

Graham King

List of Publications by Year in descending order

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68
papers

2,692
citations

279798

23
h-index

189892

50
g-index

77
all docs

77
docs citations

77
times ranked

3247
citing authors

#	ARTICLE	IF	CITATIONS
1	Cation ordering in perovskites. <i>Journal of Materials Chemistry</i> , 2010, 20, 5785.	6.7	564
2	General synthesis of single-atom catalysts with high metal loading using graphene quantum dots. <i>Nature Chemistry</i> , 2021, 13, 887-894.	13.6	362
3	Efficient conversion of low-concentration nitrate sources into ammonia on a Ru-dispersed Cu nanowire electrocatalyst. <i>Nature Nanotechnology</i> , 2022, 17, 759-767.	31.5	318
4	Oxygen-deficient BaTiO ₃ perovskite as an efficient bifunctional oxygen electrocatalyst. <i>Nano Energy</i> , 2015, 13, 423-432.	16.0	221
5	Synthesis and Characterization of New $A_2B_6WO_6$ Perovskites Exhibiting Simultaneous Ordering of A-Site and B-Site Cations. <i>Chemistry of Materials</i> , 2007, 19, 6451-6458.	6.7	113
6	Linker-Compensated Metal-Organic Framework with Electron Delocalized Metal Sites for Bifunctional Oxygen Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 4783-4791.	13.7	86
7	Photoinduced Oxygen Transfer and Double-Linkage Isomerism in acis-(NO)(NO ₂) Transition-Metal Complex by Photocrystallography, FT-IR Spectroscopy and DFT Calculations. <i>Chemistry - A European Journal</i> , 2005, 11, 7254-7264.	3.3	71
8	Structure-Function Studies of Modular Aromatics That Form Molecular Organogels. <i>Journal of Organic Chemistry</i> , 2007, 72, 7270-7278.	3.2	62
9	Magnetic and structural properties of NaLnMnWO ₆ and NaLnMgWO ₆ perovskites. <i>Journal of Solid State Chemistry</i> , 2009, 182, 1319-1325.	2.9	61
10	Magnetic transition broadening and local lattice distortion in the negative thermal expansion antiperovskite Cu _{1-x} S _x NMn ₃ . <i>Applied Physics Letters</i> , 2013, 102, .	3.3	51
11	Transmission Electron Microscopy Studies of NaLaMgWO ₆ : Spontaneous Formation of Compositionally Modulated Stripes. <i>Journal of the American Chemical Society</i> , 2008, 130, 15028-15037.	13.7	49
12	Revisiting thermodynamics and kinetic diffusivities of uranium-niobium with Bayesian uncertainty analysis. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2016, 55, 219-230.	1.6	46
13	In Situ Neutron Diffraction Study of the Influence of Microstructure on the Mechanical Response of Additively Manufactured 304L Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 6055-6069.	2.2	44
14	A Simple and Efficient Way to Synthesize Unsolvated Sodium Octahydrotriborate. <i>Inorganic Chemistry</i> , 2010, 49, 8185-8187.	4.0	41
15	Crystal Structure and Phase Transitions in Sr ₃ WO ₆ . <i>Inorganic Chemistry</i> , 2010, 49, 6058-6065.	4.0	33
16	Spontaneous Superlattice Formation in the Doubly Ordered Perovskite KLaMnWO ₆ . <i>Chemistry of Materials</i> , 2011, 23, 163-170.	6.7	32
17	The High-Temperature Polymorphs of K ₃ AlF ₆ . <i>Inorganic Chemistry</i> , 2011, 50, 7792-7801.	4.0	31
18	Magnetic structures of NaL_3MnWO_6		

