Saurabh Kumar Singh

List of Publications by Year
in descending order

41 papers	1,838 citations	257357 24 h-index	289141 40 g-index
44 all docs	44 docs citations	44 times ranked	1725 citing authors

#	Article	IF	Citations
1	Neosilyllithiumâ€Catalyzed Hydroboration of Alkynes and Alkenes in the Presence of Pinacolborane (HBpin). European Journal of Inorganic Chemistry, 2022, 2022, .	1.0	5
2	Solvent mediated synthesis of homoleptic tri and tetranuclear nickel complex derived from [Ni2(Âµ-SeC5H4N)2(dppe)2]2+ and theoretical studies. Journal of Organometallic Chemistry, 2022, 957, 122177.	0.8	2
3	Tuning the structure and magnetic properties via distinct pyridine derivatives in cobalt(<scp>ii</scp>) coordination polymers. Dalton Transactions, 2022, 51, 695-704.	1.6	20
4	Zeroâ€field Slow Magnetic Relaxation Behavior of Dy₂ in a Series of Dinuclear {Ln₂} (Ln=Dy, Tb, Gd and Er) Complexes: A Combined Experimental and Theoretical Study. European Journal of Inorganic Chemistry, 2022, 2022, .	1.0	9
5	A Nd6 molecular butterfly: a unique all-in-one material for SMM, MCE and maiden photosensitized opto-electronic device fabrication. Dalton Transactions, 2022, 51, 1617-1633.	1.6	7
6	Unsaturated Sulfur Crown Ethers Can Extract Mercury(II) and Show Promise for Future Copernicium(II) Studies: A Combined Experimental and Computational Study. Inorganic Chemistry, 2022, 61, 807-817.	1.9	1
7	Tuning chain topologies and magnetic anisotropy in one-dimensional cobalt(<scp>ii</scp>) coordination polymers via distinct dicarboxylates. CrystEngComm, 2022, 24, 3928-3937.	1.3	11
8	Synthesis of [(CO)5MS=CFcCH3] and exploration of the nature of M-S vs. M-O bonds in [(CO)5ME=CFcCH3]; (MÂ=ÂCr, Mo, W and EÂ=ÂO, S) complexes. Journal of Organometallic Chemistry, 2021, 954-955, 122080.	0.8	0
9	A serendipitous isolation of cocrystallized platinumâ€“tin complexes: synthesis, structure and theoretical exploration. New Journal of Chemistry, 2020, 44, 20945-20955.	1.4	1
10	Slow magnetic relaxation in a homo dinuclear Dy(<scp>iii</scp>) complex in a pentagonal bipyramidal geometry. Dalton Transactions, 2020, 49, 13110-13122.	1.6	16
11	Correlating Electronic Structure and Magnetic Anisotropy in Actinide Complexes [An(COT)₂], An^{III/IV} = U, Np, and Pu. Inorganic Chemistry, 2020, 59, 6815-6825.	1.9	21
12	Role of (1,3) {Cu-Cu} Interaction on the Magneto-Caloric Effect of Trinuclear {Cu^{II}-Gd^{III}-Cu^{II}} Complexes: Combined DFT and Experimental Studies. Inorganic Chemistry, 2018, 57, 1846-1858.	1.9	34
13	Challenges in Multireference Perturbation Theory for the Calculations of the g-Tensor of First-Row Transition-Metal Complexes. Journal of Chemical Theory and Computation, 2018, 14, 4662-4677.	2.3	55
14	Role of the Diamagnetic Zinc(II) Ion in Determining the Electronic Structure of Lanthanide Singleâ€Ion Magnets. Chemistry - A European Journal, 2017, 23, 4903-4916.	1.7	72
15	Role of Halide Ions in the Nature of the Magnetic Anisotropy in Tetrahedral Co II Complexes. Chemistry - A European Journal, 2017, 23, 9546-9559.	1.7	48
16	Covalency and chemical bonding in transition metal complexes: An ab initio based ligand field perspective. Coordination Chemistry Reviews, 2017, 344, 2-25.	9.5	178
17	Influence of the Ligand Field on the Slow Relaxation of Magnetization of Unsymmetrical Monomeric Lanthanide Complexes: Synthesis and Theoretical Studies. Inorganic Chemistry, 2017, 56, 14260-14276.	1.9	33
18	Key role of higher order symmetry and electrostatic ligand field design in the magnetic relaxation of low-coordinate Er(<scp>iii</scp>) complexes. Dalton Transactions, 2017, 46, 11913-11924.	1.6	23

