

# 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	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
2	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
3	Rapid synthesis of TiO <sub>2</sub> nanocrystal in aqueous solution at room temperature. <i>Inorganic and Nano-Metal Chemistry</i> , 2022, 52, 576-581.	1.6	0
4	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
5	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
6	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
7	Emerging advances and current applications of nanoMOF-based membranes for water treatment. <i>Chemosphere</i> , 2022, 292, 133369.	8.2	13
8	Stability and electronic properties of gallene. <i>Nanoscale Advances</i> , 2022, 4, 1408-1413.	4.6	6
9	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	10
10	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
11	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
12	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
13	Spectroscopic and Physicochemical Studies on 1,2,4-Triazine Derivative. <i>Coatings</i> , 2022, 12, 714.	2.6	2
14	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
15	Hydroxyapatite-decorated ZrO <sub>2</sub> for $\alpha$ -amylase immobilization: Toward the enhancement of enzyme stability and reusability. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 299-308.	7.5	50
16	Semiconducting $\alpha$ -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
17	A Selective Ratiometric Receptor 2-((E)-(3-(prop-1-en-2-yl)phenylimino)methyl)-4-nitrophenol for the Detection of Cu <sup>2+</sup> Ions Supported By DFT Studies. <i>Journal of Fluorescence</i> , 2021, 31, 625-634.	2.5	4
18	Adsorption of Congo Red on Pb doped Fe <sub>3</sub> O <sub>4</sub> : experimental study and theoretical modeling via double-layer statistical physics models. <i>Water Science and Technology</i> , 2021, 83, 1714-1727.	2.5	10

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19	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) Tj ETQq1 1 0.284314 1gBT /Over		
20	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. PLoS ONE, 2021, 16, e0246265.	2.5	32
21	In situ H <sub>2</sub> O <sub>2</sub> generation for tuning reactivity of V <sub>4</sub> O <sub>7</sub> nanoflakes and V <sub>2</sub> O <sub>5</sub> nanorods for oxidase enzyme mimic activity and removal of organic pollutants. Journal of Environmental Chemical Engineering, 2021, 9, 105044.	6.7	9
22	Titanium dioxide nanotubes conjugated with quercetin function as an effective anticancer agent by inducing apoptosis in melanoma cells. Journal of Nanostructure in Chemistry, 2021, 11, 721-734.	9.1	19
23	Antioxidant, Antigenotoxic, and Hepatic Ameliorative Effects of Quercetin/Zinc Complex on Cadmium-Induced Hepatotoxicity and Alterations in Hepatic Tissue Structure. Coatings, 2021, 11, 501.	2.6	17
24	Ternary Pt@TiO <sub>2</sub> /rGO Nanocomposite to Boost Photocatalytic Activity for Environmental and Energy Use. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 3802-3809.	3.7	8
25	New optofluidic based lab-on-a-chip device for the real-time fluoride analysis. Analytica Chimica Acta, 2021, 1159, 338439.	5.4	28
26	Ternary Au@TiO <sub>2</sub> /rGO-Fe <sub>2</sub> O <sub>3</sub> Nanocomposite with Nanoring Structure: Synthesis, Characterization and Photocatalytic Activity. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 4372-4379.	3.7	5
27	Characterization of orthogonal hydrogen and halogen bonds in thiobarbituric acid complexes with halogen molecules (X = F, Br, and Cl): Structural and spectroscopic study. Journal of the Chinese Chemical Society, 2021, 68, 1630.	1.4	0
28	Fe <sub>3</sub> O <sub>4</sub> @rGO nanocomposites: Synthesis, characterization and application in photooxidative degradation of atrazine under visible light. Materials Express, 2021, 11, 706-716.	0.5	3
29	Charge-transfer interaction of aspartame and neotame with several $\pi$ -acceptors: Stoichiometric data. Data in Brief, 2021, 36, 107092.	1.0	0
30	In situ 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
31	Data on charge-transfer interaction between 1-methyl-3-trifluoromethyl-2-pyrazoline-5-one with PA, CLA, TFQ, DDQ and TCNQ $\pi$ -acceptors. Data in Brief, 2021, 36, 107137.	1.0	1
32	Fabrication of 2D-MoSe <sub>2</sub> incorporated NiO Nanorods modified electrode for selective detection of glucose in serum samples. Scientific Reports, 2021, 11, 13266.	3.3	24
33	Synthesis and spectroscopic interpretations of Co(II), Ni(II) and Cu(II) decychoate complexes with molecular docking of COVID-19 protease. Polish Journal of Chemical Technology, 2021, 23, 54-59.	0.5	2
34	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. Crystals, 2021, 11, 882.	2.2	27
35	Optical spectroscopic studies on poly(methyl methacrylate) doped by charge transfer complex. Optical Materials, 2021, 117, 111152.	3.6	13
36	Stable Low-Dimensional Boron Chalcogenides from Planar Structural Motifs. Journal of Physical Chemistry A, 2021, 125, 6059-6063.	2.5	2