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19	The Crystal Structure of K_3AlF_6 : Elpasolites and Double Perovskites with Broken Corner-Sharing Connectivity of the Octahedral Framework. <i>Inorganic Chemistry</i> , 2009, 48, 9336-9344.	4.0	30
20	Structural Determination and Imaging of Charge Ordering and Oxygen Vacancies of the Multifunctional Oxides $\text{REBaMn}_2\text{O}_6$ ($\text{RE} = \text{Gd, Tb}$). <i>Advanced Functional Materials</i> , 2014, 24, 2510-2517.	14.9	25
21	Octahedral tilt twinning and compositional modulation in NaLaMgWO_6 . <i>Acta Crystallographica Section B: Structural Science</i> , 2009, 65, 676-683.	1.8	24
22	Local structure of the vacancy disordered fluorite Yb_3TaO_7 from neutron total scattering. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10487.	10.3	24
23	Raman Study of the Structural Distortion in the $\text{Ni}_x\text{Co}_x\text{TiO}_3$ Solid Solution. <i>Inorganic Chemistry</i> , 2016, 55, 9436-9444.	4.0	24
24	Inducing Ferrimagnetism in Insulating Hollandite $\text{Ba}_{1.2}\text{Mn}_8\text{O}_{16}$. <i>Chemistry of Materials</i> , 2015, 27, 515-525.	6.7	22
25	The lower energy diffraction and scattering side-bounce beamline for materials science at the Canadian Light Source. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 961-969.	2.4	21
26	Short-Range Layered A-Site Ordering in Double Perovskites $\text{NaLaBB}_2\text{O}_6$ ($B = \text{Mn, Fe}$; $B^2 = \text{Nb}$). <i>Journal of Materials Chemistry</i> , 2018, 28, 2600-2607.	6.7	26
27	The effect of the B-site cation and oxygen stoichiometry on the local and average crystal and magnetic structures of $\text{Sr}_2\text{Fe}_{1.9}\text{M}_{0.1}\text{O}_{5+y}$ ($M = \text{Mn, Cr, Co}$; $y = 0, 0.5$). <i>Journal of Materials Chemistry</i> , 2012, 22, 9522.	6.7	19
28	Magnetic and nuclear structure of goethite (FeOOH): a neutron diffraction study. <i>Journal of Applied Crystallography</i> , 2014, 47, 1983-1991.	4.5	18
29	The Incommensurately Modulated Structures of the Perovskites NaCeMnWO_6 and NaPrMnWO_6 . <i>Inorganic Chemistry</i> , 2012, 51, 4007-4014.	4.0	16
30	Local Structure of $\text{Zr}(\text{OH})_4$ and the Effect of Calcination Temperature from X-ray Pair Distribution Function Analysis. <i>Inorganic Chemistry</i> , 2018, 57, 2797-2803.	4.0	16
31	Processing of Transparent Polycrystalline $\text{AlON}:\text{Ce}^{3+}$ Scintillators. <i>Journal of the American Ceramic Society</i> , 2016, 99, 424-430.	3.8	15
32	Icosahedra clustering and short range order in Ni-Nb-Zr amorphous membranes. <i>Scientific Reports</i> , 2018, 8, 6084.	3.3	13
33	Structure and viscosity of $\text{CaO}-\text{Al}_2\text{O}_3-\text{B}_2\text{O}_3-\text{BaO}$ slags with varying mass ratio of BaO to CaO. <i>Journal of the American Ceramic Society</i> , 2021, 104, 4505-4517.	3.8	13
34	Two novel bis(2,9-dimethyl-1,10-phenanthroline)copper(I) complexes: $[\text{Cu}(\text{dmp})_2]_2(\text{PF}_6)_2 \cdot 0.5(\text{bpmh}) \cdot \text{CH}_3\text{CN}$ and $[\text{Cu}(\text{dmp})_2][\text{N}(\text{CN})_2]$. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2005, 61, m329-m332.	0.4	12
35	The structural characterization of $(\text{NH}_4)_2\text{B}_{10}\text{H}_{10}$ and thermal decomposition studies of $(\text{NH}_4)_2\text{B}_{10}\text{H}_{10}$ and $(\text{NH}_4)_2\text{B}_{12}\text{H}_{12}$. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4267-4273.	7.1	12
36	In-situ quantification and density functional theory elucidation of phase transformation in carbon steel during quenching and partitioning. <i>Acta Materialia</i> , 2021, 221, 117361.	7.9	12

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37	Local structures of Sr ₂ FeMnO ₅ + (y=0, 0.5) and Sr ₂ Fe _{1.5} Cr _{0.5} O ₅ from reverse Monte Carlo modeling of pair distribution function data and implications for magnetic order. Journal of Solid State Chemistry, 2013, 198, 407-415.	2.9	10
38	Low Temperature Preparation and Electrochemical Properties of LiFeSi ₂ O ₆ . Journal of the Electrochemical Society, 2014, 161, A1642-A1647.	2.9	10
39	Expanding the Doubly Cation Ordered $A_2B_2O_6$ Perovskite Family: Structural Complexity in NaLaInNbO ₆ and NaLaInTaO ₆ . Inorganic Chemistry, 2019, 58, 14058-14067.	4.0	9
40	Cation and anion ordering in Sr ₂ Si ₇ Al ₃ ON ₁₃ phosphors. Journal of Materials Chemistry C, 2015, 3, 3135-3140.	5.5	8
41	Chemical vapor deposition of Mo tubes for fuel cladding applications. Surface and Coatings Technology, 2018, 337, 510-515.	4.8	8
42	Drastic Differences between the Local and the Average Structures of Sr ₂ MSbO _{5.5} (M = Ca, Sr, Ba) Oxygen-Deficient Double Perovskites. Inorganic Chemistry, 2012, 51, 13060-13068.	4.0	7
43	Magnetic properties of some transition-metal Prussian Blue Analogs with composition M[M(C,N)] _x HO. Journal of Science: Advanced Materials and Devices, 2016, 1, 113-120.	3.1	7
44	Identifying the local structural units in La _{0.5} Ba _{0.5} MnO _{2.5} and BaY _{0.25} Fe _{0.75} O _{2.5} through the neutron pair distribution function. Dalton Transactions, 2017, 46, 1145-1152.	3.3	7
45	Unveiling Non-isothermal Crystallization of CaO-Al ₂ O ₃ -B ₂ O ₃ -Na ₂ O-Li ₂ O-SiO ₂ Glass via <i>In Situ</i> X-ray Scattering and Raman Spectroscopy. Inorganic Chemistry, 2022, 61, 7017-7025.	4.0	7
46	Processing of crack-free high density polycrystalline LiTaO ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 3725-3732.	2.2	6
47	Comparing Magnetism in Isostructural Oxides A _{0.8} La _{1.2} MnO _{4.1} : Anisotropic Spin Glass (A = Ba) versus Long-Range Order (A = Sr). Chemistry of Materials, 2019, 31, 7833-7844.	6.7	6
48	Synergistic effect of Ni-Ag rutile TiO ₂ ternary nanocomposite for efficient visible-light-driven photocatalytic activity. RSC Advances, 2020, 10, 36930-36940.	3.6	6
49	Multi-scale structural analysis of the A-site and oxygen deficient perovskite Sr ₁₁ Mo ₄ O ₂₃ . Dalton Transactions, 2017, 46, 12466-12473.	3.3	5
50	In Situ X-Ray Diffraction Study on Hydrate Formation at Low Temperature in a High Vacuum. Journal of Physical Chemistry C, 2021, 125, 26892-26900.	3.1	5
51	Slip casting of sol-gel-synthesized barium strontium zirconium titanate ceramics. Journal of Materials Science, 2013, 48, 5788-5800.	3.7	4
52	Unveiling nano-scaled chemical inhomogeneity impacts on corrosion of Ce-modified 2507 super-duplex stainless steels. Npj Materials Degradation, 2022, 6, .	5.8	4
53	Joining of highly aluminum-doped lanthanum strontium manganese oxide with tetragonal zirconia by plastic deformation. Solid State Ionics, 2008, 179, 550-557.	2.7	3
54	Linking local structure and properties in perovskites containing equal concentrations of manganese and ruthenium. Physical Review B, 2011, 83, .	3.2	3

