

# Tarek M Abdel-Fattah

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,124  
citations

394421

19  
h-index

414414

32  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1483  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics, isotherm, and thermodynamic studies of the adsorption of reactive red 195 A dye from water by modified Switchgrass Biochar adsorbent. Journal of Industrial and Engineering Chemistry, 2016, 37, 156-167.	5.8	161
2	Adsorption of Divalent Lead Ions by Zeolites and Activated Carbon: Effects of pH, Temperature, and Ionic Strength. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2004, 39, 2275-2291.	1.7	82
3	Electrochemical sensor based on polyaniline nanofibers/single wall carbon nanotubes composite for detection of malathion. Synthetic Metals, 2014, 190, 13-19.	3.9	75
4	A novel composite of nanomagnetite-immobilized-baker's yeast on the surface of activated carbon for magnetic solid phase extraction of Hg(II). Fuel, 2015, 139, 614-621.	6.4	57
5	Catalytic Reduction of 4-Nitrophenol Using Gold Nanoparticles Supported on Carbon Nanotubes. ECS Journal of Solid State Science and Technology, 2014, 3, M18-M20.	1.8	49
6	A deconvoluted PL approach to probe the charge carrier dynamics of the grain interior and grain boundary of a perovskite film for perovskite solar cell applications. Physical Chemistry Chemical Physics, 2017, 19, 9143-9148.	2.8	49
7	Gold nanoparticle/multi-walled carbon nanotube composite as novel catalyst for hydrogen evolution reactions. International Journal of Hydrogen Energy, 2017, 42, 18985-18990.	7.1	43
8	Palladium Nanoparticle Multiwalled Carbon Nanotube Composite as Catalyst for Hydrogen Production by the Hydrolysis of Sodium Borohydride. ACS Applied Energy Materials, 2018, 1, 4635-4640.	5.1	41
9	Engineered nano-magnetic iron oxide-urea-activated carbon nanolayer sorbent for potential removal of uranium (VI) from aqueous solution. Journal of Nuclear Materials, 2017, 487, 13-22.	2.7	34
10	Surface layer-by-layer chemical deposition reaction for thin film formation of nano-sized metal 8-hydroxyquinolate complexes. Polyhedron, 2009, 28, 181-187.	2.2	33
11	Heavy metal ions extraction from aqueous media using nanoporous silica. Chemical Engineering Journal, 2011, 175, 117-123.	12.7	31
12	Dye-Sensitized Solar Cell Based on Polyaniline/Multiwalled Carbon Nanotubes Counter Electrode. International Journal of Photoenergy, 2013, 2013, 1-6.	2.5	28
13	Selective extraction of toxic heavy metal oxyanions and cations by a novel silica gel phase functionalized by vitamin B4. Chemical Engineering Journal, 2011, 172, 177-183.	12.7	26
14	CdTe quantum dots capped with different stabilizing agents for sensing of ochratoxin A. Journal of Luminescence, 2017, 182, 154-159.	3.1	23
15	Nanosized Controlled Surface Pretreatment of Biometallic Alloy 316L Stainless Steel. Journal of Biomedical Nanotechnology, 2011, 7, 794-800.	1.1	22
16	Chemically, spatially, and temporally resolved 2D mapping study for the role of grain interiors and grain boundaries of organic-inorganic lead halide perovskites. Solar Energy Materials and Solar Cells, 2016, 155, 134-140.	6.2	21
17	Synthesis of highly dispersive platinum nanoparticles and their application in a hydrogen generation reaction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125734.	4.7	21
18	Low Cost Compact Nanosecond Pulsed Plasma System for Environmental and Biomedical Applications. Plasma Chemistry and Plasma Processing, 2017, 37, 59-76.	2.4	20

