Siham Y Alqaradawi

List of Publications by Citations

81 papers	1,556 citations	23 h-index	36 g-index
93 ext. papers	1,908 ext. citations	4.6 avg, IF	4.95 L-index

#	Paper	IF	Citations
81	Photocatalytic degradation of methyl orange as a model compound. *Journal of Photochemistry and Photobiology A: Chemistry*, **2002**, 148, 161-168	4.7	194
80	Dynamic Cross-Linking of Polymeric Binders Based on Host-Guest Interactions for Silicon Anodes in Lithium Ion Batteries. *ACS Nano*, **2015**, 9, 11317-24	16.7	123
79	Influence of the heteroatom on the optoelectronic properties and transistor performance of soluble thiophene-, selenophene- and tellurophene-vinylene copolymers. *Chemical Science*, **2016**, 7, 1093-1099	9.4	72
78	Synthesis and spectroscopic structural investigations of the charge-transfer complexes formed in the reaction of 2,6-diaminopyridine with □acceptors TCNE, chloranil, and DDQ. *Journal of Molecular Structure*, **2007**, 842, 1-5	3.4	64
77	Rational one-step synthesis of porous PtPdRu nanodendrites for ethanol oxidation reaction with a superior tolerance for CO-poisoning. *Nanoscale*, **2017**, 9, 18881-18889	7.7	52
76	TiO2 nanotubes with ultrathin walls for enhanced water splitting. *Chemical Communications*, **2015**, 51, 12617-20	5.8	45
75	Doping of Large Ionization Potential Indenopyrazine Polymers via Lewis Acid Complexation with Tris(pentafluorophenyl)borane: A Simple Method for Improving the Performance of Organic Thin-Film Transistors. *Chemistry of Materials*, **2016**, 28, 8016-8024	9.6	44
74	Rapid microwave assisted sol-gel synthesis of CeO2 and CexSm1-xO2 nanoparticle catalysts for CO oxidation. *Molecular Catalysis*, **2017**, 428, 41-55	3.3	42
73	Conjugated Copolymers of Vinylene Flanked Naphthalene Diimide. *Macromolecules*, **2016**, 49, 6384-6393	5.5	42
72	Sodium intercalation/de-intercalation mechanism in Na4MnV(PO4)3 cathode materials. *Electrochimica Acta*, **2018**, 292, 98-106	6.7	40
71	Tailoring the reducibility and catalytic activity of CuO nanoparticles for low temperature CO oxidation.. *RSC Advances*, **2018**, 8, 19499-19511	3.7	39
70	Synthesis, spectroscopic and thermal studies of the reactions of the donors piperazine and N,N?-dimethylpiperazine with □and □acceptors. *Journal of Molecular Structure*, **2008**, 879, 60-71	3.4	37
69	Rational design of porous binary Pt-based nanodendrites as efficient catalysts for direct glucose fuel cells over a wide pH range. *Catalysis Science and Technology*, **2017**, 7, 2819-2827	5.5	35
68	On the nature of defect states in tungstate nanoflake arrays as promising photoanodes in solar fuel cells. *Physical Chemistry Chemical Physics*, **2016**, 18, 22217-23	3.6	34
67	Silver Nanoparticles-Decorated Titanium Oxynitride Nanotube Arrays for Enhanced Solar Fuel Generation. *Scientific Reports*, **2017**, 7, 1913	4.9	32
66	Synthesis, spectroscopic and thermal investigations of solid charge-transfer complexes of 1,4,7-trimethyl-1,4,7-triazacyclononane and the acceptors iodine, TCNE, TCNQ and chloranil. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2008**, 71, 1594-8	4.4	32
65	Self-assembled zirconia nanotube arrays: fabrication mechanism, energy consideration and optical activity. *RSC Advances*, **2014**, 4, 36336-36343	3.7	30

