

Amit Adhikary

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,413
citations

361413

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Two Isostructural 3D Lanthanide Coordination Networks (Ln = Gd ³⁺ , Dy ³⁺) with Squashed Cuboid-Type Nanoscopic Cages Showing Significant Cryogenic Magnetic Refrigeration and Slow Magnetic Relaxation. <i>Inorganic Chemistry</i> , 2014, 53, 3926-3928.	4.0	108
2	Metal free sulfenylation and bis-sulfenylation of indoles: persulfate mediated synthesis. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 8036.	2.8	95
3	Designing Functional Metal-Organic Frameworks by Imparting a Hexanuclear Copper-Based Secondary Building Unit Specific Properties: Structural Correlation With Magnetic and Photocatalytic Activity. <i>Crystal Growth and Design</i> , 2014, 14, 6391-6398.	3.0	87
4	Zn-BTC MOF as an Adsorbent for Iodine Uptake and Organic Dye Degradation. <i>Crystal Growth and Design</i> , 2020, 20, 7833-7839.	3.0	85
5	Intramolecular Dehydrogenative Coupling of sp ² C-H and sp ³ C-H Bonds: An Expedient Route to 2-Oxindoles. <i>Organic Letters</i> , 2012, 14, 5864-5867.	4.6	76
6	Observation of a large magnetocaloric effect in a 2D Gd(III)-based coordination polymer. <i>Dalton Transactions</i> , 2013, 42, 13331.	3.3	74
7	Magnetic refrigeration and slow magnetic relaxation in tetranuclear lanthanide cages (Ln = Gd, Dy) with in situ ligand transformation. <i>New Journal of Chemistry</i> , 2014, 38, 3006-3014.	2.8	59
8	Lanthanide based coordination polymers chill, relax under magnetic field and also fluoresce. <i>Dalton Transactions</i> , 2013, 42, 9813.	3.3	55
9	Synthesis, crystal structure and study of magnetocaloric effect and single molecular magnetic behaviour in discrete lanthanide complexes. <i>Dalton Transactions</i> , 2014, 43, 9334-9343.	3.3	55
10	Synthesis and Characterization of Two Discrete Ln ₁₀ Nanoscopic Ladder-Type Cages: Magnetic Studies Reveal a Significant Cryogenic Magnetocaloric Effect and Slow Magnetic Relaxation. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1083-1090.	3.3	50
11	A 3D Iron(II)-Based MOF with Squashed Cuboctahedral Nanoscopic Cages Showing Spin-Canted Long-Range Antiferromagnetic Ordering. <i>Inorganic Chemistry</i> , 2013, 52, 12064-12069.	4.0	48
12	High Nuclearity (Octa-, Dodeca-, and Pentadecanuclear) Metal (M = Co ^{II} , Ni ^{II}) Phosphonate Cages: Synthesis, Structure, and Magnetic Behavior. <i>Inorganic Chemistry</i> , 2014, 53, 1606-1613.	4.0	48
13	A Family of Metal-Organic Frameworks Based on Carboxylates and a Neutral, Long, and Rigid Ligand: Their Structural Revelation, Magnetic, and Luminescent Property Study. <i>Crystal Growth and Design</i> , 2013, 13, 5442-5449.	3.0	47
14	Heteroatom-Guided, Palladium-Catalyzed Regioselective C-H Functionalization in the Synthesis of 3-Arylquinolines. <i>Organic Letters</i> , 2013, 15, 3310-3313.	4.6	41
15	Syntheses, Crystal Structures, and Magnetic Properties of Metal-Organic Hybrid Materials of Mn(II)/Co(II): Three-Fold Interpenetrated \pm -Polonium-like Network in One of Them. <i>Crystal Growth and Design</i> , 2014, 14, 3276-3285.	3.0	34
16	Naked Eye Cd ²⁺ Ion Detection and Reversible Iodine Uptake by a Three-Dimensional Pillared-Layered Zn-MOF. <i>Inorganic Chemistry</i> , 2020, 59, 17758-17765.	4.0	32
17	An Unprecedented Octadecanuclear Copper(II) Pyrazolate-Phosphonate Nanocage: Synthetic, Structural, Magnetic, and Mechanistic Study. <i>Inorganic Chemistry</i> , 2013, 52, 9717-9719.	4.0	31
18	A family of Fe ³⁺ -based double-stranded helicates showing a magnetocaloric effect, and Rhodamine B dye and DNA binding activities. <i>Dalton Transactions</i> , 2015, 44, 15531-15543.	3.3	27