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19	A novel nanocomposite of Liquidambar styraciflua fruit biochar-crosslinked-nanosilica for uranyl removal from water. Bioresource Technology, 2019, 278, 124-129.	9.6	20
20	Beta-Cyclodextrin-Assisted Synthesis of Silver Nanoparticle Network and Its Application in a Hydrogen Generation Reaction. Catalysts, 2020, 10, 1014.	3.5	20
21	Characterization of electrochemically deposited films from aqueous and ionic liquid cobalt precursors toward hydrogen evolution reactions. Applied Surface Science, 2016, 385, 282-288.	6.1	19
22	Silver Nanoparticle/Multi-Walled Carbon Nanotube Composite as Catalyst for Hydrogen Production. ECS Journal of Solid State Science and Technology, 2017, 6, M115-M118.	1.8	19
23	Nanoscale electropolishing of high-purity silver with a deep eutectic solvent. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 511, 113-119.	4.7	18
24	Enhanced Removal of Lead by Chemically and Biologically Treated Carbonaceous Materials. Scientific World Journal, The, 2012, 2012, 1-11.	2.1	16
25	Effect of hot-casted NiO hole transport layer on the performance of perovskite solar cells. Solar Energy, 2019, 188, 609-618.	6.1	16
26	Pretreatment of Gold Nanoparticle Multi-Walled Carbon Nanotube Composites for Catalytic Activity toward Hydrogen Generation Reaction. ECS Journal of Solid State Science and Technology, 2017, 6, M69-M71.	1.8	14
27	Nanoscale electropolishing of high-purity nickel with an ionic liquid. International Journal of Minerals, Metallurgy and Materials, 2019, 26, 649-656.	4.9	14
28	Catalytic Activity of Beta-Cyclodextrin-Gold Nanoparticles Network in Hydrogen Evolution Reaction. Catalysts, 2021, 11, 118.	3.5	14
29	Nanocomposite Catalyst Derived from Ultrafine Platinum Nanoparticles and Carbon Nanotubes for Hydrogen Generation. ECS Journal of Solid State Science and Technology, 2020, 9, 101008.	1.8	14
30	Highly Uniform Self-Assembled Gold Nanoparticles over High Surface Area ZnO Nanorods as Catalysts. ECS Journal of Solid State Science and Technology, 2014, 3, M61-M64.	1.8	13
31	Dye Sensitized Solar Cell Based on Polyaniline-Carbon Nanotubes/Graphite Composite. ECS Journal of Solid State Science and Technology, 2014, 3, M55-M60.	1.8	13
32	Electrochemical Polishing Applications and EIS of a Vitamin B <sub>4</sub> -Based Ionic Liquid. Journal of the Electrochemical Society, 2013, 160, E22-E26.	2.9	11
33	Magnetically active biosorbent for chromium species removal from aqueous media. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 1064-1076.	1.7	11
34	Comparison of Electropolishing of Aluminum in a Deep Eutectic Medium and Acidic Electrolyte. Molecules, 2020, 25, 5712.	3.8	11
35	Ionic Liquid Electropolishing of Metal Alloys for Biomedical Applications. ECS Transactions, 2009, 25, 57-61.	0.5	9
36	Carbon Nanotube Composite Mesh Film with Tunable Optoelectronic Performance. ECS Journal of Solid State Science and Technology, 2015, 4, M30-M34.	1.8	8

