

Tariq A Altalhi

List of Publications by Year in descending order

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78
papers

1,372
citations

361413

20
h-index

395702

33
g-index

93
all docs

93
docs citations

93
times ranked

1432
citing authors

#	ARTICLE	IF	CITATIONS
1	Nature engineered diatom biosilica as drug delivery systems. <i>Journal of Controlled Release</i> , 2018, 281, 70-83.	9.9	106
2	A new approach for fabrications of SiC based photodetectors. <i>Scientific Reports</i> , 2016, 6, 23457.	3.3	102
3	A New Insight in Determining the Percolation Threshold of Electrical Conductivity for Extrinsicly Conducting Polymer Composites through Different Sigmoidal Models. <i>Polymers</i> , 2017, 9, 527.	4.5	87
4	Xerogel activated diatoms as an effective hybrid adsorbent for the efficient removal of malachite green. <i>New Journal of Chemistry</i> , 2019, 43, 3810-3820.	2.8	53
5	Hydroxyapatite-decorated ZrO ₂ for Î±-amylase immobilization: Toward the enhancement of enzyme stability and reusability. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 299-308.	7.5	50
6	Functionalized Porous Hydroxyapatite Scaffolds for Tissue Engineering Applications: A Focused Review. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 4039-4076.	5.2	46
7	Cathodically activated Au/TiO ₂ nanocomposite synthesized by a new facile solvothermal method: An efficient electrocatalyst with Pt-like activity for hydrogen generation. <i>Electrochimica Acta</i> , 2018, 290, 404-418.	5.2	45
8	Facile synthesis of highly thermally stable TiO ₂ photocatalysts. <i>New Journal of Chemistry</i> , 2017, 41, 5021-5027.	2.8	41
9	Xerogel modified diatomaceous earth microparticles for controlled drug release studies. <i>New Journal of Chemistry</i> , 2018, 42, 11964-11971.	2.8	41
10	Effect of carbon quantum dots on the optical and electrical properties of polyvinylidene fluoride polymer for optoelectronic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	41
11	Surface engineering of silica based materials with Ni-Fe layered double hydroxide for the efficient removal of methyl orange: Isotherms, kinetics, mechanism and high selectivity studies. <i>Chemosphere</i> , 2022, 287, 131976.	8.2	40
12	Quercetin/Zinc complex and stem cells: A new drug therapy to ameliorate glycometabolic control and pulmonary dysfunction in diabetes mellitus: Structural characterization and genetic studies. <i>PLoS ONE</i> , 2021, 16, e0246265.	2.5	32
13	Nanostructure Engineering via Intramolecular Construction of Carbon Nitride as Efficient Photocatalyst for CO ₂ Reduction. <i>Nanomaterials</i> , 2021, 11, 3245.	4.1	30
14	New optofluidic based lab-on-a-chip device for the real-time fluoride analysis. <i>Analytica Chimica Acta</i> , 2021, 1159, 338439.	5.4	28
15	An Environmentally Friendly Method for Removing Hg(II), Pb(II), Cd(II) and Sn(II) Heavy Metals from Wastewater Using Novel Metal-Carbon-Based Composites. <i>Crystals</i> , 2021, 11, 882.	2.2	27
16	Titanium dioxide nanoparticles: synthesis, characterisations and aquatic ecotoxicity effects. <i>Chemistry and Ecology</i> , 2018, 34, 288-299.	1.6	25
17	Fabrication of 2D-MoSe ₂ incorporated NiO Nanorods modified electrode for selective detection of glucose in serum samples. <i>Scientific Reports</i> , 2021, 11, 13266.	3.3	24
18	Hypolipidemic and hepatoprotective synergistic effects of selenium nanoparticles and vitamin. E against acrylamide-induced hepatic alterations in male albino mice. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5458.	3.5	23

