

Simon A J Kimber

List of Publications by Year in descending order

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63
papers

3,782
citations

159358

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123241

61
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67
all docs

67
docs citations

67
times ranked

5594
citing authors

#	ARTICLE	IF	CITATIONS
1	Decoupling Lattice and Magnetic Instabilities in Frustrated CuMnO_2 . <i>Inorganic Chemistry</i> , 2021, 60, 6004-6015.	1.9	7
2	$\text{Nb}_6\text{Mn}_2\text{B}_8$ ($x = 0.25$): A Ferrimagnetic Boride Containing Planar B_6 Rings Interacting with Ferromagnetic Mn Chains. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13635-13640.	1.5	1
3	Colossal Density-Driven Resistance Response in the Negative Charge Transfer Insulator MnS_2 . <i>Physical Review Letters</i> , 2021, 127, 016401.	2.9	11
4	Real-Time Observation of Magic-Size Clusters during Hydrolysis of the Model Metallodrug Bismuth Disalicylate. <i>Journal of the American Chemical Society</i> , 2021, 143, 16332-16336.	6.6	5
5	ID15A at the ESRF a beamline for high speed X-ray diffraction, diffraction tomography and total scattering. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 515-528.	1.0	85
6	Spin-chain correlations in the frustrated triangular lattice material CuMnO_2 . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 445802.	0.7	2
7	Co-emergence of magnetic order and structural fluctuations in magnetite. <i>Nature Communications</i> , 2019, 10, 2857.	5.8	43
8	Electronic origins of the giant volume collapse in the pyrite mineral MnS_2 . <i>Journal of Solid State Chemistry</i> , 2019, 269, 540-546.	1.4	7
9	Orbital Molecules in the New Spinel GaV_2O_4 . <i>Inorganic Chemistry</i> , 2018, 57, 2815-2822.	1.9	14
10	A neutron tomography study: probing the spontaneous crystallization of randomly packed granular assemblies. <i>Scientific Reports</i> , 2018, 8, 17637.	1.6	5
11	Real-Time Scattering-Contrast Imaging of a Supported Cobalt-Based Catalyst Body during Activation and Fischer-Tropsch Synthesis Revealing Spatial Dependence of Particle Size and Phase on Catalytic Properties. <i>ACS Catalysis</i> , 2017, 7, 2284-2293.	5.5	54
12	Challenges of Mechanochemistry: Is In Situ Real-Time Quantitative Phase Analysis Always Reliable? A Case Study of Organic Salt Formation. <i>Advanced Science</i> , 2017, 4, 1700132.	5.6	50
13	Persistent three- and four-atom orbital molecules in the spinel Al_2VO_4 . <i>Physical Review Materials</i> , 2017, 1, 014001.	0.9	30
14	Nanoscale order in the frustrated mixed conductor $\text{La}_{5.6}\text{WO}_{12}$. <i>Journal of Applied Crystallography</i> , 2016, 49, 997-1008.	1.9	15
15	Effect of delithiation on the dimer transition of the honeycomb-lattice ruthenate $\text{Li}_2\text{Mn}_2\text{O}_7$. <i>Physical Review B</i> , 2016, 94, .	1.1	9
16	Experimental observation and computational study of the spin-gap excitation in $\text{Ba}_3\text{BiRu}_2\text{O}_9$. <i>Physical Review B</i> , 2016, 94, .	1.1	9
17	In Situ Monitoring and Mechanism of the Mechanochemical Formation of a Microporous MOF-74 Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 2929-2932.	6.6	194
18	The evolution of crystalline ordering for ligand-ornamented zinc oxide nanoparticles. <i>CrystEngComm</i> , 2016, 18, 2163-2172.	1.3	11

