

Graham King

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Linker-Compensated Metal-Organic Framework with Electron Delocalized Metal Sites for Bifunctional Oxygen Electrocatalysis.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	10
62	Coupled Compositional and Displacive Modulations in KLaMnWO Revealed by Atomic Resolution Imaging. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19121-19127	16.4	
61	Accelerated microwave-assisted synthesis and in situ X-ray scattering of tungsten-substituted vanadium dioxide (V _{1-x} W _x O ₂). <i>Journal of Materials Research</i> , 2021 , 36, 1-13	2.5	0
60	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	8.4	1
59	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	2
58	Polymorphs of RbScF: X-ray and Neutron Diffraction, Solid-State NMR, and Density Functional Theory Calculations Study. <i>Inorganic Chemistry</i> , 2021 , 60, 6016-6026	5.1	
57	Structure and viscosity of CaO/Al ₂ O ₃ /B ₂ O ₃ /BaO slags with varying mass ratio of BaO to CaO. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4505-4517	3.8	1
56	General synthesis of single-atom catalysts with high metal loading using graphene quantum dots. <i>Nature Chemistry</i> , 2021 , 13, 887-894	17.6	86
55	Accelerated microwave-assisted synthesis and in situ X-ray scattering of tungsten-substituted vanadium dioxide (V _{1-x} W _x O ₂). <i>Journal of Materials Research</i> , 2021 , 36, 268-280	2.5	1
54	Magnetism in Mixed Valence, Defect, Cubic Perovskites: Ba _{1-x} Fe _x O ₃ , x = 0.25, 0.50, and 0.75. Local and Average Structures. <i>ACS Omega</i> , 2021 , 6, 6017-6029	3.9	
53	New examples of non-cooperative octahedral tilting in a double perovskite: phase transitions in KGaF. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020 , 76, 789-794	1.8	1
52	Revealing the structures and relationships of Ca(II)Be(III)AsO ₄ minerals: arseniosiderite and yukonite. <i>Environmental Science: Nano</i> , 2020 , 7, 3735-3745	7.1	1
51	Synergistic effect of Ni-Ag-rutile TiO ₂ ternary nanocomposite for efficient visible-light-driven photocatalytic activity.. <i>RSC Advances</i> , 2020 , 10, 36930-36940	3.7	2
50	Low-energy Sr ₂ MSbO _{5.5} (M = Ca and Sr) structures show significant distortions near oxygen vacancies. <i>International Journal of Quantum Chemistry</i> , 2020 , 120, e26356	2.1	1
49	Pyrolytic Carbon Coating Effects on Oxide and Carbide Kernels Intended for Nuclear Fuel Applications. <i>Nuclear Technology</i> , 2020 , 206, 23-31	1.4	3
48	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). <i>Chemistry of Materials</i> , 2019 , 31, 7833-7844	9.6	3
47	Expanding the Doubly Cation Ordered "O Perovskite Family: Structural Complexity in NaLaInNbO and NaLaInTaO. <i>Inorganic Chemistry</i> , 2019 , 58, 14058-14067	5.1	2

