

Karl KrÄmer

List of Publications by Year in descending order

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205
papers

7,816
citations

53660

45
h-index

58464

82
g-index

208
all docs

208
docs citations

208
times ranked

7650
citing authors

#	ARTICLE	IF	CITATIONS
1	Hexagonal Sodium Yttrium Fluoride Based Green and Blue Emitting Upconversion Phosphors. Chemistry of Materials, 2004, 16, 1244-1251.	3.2	1,088
2	Application of NaYF ₄ :Er ³⁺ up-converting phosphors for enhanced near-infrared silicon solar cell response. Applied Physics Letters, 2005, 86, 013505.	1.5	628
3	50th anniversary of the Judd–Ofelt theory: An experimentalist's view of the formalism and its application. Journal of Luminescence, 2013, 136, 221-239.	1.5	319
4	Quantum Magnets under Pressure: Controlling Elementary Excitations in TlCuCl_3 . Physical Review Letters, 2008, 100, 205701.	2.9	241
5	Structural and Spectroscopic Characterization of Active Sites in a Family of Light-Emitting Sodium Lanthanide Tetrafluorides. Angewandte Chemie - International Edition, 2006, 45, 2802-2806.	7.2	226
6	Highly Efficient IR to NIR Upconversion in Gd ₂ O ₃ : Er ³⁺ for Photovoltaic Applications. Chemistry of Materials, 2013, 25, 1912-1921.	3.2	183
7	Thermodynamics of the Spin Luttinger Liquid in a Model Ladder Material. Physical Review Letters, 2008, 101, 247202.	2.9	149
8	Development and characterization of highly efficient new cerium doped rare earth halide scintillator materials. Journal of Materials Chemistry, 2006, 16, 2773-2780.	6.7	140
9	Quantum and classical criticality in a dimerized quantum antiferromagnet. Nature Physics, 2014, 10, 373-379.	6.5	123
10	Improvement of $\hat{\gamma}$ -ray energy resolution of LaBr ₃ :Ce ³⁺ scintillation detectors by Sr ²⁺ and Ca ²⁺ co-doping. Applied Physics Letters, 2013, 102, .	1.5	122
11	Observation of two types of fractional excitation in the Kitaev honeycomb magnet. Nature Physics, 2018, 14, 786-790.	6.5	120
12	Visible light emission upon near-infrared excitation in a transparent solution of nanocrystalline $\hat{\gamma}$ -NaGdF ₄ : Yb ³⁺ , Er ³⁺ . Chemical Physics Letters, 2005, 407, 124-128.	1.2	111
13	Direct Observation of Magnon Fractionalization in the Quantum Spin Ladder. Physical Review Letters, 2009, 102, 107204.	2.9	105
14	Pressure-Induced Quantum Phase Transition in the Spin-Liquid TlCuCl_3 . Physical Review Letters, 2004, 93, 257201.	2.9	98
15	Tunneling, remanence, and frustration in dysprosium-based endohedral single-molecule magnets. Physical Review B, 2014, 89, .	1.1	91
16	Upconversion in Er ³⁺ -dimer systems: Trends within the series Cs ₃ Er ₂ X ₉ (X=Cl, Br, I). Physical Review B, 1994, 49, 12475-12484.	1.1	90
17	Optimizing infrared to near infrared upconversion quantum yield of $\hat{\gamma}$ -NaYF ₄ :Er ³⁺ in fluoropolymer matrix for photovoltaic devices. Journal of Applied Physics, 2013, 114, .	1.1	85
18	Plasmon enhanced upconversion luminescence near gold nanoparticles – simulation and analysis of the interactions. Optics Express, 2012, 20, 271.	1.7	81

