

# Sandeep Kumar Gupta

## List of Publications by Year in descending order

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28  
papers

1,152  
citations

567144

15  
h-index

501076

28  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1238  
citing authors

#	ARTICLE	IF	CITATIONS
1	An air-stable Dy( <sup>iii</sup> ) single-ion magnet with high anisotropy barrier and blocking temperature. <i>Chemical Science</i> , 2016, 7, 5181-5191.	3.7	477
2	Enriching lanthanide single-ion magnetism through symmetry and axiality. <i>Chemical Communications</i> , 2018, 54, 3685-3696.	2.2	99
3	An unprecedented zero field neodymium( <sup>iii</sup> ) single-ion magnet based on a phosphonic diamide. <i>Chemical Communications</i> , 2016, 52, 7168-7171.	2.2	80
4	Discrete {Gd <sup>III</sup> } <sub>4</sub> M} (M = Gd <sup>III</sup> or Co <sup>II</sup> ) pentanuclear complexes: a new class of metal-organophosphate molecular coolers. <i>Dalton Transactions</i> , 2015, 44, 5961-5965.	1.6	49
5	Pentanuclear Lanthanide Mono-organophosphates: Synthesis, Structure, and Magnetism. <i>Inorganic Chemistry</i> , 2017, 56, 3946-3960.	1.9	41
6	High-Pressure Crystallographic and Magnetic Studies of Pseudo-D <sub>5h</sub> Symmetric Dy(III) and Ho(III) Single-Molecule Magnets. <i>Inorganic Chemistry</i> , 2020, 59, 717-729.	1.9	38
7	Discrete and polymeric cobalt organophosphates: isolation of a 3-D cobalt phosphate framework exhibiting selective CO <sub>2</sub> capture. <i>Dalton Transactions</i> , 2015, 44, 5587-5601.	1.6	32
8	Bulky Isopropyl Group Loaded Tetraaryl Pyrene Based Azo-Linked Covalent Organic Polymer for Nitroaromatics Sensing and CO <sub>2</sub> Adsorption. <i>ACS Omega</i> , 2017, 2, 3572-3582.	1.6	31
9	Is a strong axial crystal-field the only essential condition for a large magnetic anisotropy barrier? The case of non-Kramers Ho( <sup>iii</sup> ) versus Tb( <sup>iii</sup> ). <i>Dalton Transactions</i> , 2018, 47, 357-366.	1.6	30
10	Octanuclear Zinc Phosphates with Hitherto Unknown Cluster Architectures: Ancillary Ligand and Solvent Assisted Structural Transformations Thereof. <i>Inorganic Chemistry</i> , 2015, 54, 9458-9469.	1.9	29
11	Elusive Double-Eight-Ring Zeolitic Secondary Building Unit. <i>Journal of the American Chemical Society</i> , 2017, 139, 59-62.	6.6	26
12	Modeling the Active Site of the Purple Acid Phosphatase Enzyme with Hetero-Dinuclear Mixed Valence M(II)â€Fe(III) [M = Zn, Ni, Co, and Cu] Complexes Supported over a [N <sub>6</sub> O] Unsymmetrical Ligand. <i>ACS Omega</i> , 2017, 2, 4737-4750.	1.6	24
13	Lanthanide Organophosphate Spiro Polymers: Synthesis, Structure, and Magnetocaloric Effect in the Gadolinium Polymer. <i>Inorganic Chemistry</i> , 2017, 56, 9071-9083.	1.9	24
14	Single-molecule magnets within polyoxometalate-based frameworks. <i>Dalton Transactions</i> , 2021, 50, 15047-15056.	1.6	22
15	Merging Pincer Motifs and Potential Metalâ€Metal Cooperativity in Cobalt Dinitrogen Chemistry: Efficient Catalytic Silylation of N <sub>2</sub> to N(SiMe <sub>3</sub> ) <sub>3</sub> . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14480-14487.	7.2	22
16	Cyclic (Alkyl)(Amino)Carbene-Stabilized Aluminum and Gallium Radicals Based on Amidinate Scaffolds. <i>Inorganic Chemistry</i> , 2020, 59, 11253-11258.	1.9	16
17	A [4+2] Condensation Strategy to Imineâ€Linked Singleâ€Crystalline Zeoliteâ€Like Zinc Phosphate Frameworks. <i>Chemistry - A European Journal</i> , 2018, 24, 6178-6190.	1.7	15
18	A Solvent Switch for the Stabilization of Multiple Hemiacetals on an Inorganic Platform: Role of Supramolecular Interactions. <i>Chemistry - A European Journal</i> , 2016, 22, 6863-6875.	1.7	14

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19	A single-ion single-electron cerrous magnet. Dalton Transactions, 2019, 48, 15928-15935.	1.6	14
20	Anhydrous manganese hypophosphite dense framework solid: Synthesis, structure and magnetic studies. Inorganic Chemistry Communication, 2015, 59, 84-87.	1.8	13
21	Deciphering the Role of Anions and Secondary Coordination Sphere in Tuning Anisotropy in Dy(III) Air- $\text{Stable } \text{D}_{5h}$ SIMs**. Chemistry - A European Journal, 2022, 28, e202103585.	1.7	12
22	Complex Structural Landscape of Titanium Organophosphonates: Isolation of Structurally Related $\text{Ti}_4$ , $\text{Ti}_5$ , and $\text{Ti}_6$ Species and Mechanistic Insights. Inorganic Chemistry, 2017, 56, 12848-12858.	1.9	11
23	2,6-Dimethylphenol derived H-phosphonate and $\text{H}^{\pm}$ -hydroxyphosphonate: facile synthesis, crystal chemistry, supramolecular association and metal complexation. CrystEngComm, 2015, 17, 4355-4366.	1.3	10
24	Enhancing the barrier height for Yb(III) single-ion magnets by modulating axial ligand fields. Chemical Communications, 2020, 56, 11879-11882.	2.2	7
25	Hitherto unknown eight-connected frameworks formed from $\text{A}_4\text{B}_4\text{O}_{12}$ metal organophosphate heterocubanes. Chemical Communications, 2019, 55, 7994-7997.	2.2	4
26	Discrete and Polymeric Cobalt Pyrophosphates Derived from Pyrophosphoric Acid Diester $\text{Ar}_2\text{H}_2\text{P}_2\text{O}_7$ . European Journal of Inorganic Chemistry, 2020, 2020, 2352-2361.	1.0	4
27	Preparation and Reactivity Studies of Four and Five coordinated Amidinate Aluminum Compounds. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1735-1743.	0.6	4
28	Merging Pincer Motifs and Potential Metal-Metal Cooperativity in Cobalt Dinitrogen Chemistry: Efficient Catalytic Silylation of $\text{N}_2$ to $\text{N}(\text{SiMe}_3)_3$ . Angewandte Chemie, 2021, 133, 14601-14608.	1.6	4