46	Local Structure of Zr(OH) and the Effect of Calcination Temperature from X-ray Pair Distribution Function Analysis. <i>Inorganic Chemistry</i> , 2018 , 57, 2797-2803	5.1	12
45	Chemical vapor deposition of Mo tubes for fuel cladding applications. <i>Surface and Coatings Technology</i> , 2018 , 337, 510-515	4.4	3
44	Icosahedra clustering and short range order in Ni-Nb-Zr amorphous membranes. <i>Scientific Reports</i> , 2018 , 8, 6084	4.9	9
43	Identifying the local structural units in LaBaMnO and BaYFeO through the neutron pair distribution function. <i>Dalton Transactions</i> , 2017 , 46, 1145-1152	4.3	6
42	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	2.3	34
41	Multi-scale structural analysis of the A-site and oxygen deficient perovskite SrMoO. <i>Dalton Transactions</i> , 2017 , 46, 12466-12473	4.3	4
40	Processing of crack-free high density polycrystalline LiTaO ₃ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 3725-3732	2.1	5
39	Magnetic properties of some transition-metal Prussian Blue Analogs with composition M ₃ [M'(C,N) ₆]2·xH ₂ O. <i>Journal of Science: Advanced Materials and Devices</i> , 2016 , 1, 113-120	4.2	5
38	Processing of Transparent Polycrystalline AlON:Ce ³⁺ Scintillators. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 424-430	3.8	8
37	Structure and Magnetic Properties of Triclinic Ni _{0.6} Co _{0.4} TiO ₃ Ilmenite Oxide. <i>Materials Today: Proceedings</i> , 2016 , 3, 265-276	1.4	3
36	Raman Study of the Structural Distortion in the Ni _{1-x} Co _x TiO ₃ Solid Solution. <i>Inorganic Chemistry</i> , 2016 , 55, 9436-44	5.1	19
35	Revisiting thermodynamics and kinetic diffusivities of uranium/bismuth with Bayesian uncertainty analysis. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2016 , 55, 219-230	1.9	38
34	Oxygen-deficient BaTiO ₃ perovskite as an efficient bifunctional oxygen electrocatalyst. <i>Nano Energy</i> , 2015 , 13, 423-432	17.1	168
33	Cation and anion ordering in Sr ₂ Si ₇ Al ₃ O ₁₃ phosphors. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3135-3140	3.4	6
32	Magnetic properties and magnetic structures of TbBaMn ₂ O _{5.75} : Possible observation of unconventional polaron trimers. <i>Physical Review B</i> , 2015 , 91,	3.3	2
31	Inducing Ferrimagnetism in Insulating Hollandite Ba _{1.2} Mn ₈ O ₁₆ . <i>Chemistry of Materials</i> , 2015 , 27, 515-525	5.6	17
30	Structural Determination and Imaging of Charge Ordering and Oxygen Vacancies of the Multifunctional Oxides REBaMn ₂ O ₆ - δ (RE = Gd, Tb). <i>Advanced Functional Materials</i> , 2014 , 24, 2510-2517	15.6	21
29	Low Temperature Preparation and Electrochemical Properties of LiFeSi ₂ O ₆ . <i>Journal of the Electrochemical Society</i> , 2014 , 161, A1642-A1647	3.9	8

