

# 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	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
2	Unveiling Non-isothermal Crystallization of $\text{CaO-Al}_2\text{O}_3\text{-B}_2\text{O}_3\text{-Na}_2\text{O-Li}_2\text{O-SiO}_2$ Glass via <i>In Situ</i> X-ray Scattering and Raman Spectroscopy. <i>Inorganic Chemistry</i> , 2022, 61, 7017-7025.	4.0	7
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	Unveiling nano-scaled chemical inhomogeneity impacts on corrosion of Ce-modified 2507 super-duplex stainless steels. <i>Npj Materials Degradation</i> , 2022, 6, .	5.8	4
5	Accelerated microwave-assisted synthesis and in situ X-ray scattering of tungsten-substituted vanadium dioxide ( $\text{V}_{1-x}\text{W}_x\text{O}_2$ ). <i>Journal of Materials Research</i> , 2021, 36, 268-280.	2.6	3
6	Magnetism in Mixed Valence, Defect, Cubic Perovskites: $\text{Ba}_{1-x}\text{Fe}_x\text{O}_{2.5+\delta}$ , $x = 0.25, 0.50, \text{ and } 0.75$ . Local and Average Structures. <i>ACS Omega</i> , 2021, 6, 6017-6029.	3.5	0
7	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
8	Polymorphs of $\text{Rb}_3\text{ScF}_6$ : X-ray and Neutron Diffraction, Solid-State NMR, and Density Functional Theory Calculations Study. <i>Inorganic Chemistry</i> , 2021, 60, 6016-6026.	4.0	0
9	Structure and viscosity of $\text{CaO-Al}_2\text{O}_3\text{-B}_2\text{O}_3\text{-BaO}$ slags with varying mass ratio of BaO to CaO. <i>Journal of the American Ceramic Society</i> , 2021, 104, 4505-4517.	3.8	13
10	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
11	Family of anisotropic spin glasses $\text{Ba}_{1-x}\text{La}_x\text{MnO}_4$ . <i>Physical Review Materials</i> , 2021, 5, .	2.4	1
12	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
13	Coupled Compositional and Displacive Modulations in $\text{KLaMnWO}_6$ Revealed by Atomic Resolution Imaging. <i>Journal of the American Chemical Society</i> , 2021, 143, 19121-19127.	13.7	1
14	Accelerated microwave-assisted synthesis and in situ X-ray scattering of tungsten-substituted vanadium dioxide ( $\text{V}_{1-x}\text{W}_x\text{O}_2$ ). <i>Journal of Materials Research</i> , 2021, 36, 1-13.	2.6	1
15	In Situ X-Ray Diffraction Study on Hydrate Formation at Low Temperature in a High Vacuum. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26892-26900.	3.1	5
16	Pyrolytic Carbon Coating Effects on Oxide and Carbide Kernels Intended for Nuclear Fuel Applications. <i>Nuclear Technology</i> , 2020, 206, 23-31.	1.2	3
17	Revealing the structures and relationships of $\text{Ca-Fe-AsO}_4$ minerals: arseniosiderite and yukonite. <i>Environmental Science: Nano</i> , 2020, 7, 3735-3745.	4.3	2
18	Synergistic effect of $\text{Ni-Ag}$ rutile $\text{TiO}_2$ ternary nanocomposite for efficient visible-light-driven photocatalytic activity. <i>RSC Advances</i> , 2020, 10, 36930-36940.	3.6	6

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19	Low-energy Sr <sub>2</sub> MSbO <sub>5.5</sub> (M = Ca and Sr) structures show significant distortions near oxygen vacancies. International Journal of Quantum Chemistry, 2020, 120, e26356.	2.0	2
20	New examples of non-cooperative octahedral tilting in a double perovskite: phase transitions in K <sub>3</sub> GaF <sub>6</sub> . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 789-794.	1.1	2
