

Veacheslav Vieru

List of Publications by Year in descending order

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44
papers

3,723
citations

236612

25
h-index

223531

46
g-index

48
all docs

48
docs citations

48
times ranked

2562
citing authors

#	ARTICLE	IF	CITATIONS
1	An intermetallic molecular nanomagnet with the lanthanide coordinated only by transition metals. <i>Nature Communications</i> , 2022, 13, 2014.	5.8	17
2	Holmium(III) molecular nanomagnets for optical thermometry exploring the luminescence re-absorption effect. <i>Chemical Science</i> , 2021, 12, 730-741.	3.7	46
3	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
4	Field-induced oscillation of magnetization blocking barrier in a holmium metallacrown single-molecule magnet. <i>CheM</i> , 2021, 7, 982-992.	5.8	36
5	Isolation of a triplet benzene dianion. <i>Nature Chemistry</i> , 2021, 13, 1001-1005.	6.6	15
6	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
7	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
8	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
9	Trends in trigonal prismatic Ln- I ferrocenophane complexes and discovery of a Ho^{3+} single-molecule magnet. <i>Chemical Science</i> , 2020, 11, 3936-3951.	3.7	16
10	Magnetization Dynamics and Coherent Spin Manipulation of a Propeller $\text{Gd}(\text{III})$ Complex with the Smallest Helicene Ligand. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1508-1515.	2.1	24
11	Ferromagnetic kinetic exchange interaction in magnetic insulators. <i>Physical Review Research</i> , 2020, 2, .	1.3	10
12	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
13	Toward a Microscopic Understanding of the Magnetization Behavior of a Multimolecular Single Crystal of Radical-Bridged $[\text{Dy}^{\text{III}}]_4$ 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
14	Coupling Influences SMM Properties for Pure $4f$ Systems. <i>Chemistry - A European Journal</i> , 2018, 24, 6079-6086.	1.7	57
15	Magnetic Properties of a Terbium III Ferrocenophane Complex: Analogies between Lanthanide III Ferrocenophane and Lanthanide III Bis phthalocyanine Complexes. <i>Angewandte Chemie</i> , 2018, 130, 8296-8301.	1.6	6
16	Magnetic Properties of a Terbium III Ferrocenophane Complex: Analogies between Lanthanide III Ferrocenophane and Lanthanide III Bis phthalocyanine Complexes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8164-8169.	7.2	25
17	Magnetization Blocking in $\text{Fe}^{2+}\text{Dy}^{3+}$ Molecular Magnets: Ab Initio Calculations and EPR Spectroscopy. <i>Chemistry - A European Journal</i> , 2018, 24, 16652-16661.	1.7	15
18	Spin-orbital-lattice entangled states in cubic $\text{A}_2\text{B}_2\text{X}_6$ double perovskites. <i>Physical Review B</i> , 2018, 98, .	4.1	40