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55	Comment on "Frustrated Octahedral Tilting Distortion in the Incommensurately Modulated $\text{Li}_{3-x}\text{Nd}_{2/3}\text{TiO}_3$ Perovskites". Chemistry of Materials, 2014, 26, 1286-1287.	6.7	3
56	Magnetic properties and magnetic structures of $\text{TbBaMn}_2\text{O}_7$. Possible observation of unconventional polaron trimers. Physical Review B, 2015, 91, .	3.2	3
57	Structure and Magnetic Properties of Triclinic $\text{Ni}_{0.6}\text{Co}_{0.4}\text{TiO}_3$ Ilmenite Oxide. Materials Today: Proceedings, 2016, 3, 265-276.	1.8	3
58	Pyrolytic Carbon Coating Effects on Oxide and Carbide Kernels Intended for Nuclear Fuel Applications. Nuclear Technology, 2020, 206, 23-31.	1.2	3
59	Accelerated microwave-assisted synthesis and in situ X-ray scattering of tungsten-substituted vanadium dioxide ($\text{V}_{1-x}\text{W}_x\text{O}_2$). Journal of Materials Research, 2021, 36, 268-280.	2.6	3
60	Structural complexity in $\text{AA}_2\text{MM}_2\text{O}_6$ Perovskites. A Transmission Electron Microscopy Study. Materials Research Society Symposia Proceedings, 2008, 1148, 1.	0.1	2
61	Revealing the structures and relationships of $\text{Ca}_2\text{FeAsO}_4$ minerals: arseniosiderite and yukonite. Environmental Science: Nano, 2020, 7, 3735-3745.	4.3	2
62	Low-energy Sr ₂ MSbO ₅ (M = Ca and Sr) structures show significant distortions near oxygen vacancies. International Journal of Quantum Chemistry, 2020, 120, e26356.	2.0	2
63	New examples of non-cooperative octahedral tilting in a double perovskite: phase transitions in K_3GaF_6 . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 789-794.	1.1	2
64	Family of anisotropic spin glasses $\text{Ba}_{1-x}\text{La}_x\text{MnO}_4$. Physical Review Materials, 2021, 5, .	2.4	1
65	Coupled Compositional and Displacive Modulations in KLaMnWO_6 Revealed by Atomic Resolution Imaging. Journal of the American Chemical Society, 2021, 143, 19121-19127.	13.7	1
66	Accelerated microwave-assisted synthesis and in situ X-ray scattering of tungsten-substituted vanadium dioxide ($\text{V}_{1-x}\text{W}_x\text{O}_2$). Journal of Materials Research, 2021, 36, 1-13.	2.6	1
67	Magnetism in Mixed Valence, Defect, Cubic Perovskites: $\text{Ba}_{1-x}\text{Fe}_x\text{O}_{2.5+\delta}$, $\delta = 0.25, 0.50, \text{ and } 0.75$. Local and Average Structures. ACS Omega, 2021, 6, 6017-6029.	3.5	0
68	Polymorphs of Rb_3ScF_6 : X-ray and Neutron Diffraction, Solid-State NMR, and Density Functional Theory Calculations Study. Inorganic Chemistry, 2021, 60, 6016-6026.	4.0	0