64	Understanding the Origin of the Ultrahigh Rate Performance of a SiO2-Modified LiNi0.5Mn1.5O4 Cathode for Lithium-Ion Batteries. *ACS Applied Energy Materials*, **2019**, 2, 7263-7271	6.1	28
63	A review on self-sustainable microbial electrolysis cells for electro-biohydrogen production via coupling with carbon-neutral renewable energy technologies. *Bioresource Technology*, **2021**, 320, 124363	11	28
62	Precise fabrication of porous one-dimensional gC3N4 nanotubes doped with Pd and Cu atoms for efficient CO oxidation and CO2 reduction. *Inorganic Chemistry Communication*, **2019**, 107, 107460	3.1	27
61	Transition metal nanoparticles doped carbon paper as a cost-effective anode in a microbial fuel cell powered by pure and mixed biocatalyst cultures. *International Journal of Hydrogen Energy*, **2018**, 43, 21560-21571	6.7	27
60	Synthesis and spectroscopic structural studies of the adducts formed in the reaction of aminopyridines with TCNQ. *Journal of Molecular Structure*, **2006**, 794, 251-254	3.4	24
59	Computational study on oxynitride perovskites for CO2 photoreduction. *Energy Conversion and Management*, **2016**, 122, 207-214	10.6	23
58	A Study of Low-Temperature CO Oxidation over Mesoporous CuO-TiO2 Nanotube Catalysts. *Catalysts*, **2017**, 7, 129	4	21
57	Intramolecular photocycloaddition of 4-phenoxybut-1-enes: a convenient access to the 4-oxatricyclo[7.2.0.0]undeca-2,10-diene skeleton. *Journal of the Chemical Society Perkin Transactions 1*, **1992**, 1145		20
56	Cu-Ce-O catalyst revisited for exceptional activity at low temperature CO oxidation reaction. *Surface and Coatings Technology*, **2018**, 354, 313-323	4.4	20
55	Z-scan and optical limiting properties of Hibiscus Sabdariffa dye. *Applied Physics B: Lasers and Optics* , **2014**, 117, 861-867	1.9	18
54	Synthesis, characterization and spectroscopic structural studies of charge-transfer complexes of 1,4,8,11-tetraazacyclotetradecane-5,7-dione with iodine, TCNE and DDQ. *Journal of Molecular Structure*, **2010**, 980, 218-224	3.4	18
53	Three-component one-pot reaction for molecular engineering of novel cost-effective highly rigid quinoxaline-based photosensitizers for highly efficient DSSCs application: Remarkable photovoltage. *Dyes and Pigments*, **2019**, 171, 107683	4.6	17
52	Ruthenium(III) mono (2,2?-bipyridine) complexes containing O,O-donor ligands and their oxidation properties for organic compounds. *Transition Metal Chemistry*, **2000**, 25, 572-578	2.1	17
51	Synthesis and Spectroscopic Studies of the Charge-Transfer Complexes of 2,3-Diaminopyridine and ?Electron Acceptors. *Spectroscopy Letters*, **2004**, 37, 337-345	1.1	16
50	An efficient eco advanced oxidation process for phenol mineralization using a 2D/3D nanocomposite photocatalyst and visible light irradiations. *Scientific Reports*, **2017**, 7, 9898	4.9	15
49	Synthesis and electrochemical characterization of Cr-doped lithium-rich Li1.2Ni0.16Mn0.56Co0.08-xCrxO2 cathodes. *Emergent Materials*, **2018**, 1, 155-164	3.5	15
48	Highly active, durable and pH-universal hybrid oxide nanocrystals for efficient oxygen evolution. *Sustainable Energy and Fuels*, **2017**, 1, 1123-1129	5.8	14
47	Rational synthesis of ternary PtIrNi nanocrystals with enhanced poisoning tolerance for electrochemical ethanol oxidation. *Electrochemistry Communications*, **2019**, 101, 61-67	5.1	14

