

Swastik Mondal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8441815/publications.pdf>

Version: 2024-02-01

67
papers

902
citations

623188

14
h-index

500791

28
g-index

67
all docs

67
docs citations

67
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	pH-regulated hydrothermal synthesis and characterization of $\text{Sb}_4\text{O}_5\text{X}_2$ (X = Br/Cl) and its use for the dye degradation of methyl orange both with and without light illumination. <i>RSC Advances</i> , 2022, 12, 8374-8384.	1.7	7
3	Chemiresistive NH_3 detection at sub-zero temperatures by polypyrrole- loaded $\text{Sn}^{1-x}\text{Sb}_x\text{O}_2$ nanocubes. <i>Materials Horizons</i> , 2022, 9, 1750-1762.	6.4	12
4	Surface-analyte interaction as a function of topological polar surface area of analytes in metal (Cd.) $\text{Tj ETQqO 0 0 rgBT /Overlock 10 Tf 5}$ 2022, 341, 113610.	2.0	4
5	Roles of structure and electron mobilization in enhanced ethanol sensing by Al doped SnO_2 nanoparticles. <i>Materials Advances</i> , 2021, 2, 3760-3769.	2.6	12
6	Dopant-induced cationic bivalency in hierarchical antimony-doped tin oxide nano-particles for room-temperature SO_2 sensing. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21824-21834.	5.2	12
7	Poly aniline (PANI) loaded hierarchical $\text{Ti}^{1-x}\text{Sb}_x\text{O}_2$ rutile phase nanocubes for selective room temperature detection of benzene vapor. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130622.	4.0	8
8	Ammonia Sensing by $\text{Sn}^{1-x}\text{V}_x\text{O}_2$ Mesoporous Nanoparticles. <i>ACS Applied Nano Materials</i> , 2020, 3, 7572-7579.	2.4	12
9	Boranes: The Boron Subhydride $\text{B}_{10}\text{H}_{14}$ with a Distorted I^2 -Boron Crystal Structure. <i>Inorganic Chemistry</i> , 2020, 59, 13295-13300.	1.9	1
10	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
11	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
12	Zr^{2+} -Bis(methylene)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
13	Role of Steric Hindrance in the Crystal Packing of $\text{Zr}^{2+} = 4$ Superstructure of Trimethyltin Hydroxide. <i>Crystal Growth and Design</i> , 2018, 18, 1394-1400.	1.4	11
14	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
15	CHAPTER 4. Experimental Electron Density Studies of Inorganic Solids. <i>Monographs in Supramolecular Chemistry</i> , 2018, , 130-158.	0.2	1
16	Hierarchical $\text{Ti}^{1-x}\text{Zr}_x\text{O}_2$ 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
17	Charge Transfer and Fractional Bonds in Stoichiometric Boron Carbide. <i>Chemistry of Materials</i> , 2017, 29, 6191-6194.	3.2	6
18	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

