

Abbie C Mclaughlin

List of Publications by Year in descending order

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papers

1,552
citations

361413

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66
docs citations

66
times ranked

1323
citing authors

#	ARTICLE	IF	CITATIONS
1	Variable Temperature Neutron Diffraction Study of the Oxide Ion Conductor Ba ₃ VVO _{8.5} . Inorganic Chemistry, 2022, 61, 1597-1602.	4.0	7
2	Electronic phase separation in the hexagonal perovskite Ba_3VO_9 . Physical Review Materials, 2022, 6, .	2.4	2
3	A pressure induced reversal to the 9R perovskite in Ba ₃ MoNbO _{8.5} . Journal of Materials Chemistry A, 2021, 9, 6567-6574.	10.3	2
4	Hydration and Ionic Conduction Mechanisms of Hexagonal Perovskite Derivatives. Chemistry of Materials, 2021, 33, 4651-4660.	6.7	28
5	Investigation of the Crystal Structure and Ionic Pathways of the Hexagonal Perovskite Derivative Ba ₃ VMoO _{8.5} . Inorganic Chemistry, 2021, 60, 13550-13556.	4.0	5
6	The relationship between oxide-ion conductivity and cation vacancy order in the hybrid hexagonal perovskite Ba ₃ VVO _{8.5} . Journal of Materials Chemistry A, 2020, 8, 16506-16514.	10.3	24
7	Electronic and Magnetic Properties of Cation Ordered Sr ₂ Mn _{2.23} Cr _{0.77} As ₂ O ₂ . Inorganic Chemistry, 2020, 59, 7553-7560.	4.0	4
8	Enhanced Oxygen Ion Conductivity and Mechanistic Understanding in Ba ₃ Nb _{1-x} V _x MoO _{8.5} . Chemistry of Materials, 2020, 32, 4724-4733.	6.7	40
9	High oxide ion and proton conductivity in a disordered hexagonal perovskite. Nature Materials, 2020, 19, 752-757.	27.5	125
10	Hexagonal perovskite derivatives: a new direction in the design of oxide ion conducting materials. Chemical Communications, 2019, 55, 2127-2137.	4.1	55
11	Hexagonal perovskite related oxide ion conductor Ba ₃ NbMoO _{8.5} : phase transition, temperature evolution of the local structure and properties. Journal of Materials Chemistry A, 2019, 7, 25503-25510.	10.3	22
12	The crystal structure and electrical properties of the oxide ion conductor Ba ₃ WNbO _{8.5} . Journal of Materials Chemistry A, 2018, 6, 5290-5295.	10.3	36
13	The suppression of CMR in Nd(Mn _{1-x} Cox)AsO _{0.95} F _{0.05} . Dalton Transactions, 2018, 47, 14726-14733.	3.3	1
14	Physicochemical Tools: Toward a Detailed Understanding of the Architecture of Targeted Radiotherapy Nanoparticles. ACS Applied Bio Materials, 2018, 1, 1639-1646.	4.6	4
15	Relationship between the Crystal Structure and Electrical Properties of Oxide Ion Conducting Ba ₃ W _{1.2} Nb _{0.8} O _{8.6} . Inorganic Chemistry, 2018, 57, 11942-11947.	4.0	20
16	Improving the Selectivity of Photocatalytic NO ₂ Reduction Pathways Using Ti _{0.909} W _{0.091} O ₂ N _x Semiconductor Nanoparticles: From Characterization to Photocatalytic Performance. ACS Catalysis, 2018, 8, 6927-6938.	11.2	20
17	The Crystal Structure of Ba ₃ Nb ₂ O ₈ Revisited: A Neutron Diffraction and Solid-State NMR Study. Inorganic Chemistry, 2017, 56, 2653-2661.	4.0	2
18	Investigation of the Relationship between the Structure and Conductivity of the Novel Oxide Ionic Conductor Ba ₃ MoNbO _{8.5} . Chemistry of Materials, 2017, 29, 4146-4152.	6.7	39

