

Tom Baikie

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56
papers

6,257
citations

24
h-index

60
g-index

60
ext. papers

7,020
ext. citations

7.8
avg, IF

5.49
L-index

#	Paper	IF	Citations
56	Synthesis and crystal chemistry of the hybrid perovskite (CH ₃ NH ₃)PbI ₃ for solid-state sensitised solar cell applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5628	13	1972
55	Lead-free halide perovskite solar cells with high photocurrents realized through vacancy modulation. <i>Advanced Materials</i> , 2014 , 26, 7122-7	24	737
54	Lead-free germanium iodide perovskite materials for photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23829-23832	13	569
53	Formamidinium-Containing Metal-Halide: An Alternative Material for Near-IR Absorption Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16458-16462	3.8	554
52	Band-gap tuning of lead halide perovskites using a sequential deposition process. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9221-9225	13	398
51	Lead-Free MA ₂ CuCl(x)Br(4-x) Hybrid Perovskites. <i>Inorganic Chemistry</i> , 2016 , 55, 1044-52	5.1	345
50	Impact of Anionic Br ⁻ Substitution on Open Circuit Voltage in Lead Free Perovskite (CsSnI _{3-x} Br _x) Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1763-1767	3.8	263
49	A combined single crystal neutron/X-ray diffraction and solid-state nuclear magnetic resonance study of the hybrid perovskites CH ₃ NH ₃ PbX ₃ (X = I, Br and Cl). <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9298-9307	13	216
48	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6540-4	16.4	131
47	Hierarchical Porous LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Nano-/Micro Spherical Cathode Material: Minimized Cation Mixing and Improved Li(+) Mobility for Enhanced Electrochemical Performance. <i>Scientific Reports</i> , 2016 , 6, 25771	4.9	122
46	Understanding the synthetic pathway of a single-phase quaternary semiconductor using surface-enhanced Raman scattering: a case of wurtzite Cu ₂ InSnS ₄ nanoparticles. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6684-92	16.4	112
45	Spinel CoO nanomaterials for efficient and stable large area carbon-based printed perovskite solar cells. <i>Nanoscale</i> , 2018 , 10, 2341-2350	7.7	70
44	Incorporation of Cl into sequentially deposited lead halide perovskite films for highly efficient mesoporous solar cells. <i>Nanoscale</i> , 2014 , 6, 13854-60	7.7	70
43	Phase Transitions of Formamidinium Lead Iodide Perovskite under Pressure. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13952-13957	16.4	59
42	Superior Performance of Silver Bismuth Iodide Photovoltaics Fabricated via Dynamic Hot-Casting Method under Ambient Conditions. <i>Advanced Energy Materials</i> , 2018 , 8, 1802051	21.8	48
41	Photovoltaic effect in earth abundant solution processed Cu ₂ MnSnS ₄ and Cu ₂ MnSn(S,Se) ₄ thin films. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 157, 867-873	6.4	37
40	Triclinic apatites. <i>Acta Crystallographica Section B: Structural Science</i> , 2007 , 63, 251-6		35

39	Cu-doped nickel oxide interface layer with nanoscale thickness for efficient and highly stable printable carbon-based perovskite solar cell. <i>Solar Energy</i> , 2019 , 182, 225-236	6.8	32
38	Strategies for the Optimisation of the Oxide Ion Conductivities of Apatite-Type Germanates. <i>Fuel Cells</i> , 2011 , 11, 10-16	2.9	31
37	The crystal chemistry of the alkaline-earth apatites $A_{10}(PO_4)_6Cu_xO_y(H)_z$ (A = Ca, Sr and Ba). <i>Dalton Transactions</i> , 2009 , 6722-6	4.3	30
36	Five-dimensional incommensurate structure of the melilite electrolyte $[CaNd]_2[Ga]_2[Ga_2O_7]_2$. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15200-11	16.4	28
35	Polysomatic apatites. <i>Acta Crystallographica Section B: Structural Science</i> , 2010 , 66, 1-16		28
34	Correlation of Local Structure and Diffusion Pathways in the Modulated Anisotropic Oxide Ion Conductor $CeNbO_{4.25}$. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1273-9	16.4	25
33	The crystallographic and magnetic characteristics of Sr_2CrO_4 (K ₂ NiF ₄ -type) and $Sr_{10}(CrO_4)_6F_2$ (apatite-type). <i>Journal of Solid State Chemistry</i> , 2007 , 180, 1538-1546	3.3	24
32	Effect of Formamidinium/Cesium Substitution and Pbi on the Long-Term Stability of Triple-Cation Perovskites. <i>ChemSusChem</i> , 2017 , 10, 3804-3809	8.3	22
31	Apatite metaprism twist angle (θ) as a tool for crystallochemical diagnosis. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 2978-2986	3.3	21
30	Anisotropic oxide ion conduction in melilite intermediate temperature electrolytes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3091-3096	13	18
29	Crystallographic Correlations with Anisotropic Oxide Ion Conduction in Aluminum-Doped Neodymium Silicate Apatite Electrolytes. <i>Chemistry of Materials</i> , 2013 , 25, 1109-1120	9.6	18
28	Fergusonite-type $CeNbO_4$ —Single crystal growth, symmetry revision and conductivity. <i>Journal of Solid State Chemistry</i> , 2013 , 204, 291-297	3.3	17
27	Revealing Cation-Exchange-Induced Phase Transformations in Multielemental Chalcogenide Nanoparticles. <i>Chemistry of Materials</i> , 2017 , 29, 9192-9199	9.6	16
26	Crystal chemistry of melilite $[CaLa]_2[Ga]_2[Ga_2O_7]_2$: a five dimensional solid electrolyte. <i>Inorganic Chemistry</i> , 2012 , 51, 5941-9	5.1	15
25	Crystal chemistry and optimization of conductivity in 2A, 2M and 2H alkaline earth lanthanum germanate oxyapatite electrolyte polymorphs. <i>Solid State Ionics</i> , 2010 , 181, 1189-1196	3.3	15
24	Pseudomorphic 2A→2M→2H phase transitions in lanthanum strontium germanate electrolyte apatites. <i>Dalton Transactions</i> , 2009 , 8280-91	4.3	14
23	Hydrothermal synthesis, structure investigation, and oxide ion conductivity of mixed Si/Ge-based apatite-type phases. <i>Inorganic Chemistry</i> , 2014 , 53, 4803-12	5.1	13
22	Investigating the feasibility of symmetric guanidinium based plumbate perovskites in prototype solar cell devices. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 08MC05	1.4	13