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19	Field-controlled magnetic order in the quantum spin-ladder system Physical Review B, 2009, 79, .	1.1	80
20	Photogeneration of two metastable NO linkage isomers with high populations of up to 76% in trans-[RuCl(py) ₄ (NO)][PF ₆] ₂ · $\frac{1}{2}$ H ₂ O. Physical Chemistry Chemical Physics, 2007, 9, 3717-3724.	1.3	76
21	Scintillation Properties of and Self Absorption in $\text{Sr}_{1-x}\text{Eu}_x\text{F}_2$. IEEE Transactions on Nuclear Science, 2011, 58, 2519-2527.	1.2	76
22	Ultra-high photoluminescent quantum yield of Er^{3+} in NaYF_4 : 10% Er^{3+} via broadband excitation of upconversion for photovoltaic devices. Optics Express, 2012, 20, A879.	1.7	76
23	Use of NIR light and upconversion phosphors in light-curable polymers. Dental Materials, 2012, 28, 304-311.	1.6	76
24	Simulating Energy Transfer and Upconversion in NaYF_4 : Yb^{3+} , Tm^{3+} . Journal of Physical Chemistry C, 2015, 119, 23648-23657.	1.5	72
25	Optical and scintillation properties of $\text{CsBa}_2\text{I}_5:\text{Eu}^{2+}$. Journal of Luminescence, 2014, 145, 723-728.	1.5	70
26	Upconversion quantum yield of Er^{3+} -doped NaYF_4 and Gd_2O_3 : The effects of host lattice, Er^{3+} doping, and excitation spectrum bandwidth. Journal of Luminescence, 2014, 153, 281-287.	1.5	67
27	The Metallofullerene Field-Induced Single-Ion Magnet $\text{HoSc}_2\text{N}@C_{80}$. Chemistry - A European Journal, 2014, 20, 13536-13540.	1.7	65
28	Broadband photoluminescent quantum yield optimisation of Er^{3+} -doped NaYF_4 for upconversion in silicon solar cells. Solar Energy Materials and Solar Cells, 2014, 128, 18-26.	3.0	64
29	Long-lived light-induced metastable states in trans-[Ru(NH ₃) ₄ (H ₂ O)NO]Cl ₃ ·H ₂ O and related compounds. Physical Chemistry Chemical Physics, 2005, 7, 1164-1170.	1.3	62
30	Potential Oscillations in Galvanostatic Cu Electrodeposition: Antagonistic and Synergistic Effects among SPS, Chloride, and Suppressor Additives. Journal of Physical Chemistry C, 2012, 116, 6913-6924.	1.5	62
31	Beyond interfacial anion/cation pairing: The role of Cu(I) coordination chemistry in additive-controlled copper plating. Electrochimica Acta, 2012, 83, 367-375.	2.6	59
32	Functionalized Adamantane Tectons Used in the Design of Mixed-Ligand Copper(II) 1,2,4-Triazolyl/Carboxylate Metal-Organic Frameworks. Inorganic Chemistry, 2013, 52, 863-872.	1.9	59
33	Relation between Excitation Power Density and Er^{3+} Doping Yielding the Highest Absolute Upconversion Quantum Yield. Journal of Physical Chemistry C, 2014, 118, 30106-30114.	1.5	59
34	[V ₁₆ O ₃₈ (CN)] ⁹⁻ : A Soluble Mixed-Valence Redox-Active Building Block with Strong Antiferromagnetic Coupling. Inorganic Chemistry, 2012, 51, 9192-9199.	1.9	55
35	Lanthanide 4f-level location in lanthanide doped and cerium-lanthanide codoped NaLaF_4 by photo- and thermoluminescence. Journal of Applied Physics, 2008, 104, .	1.1	54
36	Broad-band Cr^{5+} -sensitized Er^{3+} luminescence in YVO_4 . Journal of Luminescence, 2003, 102-103, 112-118.	1.5	53

