Graham King

List of Publications by Citations

63 papers	1,632 citations	20 h-index	39 g-index
77 ext. papers	2,065 ext. citations	6.2 avg, IF	4.75 L-index

#	Paper	IF	Citations
63	Cation ordering in perovskites. *Journal of Materials Chemistry*, **2010**, 20, 5785		428
62	Oxygen-deficient BaTiO3−δperovskite as an efficient bifunctional oxygen electrocatalyst. *Nano Energy*, **2015**, 13, 423-432	17.1	168
61	Synthesis and Characterization of New AA?BWO6 Perovskites Exhibiting Simultaneous Ordering of A-Site and B-Site Cations. *Chemistry of Materials*, **2007**, 19, 6451-6458	9.6	95
60	General synthesis of single-atom catalysts with high metal loading using graphene quantum dots. *Nature Chemistry*, **2021**, 13, 887-894	17.6	86
59	Photoinduced oxygen transfer and double-linkage isomerism in a cis-(NO)(NO2) transition-metal complex by photocrystallography, FT-IR spectroscopy and DFT calculations. *Chemistry - A European Journal*, **2005**, 11, 7254-64	4.8	65
58	Structure-function studies of modular aromatics that form molecular organogels. *Journal of Organic Chemistry*, **2007**, 72, 7270-8	4.2	61
57	Magnetic and structural properties of NaLnMnWO6 and NaLnMgWO6 perovskites. *Journal of Solid State Chemistry*, **2009**, 182, 1319-1325	3.3	52
56	Magnetic transition broadening and local lattice distortion in the negative thermal expansion antiperovskite Cu1−xSnxNMn3. *Applied Physics Letters*, **2013**, 102, 041908	3.4	45
55	A simple and efficient way to synthesize unsolvated sodium octahydrotriborate. *Inorganic Chemistry*, **2010**, 49, 8185-7	5.1	40
54	Transmission electron microscopy studies of NaLaMgWO6: spontaneous formation of compositionally modulated stripes. *Journal of the American Chemical Society*, **2008**, 130, 15028-37	16.4	40
53	Revisiting thermodynamics and kinetic diffusivities of uranium–niobium with Bayesian uncertainty analysis. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2016**, 55, 219-230	1.9	38
52	In Situ Neutron Diffraction Study of the Influence of Microstructure on the Mechanical Response of Additively Manufactured 304L Stainless Steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 6055-6069	2.3	34
51	Spontaneous Superlattice Formation in the Doubly Ordered Perovskite KLaMnWO6. *Chemistry of Materials*, **2011**, 23, 163-170	9.6	28
50	Crystal structure and phase transitions in Sr3WO6. *Inorganic Chemistry*, **2010**, 49, 6058-65	5.1	28
49	Magnetic structures of NaLMnWO6 perovskites (L=La,Nd,Tb). *Physical Review B*, **2009**, 79,	3.3	28
48	The high-temperature polymorphs of K3AlF6. *Inorganic Chemistry*, **2011**, 50, 7792-801	5.1	26
47	The crystal structure of alpha-K3AlF6: elpasolites and double perovskites with broken corner-sharing connectivity of the octahedral framework. *Inorganic Chemistry*, **2009**, 48, 9336-44	5.1	26

