

# Kuduva R Vignesh

## List of Publications by Year in descending order

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39  
papers

1,097  
citations

394286

19  
h-index

395590

33  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1252  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lanthanide Triangles Supported by Radical Bridging Ligands. <i>Journal of the American Chemical Society</i> , 2018, 140, 908-911.	6.6	100
2	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
3	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
4	Quenching the Quantum Tunneling of Magnetization in Heterometallic Octanuclear $\{TM^{III}\}_4Dy^{III}\}_4$ (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
5	Large Hexadecametallate $\{Mn^{III}\}_6Ln^{III}\}$ Wheels: Synthesis, Structural, Magnetic, and Theoretical Characterization. <i>Chemistry - A European Journal</i> , 2015, 21, 16364-16369.	1.7	64
6	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
7	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
8	Slow Magnetic Relaxation and Single-Molecule Toroidal Behaviour in a Family of Heptanuclear $\{Cr^{III}\}_6Ln^{III}\}$ (Ln=Tb, Ho, Er) Complexes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 779-784.	7.2	47
9	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
10	What Controls the Magnetic Exchange and Anisotropy in a Family of Tetranuclear $\{Mn_2M^{II}Mn_2\}$ Single-Molecule Magnets?. <i>Inorganic Chemistry</i> , 2017, 56, 1932-1949.	1.9	33
11	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
12	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
13	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
14	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
15	Crown-linked dipyridylamino-triazine ligands and their spin-crossover iron(II) derivatives: magnetism, photomagnetism and cooperativity. <i>Dalton Transactions</i> , 2013, 42, 16494.	1.6	27
16	Rare Janus-faced single-molecule magnet exhibiting intramolecular ferromagnetic interactions. <i>Chemical Science</i> , 2019, 10, 1626-1633.	3.7	27
17	New examples of triangular terbium( <sup>III</sup> ) and holmium( <sup>III</sup> ) and hexagonal dysprosium( <sup>III</sup> ) single molecule toroids. <i>Dalton Transactions</i> , 2019, 48, 15657-15667.	1.6	24
18	Neutral diiron( <sup>II</sup> ) complexes with $Fe_2(\mu_4-E)_2$ (E = O, S, Se) core structures: reactivity of an iron( <sup>I</sup> ) dimer towards chalcogens. <i>Dalton Transactions</i> , 2015, 44, 1700-1708.	1.6	23

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19	Oblate versus Prolate Electron Density of Lanthanide Ions: A Design Criterion for Engineering Toroidal Moments? A Case Study on $\{LnIII_6\}$ (Ln=Tb, Dy, Ho and Er) Wheels. Chemistry - A European Journal, 2019, 25, 4156-4165.	1.7	23
20	Rationalizing the sign and magnitude of the magnetic coupling and anisotropy in dinuclear manganese(III) complexes. Dalton Transactions, 2018, 47, 11820-11833.	1.6	20
21	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
22	End-to-end azides as bridging ligands in lanthanide coordination chemistry: Magnetic and magnetocaloric properties of tetranuclear $Ln_4$ ( $Ln = Gd, Dy$ ) complexes exhibiting a rare rhombus topology. Polyhedron, 2018, 151, 255-263.	1.0	17
23	Mononuclear Dysprosium(III) Complexes with Triphenylphosphine Oxide Ligands: Controlling the Coordination Environment and Magnetic Anisotropy. Inorganics, 2018, 6, 61.	1.2	17
24	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
25	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
26	Slow magnetic dynamics in a family of mononuclear lanthanide complexes exhibiting the rare cubic coordination geometry. Chemical Communications, 2018, 54, 10136-10139.	2.2	16
27	Tuning the Ferrotoroidic Coupling and Magnetic Hysteresis in Double- $\Delta$ Complexes $\{Dy_3 M III Dy_3\}$ via the $M III$ linker. European Journal of Inorganic Chemistry, 2021, 2021, 435-444.	1.0	15
28	Slow Magnetic Relaxation and Single-Molecule Toroidal Behaviour in a Family of Heptanuclear $\{Cr III Ln III_6\}$ (Ln=Tb, Ho, Er) Complexes. Angewandte Chemie, 2018, 130, 787-792.	1.6	13
29	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. Dalton Transactions, 2016, 45, 8201-8214.	1.6	12
30	Six-coordinate mononuclear dysprosium( $III$ ) single-molecule magnets with the triphenylphosphine oxide ligand. Dalton Transactions, 2020, 49, 4694-4698.	1.6	12
31	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
32	Charge transfer and slow magnetic relaxation in a series of cyano-bridged $FelII_4MII_2$ ( $M = Fe, Co, Ni$ ) molecules. Inorganic Chemistry Frontiers, 2019, 6, 493-497.	3.0	10
33	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
34	Strategies to Design Single-Molecule Toroids Using Triangular $\{Ln_3\}_n$ Motifs. ACS Omega, 2021, 6, 32349-32364.	1.6	7
35	A $Co_8$ metallacycle stabilized by double anion- $\pi$ interactions. Chemical Communications, 2019, 55, 12356-12359.	2.2	6
36	A cyanide-bridged wheel featuring a seven-coordinate $Mo(III)$ center. Chemical Communications, 2019, 55, 2098-2101.	2.2	6

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37	Enhancing the barrier height for magnetization reversal in 4d/4f R <sup>III</sup> 2Ln <sup>III</sup> 2 butterfly single molecule magnets (Ln = Gd, Dy) via targeted structural alterations. Dalton Transactions, 2021, 50, 12265-12274.	1.6	6
38	{Mn <sup>III</sup> 2Ln <sup>III</sup> 2} (Ln = Gd, La or Y) butterfly complexes: Ferromagnetic exchange observed between bis- $\mu_4$ -alkoxo bridged manganese(III) ions. Polyhedron, 2019, 170, 508-514.	1.0	4
39	Quinoxaline radical-bridged transition metal complexes with very strong antiferromagnetic coupling. Chemical Communications, 2020, 56, 9122-9125.	2.2	2