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19	Recent Advances in Microfluidic Platform for Physical and Immunological Detection and Capture of Circulating Tumor Cells. <i>Biosensors</i> , 2022, 12, 220.	4.7	23
20	Current Trends in Nanoporous Anodized Alumina Platforms for Biosensing Applications. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-24.	2.7	22
21	Enhanced hydrogen evolution reaction on highly stable titania-supported PdO and Eu ₂ O ₃ nanocomposites in a strong alkaline solution. <i>International Journal of Energy Research</i> , 2019, 43, 5367-5383.	4.5	22
22	Titanium dioxide nanotubes conjugated with quercetin function as an effective anticancer agent by inducing apoptosis in melanoma cells. <i>Journal of Nanostructure in Chemistry</i> , 2021, 11, 721-734.	9.1	19
23	Preparation and Characterization of New CrFeO ₃ -Carbon Composite Using Environmentally Friendly Methods to Remove Organic Dye Pollutants from Aqueous Solutions. <i>Crystals</i> , 2021, 11, 960.	2.2	19
24	Real-Time Probe for the Efficient Sensing of Inorganic Fluoride and Copper Ions in Aqueous Media. <i>ChemistrySelect</i> , 2018, 3, 11593-11600.	1.5	18
25	Antioxidant, Antigenotoxic, and Hepatic Ameliorative Effects of Quercetin/Zinc Complex on Cadmium-Induced Hepatotoxicity and Alterations in Hepatic Tissue Structure. <i>Coatings</i> , 2021, 11, 501.	2.6	17
26	Semiconducting β -boron sheet with high mobility and low all-boron contact resistance: a first-principles study. <i>Nanoscale</i> , 2021, 13, 8474-8480.	5.6	15
27	Charge-transfer complexation of TCNE with azithromycin, the antibiotic used worldwide to treat the coronavirus disease (COVID-19). Part IV: A comparison between solid and liquid interactions. <i>Journal of Molecular Liquids</i> , 2021, 340, 117224.	4.9	15
28	Using a Modified Polyamidoamine Fluorescent Dendrimer for Capturing Environment Polluting Metal Ions Zn ²⁺ , Cd ²⁺ , and Hg ²⁺ : Synthesis and Characterizations. <i>Crystals</i> , 2021, 11, 92.	2.2	15
29	Photobiosynthesis of metal/graphene nanocomposites: new materials for water desalination and purification. <i>Desalination and Water Treatment</i> , 2016, 57, 26014-26021.	1.0	14
30	Low-cost synthesis of titanium dioxide anatase nanoclusters as advanced materials for hydrogen photoproduction. <i>Research on Chemical Intermediates</i> , 2017, 43, 4051-4062.	2.7	14
31	Potential Therapeutic Effects of New Ruthenium (III) Complex with Quercetin: Characterization, Structure, Gene Regulation, and Antitumor and Anti-Inflammatory Studies (Ru(III)/Q Novel Complex Is a Tumor Inhibitor). <i>Journal of Inorganic Chemistry</i> , 2021, 2021, 1-14.	2.8	14
32	Carbon Nanotubes/Nanoporous Anodic Alumina Composite Membranes: Influence of Template on Structural, Chemical, and Transport Properties. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13634-13644.	3.1	14
33	Optical spectroscopic studies on poly(methyl methacrylate) doped by charge transfer complex. <i>Optical Materials</i> , 2021, 117, 111152.	3.6	13
34	Emerging advances and current applications of nanoMOF-based membranes for water treatment. <i>Chemosphere</i> , 2022, 292, 133369.	8.2	13
35	Size- and shape-controlled synthesis of well-organised carbon nanotubes using nanoporous anodic alumina with different pore diameters. <i>Journal of Colloid and Interface Science</i> , 2017, 491, 375-389.	9.4	12
36	4-Chlorothiazole-5-carbaldehydes as Potent Precursors for Synthesis of Some New Pendant Heterocycles Endowed with Antitumor Activity. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 281-295.	2.6	12