#	Article	IF	Citations
19	[OsF₆]^{xâ^'}: Molecular Models for Spinâ€Orbit Entangled Phenomena. Chemistry - A European Journal, 2017, 23, 11244-11248.	1.7	18
20	Role of Magnetic Exchange Interactions in the Magnetization Relaxation of {3dâ€“4f} Singleâ€Molecule Magnets: A Theoretical Perspective. Chemistry - A European Journal, 2016, 22, 672-680.	1.7	55
21	Theoretical insights into the origin of magnetic exchange and magnetic anisotropy in {Re^{IV}â€“M^{II}} (M = Mn, Fe, Co, Ni and Cu) single chain magnets. Dalton Transactions, 2016, 45, 8201-8214.	1.6	12
22	What Controls the Sign and Magnitude of Magnetic Anisotropy in Tetrahedral Cobalt(II) Single-Ion Magnets?. Inorganic Chemistry, 2016, 55, 9564-9578.	1.9	100
23	Observation of Slow Relaxation and Singleâ€Molecule Toroidal Behavior in a Family of Butterflyâ€Shaped Ln₄ Complexes. Chemistry - A European Journal, 2016, 22, 18532-18550.	1.7	39
24	Deciphering the origin of giant magnetic anisotropy and fast quantum tunnelling in Rhenium(IV) single-molecule magnets. Nature Communications, 2016, 7, 10669.	5.8	32
25	Magnetic Relaxation in Singleâ€Electron Singleâ€Ion Cerium(III) Magnets: Insights from Ab Initio Calculations. Chemistry - A European Journal, 2015, 21, 13812-13819.	1.7	56
26	Origin of SMM behaviour in an asymmetric Er(<scp>iii</scp>) Schiff base complex: a combined experimental and theoretical study. Chemical Communications, 2015, 51, 6137-6140.	2.2	53
27	A synthetic strategy for switching the single ion anisotropy in tetrahedral Co(<scp>ii</scp>) complexes. Chemical Communications, 2015, 51, 3739-3742.	2.2	113
28	Magnetic Anisotropy of Mononuclear Ni^{II} Complexes: On the Importance of Structural Diversity and the Structural Distortions. Chemistry - A European Journal, 2014, 20, 10305-10313.	1.7	50
29	Can Anisotropic Exchange Be Reliably Calculated Using Density Functional Methods? A Case Study on Trinuclear Mn^{III}â€M^{III}â€Mn^{III} (M=Fe, Ru, and Os) Cyanometalate Singleâ€Molecule Magnets. Chemistry - A European Journal, 2014, 20, 113-123.	1.7	20
30	Unprecedented magnetic relaxation via the fourth excited state in low-coordinate lanthanide single-ion magnets: a theoretical perspective. Chemical Communications, 2014, 50, 15513-15516.	2.2	65
31	Magnetic Anisotropy and Mechanism of Magnetic Relaxation in Er(III) Single-Ion Magnets. Inorganic Chemistry, 2014, 53, 10835-10845.	1.9	86
32	Probing the Origin of Magnetic Anisotropy in a Dinuclear {Mn^{III}Cu^{II}} Singleâ€Molecule Magnet: The Role of Exchange Anisotropy. Chemistry - A European Journal, 2014, 20, 5214-5218.	1.7	36
33	Enhancing the effective energy barrier of a Dy(<scp>iii</scp>) SMM using a bridged diamagnetic Zn(<scp>ii</scp>) ion. Chemical Communications, 2014, 50, 8838-8841.	2.2	134
34	Fluorideâ€Bridged {Gd^{III}₃M^{III}₂} (M=Cr, Fe, Ga) Molecular Magnetic Refrigerants. Angewandte Chemie - International Edition, 2014, 53, 2394-2397.	7.2	86
35	Enhancing the double exchange interaction in a mixed valence {VIIIâ€“VII} pair: a theoretical perspective. Dalton Transactions, 2013, 42, 16490.	1.6	18
36	Angular dependence of the exchange interaction in fluoride-bridged GdIIIâ€“CrIII complexes. Chemical Communications, 2013, 49, 5583.	2.2	33

#	Article	IF	Citations
37	Decisive interactions that determine ferro/antiferromagnetic coupling in {3dâ€“4f} pairs: a case study on dinuclear {V(iv)â€“Gd(iii)} complexes. Dalton Transactions, 2013, 42, 3623.	1.6	51
38	Synthetic, structural, spectroscopic and theoretical study of a Mn(<scp>iii</scp>)â€“Cu(<scp>ii</scp>) dimer containing a Jahnâ€“Teller compressed Mn ion. Dalton Transactions, 2013, 42, 207-216.	1.6	16
39	A computational perspective on magnetic coupling, magneto-structural correlations and magneto-caloric effect of a ferromagnetically coupled {GdIIIâ€“GdIII} Pair. Polyhedron, 2013, 52, 1299-1305.	1.0	53
40	Theoretical studies on {3d-Gd} and {3d-Gd-3d} complexes: Effect of metal substitution on the effective exchange interaction. Polyhedron, 2013, 66, 81-86.	1.0	30
41	Density functional studies on dinuclear {NiIIGdIII} and trinuclear {NiIIGdIIINiII} complexes: magnetic exchange and magneto-structural maps. Dalton Transactions, 2011, 40, 10897.	1.6	132