46	Highly porous PtPd nanoclusters synthesized via selective chemical etching as efficient catalyst for ethanol electro-oxidation. *Applied Surface Science*, **2020**, 508, 145222	6.7	14
45	Spectroscopic investigation of the novel charge-transfer complex [(phen)(TCNE)(12)] formed in the reaction of phenacetin with tetracyanoethylene. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2005**, 62, 578-81	4.4	13
44	UVVis, IR spectra, mass spectrometry and thermal studies of charge transfer complexes formed in the reaction of 1, 4, 8, 11-tetraazacyclotetradecane with electron acceptors. *Journal of Molecular Liquids*, **2019**, 284, 616-624	6	12
43	Bimetallic palladium-supported halloysite nanotubes for low temperature CO oxidation: Experimental and DFT insights. *Applied Surface Science*, **2019**, 493, 70-80	6.7	12
42	Novel Mercaptopurine and Thioguanine Analogues: The Reaction of Dimethyl N-Cyanodithioiminocarbonate with Oxo- and Amino-diazoles. *Synthetic Communications*, **2004**, 34, 805-813	1.7	12
41	Synthesis, spectroscopic and thermal studies of charge-transfer molecular complexes formed in the reaction of 1,4-bis (3-aminopropyl) piperazine with and acceptors. *Journal of Molecular Structure*, **2012**, 1011, 172-180	3.4	11
40	Novel charge transfer complexes of the donor 1,4,7,10,13,16-hexamethyl-1,4,7,10,13,16-hexaazacyclooctadecane and the acceptors iodine, TCNE, and TCNQ. *Journal of Molecular Structure*, **2011**, 998, 126-135	3.4	11
39	Natural clay-supported palladium catalysts for methane oxidation reaction: effect of alloying.. *RSC Advances*, **2019**, 9, 32928-32935	3.7	11
38	Synthesis and performance evaluation of nanostructured NaFe Cr (SO) cathode materials in sodium ion batteries (SIBs).. *RSC Advances*, **2018**, 8, 32985-32991	3.7	10
37	Versatile Synthesis of Pd and Cu Co-Doped Porous Carbon Nitride Nanowires for Catalytic CO Oxidation Reaction. *Catalysts*, **2018**, 8, 411	4	9
36	Defect engineering in 1D Ti-W oxide nanotube arrays and their correlated photoelectrochemical performance. *Physical Chemistry Chemical Physics*, **2018**, 20, 10258-10265	3.6	8
35	Investigations into structure-property relationships of novel Ru(II) dyes with N,N?-Diethyl group in ancillary ligand for dye-sensitized solar cells. *Dyes and Pigments*, **2019**, 171, 107754	4.6	8
34	Spectroscopic investigation of the charge-transfer interactions between 1,4,7-trimethyl-1,4,7-triazacyclononane and the acceptors iodine, TCNE, TCNQ and chloranil. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2007**, 68, 908-11	4.4	8
33	Facile one-step synthesis of supportless porous AuPtPd nanocrystals as high performance electrocatalyst for glucose oxidation reaction. *International Journal of Hydrogen Energy*, **2020**, 45, 19163-19173	6.7	8
32	Factors influencing the reaction-mode selectivity and regiochemistry of intermolecular photocycloaddition reactions of ethenes to polysubstituted benzenes. *Recueil Des Travaux Chimiques Des Pays-Bas*, **1995**, 114, 485-491		7
31	Exploring halloysite nanotubes as catalyst support for methane combustion: Influence of support pretreatment. *Applied Clay Science*, **2021**, 201, 105956	5.2	7
30	Activation and stabilization of gallium arsenide anode in an aqueous photoelectrochemical cell. *Thin Solid Films*, **2003**, 444, 282-289	2.2	6
29	Rational one-pot synthesis of ternary PtIrCu nanocrystals as robust electrocatalyst for methanol oxidation reaction. *Applied Surface Science*, **2020**, 534, 147617	6.7	6

