

# Swastik Mondal

## List of Publications by Year in descending order

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67  
papers

902  
citations

623188

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500791

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Investigation of phases in Al <sub>23</sub> Co <sub>15</sub> Cr <sub>23</sub> Cu <sub>8</sub> Fe <sub>15</sub> Ni <sub>16</sub> and Al <sub>8</sub> Co <sub>17</sub> Cr <sub>17</sub> Cu <sub>8</sub> Fe <sub>17</sub> Ni <sub>33</sub> high entropy alloys and comparison with equilibrium phases predicted by Thermo-Calc. <i>Journal of Alloys and Compounds</i> , 2013, 552, 430-436.	2.8	112
2	A New Half-Condensed Schiff Base Compound: Highly Selective and Sensitive pH-Responsive Fluorescent Sensor. <i>Organic Letters</i> , 2011, 13, 4510-4513.	2.4	110
3	A Reusable Polymer-Anchored Palladium(II) Schiff Base Complex Catalyst for the Suzuki Cross-Coupling, Heck and Cyanation Reactions. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2010, 20, 264-277.	1.9	60
4	Synthesis, X-ray structure and magnetic properties of the azido adducts of quadridentate Schiff base manganese(III) complexes. <i>Polyhedron</i> , 2004, 23, 1811-1817.	1.0	51
5	Electron-Deficient and Polycenter Bonds in the High-Pressure Phase of Boron. <i>Physical Review Letters</i> , 2011, 106, 215502.	2.9	46
6	Supramolecular Architecture in an Oxovanadium(V)-Schiff Base Complex: Synthesis, Ab initio Structure Determination from X-ray Powder Diffraction, DNA Binding and Cleavage Activity. <i>Crystal Growth and Design</i> , 2007, 7, 1716-1721.	1.4	41
7	Disorder and defects are not intrinsic to boron carbide. <i>Scientific Reports</i> , 2016, 6, 19330.	1.6	34
8	Experimental dynamic electron densities of multipole models at different temperatures. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, 568-581.	0.3	33
9	High pressure synthesis of single crystals of B <sub>12</sub> . <i>Journal of Crystal Growth</i> , 2011, 321, 162-166.	1.1	27
10	High pressure synthesis of single crystals of B <sub>12</sub> -boron. <i>Journal of Crystal Growth</i> , 2011, 321, 162-166.	0.7	26
11	A Novel Three-Dimensional Network Containing Pr(III) Ions and Tartrate: Synthesis, Spectroscopic, Thermal, Ab Initio X-ray Powder Structure Analyses, and Photoluminescence Properties. <i>Crystal Growth and Design</i> , 2006, 6, 940-945.	1.4	22
12	Microstructural characterization of interpenetrating light weight metal matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 518, 118-123.	2.6	22
13	Hierarchical Ti <sub>1-x</sub> Zr <sub>x</sub> O <sub>2-y</sub> nanocrystals with exposed high energy facets showing co-catalyst free solar light driven water splitting and improved light to energy conversion efficiency. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17341-17351.	5.2	19
14	Polystyrene-Anchored Palladium(II) Schiff Base Complex: A Reusable Catalyst for Phosphine-Free and Copper-Free Sonogashira Cross-Coupling Reaction in Aqueous Medium. <i>Synthetic Communications</i> , 2011, 41, 2583-2593.	1.1	15
15	Synthesis, crystal structure and helical ladder-like assembly of a novel terephthalato-bridged binuclear Cu(II) complex: First report on terephthalate bridging under tetraaza macrocyclic environment. <i>Inorganic Chemistry Communication</i> , 2006, 9, 167-170.	1.8	13
16	A novel cation induced polymeric chain in Na <sub>8</sub> [Cu(gly) <sub>2</sub> ] <sub>2</sub> (H <sub>2</sub> W <sub>12</sub> O <sub>42</sub> )·4H <sub>2</sub> O: hydrothermal synthesis, spectroscopic characterization and X-ray structure analysis. <i>Transition Metal Chemistry</i> , 2008, 33, 347-351.	0.7	13
17	Dopant-mediated surface charge imbalance for enhancing the performance of metal oxide chemiresistive gas sensors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1968-1976.	2.7	13
18	Structural study of three o-hydroxyacetophenone derivatives using X-ray powder diffraction: interplay of weak intermolecular interactions. <i>CrystEngComm</i> , 2012, 14, 837-846.	1.3	12

