

Abbie C Mclaughlin

List of Publications by Year in descending order

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63
papers

1,552
citations

361413

20
h-index

315739

38
g-index

66
all docs

66
docs citations

66
times ranked

1323
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and microstructure of the ferromagnetic superconductor RuSr ₂ GdCu ₂ O ₈ . Physical Review B, 1999, 60, 7512-7516.	3.2	244
2	High oxide ion and proton conductivity in a disordered hexagonal perovskite. Nature Materials, 2020, 19, 752-757.	27.5	125
3	Valence Bond Glass on an fcc Lattice in the Double Perovskite Ba_2YMoO_6 . Physical Review Letters, 2010, 104, 177202.	7.8	121
4	Oxide Ion Conductivity in the Hexagonal Perovskite Derivative Ba ₃ MoNbO _{8.5} . Journal of the American Chemical Society, 2016, 138, 16764-16769.	13.7	88
5	Tuning of the ferromagnetic and superconducting transitions by tin-doping in RuSr ₂ GdCu ₂ O ₈ . Physical Review B, 1999, 60, 14605-14608.	3.2	70
6	Variable temperature study of the crystal and magnetic structures of the giant magnetoresistant materials		

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19	A cyclic hexacopper(ii) fluoro complex that encapsulates two fluoride anionsElectronic supplementary information (ESI) available: observed and simulated EPR spectra for 2. See http://www.rsc.org/suppdata/cc/b2/b207923m/ . Chemical Communications, 2002, , 2978-2979.	4.1	22
20	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
21	Chemical tuning of ferromagnetism and superconductivity in RuSr ₂ GdCu ₂ O ₈ . Chemical Communications, 2000, , 1331-1332.	4.1	20
22	Magnetic and structural studies of the double perovskites Ba ₂ REMoO ₆ . Solid State Communications, 2006, 137, 354-357.	1.9	20
23	AM-6: a microporous one-dimensional ferromagnet. Dalton Transactions, 2009, , 8025.	3.3	20
24	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
25	Improving the Selectivity of Photocatalytic NO _x Abatement through Improved O ₂ Reduction Pathways Using Ti _{0.909} W _{0.091} O ₂ N Semiconductor Nanoparticles: From Characterization to Photocatalytic Performance. ACS Catalysis, 2018, 8, 6027-6036.	11.2	20
26	Neutron diffraction study of the magnetic structure of the superconducting Ru-1222-type ruthenocuprate $\text{RuSr}_2\text{Cu}_2\text{O}_{8.6}$. Physical Review B, 2008, 78, .	3.2	19
27	Chemical tuning of magnetism in the double perovskite $\text{Ba}_2\text{MoO}_{8.5}$. Physical Review B, 2010, 82, .	3.2	19
28	Persistence of the valence bond glass state in the double perovskites $\text{Ba}_2\text{MoO}_{8.5}$ and $\text{Ba}_2\text{NbO}_{8.5}$. Physical Review B, 2010, 82, .	3.2	19
29	Electrical and Structural Characterization of Ba ₃ Mo _{1-x} Nb _{1+x} O _{8.5} : The Relationship between Mixed Coordination, Polyhedral Distortion and the Ionic Conductivity of Ba ₃ MoNbO _{8.5} . Inorganic Chemistry, 2017, 56, 10505-10512.	4.0	19
30	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
31	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. Nuclear Medicine and Biology, 2011, 38, 339-346.	0.6	13
32	Structure and magnetism of the layered ruthenocuprate Pb ₂ RuSr ₂ Cu ₂ O ₈ Cl. Physical Review B, 2002, 65, .	3.2	12
33	Defect structure of ferromagnetic superconducting RuSr ₂ GdCu ₂ O ₈ . Physical Review B, 2006, 73, .	3.2	12
34	Induced antiferromagnetism and large magnetoresistance in RuSr ₂ (Nd,Y,Ce) ₂ Cu ₂ O ₁₀ ruthenocuprates. Physical Review B, 2007, 76, .	3.2	11
35	IrSr ₂ Sm _{1.15} Ce _{0.85} Cu _{2.175} O ₁₀ : A reentrant spin-glass material. Physical Review B, 2012, 85, .	3.2	10
36	A variable temperature synchrotron X-ray diffraction study of the ferroelastic double perovskite Ba ₂ GdMoO ₆ . Physical Chemistry Chemical Physics, 2013, 15, 8672.	2.8	9

