

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

448610

19
h-index

466096

32
g-index

60
all docs

60
docs citations

60
times ranked

1676
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. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 37, 156-167.	2.9	161
2	Adsorption of Divalent Lead Ions by Zeolites and Activated Carbon: Effects of pH, Temperature, and Ionic Strength. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2004, 39, 2275-2291.	0.9	82
3	Electrochemical sensor based on polyaniline nanofibers/single wall carbon nanotubes composite for detection of malathion. <i>Synthetic Metals</i> , 2014, 190, 13-19.	2.1	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). <i>Fuel</i> , 2015, 139, 614-621.	3.4	57
5	Catalytic Reduction of 4-Nitrophenol Using Gold Nanoparticles Supported on Carbon Nanotubes. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, M18-M20.	0.9	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. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9143-9148.	1.3	49
7	Gold nanoparticle/multi-walled carbon nanotube composite as novel catalyst for hydrogen evolution reactions. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 18985-18990.	3.8	43
8	Palladium Nanoparticle Multiwalled Carbon Nanotube Composite as Catalyst for Hydrogen Production by the Hydrolysis of Sodium Borohydride. <i>ACS Applied Energy Materials</i> , 2018, 1, 4635-4640.	2.5	41
9	Engineered nano-magnetic iron oxide-urea-activated carbon nanolayer sorbent for potential removal of uranium (VI) from aqueous solution. <i>Journal of Nuclear Materials</i> , 2017, 487, 13-22.	1.3	34
10	Surface layer-by-layer chemical deposition reaction for thin film formation of nano-sized metal 8-hydroxyquinolate complexes. <i>Polyhedron</i> , 2009, 28, 181-187.	1.0	33
11	Heavy metal ions extraction from aqueous media using nanoporous silica. <i>Chemical Engineering Journal</i> , 2011, 175, 117-123.	6.6	31
12	Dye-Sensitized Solar Cell Based on Polyaniline/Multiwalled Carbon Nanotubes Counter Electrode. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-6.	1.4	28
13	Selective extraction of toxic heavy metal oxyanions and cations by a novel silica gel phase functionalized by vitamin B4. <i>Chemical Engineering Journal</i> , 2011, 172, 177-183.	6.6	26
14	CdTe quantum dots capped with different stabilizing agents for sensing of ochratoxin A. <i>Journal of Luminescence</i> , 2017, 182, 154-159.	1.5	23
15	Nanosized Controlled Surface Pretreatment of Biometallic Alloy 316L Stainless Steel. <i>Journal of Biomedical Nanotechnology</i> , 2011, 7, 794-800.	0.5	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. <i>Solar Energy Materials and Solar Cells</i> , 2016, 155, 134-140.	3.0	21
17	Synthesis of highly dispersive platinum nanoparticles and their application in a hydrogen generation reaction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125734.	2.3	21
18	Low Cost Compact Nanosecond Pulsed Plasma System for Environmental and Biomedical Applications. <i>Plasma Chemistry and Plasma Processing</i> , 2017, 37, 59-76.	1.1	20

