

# Nabil Alzeqri

## List of Publications by Year in descending order

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69  
papers

1,164  
citations

394421

19  
h-index

454955

30  
g-index

71  
all docs

71  
docs citations

71  
times ranked

820  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on opto-electrical, structural and electro-chemical performance of PVA/ZnBi <sub>2</sub> MoO <sub>7</sub> hybrid nanocomposites. <i>Polymer Bulletin</i> , 2023, 80, 773-790.	3.3	4
2	Mechanochemical synthesis of ternary heterojunctions TiO <sub>2</sub> (A)/TiO <sub>2</sub> (R)/ZnO and TiO <sub>2</sub> (A)/TiO <sub>2</sub> (R)/SnO <sub>2</sub> for effective charge separation in semiconductor photocatalysis: A comparative study. <i>Environmental Research</i> , 2022, 203, 111841.	7.5	32
3	Crystal structure, physicochemical, DFT, optical, keto-enol tautomerization, docking, and anti-diabetic studies of (Z)-pyrazol-2-keto-enol derivative. <i>Journal of Molecular Structure</i> , 2022, 1247, 131308.	3.6	13
4	Surface defect-engineered CeO <sub>2</sub> by ultrasound treatment for superior photocatalytic H <sub>2</sub> production and water treatment. <i>Catalysis Science and Technology</i> , 2022, 12, 2071-2083.	4.1	16
5	Exploration of O-N-S heteroatom self-doped mesoporous activated carbon derived from <i>Datura stramonium</i> seed pods as a potential electrode for supercapacitor application. <i>Ionics</i> , 2022, 28, 2363-2375.	2.4	10
6	Thiophene derivatives as corrosion inhibitors for 2024-T3 aluminum alloy in hydrochloric acid medium. <i>RSC Advances</i> , 2022, 12, 10321-10335.	3.6	18
7	Green synthesis of nickel oxide nanoparticles and its photocatalytic degradation and antibacterial activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 11864-11880.	2.2	24
8	Physicochemical, <i>in vitro</i> therapeutic activity, DNA-binding, and <i>in silico</i> molecular docking studies of samarium(III) complexes bearing N,O-chelated Schiff base ligands. <i>Journal of Coordination Chemistry</i> , 2022, 75, 994-1018.	2.2	4
9	Synthesis and XRD of Novel Ni <sub>4</sub> (μ <sub>3</sub> -O) <sub>4</sub> Twist Cubane Cluster Using Three NNO Mixed Ligands: Hirshfeld, Spectral, Thermal and Oxidation Properties. <i>Journal of Cluster Science</i> , 2021, 32, 227-234.	3.3	7
10	Syntheses of novel 1,5-benzodiazepine derivatives: Crystal structures, spectroscopic characterizations, Hirshfeld surface analyses, molecular docking studies, DFT calculations, corrosion inhibition anticipation, and antibacterial activities. <i>Journal of Heterocyclic Chemistry</i> , 2021, 58, 270-289.	2.6	12
11	An insight into the mechanism of "symbiotic-bioremoval" of heavy metal ions from synthetic and industrial samples using bacterial consortium. <i>Environmental Technology and Innovation</i> , 2021, 21, 101302.	6.1	9
12	Fabrication and characterization of CuO nanoplates based sensor device for ethanol gas sensing application. <i>Chemical Physics Letters</i> , 2021, 763, 138204.	2.6	56
13	Structural investigations, quantum mechanical studies on proton and metal affinity and biological activity predictions of selpercatinib. <i>Journal of Molecular Liquids</i> , 2021, 325, 114765.	4.9	18
14	Instant Cyclohexene Epoxidation Over Ni-TUD-1 Under Ambient Conditions. <i>Catalysis Letters</i> , 2021, 151, 1612-1622.	2.6	8
15	Low-temperature oxidation of carbon monoxide over Bi-metallic nanoparticles incorporated three dimensional silica. <i>Atmospheric Environment</i> , 2021, 244, 117955.	4.1	4
16	Excited-state electronic properties, structural studies, noncovalent interactions, and inhibition of the novel severe acute respiratory syndrome coronavirus 2 proteins in Ripretinib by first-principle simulations. <i>Journal of Molecular Liquids</i> , 2021, 324, 115134.	4.9	23
17	Approximation of ground water quality for microbial and chemical contamination. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 1757-1762.	3.8	9
18	Synthesis and characterization of starch based bioplastics using varying plant-based ingredients, plasticizers and natural fillers. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 1739-1749.	3.8	49

