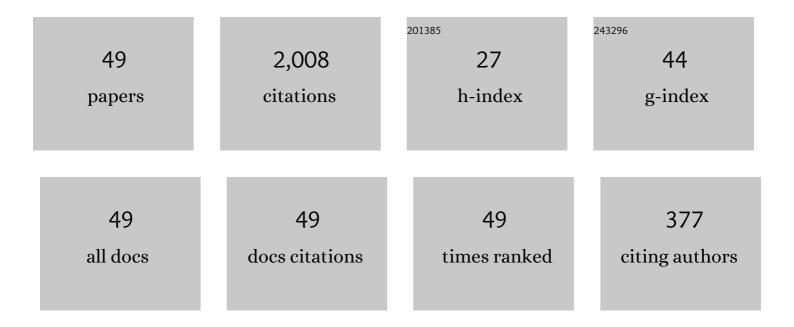
## **Riaz Hussain**

List of Publications by Year in descending order

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RIAZ HUSSAIN

#	Article	IF	CITATIONS
1	The potential role of dietary plant ingredients against mammary cancer: a comprehensive review. Critical Reviews in Food Science and Nutrition, 2022, 62, 2580-2605.	5.4	11
2	Computational engineering to enhance the photovoltaic by <scp>endâ€capped</scp> and bridging core alterations: Empowering the future with solar energy through synergistic effect in <scp>Dâ€A</scp> materials. International Journal of Quantum Chemistry, 2022, 122, e26821.	1.0	14
3	Novel Starâ€Shaped Benzotriindoleâ€Based Nonfullerene Donor Materials: Toward the Development of Promising Photovoltaic Compounds for Highâ€Performance Organic Solar Cells. Energy Technology, 2022, 10, .	1.8	18
4	Physicalâ€organic aspects along with linear and nonlinear optical properties of benzene sulfonamide compounds: In silico analysis. Journal of Physical Organic Chemistry, 2022, 35, .	0.9	13
5	Fabrication of Bimetallic Cu–Ag Nanoparticle-Decorated Poly(cyclotriphosphazene- <i>co</i> -4,4â€2-sulfonyldiphenol) and Its Enhanced Catalytic Activity for the Reduction of 4-Nitrophenol. ACS Omega, 2022, 7, 7096-7102.	1.6	18
6	Coordination behavior, structural, statistical and theoretical investigation of biologically active metal-based isatin compounds. Chemical Papers, 2022, 76, 3705-3727.	1.0	28
7	Ab Initio Study of Two-Dimensional Cross-Shaped Non-Fullerene Acceptors for Efficient Organic Solar Cells. ACS Omega, 2022, 7, 10638-10648.	1.6	30
8	Novel quad-rotor-shaped photovoltaic materials: first example of fused-ring non-fullerene acceptors with proficient photovoltaic properties for high-performance solar cells. Journal of Molecular Modeling, 2022, 28, 18.	0.8	2
9	First example of N-shaped dipyrrolo[2,3-b:2′,3′-e]pyrazine-2,6(1H,5H)-dione based small acceptor materials: Role of cyano (â^'C≡N) free guest acceptors for developing environmental friendly organic solar cells. European Physical Journal Plus, 2022, 137, .	1.2	4
10	Efficient designing of half-moon-shaped chalcogen heterocycles as non-fullerene acceptors for organic solar cells. Journal of Molecular Modeling, 2022, 28, 125.	0.8	28
11	Nonfullerene Near-Infrared Sensitive Acceptors "Octacyclic Naphtho[1,2- <i>b</i> :5,6- <i>b</i> ] Dithiophene Core―for Organic Solar Cell Applications: <i>In Silico</i> Molecular Engineering. ACS Omega, 2022, 7, 16716-16727.	1.6	8
12	Deciphering the Role of Alkali Metals (Li, Na, K) Doping for Triggering Nonlinear Optical (NLO) Properties of T-Graphene Quantum Dots: Toward the Development of Giant NLO Response Materials. ACS Omega, 2022, 7, 24396-24414.	1.6	15
13	First theoretical framework of Z-shaped acceptor materials with fused-chrysene core for high performance organic solar cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 245, 118938.	2.0	84
14	Efficient Cu Decorated Inorganic B <sub>12</sub> P <sub>12</sub> Nanoclusters for Sensing Toxic COCl <sub>2</sub> Gas: A Detailed DFT Study. Journal of Computational Biophysics and Chemistry, 2021, 20, 85-97.	1.0	36
15	Efficient designing of triphenylamine-based hole transport materials with outstanding photovoltaic characteristics for organic solar cells. Journal of Materials Science, 2021, 56, 5113-5131.	1.7	86
16	Digera muricata (L.) Mart. mediated synthesis of antimicrobial and enzymatic inhibitory zinc oxide bionanoparticles. Green Processing and Synthesis, 2021, 10, 476-484.	1.3	2
17	Enhancement in the Photovoltaic Properties of Hole Transport Materials by Endâ€Capped Donor Modifications for Solar Cell Applications. Bulletin of the Korean Chemical Society, 2021, 42, 597-610.	1.0	49
18	End-capped engineering of truxene core based acceptor materials for high performance organic solar cells: theoretical understanding and prediction. Optical and Quantum Electronics, 2021, 53, 1.	1.5	50