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37	Crystalline, Mixed-Valence Manganese Analogue of Prussian Blue: Magnetic, Spectroscopic, X-ray and Neutron Diffraction Studies. <i>Journal of the American Chemical Society</i> , 2004, 126, 16472-16477.	6.6	53
38	Enhanced energy conversion of up-conversion solar cells by the integration of compound parabolic concentrating optics. <i>Solar Energy Materials and Solar Cells</i> , 2015, 140, 217-223.	3.0	52
39	Improvement of LaBr ₃ :5%Ce scintillation properties by Li ⁺ , Na ⁺ , Mg ²⁺ , Ca ²⁺ , Sr ²⁺ , and Ba ²⁺ co-doping. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	51
40	Upconversion solar cell measurements under real sunlight. <i>Optical Materials</i> , 2018, 84, 389-395.	1.7	51
41	Emergence of soliton chirality in a quantum antiferromagnet. <i>Nature Physics</i> , 2005, 1, 159-163.	6.5	48
42	Upconverter Silicon Solar Cell Devices for Efficient Utilization of Sub-Band-Gap Photons Under Concentrated Solar Radiation. <i>IEEE Journal of Photovoltaics</i> , 2014, 4, 183-189.	1.5	48
43	Bifacial n-type silicon solar cells for upconversion applications. <i>Solar Energy Materials and Solar Cells</i> , 2014, 128, 57-68.	3.0	48
44	Influence of the anion on the spectroscopy and scintillation mechanism in pure and Ce ³⁺ -doped K ₂ LaX ₅ and LaX ₃ (X=Cl, Br, I). <i>Physical Review B</i> , 2003, 68, .	1.1	47
45	Infrared-to-visible upconversion in LaCl ₃ :1%Er ³⁺ : Energy-level and line-strength calculations. <i>Physical Review B</i> , 1997, 56, 13830-13840.	1.1	45
46	Quantum Statistics of Interacting Dimer Spin Systems. <i>Physical Review Letters</i> , 2005, 95, 267201.	2.9	45
47	High-light-output scintillator for photodiode readout: Lu ₃ :Ce ³⁺ . <i>Journal of Applied Physics</i> , 2006, 99, 123520.	1.1	45
48	Scintillation properties and anomalous Ce ³⁺ emission of Cs ₂ NaREBr ₆ :Ce ³⁺ (RE = La, Y, Lu). <i>Journal of Physics Condensed Matter</i> , 2006, 18, 6133-6148.	0.7	43
49	Au@Hg Nanoalloy Formation Through Direct Amalgamation: Structural, Spectroscopic, and Computational Evidence for Slow Nanoscale Diffusion. <i>Advanced Functional Materials</i> , 2011, 21, 3259-3267.	7.8	43
50	Spectroscopy and anomalous emission of Ce doped elpasolite Cs ₂ LiYCl ₆ . <i>Journal of Physics Condensed Matter</i> , 2004, 16, 1887-1897.	0.7	42
51	Dipolar Antiferromagnetism and Quantum Criticality in LiErF ₄ . <i>Science</i> , 2012, 336, 1416-1419.	6.0	42
52	Triazolyl-Based Copper-Molybdate Hybrids: From Composition Space Diagram to Magnetism and Catalytic Performance. <i>Inorganic Chemistry</i> , 2014, 53, 10112-10121.	1.9	38
53	Generation of one light-induced metastable nitrosyl linkage isomer in [Pt(NH ₃) ₄ Cl(NO)]Cl ₂ in the red spectral range. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 5149.	1.3	37
54	Die Chloride Na ₃ M _{2-x} Cl ₆ (M = La, Sm) und NaM ₂ Cl ₆ (M = Nd, Sm): Derivate des UCl ₃ -Typs. Synthese, Kristallstruktur und Röntgenabsorptionsspektroskopie (XANES). <i>Zeitschrift Für Anorganische Und Allgemeine Chemie</i> , 1994, 620, 444-450.	0.6	33

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55	speciation and energy-transfer dynamics in quantum-cutting doped Yb^{3+} . <i>Physical Review Materials</i> , 2020, 4, .	0.9	33
56	Neutron Scattering Study of the Field-Dependent Ground State and the Spin Dynamics in Spin-One-Half NH_4CuCl_3 . <i>Physical Review Letters</i> , 2004, 93, 037207.	2.9	31
57	Coordination-directed self-assembly of a simple benzothiadiazole-fused tetrathiafulvalene to low-bandgap metallogels. <i>Chemical Communications</i> , 2015, 51, 15063-15066.	2.2	31
58	Anisotropy of magnetic interactions in the spin-ladder compound $(\text{C}_5\text{H}_{12}\text{N})_2\text{CuBr}_4$. <i>Physical Review B</i> , 2010, 82, .	1.1	30
59	Ce^{3+} activated LaBr_3 : X : High-light-yield and fast-response mixed halide scintillators. <i>Journal of Applied Physics</i> , 2008, 103, 103517.	1.1	29
60	Spin-spin correlations of the spin-ladder compound Sr_2CuO_7 . <i>Physical Review B</i> , 2008, 77, .	1.1	29
61	Modeling blue to UV upconversion in $\text{F}^{2+}\text{-NaYF}_4\text{:Tm}^{3+}$. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27396-27404.	1.3	29
62	Neutron diffraction shows a photoinduced isonitrosyl linkage isomer in the metastable state of $\text{Na}_2[\text{Fe}(\text{CN})_5\text{NO}]\cdot 2\text{D}_2\text{O}$. <i>Physical Review B</i> , 2006, 73, .	1.1	28
63	Li-Based Thermal Neutron Scintillator Research; $\text{Li}_2\text{Rb}_2\text{Ce}_6$ and Other Elpasolites. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 1152-1155.	1.2	28
64	Magnetic entropy landscape and Gruber parameter of a quantum spin ladder. <i>Physical Review B</i> , 2014, 89, .	1.1	27
65	Synergistic Effect of Dielectric Barrier Discharge Plasma and TiO_2 -Pillared Montmorillonite on the Degradation of Rhodamine B in an Aqueous Solution. <i>Catalysts</i> , 2020, 10, 359.	1.6	27
66	Optical and scintillation properties of Sr_2Yb_2 . <i>Optical Materials</i> , 2014, 37, 382-386.	1.7	26
67	Neutron spectroscopic study of crystal field excitations and the effect of the crystal field on dipolar magnetism in $\text{Li}_2\text{R}_2\text{F}_6$. <i>Physical Review B</i> , 2010, 82, 040407.	1.1	26
68	Composition Space Analysis in the Development of Copper Molybdate Hybrids Decorated by a Bifunctional Pyrazolyl/1,2,4-Triazole Ligand. <i>Inorganic Chemistry</i> , 2016, 55, 239-250.	1.9	26
69	Critical Power Density: A Metric To Compare the Excitation Power Density Dependence of Photon Upconversion in Different Inorganic Host Materials. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6799-6811.	1.1	26
70	Evidence for spinon localization in the heat transport of the spin-ladder compound Sr_2CuO_7 . <i>Physical Review B</i> , 2008, 77, 040407.	1.1	26