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19	Ammonia Sensing by Sn <sub>1-x</sub> V <sub>x</sub> O <sub>2</sub> Mesoporous Nanoparticles. ACS Applied Nano Materials, 2020, 3, 7572-7579.	2.4	12
20	Roles of structure and electron mobilization in enhanced ethanol sensing by Al doped SnO <sub>2</sub> nanoparticles. Materials Advances, 2021, 2, 3760-3769.	2.6	12
21	Dopant-induced cationic bivalency in hierarchical antimony-doped tin oxide nano-particles for room-temperature SO <sub>2</sub> sensing. Journal of Materials Chemistry A, 2021, 9, 21824-21834.	5.2	12
22	Chemiresistive NH <sub>3</sub> detection at sub-zero temperatures by polypyrrole- loaded Sn <sub>1-x</sub> Sb <sub>x</sub> O <sub>2</sub> nanocubes. Materials Horizons, 2022, 9, 1750-1762.	6.4	12
23	Resonance-stabilized partial proton transfer in hydrogen bonds of incommensurate phenazine-chloranilic acid. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 228-234.	0.5	11
24	Role of Steric Hindrance in the Crystal Packing of Zr <sup>2+</sup> = 4 Superstructure of Trimethyltin Hydroxide. Crystal Growth and Design, 2018, 18, 1394-1400.	1.4	11
25	Electron densities by the maximum entropy method (MEM) for various types of prior densities: a case study on three amino acids and a tripeptide. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2013, 69, 203-213.	0.5	10
26	The Zr <sup>2+</sup> = 12 superstructure of β-cobalt(III) sepulchrate trinitrate governed by H...O hydrogen bonds. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 372-380.	0.5	10
27	Polymeric Colorants: Statistical Copolymers of Indigo Building Blocks with Defined Structures. Helvetica Chimica Acta, 2009, 92, 2675-2697.	1.0	9
28	Ferroelectricity of Phenazine-Chloranilic Acid at T = 100 K. Journal of Chemical Crystallography, 2014, 44, 387-393.	0.5	9
29	Studies on the Eriophyid mites (Acarina: Eriophyoidea) of India-II : Descriptions of three new species from West Bengal. Oriental Insects, 1979, 13, 47-54.	0.1	8
30	Poly aniline (PANI) loaded hierarchical Ti <sub>1-x</sub> Sb <sub>x</sub> O <sub>2</sub> rutile phase nanocubes for selective room temperature detection of benzene vapor. Sensors and Actuators B: Chemical, 2021, 347, 130622.	4.0	8
31	Hydrothermal synthesis and structural characterization of novel Keggin unit-supported Cu(II)- and Mn(II)-bipyridine complexes from a tri-lacunary precursor. Transition Metal Chemistry, 2009, 34, 1-5.	0.7	7
32	Modulated anharmonic ADPs are intrinsic to aperiodic crystals: a case study on incommensurate Rb <sub>2</sub> ZnCl <sub>4</sub> . Acta Crystallographica Section B: Structural Science, 2011, 67, 205-217.	1.8	7
33	pH-regulated hydrothermal synthesis and characterization of Sb <sub>4</sub> O <sub>5</sub> X <sub>2</sub> (X = Br/Cl) and its use for the dye degradation of methyl orange both with and without light illumination. RSC Advances, 2022, 12, 8374-8384.	1.7	7
34	Unusual formation of 2-carboline dimers under Bischler-Napieralski reaction conditions: an old reaction with a new direction. Tetrahedron Letters, 2004, 45, 6489-6492.	0.7	6
35	Cyanometallate incorporated supramolecular networks based on a nitroalkyl-substituted Cu(II) precursor: Synthesis, crystal structure, thermal and electrochemical studies. Polyhedron, 2008, 27, 3112-3122.	1.0	6
36	Self-Intercalation and Vacancy-Ordering in 6R-Cu <sub>x</sub> Ta <sub>1+y</sub> S <sub>2</sub> (x = 0.23, y = 0, 0.06). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 2625-2631.	0.6	6