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19	Electrical and Structural Characterization of Ba ₃ Mo ⁴⁺ Nb _{1+x} O _{8.5} : The Relationship between Mixed Coordination, Polyhedral Distortion and the Ionic Conductivity of Ba ₃ MoNbO _{8.5} . <i>Inorganic Chemistry</i> , 2017, 56, 10505-10512.	4.0	19
20	Oxide Ion Conductivity in the Hexagonal Perovskite Derivative Ba ₃ MoNbO _{8.5} . <i>Journal of the American Chemical Society</i> , 2016, 138, 16764-16769.	13.7	88
21	The structure and optical properties of Sr ^x CaxMoO3. <i>Journal of Solid State Chemistry</i> , 2016, 242, 248-252.	2.9	4
22	A Variable Temperature Synchrotron X-ray Diffraction Study of Colossal Magneto-resistant NdMnAsO _{0.95} F _{0.05} . <i>Scientific Reports</i> , 2016, 6, 20705.	3.3	4
23	Absence of Colossal Magneto-resistance in the Oxypnictide PrMnAsO _{0.95} F _{0.05} . <i>Inorganic Chemistry</i> , 2015, 54, 2536-2542.	4.0	9
24	A high pressure neutron study of colossal magneto-resistant NdMnAsO _{0.95} F _{0.05} . <i>Journal of Physics Condensed Matter</i> , 2015, 27, 116001.	1.8	1
25	Electronic and magnetic properties of NdMn_2O_7 . <i>Physical Review B</i> , 2014, 90, .	3.2	5
26	Emergent transition for superconducting fluctuations in antiferromagnetic ruthenocuprates. <i>Physical Review B</i> , 2014, 90, .	3.2	2
27	Structural and magnetic characterisation of the novel spin frustrated double perovskite Sr ₂ ScMoO ₆ . <i>Journal of Solid State Chemistry</i> , 2014, 219, 148-151.	2.9	4
28	A variable temperature synchrotron X-ray diffraction study of the ferroelastic double perovskite Ba ₂ GdMoO ₆ . <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8672.	2.8	9
29	Spin dynamics in IrSr ₂ Sm _{1.15} Ce _{0.85} Cu ₂ O ₁₀ : Complex magnetic behavior in a layered iridocuprate. <i>Physical Review B</i> , 2013, 88, .	3.2	1
30	A high temperature neutron diffraction study of the double perovskite Ba _{2.15} SmMoO ₆ . <i>Journal of Solid State Chemistry</i> , 2012, 196, 379-383.	2.9	6
31	IrSr ₂ Sm _{1.15} Ce _{0.85} Cu _{2.175} O ₁₀ : A reentrant spin-glass material. <i>Physical Review B</i> , 2012, 85, .	3.2	10
32	Colossal Magneto-resistance in Mn ²⁺ Oxypnictides NdMnAsO ⁴⁺ F _{0.05} . <i>Journal of the American Chemical Society</i> , 2012, 134, 8766-8769.	13.7	32
33	Changes in 2-fluoro-2-deoxy-d-glucose incorporation, hexokinase activity and lactate production by breast cancer cells responding to treatment with the anti-HER-2 antibody trastuzumab. <i>Nuclear Medicine and Biology</i> , 2011, 38, 339-346.	0.6	13
34	Synthesis and characterisation of biologically compatible TiO ₂ nanoparticles. <i>Nanoscale Research Letters</i> , 2011, 6, 423.	5.7	36
35	A ¹ / ₄ SR study of the magneto-resistive ruthenocuprates RuSr ₂ Nd _{1.8} Y _{0.2} Ce _x Cu ₂ O ₁₀ (x= 0.95 and 0.80). <i>Journal of Physics Condensed Matter</i> , 2011, 23, 365704. Variable temperature study of the crystal and magnetic structures of the giant magneto-resistant materials	1.8	1
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37	The superstructure and superconductivity of Ru _{1-2x} Gd _{2x} Y _{1-x} Ce _x Cu ₂ O ₁₀ compounds. Superconductor Science and Technology, 2010, 23, 115013.	3.5	1
38	Valence Bond Glass on an fcc Lattice in the Double Perovskite $YMoO_6$. Physical Review Letters, 2010, 104, 177202.	7.8	121
39	Persistence of the valence bond glass state in the double perovskites $Ba_{1-x}Y_xMo_2O_{10}$. Physical Review B, 2010, 82, .	3.2	19
40	Giant magnetoresistance in oxypnictides (La,Nd)OMnAs. Chemical Communications, 2010, 46, 6777.	4.1	45
41	AM-6: a microporous one-dimensional ferromagnet. Dalton Transactions, 2009, , 8025.	3.3	20
42	Neutron diffraction study of the magnetic structure of the superconducting Ru-1222-type ruthenocuprate $RuSr_2Cu_2O_{10}$. Physical Review B, 2008, 78, .	3.2	19
43	Spin, Orbital and Lattice Coupling in the Double Perovskite Ba ₂ SmMoO ₆ . Materials Research Society Symposia Proceedings, 2008, 1148, 1.	0.1	0
44	Simultaneous Jahn-Teller distortion and magnetic order in the double perovskite $Ba_{1-x}Y_xMo_2O_{10}$. Physical Review B, 2008, 78, .	3.2	19
45	Induced antiferromagnetism and large magnetoresistance in RuSr ₂ (Nd,Y,Ce)Cu ₂ O ₁₀ ruthenocuprates. Physical Review B, 2007, 76, .	3.2	11
46	Enhancement of large magnetoresistances in ruthenocuprates by Ta substitution. Chemical Communications, 2007, , 2273.	4.1	6
47	Defect structure of ferromagnetic superconducting RuSr ₂ GdCu ₂ O ₈ . Physical Review B, 2006, 73, .	3.2	12
48	Chemical Tuning of Positive and Negative Magnetoresistances, and Superconductivity in 1222-Type Ruthenocuprates. Journal of the American Chemical Society, 2006, 128, 12364-12365.	13.7	16
49	Ethylenediamine manganese(II) selenite, a new hybrid inorganic/organic network containing MnO ₅ N octahedra and SeO ₃ pyramids. Inorganic Chemistry Communication, 2006, 9, 785-787.	3.9	1
50	Magnetic and structural studies of the double perovskites Ba ₂ REMoO ₆ . Solid State Communications, 2006, 137, 354-357.	1.9	20
51	Doping studies of the magnetic cobaltocuprate CoSr ₂ Y _{2-x} Ce _x Cu ₂ O ₉ . Journal of Solid State Chemistry, 2005, 178, 2274-2281.	2.9	5
52	Negative lattice expansion from the superconductivity-antiferromagnetism crossover in ruthenium copper oxides. Nature, 2005, 436, 829-832.	27.8	42
53	Magnetic interactions on the tin sites in the tin-doped ferromagnetic superconductor Ru _{1-x} Sn _x Sr ₂ GdCu ₂ O ₈ . Journal of Physics Condensed Matter, 2004, 16, 955-961.	1.8	0
54	Chemical control of hole-doped superconductivity and magnetism in Gd _{2-x} Ce _x RuSr ₂ Cu ₂ O ₁₀ . Physical Review B, 2003, 68, .	3.2	34