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37	Mesopores silica nanotubes-based sensors for the highly selective and rapid detection of Fe ²⁺ ions in wastewater, boiler system units and biological samples. <i>Analytica Chimica Acta</i> , 2021, 1180, 338860.	5.4	12
38	Convenient Synthesis of Novel Nitrogen Bridgehead Heterocycles Utilizing 3-Mercapto-1H-[1,2,4,5]oxatriazino[3,2-a]isoindole-6-one as a New Synthone. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 2.6-60-72.	2.6	11
39	Pyrazole-carbothioamide as a Potent Precursor for Synthesis of Some New <i>N</i> -heterocycles of Potential Biological Activity. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 18-31.	2.6	11
40	Crystalline ZnO and $\text{ZnO} / \text{TiO}_2$ nanoparticles derived from <i>tert</i> -butyl N -(2-mercaptoethyl)carbamatozinc(II) chelate: Electrocatalytic studies for H_2 generation in alkaline electrolytes. <i>International Journal of Energy Research</i> , 2020, 44, 6725-6744.	4.5	11
41	Synthesis, Characterization, and Pharmacological Evaluation of Some New Pteridine-Based Heterocycles as Antimicrobial Agents. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 1352-1361.	2.6	10
42	Adsorption of Congo Red on Pb doped Fe ₃ O ₄ : experimental study and theoretical modeling via double-layer statistical physics models. <i>Water Science and Technology</i> , 2021, 83, 1714-1727.	2.5	10
43	Investigation of structural, electrical and optical properties of chitosan/fullerene composites. <i>Materials Research Express</i> , 2019, 6, 125304.	1.6	9
44	In situ H ₂ O ₂ generation for tuning reactivity of V ₄ O ₇ nanoflakes and V ₂ O ₅ nanorods for oxidase enzyme mimic activity and removal of organic pollutants. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105044.	6.7	9
45	Impact of Charge Transfer Complex on the Dielectric Relaxation Processes in Poly(methyl Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 5	3.8	9
46	ZnS Quantum Dots Decorated on One-Dimensional Scaffold of MWCNT/PANI Conducting Nanocomposite as an Anode for Enzymatic Biofuel Cell. <i>Polymers</i> , 2022, 14, 1321.	4.5	9
47	Synthesis and Pharmacological Investigations of Novel Pyrazolyl and Hydrazonoyl Cyanide Benzimidazole Entities. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 1426-1436.	2.6	8
48	Ternary Pt@TiO ₂ /rGO Nanocomposite to Boost Photocatalytic Activity for Environmental and Energy Use. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 3802-3809.	3.7	8
49	Construction of a Novel Three-Dimensional PEDOT/RVC Electrode Structure for Capacitive Deionization: Testing and Performance. <i>Materials</i> , 2017, 10, 847.	2.9	7
50	Pt@ZnO/M (M = Fe, Co, Ni or Cu): A New Promising Hybrid-Doped Noble Metal/Semiconductor Photocatalysts. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 4627-4636.	3.7	7
51	Statistical Physics Model of EBT Adsorption on Pb(II) doped Zinc Oxide Nanoparticles: Kinetics, Isotherm and Reuse Study. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-15.	3.3	7
52	Ultra-sonication assisted metal chalcogenide modified mesoporous Nickel-cobalt doped manganese oxide nanocomposite fabrication for sono-catalytic dye degradation and mechanism insights. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160072.	5.5	7
53	Chloroquine and hydroxychloroquine inhibitors for COVID-19 sialic acid cellular receptor: Structure, hirshfeld atomic charge analysis and solvent effect. <i>Journal of Molecular Structure</i> , 2021, 1228, 129459.	3.6	6
54	Effective adsorption of Fuchsin dye on FeZnOAC: kinetic, isotherm, double-layer modelling and reusability study. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 3954-3970.	3.3	6