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19	Transitions of two magnetic interaction states in dinuclear Dy($\text{Dy}(\text{Dy})$) complexes via subtle structural variations. Dalton Transactions, 2017, 46, 638-642.	1.6	47
20	Zeeman interaction and Jahn-Teller effect in the $\text{Dy}(\text{Dy})$ multiplet. Physical Review B, 2017, 96, .	1.1	14
21	A Bis(μ -chlorido)-bridged Cobalt(II) Complex with Silyl-containing Schiff Base as a Catalyst Precursor in the Solvent-free Oxidation of Cyclohexane. European Journal of Inorganic Chemistry, 2017, 2017, 4324-4332.	1.0	15
22	Redox Switches for Single-molecule Magnet Activity: An Ab Initio Insight. Chemistry - A European Journal, 2016, 22, 5309-5318.	1.7	5
23	Magnetic frustration in a hexaazatrinaphthylene-bridged trimetallic dysprosium single-molecule magnet. Dalton Transactions, 2016, 45, 16556-16560.	1.6	30
24	A Stable Pentagonal Bipyramidal Dy(III) Single-Ion Magnet with a Record Magnetization Reversal Barrier over 1000 K. Journal of the American Chemical Society, 2016, 138, 5441-5450.	6.6	904
25	Giant exchange interaction in mixed lanthanides. Scientific Reports, 2016, 6, 24046.	1.6	54
26	Synthesis, Crystal Structures, Magnetic Properties, and Theoretical Investigation of a New Series of $\text{Ni}(\text{Ni})\text{Ln}(\text{Ln})\text{W}(\text{W})\text{V}(\text{V})$ Heterotrimetallics: Understanding the SMM Behavior of Mixed Polynuclear Complexes. Inorganic Chemistry, 2016, 55, 12158-12171.	1.9	39
27	Study of the influence of magnetic dilution over relaxation processes in a Zn/Dy single-ion magnet by correlation between luminescence and magnetism. RSC Advances, 2016, 6, 108810-108818.	1.7	20
28	Magneto-structural correlations in arsenic- and selenium-ligated dysprosium single-molecule magnets. Chemical Science, 2016, 7, 2128-2137.	3.7	105
29	Influence of Guest Exchange on the Magnetization Dynamics of Lanthanide Single-molecule Magnet Nodes within a Metal-organic Framework. Angewandte Chemie - International Edition, 2015, 54, 9861-9865.	7.2	268
30	Optical Activity and Dehydration-Driven Switching of Magnetic Properties in Enantiopure Cyanido-Bridged $\text{Co}(\text{Co})\text{W}(\text{W})\text{V}(\text{V})\text{V}(\text{V})$ Trigonal Bipyramids. Inorganic Chemistry, 2015, 54, 5784-5794.	1.9	27
31	A High-temperature Molecular Ferroelectric Zn/Dy Complex Exhibiting Single-ion Magnet Behavior and Lanthanide Luminescence. Angewandte Chemie - International Edition, 2015, 54, 2236-2240.	7.2	220
32	Determination of magnetic anisotropy in a multinuclear $\text{Tb}(\text{Tb})$ -based single-molecule magnet. Chemical Communications, 2015, 51, 10373-10376.	2.2	28
33	The first 4d/4f single-molecule magnet containing a $\{\text{Ru}(\text{Ru})\text{Dy}(\text{Dy})\}$ core. Chemical Communications, 2015, 51, 2044-2047.	2.2	30
34	Square-planar Ruthenium(II) Complexes: Control of Spin State by Pincer Ligand Functionalization. Chemistry - A European Journal, 2015, 21, 579-589.	1.7	26
35	Modifying the properties of 4f single-ion magnets by peripheral ligand functionalisation. Chemical Science, 2014, 5, 1650-1660.	3.7	159
36	Synthesis, Structure, and Magnetic Properties of $\text{Dy}(\text{Dy})\text{Co}(\text{Co})\text{Ni}(\text{Ni})\text{L}(\text{L})$ and $\text{Ln}(\text{Ln})\text{Ni}(\text{Ni})\text{L}(\text{L})$ ($\text{L} = \text{bipy}$) and $\text{Ln}(\text{Ln})\text{Co}(\text{Co})\text{Ni}(\text{Ni})\text{L}(\text{L})$ ($\text{L} = \text{bipy}$) ($\text{Ln} = \text{La, Gd, Tb, Dy, and Ho}$): Slow Magnetic Relaxation in $\text{Dy}(\text{Dy})\text{Co}(\text{Co})\text{Ni}(\text{Ni})\text{L}(\text{L})$ ($\text{L} = \text{bipy}$) and $\text{Dy}(\text{Dy})\text{Ni}(\text{Ni})\text{L}(\text{L})$ ($\text{L} = \text{bipy}$). Inorganic Chemistry, 2014, 53,	1.9	56

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37	Modulation of slow magnetic relaxation by tuning magnetic exchange in $\{Cr^{2+}_2Dy^{2+}_2\}$ single molecule magnets. <i>Chemical Science</i> , 2014, 5, 3246-3256.	3.7	127
38	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
39	A $\{Cr^{III}_2Dy^{III}_2\}$ Single-Molecule Magnet: Enhancing the Blocking Temperature through 3d Magnetic Exchange. <i>Angewandte Chemie</i> , 2013, 125, 12236-12241.	1.6	63
40	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
41	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
42	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
43	A $\{Cr^{III}_2Dy^{III}_2\}$ Single-Molecule Magnet: Enhancing the Blocking Temperature through 3d Magnetic Exchange. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12014-12019.	7.2	338
44	Synthesis and Magnetic Properties of a New Family of Macrocyclic $M^{III}_3L^{III}$ 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