

Roger D Johnson

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.

38
papers

1,315
citations

18
h-index

36
g-index

41
ext. papers

1,569
ext. citations

8.2
avg, IF

4.32
L-index

#	Paper	IF	Citations
38	A plethora of structural transitions, distortions and modulations in Cu-doped BiMn7O12 quadruple perovskites. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10232-10242	7.1	1
37	Pressure-induced Jahn-Teller switch in the homoleptic hybrid perovskite [(CH)NH]Cu(HCOO): orbital reordering by unconventional degrees of freedom. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 8051-8056 ¹	7.1	1
36	Controlling Magnetic Anisotropy in a Zero-Dimensional = 1 Magnet Using Isotropic Cation Substitution. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4633-4638	16.4	0
35	The rich physics of A-site-ordered quadruple perovskite manganites AMnO. <i>Dalton Transactions</i> , 2021 , 50, 15458-15472	4.3	2
34	High-Pressure Synthesis, Crystal Structures, and Properties of A-Site Columnar-Ordered Quadruple Perovskites NaRMnTiO with R = Sm, Eu, Gd, Dy, Ho, Y. <i>Inorganic Chemistry</i> , 2020 , 59, 9065-9076	5.1	4
33	Enhancing easy-plane anisotropy in bespoke Ni(II) quantum magnets. <i>Polyhedron</i> , 2020 , 180, 114379	2.7	4
32	Emergent helical texture of electric dipoles. <i>Science</i> , 2020 , 369, 680-684	33.3	16
31	Formate-mediated magnetic superexchange in the model hybrid perovskite [(CH3)2NH2]Cu(HCOO)3. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12840-12847	7.1	3
30	Gapless spin-liquid state in the structurally disorder-free triangular antiferromagnet NaYbO2. <i>Physical Review B</i> , 2019 , 100,	3.3	47
29	FeTi2O5: A spin Jahn-Teller transition enhanced by cation substitution. <i>Physical Review B</i> , 2019 , 100,	3.3	1
28	Revealing the nature of photoluminescence emission in the metal-halide double perovskite Cs2AgBiBr6. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8350-8356	7.1	88
27	Spin Jahn-Teller antiferromagnetism in CoTi2O5. <i>Physical Review B</i> , 2019 , 99,	3.3	4
26	Structural and Optical Properties of Cs2AgBiBr6 Double Perovskite. <i>ACS Energy Letters</i> , 2019 , 4, 299-305	20.1	78
25	High-Pressure Synthesis, Structures, and Properties of Trivalent A-Site-Ordered Quadruple Perovskites RMnO (R = Sm, Eu, Gd, and Tb). <i>Inorganic Chemistry</i> , 2018 , 57, 5987-5998	5.1	15
24	Spin-induced multiferroicity in the binary perovskite manganite MnO. <i>Nature Communications</i> , 2018 , 9, 2996	17.4	27
23	Magneto-orbital texture in the perovskite modification of Mn2O3. <i>Physical Review B</i> , 2018 , 98,	3.3	6
22	Observation of magnetic vortex pairs at room temperature in a planar FeO/Co heterostructure. <i>Nature Materials</i> , 2018 , 17, 581-585	27	45

21	Evolution of Magneto-Orbital order Upon B-Site Electron Doping in Na _{{1-x}Ca_{{x}Mn_{{7}O_{12}}} Quadruple Perovskite Manganites. <i>Physical Review Letters</i>, 2018, 120, 257202}	7.4	7
20	Helical magnetism in Sr-doped CaMn7O12 films. <i>Physical Review B</i> , 2018 , 98,	3.3	2
19	Intrinsic Triple Order in A-site Columnar-Ordered Quadruple Perovskites: Proof of Concept. <i>ChemPhysChem</i> , 2018 , 19, 2449-2452	3.2	11
18	Deterministic and robust room-temperature exchange coupling in monodomain multiferroic BiFeO heterostructures. <i>Nature Communications</i> , 2017 , 8, 1583	17.4	35
17	Combining microscopic and macroscopic probes to untangle the single-ion anisotropy and exchange energies in an S=1 quantum antiferromagnet. <i>Physical Review B</i> , 2017 , 95,	3.3	11
16	Coherent Magnetoelastic Domains in Multiferroic BiFeO _{3} Films. <i>Physical Review Letters</i> , 2016 , 117, 177601	7.4	19
15	Sc2NiMnO6: A Double-Perovskite with a Magnetodielectric Response Driven by Multiple Magnetic Orders. <i>Inorganic Chemistry</i> , 2015 , 54, 8012-21	5.1	30
14	Magnetically-induced ferroelectricity in the (ND4)2[FeCl5(D2O)] molecular compound. <i>Scientific Reports</i> , 2015 , 5, 14475	4.9	21
13	Non-ferroelectric nature of the conductance hysteresis in CH3NH3PbI3 perovskite-based photovoltaic devices. <i>Applied Physics Letters</i> , 2015 , 106, 173502	3.4	173
12	First-principles study of structurally modulated multiferroic CaMn7O12. <i>Physical Review B</i> , 2015 , 91,	3.3	12
11	New Constraints On Electron-Beam Induced Halogen Migration In Apatite. <i>American Mineralogist</i> , 2015 , 100, 281-293	2.9	58
10	Diffraction Studies of Multiferroics. <i>Annual Review of Materials Research</i> , 2014 , 44, 269-298	12.8	27
9	Noncoplanar and counterrotating incommensurate magnetic order stabilized by Kitaev interactions in ELi(2)IrO(3). <i>Physical Review Letters</i> , 2014 , 113, 197201	7.4	108
8	Realization of a three-dimensional spin-anisotropic harmonic honeycomb iridate. <i>Nature Communications</i> , 2014 , 5, 4203	17.4	197
7	Ba2YFeO5.5: A Ferromagnetic Pyroelectric Phase Prepared by Topochemical Oxidation.. <i>Chemistry of Materials</i> , 2013 , 25, 1800-1808	9.6	12
6	X-ray imaging and multiferroic coupling of cycloidal magnetic domains in ferroelectric monodomain BiFeO3. <i>Physical Review Letters</i> , 2013 , 110, 217206	7.4	62
5	Magneto-orbital helices as a route to coupling magnetism and ferroelectricity in multiferroic CaMnO. <i>Nature Communications</i> , 2012 , 3, 1277	17.4	76
4	Electric field control of the magnetic chiralities in ferroaxial multiferroic RbFe(MoO4)2. <i>Physical Review Letters</i> , 2012 , 108, 237201	7.4	49

3	Cu ₃ Nb ₂ O ₈ : a multiferroic with chiral coupling to the crystal structure. <i>Physical Review Letters</i> , 2011 , 107, 137205	7.4	55
2	Determining Crystal Field Distortions of YVO ₃ through X-Ray Scattering. <i>Solid State Phenomena</i> , 2009 , 152-153, 147-150	0.4	
1	Magnetic structure determination using polarised resonant X-ray scattering. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 810-813	2.8	6