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73	Tetranuclear $\{Co^{II}\}_2\{Co^{III}\}_2$, Octanuclear $\{Co^{II}\}_4\{Co^{III}\}_4$, and Hexanuclear $\{Co^{III}\}_3\{Dy^{III}\}_3$ Pivalate Clusters: Synthesis, Magnetic Characterization, and Theoretical Modeling. <i>Inorganic Chemistry</i> , 2017, 56, 2662-2676.	1.9	24
74	A method for correcting the excitation power density dependence of upconversion emission due to laser-induced heating. <i>Optical Materials</i> , 2018, 82, 65-70.	1.7	23
75	$CsBa_2La_5:Eu^{2+}, Sm^{2+}$ "The First High Energy Resolution Black Scintillator for γ -Ray Spectroscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900158.	1.2	23
76	Upconversion in a divalent rare earth ion: optical absorption and luminescence spectroscopy of Tm^{2+} doped $SrCl_2$. <i>Journal of Luminescence</i> , 2001, 94-95, 101-105.	1.5	22
77	breaking and violated axial symmetry in U and $TiCuCl_3$ other insulating spin systems. <i>Physical Review B</i> , 2009, 79, .	1.1	22
78	Optical properties and defect structure of Sr^{2+} co-doped $LaBr_3:5\%Ce$ scintillation crystals. <i>Journal of Luminescence</i> , 2014, 145, 518-524.	1.5	22
79	Advanced upconverter systems with spectral and geometric concentration for high upconversion efficiencies. , 2008, , .		21
80	Photogeneration of Nitrosyl Linkage Isomers in Octahedrally Coordinated Platinum Complexes in the Red Spectral Range. <i>Inorganic Chemistry</i> , 2009, 48, 11399-11406.	1.9	21
81	A one-dimensional coordination polymer based on Cu_3 -oximate metallacrowns bridged by benzene-1,4-dicarboxylate ligands: structure and magnetic properties. <i>Dalton Transactions</i> , 2015, 44, 7896-7902.	1.6	21
82	The nature of $PrCl_2.3$ revisited. <i>Journal of the Less Common Metals</i> , 1989, 149, 67-71.	0.9	20
83	Origin of Higher Order Magnetic Exchange: Evidence for Local Dimer Exchange Striction in $CsMn_0.28Mg_0.72Br_3$ Probed by Inelastic Neutron Scattering. <i>Physical Review Letters</i> , 2004, 92, 257202.	2.9	20
84	Increasing Upconversion by Plasmon Resonance in Metal Nanoparticles "A Combined Simulation Analysis. <i>IEEE Journal of Photovoltaics</i> , 2012, 2, 134-140.	1.5	20
85	Upconversion luminescence in $K_2LaX_5:Er^{3+}$ ($X \rightarrow Cl, Br$). <i>Journal of Alloys and Compounds</i> , 1994, 207-208, 128-132.	2.8	19
86	Enhanced up-conversion for photovoltaics via concentrating integrated optics. <i>Optics Express</i> , 2014, 22, A452.	1.7	19
87	Interpenetrated (8,3)-c and (10,3)-b Metal-Organic Frameworks Based on $\{Fe^{III}\}_3$ and $\{Fe^{III}\}_2\{Co^{II}\}$ Pivalate Spin Clusters. <i>Crystal Growth and Design</i> , 2014, 14, 4721-4728.	1.4	19
88	Observation of plaquette fluctuations in the spin-1/2 honeycomb lattice. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	19
89	Notes on thermometric artefacts by Er^{3+} luminescence band interference. <i>Journal of Luminescence</i> , 2021, 232, 117860.	1.5	19
90	Neutron diffraction investigation of magnetic phase transitions to long-range antiferromagnetic ordering in the free-electron ϵ -praseodymium halides Pr_2X_5 ($X = Br, I$). <i>Journal of Solid State Chemistry</i> , 1991, 95, 1-13.	1.4	18

