

Veacheslav Vieru

List of Publications by Year in descending order

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papers

3,723
citations

236612

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48
docs citations

48
times ranked

2562
citing authors

#	ARTICLE	IF	CITATIONS
1	A Stable Pentagonal Bipyramidal Dy(III) Single-Ion Magnet with a Record Magnetization Reversal Barrier over 1000 K. <i>Journal of the American Chemical Society</i> , 2016, 138, 5441-5450.	6.6	904
2	A {Cr ^{III} } ₂ Dy ^{III} Single-Molecule Magnet: Enhancing the Blocking Temperature through 3d Magnetic Exchange. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12014-12019.	7.2	338
3	Influence of Guest Exchange on the Magnetization Dynamics of Dilanthanide Single-Molecule Magnet Nodes within a Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9861-9865.	7.2	268
4	Significant Enhancement of Energy Barriers in Dinuclear Dysprosium Single-Molecule Magnets Through Electron-Withdrawing Effects. <i>Journal of the American Chemical Society</i> , 2013, 135, 13242-13245.	6.6	265
5	A High-Temperature Molecular Ferroelectric Zn/Dy Complex Exhibiting Single-Ion Magnet Behavior and Lanthanide Luminescence. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2236-2240.	7.2	220
6	Influence of the Ligand Field on Slow Magnetization Relaxation versus Spin Crossover in Mononuclear Cobalt Complexes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11290-11293.	7.2	192
7	Modifying the properties of 4f single-ion magnets by peripheral ligand functionalisation. <i>Chemical Science</i> , 2014, 5, 1650-1660.	3.7	159
8	Modulation of slow magnetic relaxation by tuning magnetic exchange in {Cr ₂ Dy ₂ } single molecule magnets. <i>Chemical Science</i> , 2014, 5, 3246-3256.	3.7	127
9	A Dinuclear Cobalt Complex Featuring Unprecedented Anodic and Cathodic Redox Switches for Single-Molecule Magnet Activity. <i>Journal of the American Chemical Society</i> , 2013, 135, 14670-14678.	6.6	121
10	Magneto-structural correlations in arsenic- and selenium-ligated dysprosium single-molecule magnets. <i>Chemical Science</i> , 2016, 7, 2128-2137.	3.7	105
11	Substituent Effects on Exchange Coupling and Magnetic Relaxation in 2,2'-Bipyrimidine Radical-Bridged Dilanthanide Complexes. <i>Journal of the American Chemical Society</i> , 2020, 142, 21197-21209.	6.6	86
12	Key Role of Frustration in Suppression of Magnetization Blocking in Single-Molecule Magnets. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3565-3569.	2.1	67
13	A {Cr ^{III} } ₂ Dy ^{III} Single-Molecule Magnet: Enhancing the Blocking Temperature through 3d Magnetic Exchange. <i>Angewandte Chemie</i> , 2013, 125, 12236-12241.	1.6	63
14	Coupling Influences SMM Properties for Pure 4f Systems. <i>Chemistry - A European Journal</i> , 2018, 24, 6079-6086.	1.7	57
15	Synthesis and Magnetic Properties of a New Family of Macrocyclic MII3LnIII Complexes: Insights into the Effect of Subtle Chemical Modification on Single-Molecule Magnet Behavior. <i>Inorganic Chemistry</i> , 2012, 51, 10603-10612.	1.9	56
16	Synthesis, Structure, and Magnetic Properties of Dy ₂ Co ₂ L ₁₀ (bipy) ₂ and Ln ₂ Ni ₂ L ₁₀ (bipy) ₂ , Ln = La, Gd, Tb, Dy, and Ho: Slow Magnetic Relaxation in Dy ₂ Co ₂ L ₁₀ (bipy) ₂ and Dy ₂ Ni ₂ L ₁₀ (bipy) ₂ . <i>Inorganic Chemistry</i> , 2014, 53,	1.9	56
17	Giant exchange interaction in mixed lanthanides. <i>Scientific Reports</i> , 2016, 6, 24046.	1.6	54
18	Transitions of two magnetic interaction states in dinuclear Dy(ⁱⁱⁱ) complexes via subtle structural variations. <i>Dalton Transactions</i> , 2017, 46, 638-642.	1.6	47