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19	Synchrotron X-Ray Scattering as a Tool for Characterising Catalysts on Multiple Length Scales. Oil and Gas Science and Technology, 2015, 70, 429-436.	1.4	2
20	Spin-driven symmetry breaking in the frustrated fcc pyrite MnS ₂ . Journal of Physics Condensed Matter, 2015, 27, 226003.	0.7	8
21	Magnetic structure of the quasi-two-dimensional antiferromagnet NiPS_3 . Physical Review B, 2015, 92, .	1.6	16
22	Universal solvent restructuring induced by colloidal nanoparticles. Science, 2015, 347, 292-294.	6.0	172
23	In situ X-ray diffraction monitoring of a mechanochemical reaction reveals a unique topology metal-organic framework. Nature Communications, 2015, 6, 6662.	5.8	294
24	High-Pressure Annealing of a Prestructured Nanocrystalline Precursor to Obtain Tetragonal and Orthorhombic Polymorphs of Hf_3N_4 . Materials Research Society Symposia Proceedings, 2014, 1655, 1.	0.1	1
25	Crystal structure transformation in CeRuSn seen via the atomic pair distribution function. Physical Review B, 2014, 89, .	1.1	8
26	Valence bond liquid phase in the honeycomb lattice material Li_2RuO_3 . Physical Review B, 2014, 89, .	1.1	92
27	Quantitative in situ and real-time monitoring of mechanochemical reactions. Faraday Discussions, 2014, 170, 203-221.	1.6	73
28	Bulk Metallic Glass-like Scattering Signal in Small Metallic Nanoparticles. ACS Nano, 2014, 8, 6163-6170.	7.3	26
29	Giant pressure-induced volume collapse in the pyrite mineral MnS_2 . Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5106-5110.	3.3	37
30	Magnetoelastic effects in multiferroic HoMnO_3 . Solid State Communications, 2014, 180, 46-51.	0.9	4
31	In situ and real-time monitoring of mechanochemical milling reactions using synchrotron X-ray diffraction. Nature Protocols, 2013, 8, 1718-1729.	5.5	132
32	Pair distribution function computed tomography. Nature Communications, 2013, 4, 2536.	5.8	96
33	Real-time In situ Powder X-ray Diffraction Monitoring of Mechanochemical Synthesis of Pharmaceutical Cocrystals. Angewandte Chemie - International Edition, 2013, 52, 11538-11541.	7.2	141
34	Mechanical double loop behavior in BaTiO_3 : Stress induced paraelastic to ferroelastic phase transformation. Applied Physics Letters, 2013, 103, .	1.5	19
35	Real-time and in situ monitoring of mechanochemical milling reactions. Nature Chemistry, 2013, 5, 66-73.	6.6	493
36	Spin orders and lattice distortions of geometrically frustrated 6H-perovskites $\text{Ba}_2\text{O}_2\text{M}_2\text{O}_7$. Physical Review B, 2013, 87, 080401.	1.1	10

