

# Avijit Kumar Paul

## List of Publications by Year in descending order

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61  
papers

1,483  
citations

361296

20  
h-index

345118

36  
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61  
docs citations

61  
times ranked

1548  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, synthesis, characterization, antimicrobial evaluation and molecular modeling studies of some dehydroacetic acid-chalcone-1,2,3-triazole hybrids. Bioorganic Chemistry, 2018, 77, 236-244.	2.0	107
2	Lattice Instability and Competing Spin Structures in the Double Perovskite Insulator $\text{Sr}_2\text{FeOsO}_6$ . Physical Review Letters, 2013, 111, 167205.	2.8	100
3	Synthesis, crystal structure and antimicrobial potential of some fluorinated chalcone-1,2,3-triazole conjugates. European Journal of Medicinal Chemistry, 2018, 155, 263-274.	2.6	96
4	Adsorption-desorption and photocatalytic properties of inorganic-organic hybrid cadmium thiosulfate compounds. Physical Chemistry Chemical Physics, 2009, 11, 11285.	1.3	80
5	Synthesis, Crystal Structure, and Physical Properties of $\text{Sr}_2\text{FeOsO}_6$ . Inorganic Chemistry, 2013, 52, 6713-6719.	1.9	68
6	Lanthanide Luminescent Coordination Polymer Constructed from Unsymmetrical Dinuclear Building Blocks Based on 4-((1H-Benzo[d]imidazol-1-yl)methyl)benzoic Acid. Crystal Growth and Design, 2011, 11, 857-864.	1.4	67
7	Lattice-Site-Specific Spin Dynamics in Double Perovskite $\text{Sr}_2\text{FeOsO}_6$ . Physical Review Letters, 2014, 112, 147202.	2.9	59
8	$[\text{B}_4\text{O}_9\text{H}_2]$ Cyclic Borate Units as the Building Unit in a Family of Zinc Borate Structures. Crystal Growth and Design, 2010, 10, 456-464.	1.4	58
9	Synthesis, Structure, Photochemical [2 + 2] Cycloaddition, Transformation, and Photocatalytic Studies in a Family of Inorganic-Organic Hybrid Cadmium Thiosulfate Compounds. Crystal Growth and Design, 2011, 11, 5741-5749.	1.4	57
10	Magnetically Frustrated Double Perovskites: Synthesis, Structural Properties, and Magnetic Order of $\text{Sr}_2\text{B}_i\text{OsO}_6$ ( $B_i = \text{Y, In, Sc}$ ). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 197-205.	0.6	47
11	Synthesis, characterization, $\alpha$ -glucosidase inhibition and molecular modeling studies of some pyrazoline-1H-1,2,3-triazole hybrids. Journal of Molecular Structure, 2020, 1216, 128253.	1.8	47
12	Use of Polyazaheterocycles in the Assembly of New Cadmium Sulfate Frameworks: Synthesis, Structure, and Properties. Crystal Growth and Design, 2010, 10, 4161-4175.	1.4	38
13	Amine-Templated Aluminoborates Exhibiting Graphite and Diamond Nets. Crystal Growth and Design, 2010, 10, 765-774.	1.4	35
14	Investigation of New $B$ -Site-Disordered Perovskite Oxide $\text{CaLaScRuO}_6$ : An Efficient Oxygen Bifunctional Electrocatalyst in a Highly Alkaline Medium. ACS Applied Materials & Interfaces, 2020, 12, 9190-9200.	4.0	35
15	Multifunctionality Exploration of $\text{Ca}_2\text{FeRuO}_6$ : An Efficient Trifunctional Electrocatalyst toward OER/ORR/HER and Photocatalyst for Water Splitting. ACS Applied Energy Materials, 2021, 4, 1323-1334.	2.5	32
16	The use of hydrothermal methods in the synthesis of novel open-framework materials. Journal of Chemical Sciences, 2006, 118, 525-536.	0.7	31
17	Synthesis, structure, transformation studies and catalytic properties of open-framework cadmium thiosulfate compounds. Dalton Transactions, 2010, 39, 2263.	1.6	30
18	Synthesis, Crystal Structure, and Properties of the Ordered Double Perovskite $\text{Sr}_2\text{CoOsO}_6$ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 2421-2425.	0.6	24