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91	NIR to VIS upconversion in LaCl ₃ : 1% Er ³⁺ . Journal of Alloys and Compounds, 1998, 275-277, 191-195.	2.8	18
92	Thermal quenching of Ce ³⁺ -emission in PrX ₃ (X = Cl, Br) by intervalence charge transfer. Journal of Physics Condensed Matter, 2007, 19, 256209.	0.7	18
93	Thermal-neutron scintillator: Ce ³⁺ activated Rb ₂ LiYBr ₆ . Journal of Applied Physics, 2007, 101, 066107.	1.1	18
94	New magnetic frameworks of [(CuF ₂ (H ₂ O) ₂) _x (pyz)]. Chemical Communications, 2014, 50, 14504-14507.	2.2	18
95	Purification of NaF ₄ -Based Upconversion Phosphors. Chemistry of Materials, 2014, 26, 2015-2020.	3.2	18
96	Luminescence and spectroscopic properties of Sm ²⁺ and Er ³⁺ doped SrI ₂ . Journal of Luminescence, 2015, 167, 347-351.	1.5	18
97	Chloride Derivatives of Lanthanide <i>Ortho</i> -Oxomolybdates: 1. Structural Comparison, Magnetic Properties, and Luminescence of the LnCl[MoO ₄] Representatives with the Smaller Lanthanides (Ln = Sm–Lu). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 966-975.	0.6	17
98	Self-absorption in SrI ₂ :2%Eu ²⁺ between 78K and 600K. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 714, 13-16.	0.7	17
99	Mixed-ligand hydroxocopper(ii)/pyridazine clusters embedded into 3D framework lattices. Dalton Transactions, 2014, 43, 8530-8542.	1.6	17
100	New Insights in 4f ¹² 5d ¹ Excited States of Tm ²⁺ through Excited State Excitation Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 2730-2734.	2.1	17
101	[M ₉ C ₄ O] ₁₈ (M = Y, Ho, Er, Lu), reduzierte Selten-Erd-Iodide mit gewellten Metall-Doppelschichten und zwei verschiedenen interstitiellen Atomen. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1993, 619, 1384-1388.	0.6	16
102	Synthesis, crystal structure, magnetism, and absorption spectra of A ₂ UX ₅ Type Halides (A = K, Rb; X = I, Br) Tj ETQq 0 0 0 rgBT / Overlock 10 T	0.6	16
103	Quasi-2D Heisenberg Antiferromagnets [CuX(py ₂) ₂](BF ₄) with X = Cl and Br. Inorganic Chemistry, 2018, 57, 4934-4943.	1.9	16
104	BaYF ₅ :Yb ³⁺ , Tm ³⁺ Upconverting Nanoparticles with Improved Population of the Visible and Near-Infrared Emitting States: Implications for Bioimaging. ACS Applied Nano Materials, 2021, 4, 5301-5308.	2.4	16
105	Magnetic and Crystal Structure Determination of K ₂ UBr ₅ . Journal of Solid State Chemistry, 1993, 103, 152-159.	1.4	15
106	Room temperature synthesis of $\hat{1}^2$ -NaGdF ₄ : RE ³⁺ (RE= Eu, Er) nanocrystallites and their luminescence. Journal of Luminescence, 2017, 189, 91-98.	1.5	15
107	Exploration of a Variety of Copper Molybdate Coordination Hybrids Based on a Flexible Bis(1,2,4-triazole) Ligand: A Look through the Composition-Space Diagram. Inorganic Chemistry, 2017, 56, 12952-12966.	1.9	15
108	Aggregation of a Giant Bean-like {Mn ₂₆ Dy ₆ } Heterometallic Oxo-Hydroxo-Carboxylate Nanosized Cluster from a Hexanuclear {Mn ₆ } Precursor. Crystal Growth and Design, 2020, 20, 33-38.	1.4	15

