

# 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  | 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        |
| 2  | Structural and physico-chemical evaluation of melatonin and its solution-state excited properties, with emphasis on its binding with novel coronavirus proteins. <i>Journal of Molecular Liquids</i> , 2020, 318, 114082.  | 4.9 | 64        |
| 3  | Biosynthesis of zirconium oxide nanoparticles using <i>Wrightia tinctoria</i> leaf extract: Characterization, photocatalytic degradation and antibacterial activities. <i>Inorganic Chemistry Communication</i> , 2021, 127, 108507.   | 3.9 | 62        |
| 4  | 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        |
| 5  | 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        |
| 6  | 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. <i>Journal of Molecular Liquids</i> , 2018, 264, 621-630.    | 4.9 | 43        |
| 7  | Exploring the promising potential of MoS <sub>2</sub> @RuS <sub>2</sub> binary metal sulphide towards the electrocatalysis of antibiotic drug sulphadiazine. <i>Analytica Chimica Acta</i> , 2019, 1086, 55-65.  | 5.4 | 42        |
| 8  | 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        |
| 9  | 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        |
| 10 | 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        |
| 11 | 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. <i>Journal of Molecular Liquids</i> , 2021, 335, 116186.                     | 4.9 | 31        |
| 12 | 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        |
| 13 | 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        |
| 14 | 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        |
| 15 | 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        |
| 16 | Synthesis of perovskite bismuth ferrite embedded nitrogen-doped Carbon (BiFeO <sub>3</sub> -NC) nanocomposite for energy storage application. <i>Journal of Energy Storage</i> , 2021, 44, 103515.   | 8.1 | 23        |
| 17 | Synthesis and Spectral Identification of Three Schiff Bases with a 2-(Piperazin-1-yl)-N-(thiophen-2-yl) Tj ETQq1 1 0.784314 rgBT /Overl<br>Antibacterial, and Molecular Docking Investigations. <i>Molecules</i> , 2020, 25, 2253.   | 3.8 | 22        |
| 18 | Synthesis of three quasi liquid Schiff bases between hexanal and adenine, cytosine, and I-leucine, structural interpretation, quantum mechanical studies and biological activity prediction. <i>Journal of Molecular Liquids</i> , 2021, 341, 117305.  | 4.9 | 22        |

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|----|--|-----|-----------|
| 19 | Synthesis of nanocauliflower 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        |
| 20 | A sensitive electrochemical determination of chemotherapy agent using graphitic carbon nitride covered vanadium oxide nanocomposite; sonochemical approach. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104664.   | 8.2 | 18        |
| 21 | Cost-effective adsorbent from arabinogalactan and pectin of cactus pear peels: Kinetics and thermodynamics studies. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 941-947.  | 7.5 | 18        |
| 22 | 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        |
| 23 | Synthesis, characterization, reaction mechanism prediction and biological study of mono, bis and tetrakis pyrazole derivatives against <i>Fusarium oxysporum</i> f. sp. <i>Albedinis</i> with conceptual DFT and ligand-protein docking studies. <i>Bioorganic Chemistry</i> , 2021, 110, 104696.                                  | 4.1 | 18        |
| 24 | 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        |
| 25 | Synthesis and physicochemical, DFT, thermal and DNA-binding analysis of a new pentadentate $N_3S_2$ Schiff base ligand and its $[CuN_3S_2]^{2+}$ complexes. <i>RSC Advances</i> , 2020, 10, 21806-21821.   | 3.6 | 17        |
| 26 | 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. <i>New Journal of Chemistry</i> , 2021, 45, 13499-13511.  | 2.8 | 17        |
| 27 | 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        |
| 28 | 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        |
| 29 | Synthesis, physicochemical, thermal, and XRD/HSA interactions of mixed $[Cu(Bipy)(Dipn)](X)_2$ complexes: DNA binding and molecular docking evaluation. <i>Journal of Coordination Chemistry</i> , 2020, 73, 3236-3248.  | 2.2 | 15        |
| 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. <i>New Journal of Chemistry</i> , 2021, 45, 7174-7184.  | 2.8 | 15        |
| 31 | 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. <i>RSC Advances</i> , 2020, 10, 2037-2048.  | 3.6 | 13        |
| 32 | Crystal structure, physicochemical, DFT, optical, keto-enol tautomerization, docking, and anti-diabetic studies of (Z)-pyrazol-1 <sup>2</sup> -keto-enol derivative. <i>Journal of Molecular Structure</i> , 2022, 1247, 131308.   | 3.6 | 13        |
| 33 | Mono-Alkylated Ligands Based on Pyrazole and Triazole Derivatives Tested Against <i>Fusarium oxysporum</i> f. sp. <i>albedinis</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        |
| 34 | 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        |
| 35 | 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. <i>Zeitschrift Fur Physikalische Chemie</i> , 2021, 235, 1227-1245.  | 2.8 | 11        |
| 36 | Ag decorated V2O5 nanorods as cathode material for lithium ion battery. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14279-14286.   | 2.2 | 10        |