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55	Design and development of defect rich titania nanostructure for efficient electrocatalyst for hydrogen evolution reaction in an acidic electrolyte. <i>Journal of Materials Research and Technology</i> , 2021, 14, 2739-2750.	5.8	6
56	Stability and electronic properties of gallene. <i>Nanoscale Advances</i> , 2022, 4, 1408-1413.	4.6	6
57	Experimental and statistical investigation of adsorption mechanism of toxic chromium on Al-Fe-Zn oxide nanocomposite and successful application on industrial wastewater. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-15.	3.3	6
58	Ternary Au@TiO ₂ /Fe ₂ O ₃ Nanocomposite with Nanoring Structure: Synthesis, Characterization and Photocatalytic Activity. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 4372-4379.	3.7	5
59	Electro-synthesis approach for some metal ion complexes derived from thiosemicarbazide; characterization, conformational, inhibitory simulation and Hirshfeld surface properties. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5766.	3.5	4
60	A Selective Ratiometric Receptor 2-((E)-(3-(prop-1-en-2-yl)phenylimino)methyl)-4-nitrophenol for the Detection of Cu ²⁺ Ions Supported By DFT Studies. <i>Journal of Fluorescence</i> , 2021, 31, 625-634.	2.5	4
61	Sprayable Sense: Sprayable Nanofibers for On-site Chemical Sensing. <i>Advanced Functional Materials</i> , 0, , 2103496.	14.9	4
62	Fe ₃ O ₄ @rGO nanocomposites: Synthesis, characterization and application in photooxidative degradation of atrazine under visible light. <i>Materials Express</i> , 2021, 11, 706-716.	0.5	3
63	N ⁺ -(4-(diethylamino)-2-hydroxybenzylidene) isonicotinohydrazide based chemosensor for nanomolar detection of Ni(II) ion. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-17.	3.3	3
64	Double-layer modelling and physicochemical parameters interpretation for chromium adsorption on ZnMnOAC nanocomposite. <i>Inorganic and Nano-Metal Chemistry</i> , 2023, 53, 228-238.	1.6	3
65	Synthesis and spectroscopic interpretations of Co(II), Ni(II) and Cu(II) decychoate complexes with molecular docking of COVID-19 protease. <i>Polish Journal of Chemical Technology</i> , 2021, 23, 54-59.	0.5	2
66	Stable Low-Dimensional Boron Chalcogenides from Planar Structural Motifs. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6059-6063.	2.5	2
67	Improved Photocatalytic Activity Using Ternary Au-ZnO/rGO Nanocomposite. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 606-613.	3.7	2
68	Cathodic Activation of Titania-Fly Ash Cenospheres for Efficient Electrochemical Hydrogen Production: A Proposed Solution to Treat Fly Ash Waste. <i>Catalysts</i> , 2022, 12, 466.	3.5	2
69	Spectroscopic and Physicochemical Studies on 1,2,4-Triazine Derivative. <i>Coatings</i> , 2022, 12, 714.	2.6	2
70	Data on charge-transfer interaction between 1-methyl-3-trifluoromethyl-2-pyrazoline-5-one with PA, CLA, TFQ, DDQ and TCNQ π -acceptors. <i>Data in Brief</i> , 2021, 36, 107137.	1.0	1
71	Electrical properties and aquatic ecotoxicity effects of ZnS nanocrystals. <i>Electrical Engineering</i> , 2018, 100, 1305-1315.	2.0	0
72	Rapid synthesis of TiO ₂ nanocrystal in aqueous solution at room temperature. <i>Inorganic and Nano-Metal Chemistry</i> , 2022, 52, 576-581.	1.6	0

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73	Characterization of orthogonal hydrogen and halogen bonds in thiobarbituric acid complexes with halogen molecules (X = I, Br, and Cl): Structural and spectroscopic study. Journal of the Chinese Chemical Society, 2021, 68, 1630.	1.4	0
74	Charge-transfer interaction of aspartame and neotame with several π -acceptors: Stoichiometric data. Data in Brief, 2021, 36, 107092.	1.0	0
75	In <i>situ</i> thermal decomposition route: Preparation and characterization of nano nickel, cobalt, and copper oxides using an aromatic amine complexes as a low-cost simple precursor. Polish Journal of Chemical Technology, 2021, 23, 47-53.	0.5	0
76	Luminescent Porous Silicon Nanoparticles for Continuous Wave and Time-Gated Photoluminescence Imaging. Methods in Molecular Biology, 2019, 2054, 185-198.	0.9	0
77	Facile one-pot solvothermal approach to produce inorganic hybrid $\text{TiO}_2 @ \text{CoTiO}_3$ green nano-pigment: structural, optical and photocatalytic properties. Inorganic and Nano-Metal Chemistry, 0, , 1-7.	1.6	0
78	Facile one-pot synthesis of $\text{TiO}_2 @ \text{ZnTiO}_3$ nanocomposites with efficient photocatalytic activity. Inorganic and Nano-Metal Chemistry, 0, , 1-6.	1.6	0