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109	Six Flexible and Rigid Co(II) Coordination Networks with Dicarboxylate and Nicotinamide-Like Ligands: Impact of Noncovalent Interactions in Retention of Dimethylformamide Solvent. <i>Crystal Growth and Design</i> , 2016, 16, 7011-7024.	1.4	14
110	From pink to blue and back to pink again: changing the Co(II) ligation in a two-dimensional coordination network upon desolvation. <i>CrystEngComm</i> , 2016, 18, 384-389.	1.3	14
111	Giant Pressure Dependence and Dimensionality Switching in a Metal-Organic Quantum Antiferromagnet. <i>Physical Review Letters</i> , 2018, 121, 117201.	2.9	14
112	Vacuum referred binding energies of the lanthanides in chloride, bromide, and iodide compounds. <i>Journal of Luminescence</i> , 2019, 208, 463-467.	1.5	14
113	Optimized photoluminescence quantum yield in upconversion composites considering the scattering, inner-filter effects, thickness, self-absorption, and temperature. <i>Scientific Reports</i> , 2021, 11, 13910.	1.6	14
114	Crystal Structures of (Et ₄ N) ₃ M ₂ F ₉ (M = V, Cr, Fe) determined by X-Ray Single-Crystal and Powder Diffraction: A New Structure Type for A ₃ M ₂ X ₉ Compounds. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2001, 627, 2511.	0.6	13
115	Cooperative radiative and nonradiative effects in K ₂ NaScF ₆ codoped with V ³⁺ and Er ³⁺ . <i>Journal of Chemical Physics</i> , 2004, 120, 3374-3380.	1.2	13
116	Unprecedented Trapping of Difluorooctamolybdate Anions within an I^{\pm} -Polonium Type Coordination Network. <i>Inorganic Chemistry</i> , 2013, 52, 8784-8794.	1.9	13
117	The coordination chemistry of tartronic acid with copper: magnetic studies of a quasi-equilateral tricopper triangle. <i>Dalton Transactions</i> , 2014, 43, 656-662.	1.6	13
118	The role of Yb ²⁺ as a scintillation sensitiser in the near-infrared scintillator CsBa ₂ 15:Sm ²⁺ . <i>Journal of Luminescence</i> , 2021, 238, 118257.	1.5	13
119	Noncollinear two- and three-dimensional magnetic ordering in the honeycomb lattices of ErX ₃ (X=Cl, Br, I). <i>Physical Review B</i> , 1999, 60, R3724-R3727.	1.1	12
120	The magnetic structure of multiferroic BaMnF ₄ . <i>Journal of Physics Condensed Matter</i> , 2011, 23, 266004.	0.7	12
121	Tetracarboxylate Ligands as New Chelates Supporting Copper(II) Paddlewheel-Like Structures. <i>Inorganic Chemistry</i> , 2014, 53, 2683-2691.	1.9	12
122	Tripod USPIOs with high aspect ratio show enhanced T ₂ relaxation and cytocompatibility. <i>Nanomedicine</i> , 2016, 11, 1017-1030.	1.7	12
123	Bound States and Field-Polarized Haldane Modes in a Quantum Spin Ladder. <i>Physical Review Letters</i> , 2017, 118, 177202.	2.9	12
124	Quantum magnetism in molecular spin ladders probed with muon-spin spectroscopy. <i>New Journal of Physics</i> , 2018, 20, 103002.	1.2	12
125	Bright constant color upconversion based on dual 980 and 1550 nm excitation of SrF ₂ :Yb ³⁺ , Er ³⁺ and $\text{I}^2\text{-NaYF}_4\text{:Yb}^{3+}, \text{Er}^{3+}$ micropowders – considerations for persistence of vision displays. <i>Optical Materials</i> , 2021, 111, 110598.	1.7	12
126	Crystal structure of CsUCl ₄ · 3H ₂ O. <i>Journal of the Less Common Metals</i> , 1991, 175, 347-352.	0.9	11