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19	A novel nanocomposite of Liquidambar styraciflua fruit biochar-crosslinked-nanosilica for uranyl removal from water. <i>Bioresource Technology</i> , 2019, 278, 124-129.	4.8	20
20	Beta-Cyclodextrin-Assisted Synthesis of Silver Nanoparticle Network and Its Application in a Hydrogen Generation Reaction. <i>Catalysts</i> , 2020, 10, 1014.	1.6	20
21	Characterization of electrochemically deposited films from aqueous and ionic liquid cobalt precursors toward hydrogen evolution reactions. <i>Applied Surface Science</i> , 2016, 385, 282-288.	3.1	19
22	Silver Nanoparticle/Multi-Walled Carbon Nanotube Composite as Catalyst for Hydrogen Production. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, M115-M118.	0.9	19
23	Nanoscale electropolishing of high-purity silver with a deep eutectic solvent. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 511, 113-119.	2.3	18
24	Enhanced Removal of Lead by Chemically and Biologically Treated Carbonaceous Materials. <i>Scientific World Journal</i> , The, 2012, 2012, 1-11.	0.8	16
25	Effect of hot-casted NiO hole transport layer on the performance of perovskite solar cells. <i>Solar Energy</i> , 2019, 188, 609-618.	2.9	16
26	Pretreatment of Gold Nanoparticle Multi-Walled Carbon Nanotube Composites for Catalytic Activity toward Hydrogen Generation Reaction. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, M69-M71.	0.9	14
27	Nanoscale electropolishing of high-purity nickel with an ionic liquid. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 649-656.	2.4	14
28	Catalytic Activity of Beta-Cyclodextrin-Gold Nanoparticles Network in Hydrogen Evolution Reaction. <i>Catalysts</i> , 2021, 11, 118.	1.6	14
29	Nanocomposite Catalyst Derived from Ultrafine Platinum Nanoparticles and Carbon Nanotubes for Hydrogen Generation. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 101008.	0.9	14
30	Highly Uniform Self-Assembled Gold Nanoparticles over High Surface Area ZnO Nanorods as Catalysts. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, M61-M64.	0.9	13
31	Dye Sensitized Solar Cell Based on Polyaniline-Carbon Nanotubes/Graphite Composite. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, M55-M60.	0.9	13
32	Electrochemical Polishing Applications and EIS of a Vitamin B ₄ -Based Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2013, 160, E22-E26.	1.3	11
33	Magnetically active biosorbent for chromium species removal from aqueous media. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014, 49, 1064-1076.	0.9	11
34	Comparison of Electropolishing of Aluminum in a Deep Eutectic Medium and Acidic Electrolyte. <i>Molecules</i> , 2020, 25, 5712.	1.7	11
35	Ionic Liquid Electropolishing of Metal Alloys for Biomedical Applications. <i>ECS Transactions</i> , 2009, 25, 57-61.	0.3	9
36	Carbon Nanotube Composite Mesh Film with Tunable Optoelectronic Performance. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, M30-M34.	0.9	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). <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2015, 50, 1072-1081.	0.9	8
38	Gold Nanoparticles Supported Over Low-Cost Supports for Hydrogen Generation from a Hydrogen Feedstock Material. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 071004.	0.9	7
39	Organo-Nanocups Assist the Formation of Ultra-Small Palladium Nanoparticle Catalysts for Hydrogen Evolution Reaction. <i>Materials</i> , 2022, 15, 2692.	1.3	7
40	Catalyst Design Using Nanoporous Iron for the Chemical Vapor Deposition Synthesis of Single-Walled Carbon Nanotubes. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7.	1.5	6
41	Characterization of perovskite (CH ₃ NH ₃ PbI ₃) degradation with the integration of different polymers for increased stability. <i>Materials Letters</i> , 2019, 236, 159-162.	1.3	6
42	Reclamation of niobium compounds from ionic liquid electrochemical polishing of superconducting radio frequency cavities. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 18-22.	3.3	5
43	Controlled Synthesis of ZnO Nanorods Using Different Seed Layers. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 121008.	0.9	5
44	Adsorption of Divalent Lead Ions by Zeolites and Activated Carbon: Effects of pH, Temperature, and Ionic Strength. , 0, .		2
45	Surface Characterization of High-Purity Copper Electropolishing and Electrodeposition Treatments in an Ionic Liquid. <i>ECS Meeting Abstracts</i> , 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. <i>Sustainable Chemistry</i> , 2022, 3, 238-247.	2.2	1
47	Microwave-Assisted Modification of Nanoalumina with Vitamin B3 as an Eco-Friendly Nanosorbent for Trace Metals. <i>Clean - Soil, Air, Water</i> , 2019, 47, 1900022.	0.7	0
48	Antibacterial Effect of Silver Nanoparticles Dispersed over Graphene Silicate on Gram-Positive and Gram-Negative Bacteria. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1877-1877.	0.0	0
49	Magnetically Banana Biochar Coupled with Yeast for Adsorbing Heavy Metal and Organic Substance. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1878-1878.	0.0	0
50	Synthesis of Magnetic Pomegranate Biochar Coupled with Yeast As a Novel Metal Adsorbent. <i>ECS Meeting Abstracts</i> , 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. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1880-1880.	0.0	0
52	Cobalt Boride Graphene Composites As a Novel Catalyst for Hydrogen Evolution. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 1125-1125.	0.0	0
53	Reduced Cobalt Borides Supported on Multi-Walled Carbon Nanotubes As Catalysts for Hydrogen Generation Reactions. <i>ECS Meeting Abstracts</i> , 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. <i>ECS Meeting Abstracts</i> , 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.	0.9	0