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19	Synthesis, structure, magnetic and biological activity studies of bis-hydrazone derived Cu(II) and Co(II) coordination compounds. Dalton Transactions, 2016, 45, 11849-11863.	3.3	25
20	Serendipitous Assemblies of Two Large Phosphonate Cages: A Co ₁₅ Distorted Molecular Cube and a Co ₁₂ Butterfly Type Core Structure. Inorganic Chemistry, 2013, 52, 4127-4129.	4.0	24
21	Structure and synthesis of copper-based Schiff base and reduced Schiff base complexes: a combined experimental and theoretical investigation of biomimetic catalytic activity. Dalton Transactions, 2020, 49, 15461-15472.	3.3	23
22	Designing Multifunctional MOFs Using the Inorganic Motif [Cu ₃ ($\frac{1}{4}$ -OH)($\frac{1}{4}$ -Pyz)] as an SBU and Their Properties. Crystal Growth and Design, 2019, 19, 992-1004.	3.0	21
23	Unusual Atmospheric Water Trapping and Water Induced Reversible Restacking of 2D Gallium Sulfide Layers in NaGaS ₂ Formed by Supertetrahedral Building Unit. Chemistry of Materials, 2020, 32, 5589-5603.	6.7	21
24	Synthesis of Structurally Diverse Ferrimagnetically and Antiferromagnetically Coupled M ^{II} –Mn ^{II} (M = Cu, Ni) Heterometallic Schiff Base Compounds with a Dicyanamide Spacer and Study of Biomimetic Catalytic Activity. Crystal Growth and Design, 2019, 19, 7336-7348.	3.0	20
25	Structural Adaptation of Ni ₄ O ₄ Units To Form Cubane, Open Dicubane, Dimeric Cubane, and One-Dimensional Polymeric Cubanes: Magnetostructural Correlation of Ni ₄ Clusters. Crystal Growth and Design, 2015, 15, 4132-4141.	3.0	18
26	Multifunctional Properties of a 1D Helical Co(II) Coordination Polymer: Toward Single-Ion Magnetic Behavior and Efficient Dye Degradation. ACS Omega, 2018, 3, 15315-15324.	3.5	18
27	Exploration of catecholase-like activity of a series of magnetically coupled transition metal complexes of Mn, Co and Ni: new insights into the solution state behavior of Mn complexes. Dalton Transactions, 2019, 48, 14164-14177.	3.3	18
28	Synthesis of Mn ₃ O ₄ nanozymes from structurally characterized phenoxazinone synthase models based on manganese(III) Schiff base complexes. Dalton Transactions, 2020, 49, 5999-6011.	3.3	17
29	Magnetically Frustrated Quaternary Chalcogenides with Interpenetrating Diamond Lattices. Inorganic Chemistry, 2017, 56, 7650-7656.	4.0	16
30	Synthesis, crystal structure, magnetic study and magneto-structural correlation of three Cu(II) complexes formed via pyridine bis(hydrazone) based ligand. RSC Advances, 2014, 4, 12408.	3.6	13
31	Mapping of Solvent-Mediated Molecular Self-Assembly of Iron(III) Discrete Compounds: Exploring Their Magnetic Behavior and Phosphatase-Like Activity. Crystal Growth and Design, 2020, 20, 1254-1265.	3.0	13
32	Lanthanide clusters of phenanthroline containing a pyridine–pyrazole based ligand: magnetism and cell imaging. Dalton Transactions, 2021, 50, 3593-3609.	3.3	13
33	Formation of a Magnetically Coupled Neutral [4Å–4] Square Grid from a 2,6-Pyridinedicarbaldehyde Bis(hydrazone) Ligand. European Journal of Inorganic Chemistry, 2014, 2014, 963-967.	2.0	12
34	A free-standing, self-healing multi-stimuli responsive gel showing cryogenic magnetic cooling. Dalton Transactions, 2020, 49, 13487-13495.	3.3	12
35	Ternary alkali ion thiogallates, A ₅ GaS ₄ (A = Li and Na), with isolated tetrahedral building units and their ionic conductivities. Dalton Transactions, 2021, 50, 7372-7379.	3.3	9
36	Metallic Ternary Telluride with Sphalerite Superstructure. Inorganic Chemistry, 2016, 55, 2114-2122.	4.0	8

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37	Influence of Semirigidity and Diverse Binding Modes of an Asymmetric Pyridine-pyrazole Based Bis-Chelating Ligand in Controlling Molecular Architectures and Their Properties. <i>Crystal Growth and Design</i> , 2020, 20, 5698-5708.	3.0	8
38	High Sodium-Ion Conductivity in Interlocked Quaternary Chalcogenides Built with Supertetrahedral Building Units. <i>ACS Applied Energy Materials</i> , 2021, 4, 7942-7951.	5.1	8
39	Synergistic Experimental and Theoretical Studies of Luminescent $\text{Ln}_{2}\text{Zn}_{6}$ Clusters. <i>Inorganic Chemistry</i> , 2022, 61, 2141-2153.	4.0	8
40	A Nd_{6} molecular butterfly: a unique all-in-one material for SMM, MCE and maiden photosensitized opto-electronic device fabrication. <i>Dalton Transactions</i> , 2022, 51, 1617-1633.	3.3	7
41	Ln_{8} ($\text{Ln} = \text{Gd, Ho, Er, Yb}$) Butterfly Core Exhibiting Magnetocaloric Effect and Field-Induced SMM Behavior for Er Analogue. <i>ChemistrySelect</i> , 2017, 2, 11341-11345.	1.5	6
42	Designing ferromagnetism in Cu(II) complexes using an elusive near-orthogonal bridging mode of the pyrazole ring. <i>Polyhedron</i> , 2019, 160, 46-52.	2.2	6
43	Fine tuning of coordination environments by anions on a series of Cu(II) dihydrazide complexes: Syntheses, structures, magnetic properties and solution phase anion exchange. <i>Polyhedron</i> , 2019, 168, 37-47.	2.2	5
44	Temperature-Induced Single-Crystal-to-Single-Crystal Transformations with Consequential Changes in the Magnetic Properties of Fe(III) Complexes. <i>ACS Omega</i> , 2019, 4, 8731-8738.	3.5	3
45	Crystal structure of a chloride-bridged copper(II) dimer: piperazine-1,4-dium		