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37	Absence of Colossal Magnetoresistance in the Oxypnictide PrMnAsO _{0.95} F _{0.05} . Inorganic Chemistry, 2015, 54, 2536-2542.	4.0	9
38	The synthesis, structure and magnetic properties of Pb ₂ Sr ₂ Cu ₂ RuO ₈ Cl, a new layered ruthenocuprate. Solid State Sciences, 2002, 4, 431-436.	3.2	8
39	Partial frustration of magnetic order in synthetic angelellite, Fe ₄ As ₂ O ₁₁ . Dalton Transactions RSC, 2000, , 3663-3668.	2.3	7
40	Variable Temperature Neutron Diffraction Study of the Oxide Ion Conductor Ba ₃ VWO _{8.5} . Inorganic Chemistry, 2022, 61, 1597-1602.	4.0	7
41	Enhancement of large magnetoresistances in ruthenocuprates by Ta substitution. Chemical Communications, 2007, , 2273.	4.1	6
42	A high temperature neutron diffraction study of the double perovskite Ba ₂ SmMoO ₆ . Journal of Solid State Chemistry, 2012, 196, 379-383.	2.9	6
43	Doping studies of the magnetic cobaltocuprate CoSr ₂ Y _{2-x} Ce _x Cu ₂ O _{9±1} . Journal of Solid State Chemistry, 2005, 178, 2274-2281.	2.9	5
44	Electronic and magnetic properties of Nd _{1-x} Mn _{1+x} O ₇ . Physical Review B, 2014, 90, .	2.9	5
45	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
46	Structural and magnetic characterisation of the novel spin frustrated double perovskite Sr ₂ ScMoO ₆ . Journal of Solid State Chemistry, 2014, 219, 148-151.	2.9	4
47	The structure and optical properties of Sr _{1-x} CaxMoO ₃ . Journal of Solid State Chemistry, 2016, 242, 248-252.	2.9	4
48	A Variable Temperature Synchrotron X-ray Diffraction Study of Colossal Magnetoresistant NdMnAsO _{0.95} F _{0.05} . Scientific Reports, 2016, 6, 20705.	3.3	4
49	Physicochemical Tools: Toward a Detailed Understanding of the Architecture of Targeted Radiotherapy Nanoparticles. ACS Applied Bio Materials, 2018, 1, 1639-1646.	4.6	4
50	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
51	Emergent transition for superconducting fluctuations in antiferromagnetic ruthenocuprates. Physical Review B, 2014, 90, .	3.2	2
52	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
53	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
54	Electronic phase separation in the hexagonal perovskite Ba ₃ Mn ₉ O ₂₄ . Physical Review Materials, 2022, 6, .	2.4	2

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55	Ethylenediamine manganese(II) selenite, a new hybrid inorganic/organic network containing MnO ₅ N octahedra and SeO ₃ pyramids. <i>Inorganic Chemistry Communication</i> , 2006, 9, 785-787.	3.9	1
56	The superstructure and superconductivity of Ru1222 based RuSr ₂ Gd ₂ Y ₂ Ce _x Cu ₂ O ₁₀ compounds. <i>Superconductor Science and Technology</i> , 2010, 23, 115013.	3.5	1
57	A ¹ / ₄ SR study of the magnetoresistive 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.	1.8	1
58	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
59	A high pressure neutron study of colossal magnetoresistant NdMnAsO _{0.95} F _{0.05} . <i>Journal of Physics Condensed Matter</i> , 2015, 27, 116001.	1.8	1
60	The suppression of CMR in Nd(Mn _{1-x} Cox)AsO _{0.95} F _{0.05} . <i>Dalton Transactions</i> , 2018, 47, 14726-14733.	3.3	1
61	The Synthesis, Structure and Physical Properties of the Layered Ruthenocuprates RuSr ₂ GdCu ₂ O ₈ and Pb ₂ Sr ₂ Cu ₂ RuO ₈ Cl. <i>Lecture Notes in Physics</i> , 2002, , 160-175.	0.7	1
62	Magnetic interactions on the tin sites in the tin-doped ferromagnetic superconductor Ru _{1-x} SnxSr ₂ GdCu ₂ O ₈ . <i>Journal of Physics Condensed Matter</i> , 2004, 16, 955-961.	1.8	0
63	Spin, Orbital and Lattice Coupling in the Double Perovskite Ba ₂ 154SmMoO ₆ . <i>Materials Research Society Symposia Proceedings</i> , 2008, 1148, 1.	0.1	0