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127	Inorganic solid state optical materials:. Current Opinion in Solid State and Materials Science, 2002, 6, 487-493.	5.6	11
128	Magnetic and neutron spectroscopic properties of the tetrameric nickel compound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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145	Exploring the Electronic Structure of an Organic Semiconductor Based on a Compactly Fused Electron Donor–Acceptor Molecule. <i>ChemPhysChem</i> , 2015, 16, 1361-1365.	1.0	8
146	Low Temperature Phases of Na ₂ Ti ₃ Cl ₈ Revisited. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 2063-2069.	0.6	8
147	The thermodynamic stability of the LaBr ₄ ³⁻ ion. <i>Russian Journal of Physical Chemistry A</i> , 2008, 82, 767-772.	0.1	7
148	Two-dimensional coordination compounds based on Fe(II) and Co(III) hexacyanometallates with Cu(II)(dien) groups: Structures and magnetic properties. <i>Inorganica Chimica Acta</i> , 2011, 373, 100-106.	1.2	7
149	A quinoxaline-fused tetrathiafulvalene derivative and its semiconducting charge-transfer salt: synthesis, crystal structures and physical properties. <i>New Journal of Chemistry</i> , 2014, 38, 2052-2057.	1.4	7
150	Dimensional reduction by pressure in the magnetic framework material CuF_2 (pyz): From spin-wave to spinon excitations. <i>Physical Review B</i> , 2017, 96, .	1.1	7
151	Versatility of copper(II) coordination compounds with 2,3-bis(2-pyridyl)pyrazine mediated by temperature, solvents and anions choice. <i>Solid State Sciences</i> , 2018, 82, 1-12.	1.5	7
152	On the Border between Low-Nuclearity and One-Dimensional Solids: A Unique Interplay of 1,2,4-Triazolyl-Based {Cu ^{II} ₅ (OH) ₂ } Clusters and Mo ^{VI} -Oxide Matrix. <i>Inorganic Chemistry</i> , 2018, 57, 6076-6083.	1.9	7
153	Formation of Tetranuclear Nickel(II) Complexes with Schiff-Bases: Crystal Structures and Magnetic Properties. <i>Crystals</i> , 2020, 10, 592.	1.0	7
154	Magnetic order in the quasi-one-dimensional Ising system RbCoCl_2 . <i>Physical Review B</i> , 2021, 103, .		
155	Reconciling exchange striction with biquadratic exchange in $\text{KMn}_0.1\text{Zn}_0.9\text{F}_3$: An inelastic neutron scattering study. <i>Physical Review B</i> , 2008, 77, .	1.1	6
156	Scintillation properties and self absorption in $\text{SrI}_2:\text{Eu}^{2+}$, 2010, .		6
157	Direct Observation of Local Mn-Mn Distances in the Paramagnetic Compound $\text{CsMn}_2\text{MgCl}_6$. <i>Physical Review Letters</i> , 2011, 107, 115502.	2.9	6
158	Synthesis, Structure, and Properties of the New Mixed-Valent Dodecahalogenotrimetallate $\text{In}_4\text{Ti}_3\text{Br}_{12}$ and its Relation to Compounds $\text{In}_3\text{Ti}_2\text{X}_9$ ($\text{X} = \text{K, In; X} = \text{Cl, Br}$). <i>Inorganic Chemistry</i> , 2012, 51, 8385-8393.	1.9	6
159	Flame Synthesis of Complex Fluoride-Based Nanoparticles as Upconversion Phosphors. <i>KONA Powder and Particle Journal</i> , 2013, 30, 267-275.	0.9	6
160	Atomization Energies of LnX Molecules (Ln = Sm, Eu, and Yb; X = Cl, Br, and I). <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 4010-4014.	1.0	6
161	Upconversion luminescence in sub-10 nm $\text{NaGdF}_4:\text{Yb}^{3+},\text{Er}^{3+}$ nanoparticles: an improved synthesis in anhydrous ionic liquids. <i>RSC Advances</i> , 2019, 9, 34784-34792.	1.7	6
162	Phonon density of states in lanthanide-based nanocrystals. <i>Physical Review B</i> , 2020, 102, .	1.1	6

