of molecular oxygen. <i>Electrochimica Acta</i> , 2007, 52, 2166-2174.	5.2	57
70	Electrocatalytic Reduction of Oxygen at Au Nanoparticlesâ€Manganese Oxide Nanoparticle Binary Catalysts. <i>Journal of the Electrochemical Society</i> , 2006, 153, A1365.	2.9	48
71	Fabrication of Phase-Separated Multicomponent Self-Assembled Monolayers at Gold Nanoparticles Electrodeposited on Glassy Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 2006, 153, E201.	2.9	10
72	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.	3.2	7

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73	Oxygen reduction at Au nanoparticles electrodeposited on different carbon substrates. <i>Electrochimica Acta</i> , 2006, 52, 1792-1798.	5.2	86
74	Manganese Oxide Nanoparticles Electrodeposited on Platinum Are Superior to Platinum for Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5963-5966.	13.8	193
75	Oxygen reduction at electrochemically deposited crystallographically oriented Au(100)-like gold nanoparticles. <i>Electrochemistry Communications</i> , 2005, 7, 29-34.	4.7	144
76	Size and Crystallographic Orientation Controls of Gold Nanoparticles Electrodeposited on GC Electrodes. <i>Journal of the Electrochemical Society</i> , 2005, 152, C1.	2.9	104
77	Electrochemical Preparation of a Au Crystal with Peculiar Morphology and Unique Growth Orientation and Its Catalysis for Oxygen Reduction. <i>Journal of the Electrochemical Society</i> , 2005, 152, A1226.	2.9	52
78	Electrochemical reduction of nitrate to ammonia at modified gold electrodes. <i>Electrochimica Acta</i> , 2004, 49, 1639-1645.	5.2	57
79	Molecular-level design of binary self-assembled monolayers on polycrystalline gold electrodes. <i>Electrochimica Acta</i> , 2004, 49, 2189-2194.	5.2	57
80	Fabrication of Au(111)-Like Polycrystalline Gold Electrodes and Their Applications to Oxygen Reduction. <i>Journal of the Electrochemical Society</i> , 2004, 151, E213.	2.9	76
81	Electrochemical reduction of nitrate to ammonia at modified gold electrodes. <i>Electrochimica Acta</i> , 2004, 49, 1639-1645.	5.2	22
82	Electrocatalysis by nanoparticles: oxygen reduction on gold nanoparticles-electrodeposited platinum electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2003, 553, 107-115.	3.8	87
83	Quasi-reversible two-electron reduction of oxygen at gold electrodes modified with a self-assembled submonolayer of cysteine. <i>Electrochemistry Communications</i> , 2003, 5, 214-219.	4.7	63
84	Electrochemical Reduction of Oxygen on Gold Nanoparticle-Electrodeposited Glassy Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 2003, 150, A851.	2.9	158
85	Hydrodynamic voltammetric studies of the oxygen reduction at gold nanoparticles-electrodeposited gold electrodes. <i>Electrochimica Acta</i> , 2002, 47, 4255-4261.	5.2	160
86	Electroreduction of nitrate ion to nitrite and ammonia on a gold electrode in acidic and basic sodium and cesium nitrate solutions. <i>Journal of Electroanalytical Chemistry</i> , 1999, 470, 46-52.	3.8	70
87	CBG-HCl as a green corrosion inhibitor for low carbon steel in 0.5M H <sub>2</sub> SO <sub>4</sub> with and without 0.1M NaCl. , 0, 164, 240-248.		9
88	Synergistic Effect of Urea on Vitamin C Electro-Oxidation at NiO <sub>x</sub> /CoO <sub>x</sub> Binary Catalysts Supported on Graphene Nanosheets. <i>Journal of the Electrochemical Society</i> , 0, , .	2.9	3