46	Octahedral tilt twinning and compositional modulation in NaLaMgWO(6). *Acta Crystallographica Section B: Structural Science*, **2009**, 65, 676-83		22
45	Structural Determination and Imaging of Charge Ordering and Oxygen Vacancies of the Multifunctional Oxides REBaMn2O6-□(RE = Gd, Tb). *Advanced Functional Materials*, **2014**, 24, 2510-2517	15.6	21
44	Local structure of the vacancy disordered fluorite Yb3TaO7 from neutron total scattering. *Journal of Materials Chemistry A*, **2013**, 1, 10487	13	20
43	Raman Study of the Structural Distortion in the Ni1-xCoxTiO3 Solid Solution. *Inorganic Chemistry*, **2016**, 55, 9436-44	5.1	19
42	Inducing Ferrimagnetism in Insulating Hollandite Ba1.2Mn8O16. *Chemistry of Materials*, **2015**, 27, 515-525	9.6	17
41	The effect of the B-site cation and oxygen stoichiometry on the local and average crystal and magnetic structures of Sr2Fe1.9M0.1O5+y (M = Mn, Cr, Co; y = 0, 0.5). *Journal of Materials Chemistry* , **2012**, 22, 9522		17
40	Short-Range Layered A-Site Ordering in Double Perovskites NaLaBB?O6(B = Mn, Fe; B? = Nb, Ta). *Chemistry of Materials*, **2011**, 23, 2398-2406	9.6	15
39	Magnetic and nuclear structure of goethite (□FeOOH): a neutron diffraction study. *Journal of Applied Crystallography*, **2014**, 47, 1983-1991	3.8	13
38	Local Structure of Zr(OH) and the Effect of Calcination Temperature from X-ray Pair Distribution Function Analysis. *Inorganic Chemistry*, **2018**, 57, 2797-2803	5.1	12
37	The incommensurately modulated structures of the perovskites NaCeMnWO6 and NaPrMnWO6. *Inorganic Chemistry*, **2012**, 51, 4007-14	5.1	12
36	The structural characterization of (NH4)2B10H10 and thermal decomposition studies of (NH4)2B10H10 and (NH4)2B12H12. *International Journal of Hydrogen Energy*, **2012**, 37, 4267-4273	6.7	11
35	Local structures of Sr2FeMnO5+ (y=0, 0.5) and Sr2Fe1.5Cr0.5O5 from reverse Monte Carlo modeling of pair distribution function data and implications for magnetic order. *Journal of Solid State Chemistry*, **2013**, 198, 407-415	3.3	10
34	Two novel bis(2,9-dimethyl-1,10-phenanthroline)copper(I) complexes: [Cu(dmp)2]2(PF6)2.0.5(bpmh).CH3CN and [Cu(dmp)2][N(CN)2]. *Acta Crystallographica Section C: Crystal Structure Communications*, **2005**, 61, m329-32		10
33	Linker-Compensated Metal-Organic Framework with Electron Delocalized Metal Sites for Bifunctional Oxygen Electrocatalysis.. *Journal of the American Chemical Society*, **2022**,	16.4	10
32	Icosahedra clustering and short range order in Ni-Nb-Zr amorphous membranes. *Scientific Reports*, **2018**, 8, 6084	4.9	9
31	Low Temperature Preparation and Electrochemical Properties of LiFeSi2O6. *Journal of the Electrochemical Society*, **2014**, 161, A1642-A1647	3.9	8
30	Processing of Transparent Polycrystalline AlON:Ce3+ Scintillators. *Journal of the American Ceramic Society*, **2016**, 99, 424-430	3.8	8
29	Drastic differences between the local and the average structures of Sr2MSbO5.5 (M = Ca, Sr, Ba) oxygen-deficient double perovskites. *Inorganic Chemistry*, **2012**, 51, 13060-8	5.1	7