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19	Holmium(ⁱⁱⁱ) molecular nanomagnets for optical thermometry exploring the luminescence re-absorption effect. <i>Chemical Science</i> , 2021, 12, 730-741.	3.7	46
20	Synthesis, Crystal Structures, Magnetic Properties, and Theoretical Investigation of a New Series of Ni ^{II} –Ln ^{III} –W ^V Heterotrimetallics: Understanding the SMM Behavior of Mixed Polynuclear Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 12158-12171.	1.9	39
21	Field-induced oscillation of magnetization blocking barrier in a holmium metallacrown single-molecule magnet. <i>Chem</i> , 2021, 7, 982-992.	5.8	36
22	The first 4d/4f single-molecule magnet containing a {Ru ^{III} ₂ Dy ^{III} ₂ } core. <i>Chemical Communications</i> , 2015, 51, 2044-2047.	2.2	30
23	Magnetic frustration in a hexaazatrinaphthylene-bridged trimetallic dysprosium single-molecule magnet. <i>Dalton Transactions</i> , 2016, 45, 16556-16560.	1.6	30
24	Determination of magnetic anisotropy in a multinuclear Tb ^{III} -based single-molecule magnet. <i>Chemical Communications</i> , 2015, 51, 10373-10376.	2.2	28
25	Optical Activity and Dehydration-Driven Switching of Magnetic Properties in Enantiopure Cyanido-Bridged Co ^{II} ₃ W ^V ₂ Trigonal Bipyramids. <i>Inorganic Chemistry</i> , 2015, 54, 5784-5794.	1.9	27
26	Square–Planar Ruthenium(II) Complexes: Control of Spin State by Pincer Ligand Functionalization. <i>Chemistry - A European Journal</i> , 2015, 21, 579-589.	1.7	26
27	Magnetic Properties of a Terbium–[1]Ferrocenophane Complex: Analogies between Lanthanide–Ferrocenophane and Lanthanide–Bis–phthalocyanine Complexes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8164-8169.	7.2	25
28	Magnetization Dynamics and Coherent Spin Manipulation of a Propeller Gd(III) Complex with the Smallest Helicene Ligand. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1508-1515.	2.1	24
29	Study of the influence of magnetic dilution over relaxation processes in a Zn/Dy single-ion magnet by correlation between luminescence and magnetism. <i>RSC Advances</i> , 2016, 6, 108810-108818.	1.7	20
30	Spin-orbital-lattice entangled states in cubic $\text{CaMn}_2\text{P}_2\text{O}_{14}$ double perovskites. <i>Physical Review B</i> , 2018, 98, .		
31	An intermetallic molecular nanomagnet with the lanthanide coordinated only by transition metals. <i>Nature Communications</i> , 2022, 13, 2014.	5.8	17
32	Trends in trigonal prismatic Ln-[1]ferrocenophane complexes and discovery of a Ho ³⁺ single-molecule magnet. <i>Chemical Science</i> , 2020, 11, 3936-3951.	3.7	16
33	A Bis(–chlorido)–Bridged Cobalt(II) Complex with Silyl–Containing Schiff Base as a Catalyst Precursor in the Solvent–Free Oxidation of Cyclohexane. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4324-4332.	1.0	15
34	Magnetization Blocking in Fe ₂ –sup>III</sup>Dy₂–sup>III</sup> Molecular Magnets: Ab Initio Calculations and EPR Spectroscopy. <i>Chemistry - A European Journal</i> , 2018, 24, 16652-16661.	1.7	15
35	Isolation of a triplet benzene dianion. <i>Nature Chemistry</i> , 2021, 13, 1001-1005.	6.6	15
36	Zeeman interaction and Jahn-Teller effect in the $\text{CaMn}_2\text{P}_2\text{O}_{14}$ multiplet. <i>Physical Review B</i> , 2017, 96, .	1.1	14

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37	Axial Elongation of Mononuclear Lanthanide Metallocenophanes: Magnetic Properties of Dysprosium ^{III} and Terbium ^{III} Ruthenocenophane Complexes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13335-13340.	7.2	11
38	Ferromagnetic kinetic exchange interaction in magnetic insulators. <i>Physical Review Research</i> , 2020, 2, .	1.3	10
39	Effects of the Exchange Coupling on Dynamic Properties in a Series of CoGdCo Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 756-768.	1.9	9
40	Ionic Ruthenium and Iron Based Complexes Bearing Silver Containing Anions as a Potent New Class of Anticancer Agents. <i>Journal of Organometallic Chemistry</i> , 2021, 934, 121659.	0.8	8
41	Magnetic Properties of a Terbium ^{III} [1]Ferrocenophane Complex: Analogies between Lanthanide ^{III} Ferrocenophane and Lanthanide ^{III} Bis ^{III} phthalocyanine Complexes. <i>Angewandte Chemie</i> , 2018, 130, 8296-8301.	1.6	6
42	Redox Switches for Single-Molecule Magnet Activity: An Ab Initio Insight. <i>Chemistry - A European Journal</i> , 2016, 22, 5309-5318.	1.7	5
43	Toward a Microscopic Understanding of the Magnetization Behavior of a Multimolecular Single Crystal of Radical-Bridged [Dy ^{III}] ₄ Cubane Units: A Joint Ab Initio, Micro-Superconducting Quantum Interference Device, and Electron Paramagnetic Resonance Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11128-11135.	1.5	4
44	Axial Elongation of Mononuclear Lanthanide Metallocenophanes: Magnetic Properties of Dysprosium ^{III} and Terbium ^{III} Ruthenocenophane Complexes. <i>Angewandte Chemie</i> , 2020, 132, 13437-13442.	1.6	1