28	Synthesis, structural and lithium storage studies of graphene-LiVSi2O6 composites. *Ionics*, **2019**, 25, 1559-1566	2.7	
27	Charge-transfer complexes of 4-methylpiperidine with □and □acceptors. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 135, 498-505	4.4	4
26	Spectrophotometric and thermal studies on the charge--transfer complexes of 4-(aminomethyl) piperidine as donor with □and □electron acceptors. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 118, 1012-9	4.4	4
25	Charge-transfer complexes formed in the reaction of 1,4,7,10-tetraazacyclododecane with □electron acceptors. *Journal of Molecular Structure*, **2013**, 1037, 209-217	3.4	4
24	Sunlight-initiated cycloaddition reactions of the benzene ring. *Journal of Chemical Sciences*, **1993**, 105, 555-562	1.8	4
23	Improved electrochemical performance of SiO2-coated Li-rich layered oxides-Li1.2Ni0.13Mn0.54Co0.13O2. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 19475-19486	2.1	4
22	Synthesis of lithium manganese oxide nanocomposites using microwave-assisted chemical precipitation technique and their performance evaluation in lithium-ion batteries. *Energy Storage*, **2020**, 2, e202	2.8	4
21	Controlled design of PtPd nanodendrite ornamented niobium oxynitride nanosheets for solar-driven water splitting. *New Journal of Chemistry*, **2018**, 42, 14239-14245	3.6	3
20	Fast and Scalable Synthesis of LiNi0.5Mn1.5O4 Cathode by Sol□Gel-Assisted Microwave Sintering. *Energy Technology*, **2021**, 9, 2100085	3.5	3
19	Synthesis of Nickel Fumarate and Its Electrochemical Properties for Li-Ion Batteries. *Electrochem*, **2021**, 2, 439-451	2.9	3
18	Sodium and lithium incorporated cathode materials for energy storage applications - A focused review. *Journal of Power Sources*, **2021**, 506, 230098	8.9	3
17	Charge-transfer complexes formed in the reaction of 2-amino-4-ethylpyridine with □electron acceptors. *Journal of Molecular Structure*, **2016**, 1106, 10-18	3.4	2
16	Prevention of gallium arsenide photocorrosion by an epoxy adhesion layer. *International Journal of Adhesion and Adhesives*, **2004**, 24, 219-227	3.4	2
15	TiO2 encrusted MXene as a High-Performance anode material for Li-ion batteries. *Applied Surface Science*, **2022**, 583, 152441	6.7	2
14	Electronic, infrared, mass spectrometry and thermal studies on the reaction of 2-amino-6-methylpyridine with □acceptors. *Journal of Molecular Structure*, **2020**, 1199, 127021	3.4	2
13	Enhanced photocatalytic performance of WON@porous TiO nanofibers towards sunlight-assisted degradation of organic contaminants.. *RSC Advances*, **2018**, 8, 32747-32755	3.7	2
12	Graphene wrapped Y2O3 coated LiNi0.5Mn1.5O4 quasi-spheres as novel cathode materials for lithium-ion batteries. *Journal of Materials Research and Technology*, **2021**, 14, 1377-1389	5.5	2
11	Novel cycloalkane ring-fused arylazopyrazolo [1,5-a]-pyrimidine derivatives: synthesis, properties and dyeing characteristics. *Pigment and Resin Technology*, **2003**, 32, 248-258	1	1

10	Solution combustion synthesis of Ni-based hybrid metal oxides for oxygen evolution reaction in alkaline medium.. *RSC Advances*, **2022**, 12, 1694-1703	3.7	1
9	Electrochemical Performance of NaV(PO)F Electrode Material in a Symmetric Cell. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
8	Design of Ni/La2O3 catalysts for dry reforming of methane: Understanding the impact of synthesis methods. *International Journal of Hydrogen Energy*, **2021**,	6.7	1
7	Solution combustion synthesis of Ni/LaO for dry reforming of methane: tuning the basicity alkali and alkaline earth metal oxide promoters.. *RSC Advances*, **2021**, 11, 33734-33743	3.7	1
6	Synthesis and Performance Evaluation of Na(2-x)LixFeP2O7 (x=0, 0.6) Hybrid Cathodes. *ChemistrySelect*, **2020**, 5, 12548-12557	1.8	1
5	Photoelectrocatalytic hydrogen production on ternary Co-Pi/Ag/TiON nanotube array photocatalysts. *International Journal of Energy Research*, **2021**, 45, 6360-6368	4.5	1
4	Impact of coatings on the electrochemical performance of LiNi0.5Mn1.5O4 cathode materials: A focused review. *Ceramics International*, **2022**, 48, 7374-7392	5.1	1
3	Addressing scale-up challenges and enhancement in performance of hydrogen-producing microbial electrolysis cell through electrode modifications. *Energy Reports*, **2022**, 8, 2726-2746	4.6	0
2	Utilization of symmetric electrode materials in energy storage application: A review. *International Journal of Energy Research*,	4.5	0
1	Corrigendum to Three-component one-pot reaction for molecular engineering of novel cost-effective highly rigid quinoxaline-based photosensitizers for highly efficient DSSCs application: Remarkable photovoltage[Dyes and Pigments 171(2019) 107683107690]. *Dyes and Pigments*, **2020**, 173, 107962	4.6	