#	ARTICLE	IF	CITATIONS
163	Comparison of the electron-phonon coupling strength of U ³⁺ and Nd ³⁺ in K ₂ LaCl ₅ . Journal of Luminescence, 1998, 76-77, 548-550.	1.5	5
164	Knudsen effusion mass spectrometric determination of the complex vapor composition of samarium, europium, and ytterbium bromides. Rapid Communications in Mass Spectrometry, 2013, 27, 1715-1722.	0.7	5
165	Study of Molecular and Ionic Vapor Composition over Ce ₃ by Knudsen Effusion Mass Spectrometry. Journal of Spectroscopy, 2016, 2016, 1-9.	0.6	5
166	Synthesis, crystal structure, and properties of a $\frac{1}{4}$ -oxo-trichromium(III) propionate cluster with pyrazole. Journal of Coordination Chemistry, 2016, 69, 72-80.	0.8	5
167	Dinuclear Complexes Formed by Hydrogen Bonds: Synthesis, Structure and Magnetic and Electrochemical Properties. Chemistry - A European Journal, 2017, 23, 7104-7112.	1.7	5
168	Thermodynamic parameters of vaporization of EuBr ₂ . Russian Journal of Physical Chemistry A, 2010, 84, 554-560.	0.1	4
169	Formation enthalpies of molecules and negative ions of ytterbium bromides. Russian Journal of Physical Chemistry A, 2011, 85, 922-925.	0.1	4
170	Extrapolated difference technique for the determination of atomization energies of Sm, Eu, and Yb bromides. International Journal of Mass Spectrometry, 2013, 348, 23-28.	0.7	4
171	Propagation of defects in doped magnetic materials of different dimensionality. Physical Review B, 2014, 89, .	1.1	4
172	Determination of the Work Function for Europium Dibromide by Knudsen Effusion Mass Spectrometry. Journal of Chemical & Engineering Data, 2012, 57, 436-438.	1.0	3
173	Formation energies of molecules and anions of europium bromides. Russian Journal of Physical Chemistry A, 2012, 86, 548-552.	0.1	3
174	Nonequilibrium hysteresis and spin relaxation in the mixed-anisotropy dipolar-coupled spin-glass LiHo _{0.5} Er _{0.5} F ₄ . Physical Review B, 2014, 90, .	1.1	3
175	Defect propagation in one-, two-, and three-dimensional compounds doped by magnetic atoms. Physical Review B, 2014, 90, .	1.1	3
176	Hexanuclear Fe(III) wheels functionalized by amino-acetonitrile derivatives. Solid State Sciences, 2018, 78, 156-162.	1.5	3
177	Field-induced anisotropy in the quasi-two-dimensional weakly anisotropic antiferromagnet [CuCl(py ₂) ₂]BF ₄ . Physical Review B, 2019, 99, .	1.1	3
178	Magnetic order and disorder in a quasi-two-dimensional quantum Heisenberg antiferromagnet with randomized exchange. Physical Review B, 2020, 102, .	1.1	3
179	Formation of Defect-Dicubane-Type Ni ^{II} ₂ Ln ^{III} ₂ (Ln = Tb, Tj) ETQ ₁ 1 0.784314 rg 3	1.6	3
180	Photocatalytic Activity of Fibrous Ti/Ce Oxides Obtained by Hydrothermal Impregnation of Short Flax Fibers. Molecules, 2021, 26, 3399.	1.7	3

#	ARTICLE	IF	CITATIONS
199	Peculiar radiopaque foreign body in the upper aerodigestive tract in a newborn corpse from the Indian Ocean. <i>Journal of Forensic Radiology and Imaging</i> , 2018, 12, 68-71.	1.2	1
200	Î±-'NaLuF4': six-fold twinning with modulation and diffuse scattering. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C415-C416.	0.3	1
201	Copper-pyrazine magnetic polymers under high pressure. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, s88-s89.	0.0	0
202	Honeycomb diffuse intensities in NaREF ₄ upconversion materials. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2005, 61, c451-c451.	0.3	0
203	Electron density analysis in quantum magnets. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, s313-s313.	0.0	0
204	New antiferromagnets [CuX(py ₂) ₂](BF ₄) with X = Cl and Br. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, s92-s92.	0.0	0
205	Dipolar spin-waves and tunable band gap at the Dirac points in the 2D magnet ErBr ₃ . <i>Communications Physics</i> , 2022, 5, .	2.0	0