#	ARTICLE	IF	CITATIONS
19	Superspace description of trimethyltin hydroxide at $T = 100$ K. Zeitschrift Fur Kristallographie - Crystalline Materials, 2016, 231, 427-434.	0.4	3
20	Disorder and defects are not intrinsic to boron carbide. Scientific Reports, 2016, 6, 19330.	1.6	34
21	The $Z = 12$ 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
22	Synthesis, Superstructure, and Vacancy Ordering in $2\text{HfCu}_x\text{Ta}_{1+x}\text{Se}_2$ ($x = 0.52, 0$ and 0.16). <i>Tj</i>	0.6	0
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	Ferroelectricity of Phenazine-Chloranilic Acid at $T = 100$ K. Journal of Chemical Crystallography, 2014, 44, 387-393.	0.5	9
25	Experimental evidence of orbital order in LaMnO_3 . $\text{http://www.w3.org/1998/Math/MathML}$ $\text{display="inline"} < \text{mi} > \hat{\pm} < / \text{mi} > < / \text{math} > - \text{B} < / \text{math} >$	1.1	27
26	Kinetics and mechanism of interaction of some bioactive ligands with cis-diaqua(cis-1,2-diaminocyclohexane)platinum(II) in aqueous medium. Journal of Chemical Sciences, 2013, 125, 1133-1143.	0.7	2
27	Investigation of phases in $\text{Al}_{23}\text{Co}_{15}\text{Cr}_{23}\text{Cu}_8\text{Fe}_{15}\text{Ni}_{16}$ and $\text{Al}_{8}\text{Co}_{17}\text{Cr}_{17}\text{Cu}_8\text{Fe}_{17}\text{Ni}_{33}$ high entropy alloys and comparison with equilibrium phases predicted by Thermo-Calc. Journal of Alloys and Compounds, 2013, 552, 430-436.	2.8	112
28	Charge density distribution of 3-(1-aminoethylidene)-2-methoxy-2-oxo-2,3-dihydro-2H-benzo[1,2]oxaphosphinin-4-one. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2013, 69, 621-628.	0.5	6
29	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
30	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, 2013, 69, 203-213.	1.8	0
31	Experimental dynamic electron densities of multipole models at different temperatures. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, 568-581.	0.3	33
32	Self-Intercalation and Vacancy-Ordering in $6\text{R-Cu}_x\text{Ta}_{1+y}\text{S}_2$ ($x = 0.23, y = 0, 0.06$). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 2625-2631.	0.6	6
33	Structural study of three o-hydroxyacetophenone derivatives using X-ray powder diffraction: interplay of weak intermolecular interactions. CrystEngComm, 2012, 14, 837-846.	1.3	12
34	A New Half-Condensed Schiff Base Compound: Highly Selective and Sensitive pH-Responsive Fluorescent Sensor. Organic Letters, 2011, 13, 4510-4513.	2.4	110
35	Polystyrene-Anchored Palladium(II) Schiff Base Complex: A Reusable Catalyst for Phosphine-Free and Copper-Free Sonogashira Cross-Coupling Reaction in Aqueous Medium. Synthetic Communications, 2011, 41, 2583-2593.	1.1	15
36	Electron-Deficient and Polycenter Bonds in the High-Pressure B^3 Phase of Boron. $\text{http://www.w3.org/1998/Math/MathML}$ $\text{display="inline"} < \text{mi} > \hat{3} < / \text{mi} > < \text{mtext} >$	2.9	46

#	ARTICLE	IF	CITATIONS
37	A qualitative and quantitative analysis of dynamic charge densities. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C509-C510.	0.3	0
38	Modulated anharmonic ADPs are intrinsic to aperiodic crystals: a case study on incommensurate Rb_2ZnCl_4 . Acta Crystallographica Section B: Structural Science, 2011, 67, 205-217.	1.8	7
39	High pressure synthesis of single crystals of $\hat{1}\pm$ -boron. Journal of Crystal Growth, 2011, 321, 162-166.	0.7	26
40	Electron-deficient and polycenter bonds in $\hat{1}^3$ -B28. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C86-C86.	0.3	0
41	A Reusable Polymer-Anchored Palladium(II) Schiff Base Complex Catalyst for the Suzuki Cross-Coupling, Heck and Cyanation Reactions. Journal of Inorganic and Organometallic Polymers and Materials, 2010, 20, 264-277.	1.9	60
42	Chemical experimental charge-density study of $\hat{1}^3$ -B28. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s283-s283.	0.3	0
43	An efficient and reusable polymer-supported palladium catalyst for the Suzuki cross-coupling reactions of aryl halides. Journal of Chemical Research, 2009, 2009, 756-760.	0.6	2
44	Polymeric Colorants: Statistical Copolymers of Indigo Building Blocks with Defined Structures. Helvetica Chimica Acta, 2009, 92, 2675-2697.	1.0	9
45	Hydrothermal synthesis and structural characterization of novel $\hat{1}\pm$ -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
46	Microstructural characterization of interpenetrating light weight metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 518, 118-123.	2.6	22
47	Two highly unsymmetrical tetradentate (N3O) Schiff base copper(II) complexes: Template synthesis, structural characterization, magnetic and computational studies. Polyhedron, 2009, 28, 3659-3666.	1.0	3
48	A novel cation induced polymeric chain in $\text{Na}_8[\{\text{Cu}(\text{gly})_2\}_2\{\text{H}_2(\text{H}_2\text{W}_{12}\text{O}_{42})\}]\cdot 24\text{H}_2\text{O}$: hydrothermal synthesis, spectroscopic characterization and X-ray structure analysis. Transition Metal Chemistry, 2008, 33, 347-351.	0.7	13
49	Cyanometallate incorporated supramolecular networks based on a nitroalkyl-substituted $\text{Cu}(\text{II})$ precursor: Synthesis, crystal structure, thermal and electrochemical studies. Polyhedron, 2008, 27, 3112-3122.	1.0	6
50	Supramolecular Architecture in an Oxovanadium(V)-Schiff Base Complex: Synthesis, Ab initio Structure Determination from X-ray Powder Diffraction, DNA Binding and Cleavage Activity. Crystal Growth and Design, 2007, 7, 1716-1721.	1.4	41
51	Reversible water inclusion in a porous magnetic material synthesized from copper(II) incorporated metal-organic framework showing alternate ferro- and antiferromagnetic interactions. Inorganic Chemistry Communication, 2007, 10, 527-530.	1.8	3
52	A Novel Three-Dimensional Network Containing Pr(III) Ions and Tartrate: Synthesis, Spectroscopic, Thermal, Ab Initio X-ray Powder Structure Analyses, and Photoluminescence Properties. Crystal Growth and Design, 2006, 6, 940-945.	1.4	22
53	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. Inorganic Chemistry Communication, 2006, 9, 167-170.	1.8	13
54	Synthesis and characterization of two novel isostructural polymeric 1D mono-halo-bridged octahedral copper (II) chains with a diaza-diamine ligand. Inorganica Chimica Acta, 2005, 358, 3471-3477.	1.2	3