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19	The illustrative use of thiosulfate in the formation of new three-dimensional hybrid structures. <i>CrystEngComm</i> , 2009, 11, 55-57.	1.3	22
20	Reentrant magnetism at the borderline between long-range antiferromagnetic order and spin-glass behavior in the $B$ -site disordered perovskite system $C_{1-x}B_x$ .	1.1	22
21	Charge Separated One-Dimensional Hybrid Cobalt/Nickel Phosphonate Frameworks: A Facile Approach to Design Bifunctional Electrocatalyst for Oxygen Evolution and Hydrogen Evolution Reactions. <i>Inorganic Chemistry</i> , 2021, 60, 15106-15111.	1.9	21
22	Novel amine templated three-dimensional zinc-organophosphonates with variable pore-openings. <i>CrystEngComm</i> , 2017, 19, 6425-6435.	1.3	20
23	Triggering Lewis Acidic Nature through the Variation of Coordination Environment of Cd-Centers in 2D-Coordination Polymers. <i>Inorganic Chemistry</i> , 2020, 59, 1284-1294.	1.9	20
24	Charge Density Analysis of a Pentaborate Ion in an Ammonium Borate: Toward the Understanding of Topological Features in Borate Minerals. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12818-12825.	1.1	19
25	Transition Metal Ions Regulated Structural and Catalytic Behaviors of Coordination Polymers. <i>Crystal Growth and Design</i> , 2020, 20, 5277-5288.	1.4	19
26	Design, synthesis, crystal structure, molecular docking studies of some diorganotin(IV) complexes derived from the piperonylic hydrazide Schiff base ligands as cytotoxic agents. <i>Journal of Molecular Structure</i> , 2021, 1232, 129992.	1.8	19
27	Rare Examples of Amine-Templated Organophosphonate Open-Framework Compounds: Combined Role of Metal and Amine for Structure Building. <i>Crystal Growth and Design</i> , 2017, 17, 5620-5624.	1.4	18
28	First Example of a Nonanuclear Silver Sulfate Hybrid Cluster: Green Approach for Synthesis of Lewis Acid Catalyst. <i>Crystal Growth and Design</i> , 2018, 18, 6411-6416.	1.4	18
29	ZnO-NP assisted synthesis of fluorescent $\hat{I}^2$ -carboline C-1 tethered benzimidazole/benzothiazole/benzoxazole derivatives and assessment of their photophysical properties. <i>New Journal of Chemistry</i> , 2019, 43, 18304-18315.	1.4	18
30	Role of aromatic vs. aliphatic amine for the variation of structural, electrical and catalytic behaviors in a series of silver phosphonate extended hybrid solids. <i>Dalton Transactions</i> , 2020, 49, 13618-13634.	1.6	17
31	Isatin as a 2-aminobenzaldehyde surrogate: transition metal-free efficient synthesis of 2-(2-aminophenyl)benzothiazole derivatives. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 4459-4469.	1.5	14
32	CuAAC Mediated Synthesis of $\hat{H}$ BT Linked Bioactive 1,2,3-Triazole Hybrids: Investigations through Fluorescence, DNA Binding, Molecular Docking, ADME Predictions and DFT Study. <i>ChemistrySelect</i> , 2021, 6, 685-694.	0.7	14
33	Effect of metal ion doping on the photocatalytic activity of aluminophosphates. <i>Journal of Chemical Sciences</i> , 2010, 122, 771-785.	0.7	12
34	Magnetic phase transitions and iron valence in the double perovskite $Sr_2FeOsO_6$ . <i>Hyperfine Interactions</i> , 2014, 226, 289-297.	0.2	12
35	Tuning of coordination behavior of thiosulfate ion by organic linkers in cadmium thiosulfate compounds. <i>Journal of Molecular Structure</i> , 2016, 1125, 696-704.	1.8	12
36	Colossal Dielectric Responses from the Wide Band Gap 2D-Semiconducting Amine Templated Hybrid Framework Materials. <i>Inorganic Chemistry</i> , 2020, 59, 9465-9470.	1.9	12