21	Expanding the Doubly Cation Ordered A <sub>2</sub> B <sub>2</sub> O <sub>6</sub> Perovskite Family: Structural Complexity in NaLaInNbO <sub>6</sub> and NaLaInTaO <sub>6</sub> . Inorganic Chemistry, 2019, 58, 14058-14067.	4.0	9
22	Comparing Magnetism in Isostructural Oxides A <sub>0.8</sub> La <sub>1.2</sub> MnO <sub>4.1</sub> : Anisotropic Spin Glass (A = Ba) versus Long-Range Order (A = Sr). Chemistry of Materials, 2019, 31, 7833-7844.	6.7	6
23	Local Structure of Zr(OH) <sub>4</sub> and the Effect of Calcination Temperature from X-ray Pair Distribution Function Analysis. Inorganic Chemistry, 2018, 57, 2797-2803.	4.0	16
24	Chemical vapor deposition of Mo tubes for fuel cladding applications. Surface and Coatings Technology, 2018, 337, 510-515.	4.8	8
25	Icosahedra clustering and short range order in Ni-Nb-Zr amorphous membranes. Scientific Reports, 2018, 8, 6084.	3.3	13
26	Identifying the local structural units in La <sub>0.5</sub> Ba <sub>0.5</sub> MnO <sub>2.5</sub> and BaY <sub>0.25</sub> Fe <sub>0.75</sub> O <sub>2.5</sub> through the neutron pair distribution function. Dalton Transactions, 2017, 46, 1145-1152.	3.3	7
27	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.	2.2	44
28	Multi-scale structural analysis of the A-site and oxygen deficient perovskite Sr <sub>11</sub> Mo <sub>4</sub> O <sub>23</sub> . Dalton Transactions, 2017, 46, 12466-12473.	3.3	5
29	Processing of crack-free high density polycrystalline LiTaO <sub>3</sub> ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 3725-3732.	2.2	6
30	Processing of Transparent Polycrystalline AlON:Ce <sup>3+</sup> Scintillators. Journal of the American Ceramic Society, 2016, 99, 424-430.	3.8	15
31	Structure and Magnetic Properties of Triclinic Ni <sub>0.6</sub> Co <sub>0.4</sub> TiO <sub>3</sub> Ilmenite Oxide. Materials Today: Proceedings, 2016, 3, 265-276.	1.8	3
32	Raman Study of the Structural Distortion in the Ni <sub>1-x</sub> Co <sub>x</sub> TiO <sub>3</sub> Solid Solution. Inorganic Chemistry, 2016, 55, 9436-9444.	4.0	24
33	Revisiting thermodynamics and kinetic diffusivities of uranium-niobium with Bayesian uncertainty analysis. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2016, 55, 219-230.	1.6	46
34	Magnetic properties of some transition-metal Prussian Blue Analogs with composition M[M(C,N)] <sub>x</sub> HO. Journal of Science: Advanced Materials and Devices, 2016, 1, 113-120.	3.1	7
35	Magnetic properties and magnetic structures of TbBaM <sub>2</sub> O <sub>5.75</sub> : Possible observation of unconventional polaron trimers. Physical Review B, 2015, 91, 104411.	3.2	3
36	Inducing Ferrimagnetism in Insulating Hollandite Ba <sub>1.2</sub> Mn <sub>8</sub> O <sub>16</sub> . Chemistry of Materials, 2015, 27, 515-525.	6.7	22

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37	Oxygen-deficient BaTiO <sub>3</sub> perovskite as an efficient bifunctional oxygen electrocatalyst. Nano Energy, 2015, 13, 423-432.	16.0	221
38	Cation and anion ordering in Sr <sub>2</sub> Si <sub>7</sub> Al <sub>3</sub> ON <sub>13</sub> phosphors. Journal of Materials Chemistry C, 2015, 3, 3135-3140.	5.5	8
39	Magnetic and nuclear structure of goethite (̄±-FeOOH): a neutron diffraction study. Journal of Applied Crystallography, 2014, 47, 1983-1991.	4.5	18
