

Kuduva R Vignesh

List of Publications by Year in descending order

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39
papers

1,097
citations

394286

19
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395590

33
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40
all docs

40
docs citations

40
times ranked

1252
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing the barrier height for magnetization reversal in 4d/4f R _u II ₂ L _n III ₂ butterfly single molecule magnets (Ln = Gd, Dy) via targeted structural alterations. Dalton Transactions, 2021, 50, 12265-12274.	1.6	6
2	Tuning the Ferrotoroidic Coupling and Magnetic Hysteresis in Double Triangle Complexes {Dy ₃ M ^{III} Dy ₃ } via the M ^{III} linker. European Journal of Inorganic Chemistry, 2021, 2021, 435-444.	1.0	15
3	Strategies to Design Single-Molecule Toroids Using Triangular {Ln ₃ } _n Motifs. ACS Omega, 2021, 6, 32349-32364.	1.6	7
4	From spin-crossover to single molecule magnetism: tuning magnetic properties of Co(ⁱⁱ) bis-ferrocenylterpy cations via supramolecular interactions with organocyanide radical anions. Journal of Materials Chemistry C, 2020, 8, 8135-8144.	2.7	8
5	Quinoxaline radical-bridged transition metal complexes with very strong antiferromagnetic coupling. Chemical Communications, 2020, 56, 9122-9125.	2.2	2
6	Six-coordinate mononuclear dysprosium(ⁱⁱⁱ) single-molecule magnets with the triphenylphosphine oxide ligand. Dalton Transactions, 2020, 49, 4694-4698.	1.6	12
7	A Co ₈ metallacycle stabilized by double anion-π interactions. Chemical Communications, 2019, 55, 12356-12359.	2.2	6
8	New examples of triangular terbium(ⁱⁱⁱ) and holmium(ⁱⁱⁱ) and hexagonal dysprosium(ⁱⁱⁱ) single molecule toroids. Dalton Transactions, 2019, 48, 15657-15667.	1.6	24
9	Charge transfer and slow magnetic relaxation in a series of cyano-bridged Fe ^{II} M ^{II} (M = Fe ^{II} , Co ^{II} , Ni ^{II}) molecules. Inorganic Chemistry Frontiers, 2019, 6, 493-497.	3.0	10
10	Rare Janus-faced single-molecule magnet exhibiting intramolecular ferromagnetic interactions. Chemical Science, 2019, 10, 1626-1633.	3.7	27
11	A cyanide-bridged wheel featuring a seven-coordinate Mo(ⁱⁱⁱ) center. Chemical Communications, 2019, 55, 2098-2101.	2.2	6
12	Oblate versus Prolate Electron Density of Lanthanide Ions: A Design Criterion for Engineering Toroidal Moments? A Case Study on {Ln ^{III} 6} (Ln=Tb, Dy, Ho and Er) Wheels. Chemistry - A European Journal, 2019, 25, 4156-4165.	1.7	23
13	Hard versus soft: zero-field dinuclear Dy(ⁱⁱⁱ) oxygen bridged SMM and theoretical predictions of the sulfur and selenium analogues. Dalton Transactions, 2019, 48, 2872-2876.	1.6	17
14	{Mn ^{III} 2Ln ^{III} 2} (Ln ^{III} =Gd, La or Y) butterfly complexes: Ferromagnetic exchange observed between bis-μ ₄ -alkoxo bridged manganese(III) ions. Polyhedron, 2019, 170, 508-514.	1.0	4
15	Switching on single-molecule magnet properties of homoleptic sandwich tris(pyrazolyl)borate dysprosium(ⁱⁱⁱ) cations via intermolecular dipolar coupling. Dalton Transactions, 2019, 48, 10610-10618.	1.6	11
16	Lanthanide Triangles Supported by Radical Bridging Ligands. Journal of the American Chemical Society, 2018, 140, 908-911.	6.6	100
17	Understanding the Mechanism of Magnetic Relaxation in Pentanuclear {Mn ^{IV} Mn ^{III} 2Ln ^{III} 2} Single-Molecule Magnets. Inorganic Chemistry, 2018, 57, 1158-1170.	1.9	19
18	End-to-end azides as bridging ligands in lanthanide coordination chemistry: Magnetic and magnetocaloric properties of tetranuclear Ln ₄ (Ln ^{III} =Gd, Dy) complexes exhibiting a rare rhombus topology. Polyhedron, 2018, 151, 255-263.	1.0	17