21	Interstitial Oxide Ion Distribution and Transport Mechanism in Aluminum-Doped Neodymium Silicate Apatite Electrolytes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4468-83	16.4	12
20	Structure and Thermal Expansion of Calcium-Thorium Apatite, $[Ca_4]F[Ca_2Th_4]T[(SiO_4)_6]O_2$. <i>Inorganic Chemistry</i> , 2015 , 54, 11356-61	5.1	12
19	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. <i>Angewandte Chemie</i> , 2016 , 128, 6650-6654	3.6	11
18	Crystal Chemistry and Antibacterial Properties of Cupriferous Hydroxyapatite. <i>Materials</i> , 2019 , 12,	3.5	11
17	Crystal chemistry of mimetite, $Pb_{10}(AsO_4)_6Cl_{1.48}O_{0.26}$, and finnemanite, $Pb_{10}(AsO_3)_6Cl_2$. <i>Acta Crystallographica Section B: Structural Science</i> , 2008 , 64, 34-41		11
16	Hybrid Nanomaterials with Single-Site Catalysts by Spatially Controllable Immobilization of Nickel Complexes via Photoclick Chemistry for Alkene Epoxidation. <i>ACS Nano</i> , 2018 , 12, 5903-5912	16.7	11
15	Catalytic effect of Bi 5+ in enhanced solar water splitting of tetragonal $BiV_{0.8}Mo_{0.2}O_4$. <i>Applied Catalysis A: General</i> , 2016 , 526, 21-27	5.1	10
14	Single crystal growth of apatite-type Al-doped neodymium silicates by the floating zone method. <i>Journal of Crystal Growth</i> , 2011 , 333, 70-73	1.6	9
13	Defects in the new oxide-fluoride $Ba_2PdO_2F_2$: the search for fluoride needles in an oxide haystack. <i>Journal of Materials Chemistry</i> , 2005 , 15, 119		9
12	A multi-domain gem-grade Brazilian apatite. <i>American Mineralogist</i> , 2012 , 97, 1574-1581	2.9	8
11	Structural study of the apatite $Nd_8Sr_2O_{26}$ by Laue neutron diffraction and single-crystal Raman spectroscopy. <i>Inorganic Chemistry</i> , 2014 , 53, 9416-23	5.1	7
10	Crystal Chemical Analysis of $Nd_{9.33}Si_6O_{26}$ and $Nd_8Sr_2Si_6O_{26}$ Apatite Electrolytes Using Aberration-Corrected Scanning Transmission Electron Microscopy and Impedance Spectroscopy. <i>Chemistry of Materials</i> , 2015 , 27, 1217-1222	9.6	7
9	Synthesis and characterisation of vanadium doped alkaline earth lanthanum germanate oxyapatite electrolyte. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2658-2669		5
8	Ex situ XAS investigation of effect of binders on electrochemical performance of $Li_2Fe(SO_4)_2$ cathode. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19963-19971	13	4
7	Structural, Thermal, and Electrochemical Studies of Novel $Li_2Co_xMn_{1-x}(SO_4)_2$ Bimetallic Sulfates. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24971-24978	3.8	3
6	Pressure-Induced Phase Transitions and Bandgap-Tuning Effect of Methylammonium Lead Iodide Perovskite. <i>MRS Advances</i> , 2018 , 3, 1825-1830	0.7	3
5	Observation of atomic scale compositional and displacive modulations in incommensurate melilite electrolytes. <i>Journal of Solid State Chemistry</i> , 2013 , 203, 291-296	3.3	2
4	Oxygen Migration in Dense Spark Plasma Sintered Aluminum-Doped Neodymium Silicate Apatite Electrolytes. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3457-3462	3.8	2

3	Synthesis and Characterization of Apatite Wasteforms Using Simulated Radioactive Liquid Waste. <i>Chemistry Letters</i> , 2019 , 48, 881-884	1.7	1
2	Molecular design of two-dimensional perovskite cations for efficient energy cascade in perovskite light-emitting diodes. <i>Applied Physics Letters</i> , 2021 , 119, 154101	3.4	1
1	Electronic and Geometric Structures of Rechargeable Lithium Manganese Sulfate LiMn(SO) Cathode. <i>ACS Omega</i> , 2019 , 4, 11338-11345	3.9	0