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37	Preparation and Characterization of New CrFeO <sub>3</sub> -Carbon Composite Using Environmentally Friendly Methods to Remove Organic Dye Pollutants from Aqueous Solutions. Crystals, 2021, 11, 960.	2.2	19
38	Ultra-sonication assisted metal chalcogenide modified mesoporous Nickel-cobalt doped manganese oxide nanocomposite fabrication for sono-catalytic dye degradation and mechanism insights. Journal of Alloys and Compounds, 2021, 875, 160072.	5.5	7
39	Design and development of defect rich titania nanostructure for efficient electrocatalyst for hydrogen evolution reaction in an acidic electrolyte. Journal of Materials Research and Technology, 2021, 14, 2739-2750.	5.8	6
40	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. Journal of Molecular Liquids, 2021, 340, 117224.	4.9	15
41	Mesopores silica nanotubes-based sensors for the highly selective and rapid detection of Fe <sup>2+</sup> ions in wastewater, boiler system units and biological samples. Analytica Chimica Acta, 2021, 1180, 338860.	5.4	12
42	Using a Modified Polyamidoamine Fluorescent Dendrimer for Capturing Environment Polluting Metal Ions Zn <sup>2+</sup> , Cd <sup>2+</sup> , and Hg <sup>2+</sup> : Synthesis and Characterizations. Crystals, 2021, 11, 92.	2.2	15
43	Nanostructure Engineering via Intramolecular Construction of Carbon Nitride as Efficient Photocatalyst for CO <sub>2</sub> Reduction. Nanomaterials, 2021, 11, 3245.	4.1	30
44	Electro-synthesis approach for some metal ion complexes derived from thiosemicarbazide; characterization, conformational, inhibitory simulation and Hirshfeld surface properties. Applied Organometallic Chemistry, 2020, 34, e5766.	3.5	4
45	Pt <sup>0</sup> /ZnO/M (M = Fe, Co, Ni or Cu): A New Promising Hybrid-Doped Noble Metal/Semiconductor Photocatalysts. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 4627-4636.	3.7	7
46	Hypolipidemic and hepatoprotective synergistic effects of selenium nanoparticles and vitamin E against acrylamide-induced hepatic alterations in male albino mice. Applied Organometallic Chemistry, 2020, 34, e5458.	3.5	23
47	Crystalline ZnO and ZnO / TiO <sub>2</sub> nanoparticles derived from tert-butyl N-(2 mercaptoethyl) carbamatozinc(II) chelate: Electrocatalytic studies for H <sub>2</sub> generation in alkaline electrolytes. International Journal of Energy Research, 2020, 44, 6725-6744.	4.5	11
48	Investigation of structural, electrical and optical properties of chitosan/fullerene composites. Materials Research Express, 2019, 6, 125304.	1.6	9
49	Enhanced hydrogen evolution reaction on highly stable titania-supported PdO and Eu <sub>2</sub> O <sub>3</sub> nanocomposites in a strong alkaline solution. International Journal of Energy Research, 2019, 43, 5367-5383.	4.5	22
50	Synthesis and Pharmacological Investigations of Novel Pyrazolyl and Hydrazonoyl Cyanide Benzimidazole Entities. Journal of Heterocyclic Chemistry, 2019, 56, 1426-1436.	2.6	8
51	Xerogel activated diatoms as an effective hybrid adsorbent for the efficient removal of malachite green. New Journal of Chemistry, 2019, 43, 3810-3820.	2.8	53
52	Synthesis, Characterization, and Pharmacological Evaluation of Some New Pteridine-Based Heterocycles as Antimicrobial Agents. Journal of Heterocyclic Chemistry, 2019, 56, 1352-1361.	2.6	10
53	Effect of carbon quantum dots on the optical and electrical properties of polyvinylidene fluoride polymer for optoelectronic applications. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	41
54	Convenient Synthesis of Novel Nitrogen Bridgehead Heterocycles Utilizing 3-Mercapto-6H-[1,2,4,5]oxatriazino[3,2-a]isoindol-6-one as a New Synthon. Journal of Heterocyclic Chemistry, 2019, 56, 2.6 60-72.		11