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19	Synthesis, physicochemical, thermal, XRD/HSA-interactions of Trans-(1E,2E)-Benzil-O,O-dimethylsulfonyl dioxime: Cis-trans isomerization, DFT and TD-DFT investigation. Journal of King Saud University - Science, 2021, 33, 101298.	3.5	0
20	Synthesis, characterization, reaction mechanism prediction and biological study of mono, bis and tetrakis pyrazole derivatives against Fusarium oxysporum f. sp. Albedinis with conceptual DFT and ligand-protein docking studies. Bioorganic Chemistry, 2021, 110, 104696.	4.1	18
21	New Heterocyclic Compounds: Synthesis, Antioxidant Activity and Computational Insights of Nano-Antioxidant as Ascorbate Peroxidase Inhibitor by Various Cyclodextrins as Drug Delivery Systems. Current Drug Delivery, 2021, 18, 334-349.	1.6	6
22	Design, XRD/HSA-interactions, spectral, thermal, Solvatochromism and DNA-binding of two [Cu(phen)(triene)]Br <sub>2</sub> complexes: Experimental and DFT/TD-DFT investigations. Journal of Molecular Structure, 2021, 1231, 129983.	3.6	4
23	Biosynthesis of zirconium oxide nanoparticles using Wrightia tinctoria leaf extract: Characterization, photocatalytic degradation and antibacterial activities. Inorganic Chemistry Communication, 2021, 127, 108507.	3.9	62
24	Ultrasonic synthesis, XRD/HSA-interactions, DFT, time-dependence spectrophotometric stability and thermal analysis of the water-bridge {[Cu(phen) <sub>2</sub> Br]Br·H <sub>2</sub> O} complex. Journal of King Saud University - Science, 2021, 33, 101464.	3.5	3
25	Amelioration of indole acetic acid-induced cytotoxicity in mice using zinc nanoparticles biosynthesized with Ochradenus arabicus leaf extract. Saudi Journal of Biological Sciences, 2021, 28, 7190-7201.	3.8	3
26	Enhanced photo-Fenton activity over a sunlight-driven ignition synthesized $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> -Fe <sub>3</sub> O <sub>4</sub> /CeO <sub>2</sub> heterojunction catalyst enriched with oxygen vacancies. Journal of Molecular Liquids, 2021, 335, 116186.	4.9	31
27	Spectroscopic Insight into Tetrahedrally Distorted Square Planar Copper(II) Complex: XRD/HSA, Physicochemical, DFT, and Thermal Investigations. Crystals, 2021, 11, 1179.	2.2	2
28	Synthesis of three quasi liquid Schiff bases between hexanal and adenine, cytosine, and l-leucine, structural interpretation, quantum mechanical studies and biological activity prediction. Journal of Molecular Liquids, 2021, 341, 117305.	4.9	22
29	Hemilability in neutral RuCl <sub>2</sub> (1- $\beta$ -D-glucopyranosyl)2(N <sup>-</sup> ) complexes: Physicochemical, trans/cis-isomerization, thermal and A DFT/TD-DFT. Journal of Molecular Liquids, 2021, 341, 117339.	4.9	2
30	2D g-C <sub>3</sub> N <sub>4</sub> as a bifunctional photocatalyst for co-catalyst and sacrificial agent-free photocatalytic N <sub>2</sub> fixation and dye photodegradation. New Journal of Chemistry, 2021, 45, 7174-7184.	2.8	15
31	Non-noble metallic Cu with three different roles in a Cu doped ZnO/Cu/g-C <sub>3</sub> N <sub>4</sub> heterostructure for enhanced Z-scheme photocatalytic activity. New Journal of Chemistry, 2021, 45, 13499-13511.	2.8	17
32	Diazo-pyrazole analogues as photosensitizers in dye sensitised solar cells: tuning for a better photovoltaic efficiency using a new modelling strategy using experimental and computational data. Zeitschrift Fur Physikalische Chemie, 2021, 235, 1227-1245.	2.8	11
33	Micro-Plasma Assisted Synthesis of ZnO Nanosheets for the Efficient Removal of Cr <sup>6+</sup> from the Aqueous Solution. Crystals, 2021, 11, 2.	2.2	2
34	One Pot Ultrasonic Assisted {[Ni(tptz)Cl(H <sub>2</sub> O) <sub>2</sub> ][Ni(tptz)(H <sub>2</sub> O) <sub>3</sub> ]}·3Cl <sub>2</sub> ·5H <sub>2</sub> O Complex Formation Using Triazine Ligand, XRD/HSA-Interactions, and Spectral and Thermal Investigation. Crystals, 2021, 11, 1474.	2.2	0
35	Synthesis of perovskite bismuth ferrite embedded nitrogen-doped Carbon (BiFeO <sub>3</sub> -NC) nanocomposite for energy storage application. Journal of Energy Storage, 2021, 44, 103515.	8.1	23
36	Cost-effective adsorbent from arabinogalactan and pectin of cactus pear peels: Kinetics and thermodynamics studies. International Journal of Biological Macromolecules, 2020, 150, 941-947.	7.5	18