40	Structural Determination and Imaging of Charge Ordering and Oxygen Vacancies of the Multifunctional Oxides REBaMn <sub>2</sub> O <sub>6</sub> (RE = Gd, Tb). Advanced Functional Materials, 2014, 24, 2510-2517.	14.9	25
41	Low Temperature Preparation and Electrochemical Properties of LiFeSi <sub>2</sub> O <sub>6</sub> . Journal of the Electrochemical Society, 2014, 161, A1642-A1647.	2.9	10
42	Comment on "Frustrated Octahedral Tilting Distortion in the Incommensurately Modulated Li <sub>3</sub> Nd <sub>2/3</sub> TiO <sub>3</sub> Perovskites". Chemistry of Materials, 2014, 26, 1286-1287.	6.7	3
43	Slip casting of sol-gel-synthesized barium strontium zirconium titanate ceramics. Journal of Materials Science, 2013, 48, 5788-5800.	3.7	4
44	Local structures of Sr <sub>2</sub> FeMnO <sub>5+y</sub> (y=0, 0.5) and Sr <sub>2</sub> Fe <sub>1.5</sub> Cr <sub>0.5</sub> O <sub>5</sub> 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
45	Local structure of the vacancy disordered fluorite Yb <sub>3</sub> TaO <sub>7</sub> from neutron total scattering. Journal of Materials Chemistry A, 2013, 1, 10487.	10.3	24
46	Magnetic transition broadening and local lattice distortion in the negative thermal expansion antiperovskite Cu <sub>1-x</sub> Sn <sub>x</sub> NMn <sub>3</sub> . Applied Physics Letters, 2013, 102, .	3.3	51
47	Drastic Differences between the Local and the Average Structures of Sr <sub>2</sub> MSbO <sub>5.5</sub> (M = Ca, Sr, Ba) Oxygen-Deficient Double Perovskites. Inorganic Chemistry, 2012, 51, 13060-13068.	4.0	7
48	The effect of the B-site cation and oxygen stoichiometry on the local and average crystal and magnetic structures of Sr <sub>2</sub> Fe <sub>1.9</sub> M <sub>0.1</sub> O <sub>5+y</sub> (M = Mn, Cr, Co; y = 0, 0.5). Journal of Materials Chemistry, 2012, 22, 9522.	6.7	19
49	The Incommensurately Modulated Structures of the Perovskites NaCeMnWO <sub>6</sub> and NaPrMnWO <sub>6</sub> . Inorganic Chemistry, 2012, 51, 4007-4014.	4.0	16
50	The structural characterization of (NH <sub>4</sub> ) <sub>2</sub> B <sub>10</sub> H <sub>10</sub> and thermal decomposition studies of (NH <sub>4</sub> ) <sub>2</sub> B <sub>10</sub> H <sub>10</sub> and (NH <sub>4</sub> ) <sub>2</sub> B <sub>12</sub> H <sub>12</sub> . International Journal of Hydrogen Energy, 2012, 37, 4267-4273.	7.1	12
51	Spontaneous Superlattice Formation in the Doubly Ordered Perovskite KLaMnWO <sub>6</sub> . Chemistry of Materials, 2011, 23, 163-170.	6.7	32
52	Short-Range Layered A-Site Ordering in Double Perovskites NaLaBB <sub>2</sub> O <sub>6</sub> (B = Mn, Fe; B <sup>2+</sup> = Nb,) Tj ETQq 0 0 ,rgBT /Over 6.7 26	6.7	26
53	The High-Temperature Polymorphs of K <sub>3</sub> AlF <sub>6</sub> . Inorganic Chemistry, 2011, 50, 7792-7801.	4.0	31
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	Cation ordering in perovskites. <i>Journal of Materials Chemistry</i> , 2010, 20, 5785.	6.7	564
56	A Simple and Efficient Way to Synthesize Unsolvated Sodium Octahydrotriborate. <i>Inorganic Chemistry</i> , 2010, 49, 8185-8187.	4.0	41
57	Crystal Structure and Phase Transitions in $\text{Sr}_3\text{WO}_6$ . <i>Inorganic Chemistry</i> , 2010, 49, 6058-6065.	4.0	33
58	Magnetic structures of $\text{Na}_x\text{Mn}_y\text{L}_z\text{WO}_6$		