#	ARTICLE	IF	CITATIONS
55	Ab-initiostructure determination of a metal complex from laboratory X-ray powder data. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, c159-c159.	0.3	0
56	Unusual formation of β^2 -carboline dimers under Bischler-Napieralski reaction conditions: an old reaction with a new direction. Tetrahedron Letters, 2004, 45, 6489-6492.	0.7	6
57	Synthesis, X-ray structure and magnetic properties of the azido adducts of quadridentate Schiff base manganese(III) complexes. Polyhedron, 2004, 23, 1811-1817.	1.0	51
58	Synthesis, spectroscopic and crystallographic studies of (1R,2SR)-1-(2-carboxy-4-methyl-5-methoxyphenyl)-1,2-dimethyl-cyclopentane-2-carboxylic acid: supramolecular framework built from O-H...O and C-H...O hydrogen bonds. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, 456-460.	0.4	0
59	Synthesis, crystal structure and molecular conformation of (Δ^{\pm})-1-oxoferruginol and (Δ^{\pm})-shonanol. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, 659-663.	0.4	1
60	Dimethyl 6-methoxy-4a β^2 -methyl-9-oxo-1,2,3,4,4a,9,10,10a β^2 -octahydrophenanthrene-1,1-dicarboxylate. Acta Crystallographica Section C: Crystal Structure Communications, 2003, 59, o132-o134.	0.4	0
61	(1SR,2RS,5RS,6SR,8RS)-7,7-Dimethyltricyclo[6.2.1.01,6]undecane-2,5,6-triol: a supramolecular framework built from O-H...O hydrogen bonds. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, o474-o476.	0.4	0
62	Studies on the eriophyid mites (Acarina : Eriophyoidea) of India. XV. New genus, species and new records from West Bengal. Oriental Insects, 1982, 16, 519-525.	0.1	3
63	Studies on the eriophyid mites (Acarina: eriophyoidea) of India XIII. three new and some little known species from West Bengal. Oriental Insects, 1982, 16, 305-312.	0.1	3
64	A new genus and two new species of Rhyncapifytoptidae (Acarina : Eriophyoidea) from West Bengal India. Oriental Insects, 1981, 15, 407-411.	0.1	0
65	New and little known eriophyid mites (Acarina : Eriophyoidea) from India. Oriental Insects, 1981, 15, 139-144.	0.1	3
66	Studies on the eriophyid mites (Acarina : Eriophyoidea) of India. VI. new species from West Rengal. Oriental Insects, 1980, 14, 453-459.	0.1	3
67	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