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|----|---|-----|-----------|
| 37 | 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        |
| 38 | 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         |
| 39 | Approximation of ground water quality for microbial and chemical contamination. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 1757-1762.  | 3.8 | 9         |
| 40 | 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         |
| 41 | Instant Cyclohexene Epoxidation Over Ni-TUD-1 Under Ambient Conditions. <i>Catalysis Letters</i> , 2021, 151, 1612-1622.  | 2.6 | 8         |
| 42 | Low temperature ionothermal synthesis of TiO <sub>2</sub> nanomaterials for efficient photocatalytic H <sub>2</sub> production, dye degradation and photoluminescence studies. <i>International Journal of Energy Research</i> , 2020, 44, 8362-8371.               | 4.5 | 8         |
| 43 | Synthesis and cytotoxic activity of some new heterocycles incorporating cyclohepta[b]thiophene-3-carboxamide derivatives. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 3664-3672.   | 2.6 | 7         |
| 44 | 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         |
| 45 | 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         |
| 46 | New Heterocyclic Compounds: Synthesis, Antioxidant Activity and Computational Insights of Nano-Antioxidant as Ascorbate Peroxidase Inhibitor by Various Cyclodextrins as Drug Delivery Systems. <i>Current Drug Delivery</i> , 2021, 18, 334-349.                   | 1.6 | 6         |
| 47 | Crystal structure, Hirshfeld surfaces, topology, energy frameworks and dielectric studies of 1-(2-chlorophenyl)-3,3-bis(methylthio)prop-2-en-1-one. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2020, 235, 85-93.                             | 0.8 | 6         |
| 48 | Synthesis, spectral, thermal, and a crystalline structure of complexes containing [MeC(CH <sub>2</sub> PPh <sub>2</sub> ) <sub>3</sub> Cu(I)]. <i>Research on Chemical Intermediates</i> , 2013, 39, 721-732.   | 2.7 | 5         |
| 49 | Synthesis of Novel Tetra(μ <sub>3</sub> -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         |
| 50 | 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         |
| 51 | 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         |
| 52 | Rhodium Nanoparticles Incorporated Mesoporous Silica as an Active Catalyst for Cyclohexene Hydrogenation under Ambient Conditions. <i>Catalysts</i> , 2020, 10, 925.  | 3.5 | 4         |
| 53 | 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         |
| 54 | Low-temperature oxidation of carbon monoxide over Bi-metallic nanoparticles incorporated three dimensional silica. <i>Atmospheric Environment</i> , 2021, 244, 117955.  | 4.1 | 4         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | 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         |
| 56 | Investigation on opto-electrical, structural and electro-chemical performance of PVA/ZnBi <sub>2</sub> MoO <sub>7</sub> hybrid nanocomposites. Polymer Bulletin, 2023, 80, 773-790.   | 3.3 | 4         |
| 57 | 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. Journal of Coordination Chemistry, 2022, 75, 994-1018.                              | 2.2 | 4         |
| 58 | 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         |
| 59 | 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         |
| 60 | 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         |
| 61 | 1,3-Bis[(E)-(3-bromobenzylidene)amino]propan-2-ol. MolBank, 2017, 2017, M971.   | 0.5 | 2         |
| 62 | 1,3-Bis{[(E)-(9-ethyl-9H-carbazol-3-yl)methylene]amino}propan-2-ol. MolBank, 2018, 2018, M986.  | 0.5 | 2         |
| 63 | Spectroscopic Insight into Tetrahedrally Distorted Square Planar Copper(II) Complex: XRD/HSA, Physicochemical, DFT, and Thermal Investigations. Crystals, 2021, 11, 1179.   | 2.2 | 2         |
| 64 | Hemilability in neutral RuCl <sub>2</sub> (1- <i>n</i> -P <sup>+</sup> )(N <sup>-</sup> ) <sub>2</sub> (N <sup>-</sup> ) complexes: Physicochemical, trans/cis-isomerization, thermal and A DFT/TD-DFT. Journal of Molecular Liquids, 2021, 341, 117339.                    | 4.9 | 2         |
| 65 | 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         |
| 66 | 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         |
| 67 | 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         |
| 68 | Synthesis, physicochemical, thermal, XDR/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         |
| 69 | 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·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         |