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37	A novel cellulose-dioctyl phthate-baker's yeast biosorbent for removal of Co(II), Cu(II), Cd(II), Hg(II) and Pb(II). Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2015, 50, 1072-1081.	1.7	8
38	Gold Nanoparticles Supported Over Low-Cost Supports for Hydrogen Generation from a Hydrogen Feedstock Material. ECS Journal of Solid State Science and Technology, 2020, 9, 071004.	1.8	7
39	Organo-Nanocups Assist the Formation of Ultra-Small Palladium Nanoparticle Catalysts for Hydrogen Evolution Reaction. Materials, 2022, 15, 2692.	2.9	7
40	Catalyst Design Using Nanoporous Iron for the Chemical Vapor Deposition Synthesis of Single-Walled Carbon Nanotubes. Journal of Nanomaterials, 2013, 2013, 1-7.	2.7	6
41	Characterization of perovskite (CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> ) degradation with the integration of different polymers for increased stability. Materials Letters, 2019, 236, 159-162.	2.6	6
42	Reclamation of niobium compounds from ionic liquid electrochemical polishing of superconducting radio frequency cavities. Journal of Environmental Chemical Engineering, 2013, 1, 18-22.	6.7	5
43	Controlled Synthesis of ZnO Nanorods Using Different Seed Layers. ECS Journal of Solid State Science and Technology, 2020, 9, 121008.	1.8	5
44	Adsorption of Divalent Lead Ions by Zeolites and Activated Carbon: Effects of pH, Temperature, and Ionic Strength. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2004, 39, 2275-2291.	1.7	2
45	Surface Characterization of High-Purity Copper Electropolishing and Electrodeposition Treatments in an Ionic Liquid. ECS Meeting Abstracts, 2020, MA2020-02, 2997-2997.	0.0	1
46	Comparison of Electrochemical Polishing Treatments between Phosphoric Acid and a Deep Eutectic Solvent for High-Purity Copper. Sustainable Chemistry, 2022, 3, 238-247.	4.7	1
47	Microwave-Assisted Modification of Nanoalumina with Vitamin B3 as an Eco-Friendly Nanosorbent for Trace Metals. Clean - Soil, Air, Water, 2019, 47, 1900022.	1.1	0
48	Antibacterial Effect of Silver Nanoparticles Dispersed over Graphene Silicate on Gram-Positive and Gram-Negative Bacteria. ECS Meeting Abstracts, 2021, MA2021-02, 1877-1877.	0.0	0
49	Magnetically Banana Biochar Coupled with Yeast for Adsorbing Heavy Metal and Organic Substance. ECS Meeting Abstracts, 2021, MA2021-02, 1878-1878.	0.0	0
50	Synthesis of Magnetic Pomegranate Biochar Coupled with Yeast As a Novel Metal Adsorbent. ECS Meeting Abstracts, 2021, MA2021-02, 1879-1879.	0.0	0
51	Synthesis of Orange Biochar Coupled with Magnetic Nanoparticles and Yeast for Heavy Metals and Organic Matter Removal. ECS Meeting Abstracts, 2021, MA2021-02, 1880-1880.	0.0	0
52	Cobalt Boride Graphene Composites As a Novel Catalyst for Hydrogen Evolution. ECS Meeting Abstracts, 2020, MA2020-02, 1125-1125.	0.0	0
53	Reduced Cobalt Borides Supported on Multi-Walled Carbon Nanotubes As Catalysts for Hydrogen Generation Reactions. ECS Meeting Abstracts, 2020, MA2020-02, 1128-1128.	0.0	0
54	Reduction of Mn-MOF-5 Supported on Graphene As a Catalyst for Hydrolysis of Sodium Borohydride. ECS Meeting Abstracts, 2020, MA2020-02, 1126-1126.	0.0	0

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55	Nanoscale Electropolishing of High-Purity Aluminum with a Deep Eutectic Solvent. ECS Meeting Abstracts, 2020, MA2020-02, 2907-2907.	0.0	0
56	A Novel Synthesis of Manganese Borides Supported on Multi-Walled Carbon Nanotubes As a Catalyst for the Hydrolysis of Sodium Borohydride. ECS Meeting Abstracts, 2020, MA2020-02, 1129-1129.	0.0	0
57	Green Synthesis of Nickel Borides Supported over Multiwall Carbon Nanotube As a Novel Catalyst for Hydrogen Evolution. ECS Meeting Abstracts, 2020, MA2020-02, 1127-1127.	0.0	0
58	Novel Synthesis of Graphene Supported Nickel Borides from Metal Organic Framework Precursors. ECS Meeting Abstracts, 2020, MA2020-02, 1124-1124.	0.0	0
59	Study of Surface Treatment and Modification of Some Carbon-Based Material for Methylene Blue Removal. ECS Meeting Abstracts, 2021, MA2021-02, 1947-1947.	0.0	0
60	Organo-silicate nanocomposites for the removal of chlorinated phenols from aqueous media: kinetics and environmental stability. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2004, 39, 2855-66.	1.7	0