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37	Charge density distribution of 3-(1-aminoethylidene)-2-methoxy-2-oxo-2,3-dihydro-2H-benzo[1,2]oxaphosphinin-4-one. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2013, 69, 621-628.	0.5	6
38	Charge Transfer and Fractional Bonds in Stoichiometric Boron Carbide. <i>Chemistry of Materials</i> , 2017, 29, 6191-6194.	3.2	6
39	2,2- $\text{Bis}(\text{methylene})\text{biphenylidene}$ -bridged bis(3-indenyl) dichloride complexes of Ti, Zr and Hf as catalyst precursors for ethylene polymerization. <i>Polyhedron</i> , 2018, 144, 176-186.	1.0	6
40	1,2-Bis(dimethylsilyl)phenylidene bridged zirconocene and hafnocene dichloride complexes as precatalysts for ethylene polymerization. <i>Journal of Organometallic Chemistry</i> , 2018, 854, 76-86.	0.8	6
41	Synthesis, Superstructure, and Vacancy Ordering in $2\text{H}\text{-Cu}_x\text{Ta}_{1+y}\text{Se}_2$ ( $x, y = 0.52, 0$ and $0.16$ ), <i>Tj ETQq1 1 0.784314</i>	0.6	4
42	Influence of pressure on the transport, magnetic, and structural properties of superconducting $\text{Cr}_0.0009\text{NbSe}_2$ single crystal. <i>RSC Advances</i> , 2020, 10, 13112-13125.	1.7	4
43	Surface-analyte interaction as a function of topological polar surface area of analytes in metal (Cd), <i>Tj ETQq1 1 0.784314</i> <i>rgBT /Overlock</i> 2022, 341, 113610.	2.0	4
44	Studies on the eriophyid mites (Acarina : Eriophyoidea) of India. VI. new species from West Bengal. <i>Oriental Insects</i> , 1980, 14, 453-459.	0.1	3
45	New and little known eriophyid mites (Acarina : Eriophyoidea) from India. <i>Oriental Insects</i> , 1981, 15, 139-144.	0.1	3
46	Studies on the eriophyid mites (Acarina : Eriophyoidea) of India. XV. New genus, species and new records from West Bengal. <i>Oriental Insects</i> , 1982, 16, 519-525.	0.1	3
47	Studies on the eriophyid mites (Acarina: eriophyoidea) of India XIII. three new and some little known species from West Bengal. <i>Oriental Insects</i> , 1982, 16, 305-312.	0.1	3
48	Synthesis and characterization of two novel isostructural polymeric 1D mono-halo-bridged octahedral copper (II) chains with a diaza-diamine ligand. <i>Inorganica Chimica Acta</i> , 2005, 358, 3471-3477.	1.2	3
49	Reversible water inclusion in a porous magnetic material synthesized from copper(II) incorporated metal-organic framework showing alternate ferro- and antiferromagnetic interactions. <i>Inorganic Chemistry Communication</i> , 2007, 10, 527-530.	1.8	3
50	Two highly unsymmetrical tetradentate (N3O) Schiff base copper(II) complexes: Template synthesis, structural characterization, magnetic and computational studies. <i>Polyhedron</i> , 2009, 28, 3659-3666.	1.0	3
51	Superspace description of trimethyltin hydroxide at $T = 100$ K. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2016, 231, 427-434.	0.4	3
52	An efficient and reusable polymer-supported palladium catalyst for the Suzuki cross-coupling reactions of aryl halides. <i>Journal of Chemical Research</i> , 2009, 2009, 756-760.	0.6	2
53	Kinetics and mechanism of interaction of some bioactive ligands with <i>cis</i> -diaqua( <i>cis</i> -1,2-diaminocyclohexane)platinum(II) in aqueous medium. <i>Journal of Chemical Sciences</i> , 2013, 125, 1133-1143.	0.7	2
54	A Terminally Capped Synthetic, Acyclic Tripeptide Forms Dimer in the Solid, Liquid and Gaseous States. <i>ChemistrySelect</i> , 2018, 3, 2523-2527.	0.7	2

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55	Synthesis, crystal structure and molecular conformation of (±)-1-oxoferruginol and (±)-shonanol. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004, 219, 659-663.	0.4	1
56	Boranes: The Boron Subhydride B <sub>10</sub> 4.67H <sub>3</sub> with a Distorted $\hat{I}^2$ -Boron Crystal Structure. <i>Inorganic Chemistry</i> , 2020, 59, 13295-13300.	1.9	1
57	CHAPTER 4. Experimental Electron Density Studies of Inorganic Solids. <i>Monographs in Supramolecular Chemistry</i> , 2018, , 130-158.	0.2	1
58	A new genus and two new species of Rhyncapifytoptidae (Acarina : Eriophyoidea) from West Bengal India. <i>Oriental Insects</i> , 1981, 15, 407-411.	0.1	0
59	(1SR,2RS,5RS,6SR,8RS)-7,7-Dimethyltricyclo[6.2.1.0 <sup>1,6</sup> ]undecane-2,5,6-triol: a supramolecular framework built from Oâ€”H...O hydrogen bonds. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2002, 58, o474-o476.	0.4	0
60	Dimethyl 6-methoxy-4a $\hat{I}^2$ -methyl-9-oxo-1,2,3,4,4a,9,10,10a $\hat{I}^2$ -octahydrophenanthrene-1,1-dicarboxylate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003, 59, o132-o134.	0.4	0
61	Synthesis, spectroscopic and crystallographic studies of (1RS,2SR)-1-(2-carboxy-4-methyl-5-methoxyphenyl)-1,2-dimethyl-cyclopentane-2-carboxylic acid: supramolecular framework built from Oâ€”Hâ€”O and Câ€”Hâ€”O hydrogen bonds. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004, 219, 456-460.	0.4	0
62	A qualitative and quantitative analysis of dynamic charge densities. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C509-C510.	0.3	0
63	Ab-initiostructure determination of a metal complex from laboratory X-ray powder data. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2005, 61, c159-c159.	0.3	0
64	Chemical experimental charge-density study of $\hat{I}^3$ -B28. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, s283-s283.	0.3	0
65	Electron-deficient and polycenter bonds in $\hat{I}^3$ -B28. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C86-C86.	0.3	0
66	New insights into the bonding mechanism of boron carbide. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C382-C382.	0.0	0
67	Electron densities by the maximum entropy method (MEM) for various types of prior densities: a case study on three amino acids and a tripeptide. <i>Acta Crystallographica Section B: Structural Science</i> , 2013, 69, 203-213.	1.8	0