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37	Pyrazoline tethered 1,2,3-triazoles: Synthesis, antimicrobial evaluation and in silico studies. Journal of Molecular Structure, 2021, 1246, 131154.	1.8	12
38	La(OTf) <sub>3</sub> -catalysed one-pot synthesis of pyrazole tethered imidazo[1,2-a]azine derivatives and evaluation of their light emitting properties. New Journal of Chemistry, 2020, 44, 684-694.	1.4	11
39	Tail-approach based design and synthesis of Arylthiazolylhydrazono-1,2,3-triazoles incorporating sulfanilamide and metanilamide as human carbonic anhydrase I, II, IV and IX inhibitors. Bioorganic Chemistry, 2022, 123, 105764.	2.0	11
40	Organoamine Templated Multifunctional Hybrid Metal Phosphonate Frameworks: Promising Candidates for Tailoring Electrochemical Behaviors and Size-Selective Efficient Heterogeneous Lewis Acid Catalysis. Inorganic Chemistry, 2022, 61, 9580-9594.	1.9	11
41	Vanadate Encapsulated Polyoxoborate Framework with [V <sub>12</sub> B <sub>18</sub> ] Clusters: An Efficient Bifunctional Electrocatalyst for Oxygen and Hydrogen Evolution Reactions. Crystal Growth and Design, 2022, 22, 4666-4672.	1.4	11
42	Synthesis, structure and topological analysis of glycine templated highly stable cadmium sulfate framework: A New Lewis Acid catalyst. Journal of Molecular Structure, 2018, 1157, 672-678.	1.8	10
43	Detailed characterization of dioxouranium(vi) complexes with a symmetrical tetradentate N2O2-benzil bis(isonicotinoyl hydrazone) ligand. Dalton Transactions, 2020, 49, 10603-10612.	1.6	9
44	Evolution of transition metal charge states in correlation with the structural and magnetic properties in disordered double perovskites Ca <sub>2</sub> La <sub>2</sub> FeRuO <sub>6</sub> (0.5% <i>x</i> ). Physical Chemistry Chemical Physics, 2021, 23, 21769-21783.	1.3	9
45	Template-directed hierarchical copper(II)-organophosphonate compounds: Syntheses, crystal structures, magnetic and luminescence properties. Journal of Molecular Structure, 2021, 1224, 129027.	1.8	8
46	Solvent and additive-free efficient aerobic oxidation of alcohols by a perovskite oxide-based heterogeneous catalyst. Reaction Chemistry and Engineering, 2020, 5, 1264-1271.	1.9	8
47	Syntheses, crystal structures, topology and dual electronic behaviors of a family of amine-templated three-dimensional zinc-organophosphonate hybrid solids. Journal of Molecular Structure, 2022, 1263, 133087.	1.8	7
48	Investigation of multiferroic behaviour at room temperature in Bi-induced orthoferrite: combined experimental and first principles studies. Bulletin of Materials Science, 2020, 43, 1.	0.8	6
49	Design, synthesis and investigations of a series of energetic salts through the variation of amines and concentration of picrate anions. CrystEngComm, 2020, 22, 4842-4852.	1.3	6
50	A transition metal-free approach towards the regioselective synthesis of Î <sup>2</sup> -carboline tethered pyrroles and 2,3-dihydro-1 <i>H</i> -pyrroles. New Journal of Chemistry, 2020, 44, 12370-12383.	1.4	6
51	KI-assisted Sulfur Activation/Insertion/Denitration Strategy towards Dual C-S Bond Formation for One-pot Synthesis of Î <sup>2</sup> -Carboline-tethered 2-Acylbenzothiophenes. Asian Journal of Organic Chemistry, 2022, 11, .	1.3	6
52	Comparative Studies on Optical and Electronic Behavior of Lanthanide-based Coordination Polymers: Synthesis, Structure, Absorption-Emission and Magnetic Properties. Journal of Chemical Sciences, 2018, 130, 1.	0.7	5
53	Modeling molecular interactions of propounded pyrazole based drug candidates against bacterial DNA gyrase: Validation by syntheses and biological studies. Journal of Molecular Structure, 2019, 1195, 435-450.	1.8	5
54	Antiferromagnetically coupled double perovskite as an efficient and robust catalyst for visible light driven water splitting at neutral pH. Physical Chemistry Chemical Physics, 2022, 24, 5083-5093.	1.3	5

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55	Multiferroic behaviour in B-site Cr-doped hexagonal YInO <sub>3</sub> perovskites: Synthesis, structure and properties. <i>Journal of Molecular Structure</i> , 2019, 1185, 432-439.	1.8	4
56	Assembly of a coordination polymer with sulphate-capped pentamolybdate units and copper: synthesis, structure, magnetic and catalytic studies. <i>Dalton Transactions</i> , 2022, 51, 7255-7267.	1.6	3
57	Synthesis, Structure and Topology of Copper(I) Tetrazolate Framework: Facile Approach to Design Multiple Dye Adsorbent with Carbon Composites. <i>ChemistrySelect</i> , 2022, 7, .	0.7	3
58	Synthesis and crystal structure of a new polymorph of potassium europium(III) bis(sulfate) monohydrate, K <sub>2</sub> Eu(SO <sub>4</sub> ) <sub>2</sub> ·H <sub>2</sub> O. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 242-245.	0.2	2
59	Getting insights of molecular interactions for potential drug candidates against <i>S. aureus</i> : Pharmacophore modeling, molecular screening and docking studies. <i>Journal of Molecular Graphics and Modelling</i> , 2020, 94, 107487.	1.3	2
60	Structural Enhancement under X-ray Irradiation in an Octanuclear Uranium-Based 3D Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2021, 21, 5503-5507.	1.4	2
61	Crystal structure of bis(piperazin-1-ium- <i>N</i> <sup>4+</sup> )bis(thiosulfato- <i>S</i> )zinc(II) dihydrate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 176-179.	0.2	1