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19	Quantum chemical design of nearâ€infrared sensitive fused ring electron acceptors containing selenophene as ï€â€bridge for highâ€performance organic solar cells. Journal of Physical Organic Chemistry, 2021, 34, e4204.	0.9	58
20	Designing of Uâ€shaped acceptor molecules for indoor and outdoor organic solar cell applications. Journal of Physical Organic Chemistry, 2021, 34, e4210.	0.9	48
21	Endâ€Capped Molecular Engineering of Sâ€Shaped Heptaâ€Ringâ€Containing Fullereneâ€Free Acceptor Molecule with Remarkable Photovoltaic Characteristics for Highly Efficient Organic Solar Cells. Energy Technology, 2021, 9, 2001090.	2S 1.8	39
22	In Silico Designing of <b>Mg<sub>12</sub>O<sub>12</sub></b> Nanoclusters with a Late Transition Metal for NO <sub>2</sub> Adsorption: An Efficient Approach toward the Development of NO <sub>2</sub> Sensing Materials. ACS Omega, 2021, 6, 14191-14199.	1.6	23
23	Key Electronic, Linear and Nonlinear Optical Properties of Designed Disubstituted Quinoline with Carbazole Compounds. Molecules, 2021, 26, 2760.	1.7	23
24	Banana-Shaped Nonfullerene Acceptor Molecules for Highly Stable and Efficient Organic Solar Cells. Energy & Fuels, 2021, 35, 11496-11506.	2.5	37
25	Role of acceptor guests in tuning optoelectronic properties of benzothiadiazole core based non-fullerene acceptors for high-performance bulk-heterojunction organic solar cells. Journal of Molecular Modeling, 2021, 27, 226.	0.8	34
26	A Theoretical Framework of Zinc-Decorated Inorganic Mg <sub>12</sub> O <sub>12</sub> Nanoclusters for Efficient COCl <sub>2</sub> Adsorption: A Step Forward toward the Development of COCl <sub>2</sub> Sensing Materials. ACS Omega, 2021, 6, 19435-19444.	1.6	30
27	Novel W-Shaped Oxygen Heterocycle-Fused Fluorene-Based Non-Fullerene Acceptors: First Theoretical Framework for Designing Environment-Friendly Organic Solar Cells. Energy & amp; Fuels, 2021, 35, 12436-12450.	2.5	67
28	A Validated Non-compendial Method for Determination of Haemodialysis Concentrate's Contents and its Comparison with Compendial Method: Application of ISO 13958:2014 Standard. Current Pharmaceutical Analysis, 2021, 17, 1240-1248.	0.3	0
29	Structural modulation of ï€-conjugated linkers in D–ï€â€"A dyes based on triphenylamine dicyanovinylene framework to explore the NLO properties. Royal Society Open Science, 2021, 8, 210570.	1.1	45
30	NLO potential exploration for D–π–A heterocyclic organic compounds by incorporation of various Ï€-linkers and acceptor units. Arabian Journal of Chemistry, 2021, 14, 103295.	2.3	72
31	Butterfly-shaped hole transport materials with outstanding photovoltaic properties for organic solar cells. Optical and Quantum Electronics, 2021, 53, 1.	1.5	26
32	Exploration of second and third order nonlinear optical properties for theoretical framework of organic D–Ĩ€â€"D–Ĩ€â€"A type compounds. Optical and Quantum Electronics, 2021, 53, 1.	1.5	15
33	Meteloxetin (1) Novel Phenolic Amino-Oxetane Cholinesterase Inhibitors from Datura metel Linn and First-Principle Investigations. Arabian Journal for Science and Engineering, 2021, 46, 5681-5690.	1.7	1
34	Coumaronochromone as antibacterial and carbonic anhydrase inhibitors from Aerva persica (Burm.f.) Merr.: experimental and first-principles approaches. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2021, 76, 71-78.	0.6	3
35	Designing and Encapsulation of Inorganic Al12N12 Nanoclusters with Be, Mg, and Ca Metals for Efficient Hydrogen Adsorption: A Step Forward Towards Hydrogen Storage Materials. Journal of Computational Biophysics and Chemistry, 2021, 20, 687-705.	1.0	19
36	Designing spirobifullerene core based threeâ€dimensional cross shape acceptor materials with promising photovoltaic properties for <scp>highâ€efficiency</scp> organic solar cells. International Journal of Quantum Chemistry, 2020, 120, e26377.	1.0	84