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55	Structure and magnetism of the layered ruthenocuprate $\text{Pb}_2\text{RuSr}_2\text{Cu}_2\text{O}_8\text{Cl}$. <i>Physical Review B</i> , 2002, 65, .	3.2	12
56	A cyclic hexacopper(ii) fluoro complex that encapsulates two fluoride anions Electronic supplementary information (ESI) available: observed and simulated EPR spectra for 2. See http://www.rsc.org/suppdata/cc/b2/b207923m/ . <i>Chemical Communications</i> , 2002, , 2978-2979.	4.1	22
57	The synthesis, structure and magnetic properties of $\text{Pb}_2\text{Sr}_2\text{Cu}_2\text{RuO}_8\text{Cl}$, a new layered ruthenocuprate. <i>Solid State Sciences</i> , 2002, 4, 431-436.	3.2	8
58	The Synthesis, Structure and Physical Properties of the Layered Ruthenocuprates $\text{RuSr}_2\text{GdCu}_2\text{O}_8$ and $\text{Pb}_2\text{Sr}_2\text{Cu}_2\text{RuO}_8\text{Cl}$. <i>Lecture Notes in Physics</i> , 2002, , 160-175.	0.7	1
59	Doping studies of the ferromagnetic superconductor $\text{RuSr}_2\text{GdCu}_2\text{O}_8$. <i>Journal of Materials Chemistry</i> , 2001, 11, 173-178.	6.7	24
60	Partial frustration of magnetic order in synthetic angelellite, $\text{Fe}_4\text{As}_2\text{O}_{11}$. <i>Dalton Transactions RSC</i> , 2000, , 3663-3668.	2.3	7
61	Chemical tuning of ferromagnetism and superconductivity in $\text{RuSr}_2\text{GdCu}_2\text{O}_8$. <i>Chemical Communications</i> , 2000, , 1331-1332.	4.1	20
62	Tuning of the ferromagnetic and superconducting transitions by tin-doping in $\text{RuSr}_2\text{GdCu}_2\text{O}_8$. <i>Physical Review B</i> , 1999, 60, 14605-14608.	3.2	70
63	Structure and microstructure of the ferromagnetic superconductor $\text{RuSr}_2\text{GdCu}_2\text{O}_8$. <i>Physical Review B</i> , 1999, 60, 7512-7516.	3.2	244