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37	Construction of novel direct Z-scheme AgIO <sub>4</sub> -g-C <sub>3</sub> N <sub>4</sub> heterojunction for photocatalytic hydrogen production and photodegradation of fluorescein dye. <i>Diamond and Related Materials</i> , 2020, 109, 108071.	3.9	42
38	Rapid photocatalytic degradation of RhB dye and photocatalytic hydrogen production on novel curcumin/SnO <sub>2</sub> nanocomposites through direct Z-scheme mechanism. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 19188-19203.	2.2	28
39	Ag decorated V <sub>2</sub> O <sub>5</sub> nanorods as cathode material for lithium ion battery. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14279-14286.	2.2	10
40	Modelling the structural and reactivity landscapes of tucatinib with special reference to its wavefunction-dependent properties and screening for potential antiviral activity. <i>Journal of Molecular Modeling</i> , 2020, 26, 341.	1.8	35
41	Synthesis of Novel Tetra(μ <sup>3</sup> -Methoxo) Bridged with [Cu(II)-O-Cd(II)] Double-Open-Cubane Cluster: XRD/HSA-Interactions, Spectral and Oxidizing Properties. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8787.	4.1	5
42	Facile one-pot green synthesis of Ag@ZnO Nanocomposites using potato peel and their Ag concentration dependent photocatalytic properties. <i>Scientific Reports</i> , 2020, 10, 20229.	3.3	97
43	Nickel(dibenzotetramethyltetraaza[14]annulene complex immobilized on amino-functionalized TUD-1: an efficient catalyst for immediate and quantitative epoxidation of cyclohexene under ambient conditions. <i>New Journal of Chemistry</i> , 2020, 44, 20137-20147.	2.8	6
44	Instant and quantitative epoxidation of styrene under ambient conditions over a nickel(dibenzotetramethyltetraaza[14]annulene complex immobilized on amino-functionalized SBA-15. <i>RSC Advances</i> , 2020, 10, 35407-35418.	3.6	5
45	Rhodium Nanoparticles Incorporated Mesoporous Silica as an Active Catalyst for Cyclohexene Hydrogenation under Ambient Conditions. <i>Catalysts</i> , 2020, 10, 925.	3.5	4
46	In Vitro Bioadsorption of Cd <sup>2+</sup> Ions: Adsorption Isotherms, Mechanism, and an Insight to Mycoremediation. <i>Processes</i> , 2020, 8, 1085.	2.8	5
47	Exo/Endo Isomerism, MEP/DFT, XRD/HSA-Interactions of 2,5-Dimethoxybenzaldehyde: Thermal, 1BNA-Docking, Optical, and TD-DFT Studies. <i>Molecules</i> , 2020, 25, 5970.	3.8	4
48	First-Principle Studies of Istradefylline with Emphasis on the Stability, Reactivity, Interactions and Wavefunction-Dependent Properties. <i>Polycyclic Aromatic Compounds</i> , 2020, , 1-15.	2.6	15
49	Mono-Alkylated Ligands Based on Pyrazole and Triazole Derivatives Tested Against <i>Fusarium oxysporum</i> f. sp. <i>albidenis</i> : Synthesis, Characterization, DFT, and Phytase Binding Site Identification Using Blind Docking/Virtual Screening for Potent Fophy Inhibitors. <i>Frontiers in Chemistry</i> , 2020, 8, 559262.	3.6	12
50	Removal of Lead(II) from Synthetic Wastewater by <i>Lavandula pubescens</i> Decne Biosorbent: Insight into Composition-Adsorption Relationship. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7450.	2.5	8
51	Synthesis, physicochemical, thermal, and XRD/HSA interactions of mixed [Cu(Bipy)(Dipn)](X) <sub>2</sub> complexes: DNA binding and molecular docking evaluation. <i>Journal of Coordination Chemistry</i> , 2020, 73, 3236-3248.	2.2	15
52	Synthesis and Spectral Identification of Three Schiff Bases with a 2-(Piperazin-1-yl)-N-(thiophen-2-yl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Antibacterial, and Molecular Docking Investigations. <i>Molecules</i> , 2020, 25, 2253.	3.8	22
53	Synthesis of nanocaliflower ZnO photocatalyst by potato waste and its photocatalytic efficiency against dye. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11538-11547.	2.2	21
54	Green Synthesis of ZnO Nanostructures Using <i>Salvadora Persica</i> Leaf Extract: Applications for Photocatalytic Degradation of Methylene Blue Dye. <i>Crystals</i> , 2020, 10, 441.	2.2	30