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37	Molecular engineering of A–D–C–D–A configured small molecular acceptors (SMAs) with promising photovoltaic properties for high-efficiency fullerene-free organic solar cells. Optical and Quantum Electronics, 2020, 52, 1.	1.5	96
38	In Silico Modeling of New "Y-Series―Based Near-Infrared Sensitive Non-Fullerene Acceptors for Efficient Organic Solar Cells. ACS Omega, 2020, 5, 24125-24137.	1.6	103
39	Designing of near-infrared sensitive asymmetric small molecular donors for high-efficiency organic solar cells. Journal of Theoretical and Computational Chemistry, 2020, 19, 2050034.	1.8	67
40	Enhancement in Photovoltaic Properties of <i>N</i> , <i>N</i> â€diethylaniline based Donor Materials by Bridging Core Modifications for Efficient Solar Cells. ChemistrySelect, 2020, 5, 5022-5034.	0.7	95
41	Designing indenothiophene-based acceptor materials with efficient photovoltaic parameters for fullerene-free organic solar cells. Journal of Molecular Modeling, 2020, 26, 137.	0.8	97
42	Designing Novel Zn-Decorated Inorganic B <sub>12</sub> P <sub>12</sub> Nanoclusters with Promising Electronic Properties: A Step Forward toward Efficient CO <sub>2</sub> Sensing Materials. ACS Omega, 2020, 5, 15547-15556.	1.6	71
43	Adsorption of Phosgene Gas on Pristine and Copper-Decorated B <sub>12</sub> N <sub>12</sub> Nanocages: A Comparative DFT Study. ACS Omega, 2020, 5, 7641-7650.	1.6	114
44	Designing Triphenylamineâ€Configured Donor Materials with Promising Photovoltaic Properties for Highly Efficient Organic Solar Cells. ChemistrySelect, 2020, 5, 7358-7369.	0.7	67
45	Zinc-Doped Boron Phosphide Nanocluster as Efficient Sensor for SO <sub>2</sub> . Journal of Chemistry, 2020, 2020, 1-12.	0.9	45
46	Density functional theory, molecular docking and bioassay studies on (S)-2-hydroxy-N-(2S,3S,4R,E)-1,3,4	1.4	3
47	Thermal decomposition of syn- and anti-dihydropyrenes; functional group-dependent decomposition pathway. Journal of Molecular Modeling, 2019, 25, 215.	0.8	1
48	Traffic â€end Industryâ€Related Air Pollution Exposure Assessment in an Asian Megacity. Clean - Soil, Air, Water, 2018, 46, 1600773.	0.7	10
49	Designing Threeâ€dimensional (3D) Nonâ€Fullerene Small Molecule Acceptors with Efficient Photovoltaic Parameters. ChemistrySelect, 2018, 3, 12797-12804.	0.7	119