28	Comment on Frustrated Octahedral Tilting Distortion in the Incommensurately Modulated $\text{Li}_3\text{xNd}_{2/3}\text{xTiO}_3$ Perovskites <i>Chemistry of Materials</i> , 2014 , 26, 1286-1287	9.6	3
27	Magnetic and nuclear structure of goethite (FeOOH): a neutron diffraction study. <i>Journal of Applied Crystallography</i> , 2014 , 47, 1983-1991	3.8	13
26	Slip casting of sol-gel-synthesized barium strontium zirconium titanate ceramics. <i>Journal of Materials Science</i> , 2013 , 48, 5788-5800	4.3	3
25	Local structures of $\text{Sr}_2\text{FeMnO}_{5+y}$ ($y=0, 0.5$) and $\text{Sr}_2\text{Fe}_{1.5}\text{Cr}_{0.5}\text{O}_5$ from reverse Monte Carlo modeling of pair distribution function data and implications for magnetic order. <i>Journal of Solid State Chemistry</i> , 2013 , 198, 407-415	3.3	10
24	Local structure of the vacancy disordered fluorite Yb_3TaO_7 from neutron total scattering. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10487	13	20
23	Magnetic transition broadening and local lattice distortion in the negative thermal expansion antiperovskite $\text{Cu}_{1-x}\text{Sn}_x\text{NMn}_3$. <i>Applied Physics Letters</i> , 2013 , 102, 041908	3.4	45
22	Drastic differences between the local and the average structures of $\text{Sr}_2\text{MSbO}_{5.5}$ ($M = \text{Ca, Sr, Ba}$) oxygen-deficient double perovskites. <i>Inorganic Chemistry</i> , 2012 , 51, 13060-8	5.1	7
21	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		17
20	The incommensurately modulated structures of the perovskites NaCeMnWO_6 and NaPrMnWO_6 . <i>Inorganic Chemistry</i> , 2012 , 51, 4007-14	5.1	12
19	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	6.7	11
18	Spontaneous Superlattice Formation in the Doubly Ordered Perovskite KLaMnWO_6 . <i>Chemistry of Materials</i> , 2011 , 23, 163-170	9.6	28
17	Short-Range Layered A-Site Ordering in Double Perovskites $\text{NaLaBB}'\text{O}_6$ ($B = \text{Mn, Fe}; B' = \text{Nb, Ta}$). <i>Chemistry of Materials</i> , 2011 , 23, 2398-2406	9.6	15
16	The high-temperature polymorphs of K_3AlF_6 . <i>Inorganic Chemistry</i> , 2011 , 50, 7792-801	5.1	26
15	Linking local structure and properties in perovskites containing equal concentrations of manganese and ruthenium. <i>Physical Review B</i> , 2011 , 83,	3.3	3
14	A simple and efficient way to synthesize unsolvated sodium octahydrotriborate. <i>Inorganic Chemistry</i> , 2010 , 49, 8185-7	5.1	40
13	Crystal structure and phase transitions in Sr_3WO_6 . <i>Inorganic Chemistry</i> , 2010 , 49, 6058-65	5.1	28
12	Cation ordering in perovskites. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5785		428
11	Magnetic structures of NaLMnWO_6 perovskites ($L=\text{La,Nd,Tb}$). <i>Physical Review B</i> , 2009 , 79,	3.3	28

10	Octahedral tilt twinning and compositional modulation in NaLaMgWO ₆ . <i>Acta Crystallographica Section B: Structural Science</i> , 2009 , 65, 676-83		22
9	Magnetic and structural properties of NaLnMnWO ₆ and NaLnMgWO ₆ perovskites. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 1319-1325	3.3	52
8	The crystal structure of alpha-K ₃ AlF ₆ : elpasolites and double perovskites with broken corner-sharing connectivity of the octahedral framework. <i>Inorganic Chemistry</i> , 2009 , 48, 9336-44	5.1	26
7	Joining of highly aluminum-doped lanthanum strontium manganese oxide with tetragonal zirconia by plastic deformation. <i>Solid State Ionics</i> , 2008 , 179, 550-557	3.3	2
6	Transmission electron microscopy studies of NaLaMgWO ₆ : spontaneous formation of compositionally modulated stripes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15028-37	16.4	40
5	Structural complexity in AA ₂ MM ₂ O ₆ Perovskites. A Transmission Electron Microscopy Study. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1148, 1		2
4	Structure-function studies of modular aromatics that form molecular organogels. <i>Journal of Organic Chemistry</i> , 2007 , 72, 7270-8	4.2	61
3	Synthesis and Characterization of New AA ₂ BWO ₆ Perovskites Exhibiting Simultaneous Ordering of A-Site and B-Site Cations. <i>Chemistry of Materials</i> , 2007 , 19, 6451-6458	9.6	95
2	Photoinduced oxygen transfer and double-linkage isomerism in a cis-(NO)(NO ₂) transition-metal complex by photocrystallography, FT-IR spectroscopy and DFT calculations. <i>Chemistry - A European Journal</i> , 2005 , 11, 7254-64	4.8	65
1	Two novel bis(2,9-dimethyl-1,10-phenanthroline)copper(I) complexes: [Cu(dmp) ₂] ₂ (PF ₆) ₂ ·0.5(bpmh)·CH ₃ CN and [Cu(dmp) ₂][N(CN) ₂]. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2005 , 61, m329-32		10