28	Identifying the local structural units in LaBaMnO and BaYFeO through the neutron pair distribution function. *Dalton Transactions*, **2017**, 46, 1145-1152	4.3	6
27	Cation and anion ordering in Sr2Si7Al3ON13 phosphors. *Journal of Materials Chemistry C*, **2015**, 3, 3135-3140	7.1	6
26	Magnetic properties of some transition-metal Prussian Blue Analogs with composition M3[M?(C,N)6]2□xH2O. *Journal of Science: Advanced Materials and Devices*, **2016**, 1, 113-120	4.2	5
25	Processing of crack-free high density polycrystalline LiTaO3 ceramics. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 3725-3732	2.1	5
24	Multi-scale structural analysis of the A-site and oxygen deficient perovskite SrMoO. *Dalton Transactions*, **2017**, 46, 12466-12473	4.3	4
23	Comparing Magnetism in Isostructural Oxides A0.8La1.2MnO4.1: Anisotropic Spin Glass (A = Ba) versus Long-Range Order (A = Sr). *Chemistry of Materials*, **2019**, 31, 7833-7844	9.6	3
22	Chemical vapor deposition of Mo tubes for fuel cladding applications. *Surface and Coatings Technology*, **2018**, 337, 510-515	4.4	3
21	Comment on □rustrated Octahedral Tilting Distortion in the Incommensurately Modulated Li3xNd2/3□TiO3 Perovskites□*Chemistry of Materials*, **2014**, 26, 1286-1287	9.6	3
20	Slip casting of sol□gel-synthesized barium strontium zirconium titanate ceramics. *Journal of Materials Science*, **2013**, 48, 5788-5800	4.3	3
19	Linking local structure and properties in perovskites containing equal concentrations of manganese and ruthenium. *Physical Review B*, **2011**, 83,	3.3	3
18	Structure and Magnetic Properties of Triclinic Ni0.6Co0.4TiO3 Ilmenite Oxide. *Materials Today: Proceedings*, **2016**, 3, 265-276	1.4	3
17	Pyrolytic Carbon Coating Effects on Oxide and Carbide Kernels Intended for Nuclear Fuel Applications. *Nuclear Technology*, **2020**, 206, 23-31	1.4	3
16	Expanding the Doubly Cation Ordered ''O Perovskite Family: Structural Complexity in NaLaInNbO and NaLaInTaO. *Inorganic Chemistry*, **2019**, 58, 14058-14067	5.1	2
15	Magnetic properties and magnetic structures of TbBaMn2O5.75: Possible observation of unconventional polaron trimers. *Physical Review B*, **2015**, 91,	3.3	2
14	Joining of highly aluminum-doped lanthanum strontium manganese oxide with tetragonal zirconia by plastic deformation. *Solid State Ionics*, **2008**, 179, 550-557	3.3	2
13	Structural complexity in AA?MM?O6 Perovskites. A Transmission Electron Microscopy Study. *Materials Research Society Symposia Proceedings*, **2008**, 1148, 1		2
12	Synergistic effect of Ni-Ag-rutile TiO ternary nanocomposite for efficient visible-light-driven photocatalytic activity.. *RSC Advances*, **2020**, 10, 36930-36940	3.7	2
11	The lower energy diffraction and scattering side-bounce beamline for materials science at the Canadian Light Source. *Journal of Synchrotron Radiation*, **2021**, 28, 961-969	2.4	2

10	New examples of non-cooperative octahedral tilting in a double perovskite: phase transitions in KGaF. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2020**, 76, 789-794	1.8	1
9	In-situ quantification and density functional theory elucidation of phase transformation in carbon steel during quenching and partitioning. *Acta Materialia*, **2021**, 221, 117361	8.4	1
8	Revealing the structures and relationships of Ca(II)Fe(III)AsO4 minerals: arseniosiderite and yukonite. *Environmental Science: Nano*, **2020**, 7, 3735-3745	7.1	1
7	Low-energy Sr2MSbO5.5 (M = Ca and Sr) structures show significant distortions near oxygen vacancies. *International Journal of Quantum Chemistry*, **2020**, 120, e26356	2.1	1
6	Structure and viscosity of CaOAl2O3B2O3BaO slags with varying mass ratio of BaO to CaO. *Journal of the American Ceramic Society*, **2021**, 104, 4505-4517	3.8	1
5	Accelerated microwave-assisted synthesis and in situ X-ray scattering of tungsten-substituted vanadium dioxide (V1WxO2). *Journal of Materials Research*, **2021**, 36, 268-280	2.5	1
4	Accelerated microwave-assisted synthesis and in situ X-ray scattering of tungsten-substituted vanadium dioxide (V1W x O2). *Journal of Materials Research*, **2021**, 36, 1-13	2.5	0
3	Coupled Compositional and Displacive Modulations in KLaMnWO Revealed by Atomic Resolution Imaging. *Journal of the American Chemical Society*, **2021**, 143, 19121-19127	16.4	
2	Polymorphs of RbScF: X-ray and Neutron Diffraction, Solid-State NMR, and Density Functional Theory Calculations Study. *Inorganic Chemistry*, **2021**, 60, 6016-6026	5.1	
1	Magnetism in Mixed Valence, Defect, Cubic Perovskites: BaIn Fe O, = 0.25, 0.50, and 0.75. Local and Average Structures. *ACS Omega*, **2021**, 6, 6017-6029	3.9	