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55	Pyrazole-1-carbothioamide as a Potent Precursor for Synthesis of Some New heterocycles of Potential Biological Activity. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 18-31.	2.6	11
56	4-Chlorothiazole-5-carbaldehydes as Potent Precursors for Synthesis of Some New Pendant heterocycles Endowed with Anti-Tumor Activity. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 281-295.	2.6	12
57	Luminescent Porous Silicon Nanoparticles for Continuous Wave and Time-Gated Photoluminescence Imaging. <i>Methods in Molecular Biology</i> , 2019, 2054, 185-198.	0.9	0
58	Titanium dioxide nanoparticles: synthesis, characterisations and aquatic ecotoxicity effects. <i>Chemistry and Ecology</i> , 2018, 34, 288-299.	1.6	25
59	Electrical properties and aquatic ecotoxicity effects of ZnS nanocrystals. <i>Electrical Engineering</i> , 2018, 100, 1305-1315.	2.0	0
60	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
61	Cathodically activated Au/TiO <sub>2</sub> 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
62	Nature engineered diatom biosilica as drug delivery systems. <i>Journal of Controlled Release</i> , 2018, 281, 70-83.	9.9	106
63	Xerogel modified diatomaceous earth microparticles for controlled drug release studies. <i>New Journal of Chemistry</i> , 2018, 42, 11964-11971.	2.8	41
64	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
65	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
66	Facile synthesis of highly thermally stable TiO <sub>2</sub> photocatalysts. <i>New Journal of Chemistry</i> , 2017, 41, 5021-5027.	2.8	41
67	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
68	A New Insight in Determining the Percolation Threshold of Electrical Conductivity for Externally Conducting Polymer Composites through Different Sigmoidal Models. <i>Polymers</i> , 2017, 9, 527.	4.5	87
69	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
70	Current Trends in Nanoporous Anodized Alumina Platforms for Biosensing Applications. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-24.	2.7	22
71	A new approach for fabrications of SiC based photodetectors. <i>Scientific Reports</i> , 2016, 6, 23457.	3.3	102
72	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

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73	Statistical Physics Model of EBT Adsorption on Pb(II) doped Zinc Oxide Nanoparticles: Kinetics, Isotherm and Reuse Study. International Journal of Environmental Analytical Chemistry, 0, , 1-15.	3.3	7
74	Nâ€™-(4-(diethylamino)-2-hydroxybenzylidene) isonicotinohydrazide based chemosensor for nanomolar detection of Ni(II) ion. International Journal of Environmental Analytical Chemistry, 0, , 1-17.	3.3	3
75	Sprayâ€™Sense: Sprayable Nanofibers for Onâ€™Site Chemical Sensing. Advanced Functional Materials, 0, , 2103496.	14.9	4
76	Facile one-pot solvothermal approach to produce inorganic hybrid TiO <sub>2</sub> @CoTiO <sub>3</sub> green nano-pigment: structural, optical and photocatalytic properties. Inorganic and Nano-Metal Chemistry, 0, , 1-7.	1.6	0
77	Facile one-pot synthesis of TiO <sub>2</sub> @ZnTiO <sub>3</sub> nanocomposites with efficient photocatalytic activity. Inorganic and Nano-Metal Chemistry, 0, , 1-6.	1.6	0
78	Experimental and statistical investigation of adsorption mechanism of toxic chromium on Al-Fe-Zn oxide nanocomposite and successful application on industrial wastewater. International Journal of Environmental Analytical Chemistry, 0, , 1-15.	3.3	6