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19	Slow Magnetic Relaxation and Single-Molecule Toroidal Behaviour in a Family of Heptanuclear $\{Cr^{III}_3Ln^{III}_3\}_{6}$ ($Ln=Tb, Ho, Er$) Complexes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 779-784.	7.2	47
20	Effects of coordination sphere on unusually large zero field splitting and slow magnetic relaxation in trigonally symmetric molecules. <i>Chemical Science</i> , 2018, 9, 9018-9026.	3.7	34
21	Mononuclear Dysprosium(III) Complexes with Triphenylphosphine Oxide Ligands: Controlling the Coordination Environment and Magnetic Anisotropy. <i>Inorganics</i> , 2018, 6, 61.	1.2	17
22	Slow magnetic dynamics in a family of mononuclear lanthanide complexes exhibiting the rare cubic coordination geometry. <i>Chemical Communications</i> , 2018, 54, 10136-10139.	2.2	16
23	Rationalizing the sign and magnitude of the magnetic coupling and anisotropy in dinuclear manganese(III) complexes. <i>Dalton Transactions</i> , 2018, 47, 11820-11833.	1.6	20
24	Slow Magnetic Relaxation and Single-Molecule Toroidal Behaviour in a Family of Heptanuclear $\{Cr^{III}_3Ln^{III}_3\}$ ($Ln=Tb, Ho, Er$) Complexes. <i>Angewandte Chemie</i> , 2018, 130, 787-792.	1.6	13
25	What Controls the Magnetic Exchange and Anisotropy in a Family of Tetranuclear $\{Mn_2^{II}Mn_2^{III}\}$ Single-Molecule Magnets?. <i>Inorganic Chemistry</i> , 2017, 56, 1932-1949.	1.9	33
26	Exploring the Influence of Diamagnetic Ions on the Mechanism of Magnetization Relaxation in $\{Co^{III}_2Ln^{III}_2\}$ ($Ln = Dy, Tb, Ho$) "Butterfly" Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 2518-2532.	1.9	93
27	Halogen Substitution Effects on N_2O Schiff Base Ligands in Unprecedented Abrupt Fe^{II} Spin Crossover Complexes. <i>Chemistry - A European Journal</i> , 2017, 23, 7052-7065.	1.7	53
28	Influence of the Ligand Field on the Slow Relaxation of Magnetization of Unsymmetrical Monomeric Lanthanide Complexes: Synthesis and Theoretical Studies. <i>Inorganic Chemistry</i> , 2017, 56, 14260-14276.	1.9	33
29	Strong Ferromagnetic Exchange Coupling Mediated by a Bridging Tetrazine Radical in a Dinuclear Nickel Complex. <i>Inorganic Chemistry</i> , 2017, 56, 12094-12097.	1.9	29
30	Putting a New Spin on Supramolecular Metallacycles: Co_3 Triangle and Co_4 Square Bearing Tetrazine-Based Radicals as Bridges. <i>Journal of the American Chemical Society</i> , 2017, 139, 11040-11043.	6.6	47
31	Ferrotoroidic ground state in a heterometallic $\{Cr^{III}Dy^{III}_6\}$ complex displaying slow magnetic relaxation. <i>Nature Communications</i> , 2017, 8, 1023.	5.8	80
32	A comparative study of magnetization dynamics in dinuclear dysprosium complexes featuring bridging chloride or trifluoromethanesulfonate ligands. <i>Chemical Communications</i> , 2017, 53, 8419-8422.	2.2	28
33	Quenching the Quantum Tunneling of Magnetization in Heterometallic Octanuclear $\{TM_4^{III}Dy_4^{III}\}$ ($TM=Co$ and Cr) Single-Molecule Magnets by Modification of the Bridging Ligands and Enhancing the Magnetic Exchange Coupling. <i>Chemistry - A European Journal</i> , 2017, 23, 1654-1666.	1.7	66
34	Theoretical insights into the origin of magnetic exchange and magnetic anisotropy in $\{Re^{IV}M^{II}\}$ ($M = Mn, Fe, Co, Ni$ and Cu) single chain magnets. <i>Dalton Transactions</i> , 2016, 45, 8201-8214.	1.6	12
35	Large Hexadecametallic $\{Mn^{III}_6Ln^{III}_6\}$ Wheels: Synthesis, Structural, Magnetic, and Theoretical Characterization. <i>Chemistry - A European Journal</i> , 2015, 21, 16364-16369.	1.7	64
36	What Controls the Magnetic Exchange Interaction in Mixed- and Homovalent Mn_7 Disc-Like Clusters? A Theoretical Perspective. <i>Chemistry - A European Journal</i> , 2015, 21, 2881-2892.	1.7	32

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37	Neutral diiron(μ_3) complexes with $\text{Fe}_2(\mu_4\text{-E})_2$ (E = O, S, Se) core structures: reactivity of an iron(I) dimer towards chalcogens. Dalton Transactions, 2015, 44, 1700-1708.	1.6	23
38	Crown-linked dipyridylamino-triazine ligands and their spin-crossover iron(II) derivatives: magnetism, photomagnetism and cooperativity. Dalton Transactions, 2013, 42, 16494.	1.6	27
39	Iron(II) Complexes of Two Amine/Imine N5Chelate Ligands Containing a 1,4-Diazepane Core - To Crossover or Not To Crossover. European Journal of Inorganic Chemistry, 2013, 2013, 958-967.	1.0	16