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37	Synthesis of Tetragonal and Orthorhombic Polymorphs of Hf_3N_4 by High-Pressure Annealing of a Prestructured Nanocrystalline Precursor. <i>Journal of the American Chemical Society</i> , 2013, 135, 9503-9511.	6.6	40
38	Structure and paramagnetism in weakly correlated Y_8Co_5 . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 125701.	0.7	3
39	Possible high-pressure orbital quantum criticality and an emergent resistive phase in PbRuO_3 . <i>Physical Review B</i> , 2013, 87, .	1.1	7
40	Charge and orbital order in frustrated $\text{Pb}_3\text{Mn}_7\text{O}_{15}$. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 186002.	0.7	6
41	Negative thermal expansion and antiferromagnetism in the actinide oxynictide NpFeAsO . <i>Physical Review B</i> , 2012, 85, .	1.1	34
42	Coexistence of long- and short-range magnetic order in the frustrated magnet SrYb_2O_4 . <i>Physical Review Letters</i> , 2012, 109, 217205.	1.1	34
43	Charge Order and the Interface between the Molecular and the Solid States in $\text{Ba}_3\text{Ru}_2\text{O}_9$. <i>Physical Review Letters</i> , 2012, 109, 217205.	1.1	34
44	An eigenstrain-based finite element model and the evolution of shot peening residual stresses during fatigue of GW103 magnesium alloy. <i>International Journal of Fatigue</i> , 2012, 42, 284-295.	2.8	51
45	Helical magnetic order in the distorted triangular antiferromagnet CaCr_2O_7 . <i>Physical Review Letters</i> , 2011, 107, 077201.	1.1	25
46	Quasiparticle interference in antiferromagnetic parent compounds of iron-based superconductors. <i>Physical Review B</i> , 2011, 83, .	1.1	11
47	Metamagnetism and soliton excitations in the modulated ferromagnetic Ising chain CoV_2O_6 . <i>Physical Review B</i> , 2011, 84, .	1.1	39
48	Polymorphism and piezochromicity in the three-dimensional network-based phosphate RbCuPO_4 . <i>Acta Crystallographica Section B: Structural Science</i> , 2010, 66, 412-421.	1.8	6
49	From $(\Gamma, 0)$ magnetic order to superconductivity with (Γ, Γ) magnetic resonance in $\text{Fe}_{1.02}\text{Te}_{1-x}\text{S}_x$. <i>Nature Materials</i> , 2010, 9, 718-720.	13.3	248
50	Local moments and symmetry breaking in metallic PrMnSbO . <i>Physical Review B</i> , 2010, 82, .	1.1	33
51	Interlayer tuning of electronic and magnetic properties in honeycomb ordered $\text{Ag}_3\text{LiRu}_2\text{O}_6$. <i>Journal of Materials Chemistry</i> , 2010, 20, 8021.	6.7	28
52	Suppression of antiferromagnetic spin fluctuations in the collapsed phase of CaFe_2As_2 . <i>Physical Review B</i> , 2009, 79, .	1.1	61
53	Similarities between structural distortions under pressure and chemical doping in superconducting BaFe_2As_2 . <i>Nature Materials</i> , 2009, 8, 471-475.	13.3	266
54	Lattice collapse and quenching of magnetism in CaFe_2As_2 under pressure: A single-crystal neutron and x-ray diffraction investigation. <i>Physical Review B</i> , 2009, 79, .	1.1	164

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55	Metal-Insulator Transition and Orbital Order in PbRuO_3 . <i>Physical Review B</i> , 2008, 77, .	2.9	50
56	Triplet dimerization crossover driven by magnetic frustration in $\text{In}_2\text{V}_2\text{O}_5$. <i>Physical Review B</i> , 2008, 77, .	1.1	5
57	Quasi-Elastic Neutron Scattering Studies on Clay Interlayer-Space Highlighting the Effect of the Cation in Confined Water Dynamics. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13982-13991.	1.5	87
58	Magnetic ordering and negative thermal expansion in PrFeAsO . <i>Physical Review B</i> , 2008, 78, .	1.1	94
59	Disrupted antiferromagnetism in the brannerite MnV_2O_6 . <i>Physical Review B</i> , 2007, 75, .	1.1	19
60	Induced antiferromagnetism and large magnetoresistance in $\text{RuSr}_2(\text{Nd,Y,Ce})_2\text{Cu}_2\text{O}_{10}$ ruthenocuprates. <i>Physical Review B</i> , 2007, 76, .	1.1	11
61	Magnetic order in acentric Pb_2MnO_4 . <i>Journal of Materials Chemistry</i> , 2007, 17, 4885.	6.7	13
62	Chemical Tuning of Positive and Negative Magnetoresistances, and Superconductivity in 1222-Type Ruthenocuprates. <i>Journal of the American Chemical Society</i> , 2006, 128, 12364-12365.	6.6	16
63	High pressure neutron diffraction study of the magnetoresistive 1222-type ruthenocuprate, $\text{RuSr}_2\text{Nd}_{0.9}\text{Y}_{0.2}\text{Ce}_{0.9}\text{Cu}_2\text{O}_{10}$. <i>Materials Research Bulletin</i> , 2006, 41, 1001-1007.	2.7	1