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55	Synthesis and physicochemical, DFT, thermal and DNA-binding analysis of a new pentadentate N <sub>3</sub> S <sub>2</sub> Schiff base ligand and its [CuN <sub>3</sub> S <sub>2</sub> ] <sup>2+</sup> complexes. RSC Advances, 2020, 10, 21806-21821.	3.6	17
56	Synthesis and cytotoxic activity of some new heterocycles incorporating cyclohepta[b]thiophene-3-carboxamide derivatives. Journal of Heterocyclic Chemistry, 2020, 57, 3664-3672.	2.6	7
57	Synthesis and amide imidic prototropic tautomerization in thiophene-2-carbohydrazide: XRD, DFT/HSA-computation, DNA-docking, TG and isoconversional kinetics via FWO and KAS models. RSC Advances, 2020, 10, 2037-2048.	3.6	13
58	Low temperature ionothermal synthesis of TiO <sub>2</sub> nanomaterials for efficient photocatalytic H <sub>2</sub> production, dye degradation and photoluminescence studies. International Journal of Energy Research, 2020, 44, 8362-8371.	4.5	8
59	Structural and physico-chemical evaluation of melatonin and its solution-state excited properties, with emphasis on its binding with novel coronavirus proteins. Journal of Molecular Liquids, 2020, 318, 114082.	4.9	64
60	Crystal structure, Hirshfeld surface analysis and DFT studies of 1,3-bis[2-methoxy-4-(prop-2-en-1-yl)phenoxy]propane. Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 344-348.	0.5	2
61	Crystal structure, Hirshfeld surfaces, topology, energy frameworks and dielectric studies of 1-(2-chlorophenyl)-3,3-bis(methylthio)prop-2-en-1-one. Zeitschrift Fur Kristallographie - Crystalline Materials, 2020, 235, 85-93.	0.8	6
62	Theoretical and experimental solid state studies of Ethyl 1-benzyl-2-(thiophen-3-yl)-1H-benzo[d]imidazole-5-carboxylate. Zeitschrift Fur Kristallographie - Crystalline Materials, 2020, 235, 569-579.	0.8	2
63	Exploring the promising potential of MoS <sub>2</sub> -RuS <sub>2</sub> binary metal sulphide towards the electrocatalysis of antibiotic drug sulphadiazine. Analytica Chimica Acta, 2019, 1086, 55-65.	5.4	42
64	A sensitive electrochemical determination of chemotherapy agent using graphitic carbon nitride covered vanadium oxide nanocomposite; sonochemical approach. Ultrasonics Sonochemistry, 2019, 58, 104664.	8.2	18
65	1,3-Bis{[(E)-(9-ethyl-9H-carbazol-3-yl)methylene]amino}propan-2-ol. MolBank, 2018, 2018, M986.	0.5	2
66	Single proton intramigration in novel 4-phenyl-3-((4-phenyl-1H-1,2,3-triazol-1-yl)methyl)-1H-1,2,4-triazole-5(4H)-thione: XRD-crystal interactions, physicochemical, thermal, Hirshfeld surface, DFT realization of thiol/thione tautomerism. Journal of Molecular Liquids, 2018, 264, 621-630.	4.9	43
67	1,3-Bis[(E)-(3-bromobenzylidene)amino]propan-2-ol. MolBank, 2017, 2017, M971.	0.5	2
68	Synthesis, spectral, thermal, and a crystalline structure of complexes containing [MeC(CH <sub>2</sub> PPH <sub>2</sub> ) <sub>3</sub> Cu(I)]. Research on Chemical Intermediates, 2013, 39, 721-732.	2.7	5
69	Probing optical efficiency and electrochemical behaviors of polycarbonate incorporating conducting PANI and halloysite nanotubes (HNTs) as core-shell nanofillers. Polymer Bulletin, 0, , 1.	3.3	3