

Roger D Johnson

List of Publications by Citations

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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	Realization of a three-dimensional spin-anisotropic harmonic honeycomb iridate. <i>Nature Communications</i> , 2014 , 5, 4203	17.4	197
37	Non-ferroelectric nature of the conductance hysteresis in CH ₃ NH ₃ PbI ₃ perovskite-based photovoltaic devices. <i>Applied Physics Letters</i> , 2015 , 106, 173502	3.4	173
36	Noncoplanar and counterrotating incommensurate magnetic order stabilized by Kitaev interactions in Li(2)IrO(3). <i>Physical Review Letters</i> , 2014 , 113, 197201	7.4	108
35	Revealing the nature of photoluminescence emission in the metal-halide double perovskite Cs ₂ AgBiBr ₆ . <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8350-8356	7.1	88
34	Structural and Optical Properties of Cs ₂ AgBiBr ₆ Double Perovskite. <i>ACS Energy Letters</i> , 2019 , 4, 299-305	20.1	78
33	Magneto-orbital helices as a route to coupling magnetism and ferroelectricity in multiferroic CaMnO ₃ . <i>Nature Communications</i> , 2012 , 3, 1277	17.4	76
32	X-ray imaging and multiferroic coupling of cycloidal magnetic domains in ferroelectric monodomain BiFeO ₃ . <i>Physical Review Letters</i> , 2013 , 110, 217206	7.4	62
31	New Constraints On Electron-Beam Induced Halogen Migration In Apatite. <i>American Mineralogist</i> , 2015 , 100, 281-293	2.9	58
30	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
29	Electric field control of the magnetic chiralities in ferroaxial multiferroic RbFe(MoO ₄) ₂ . <i>Physical Review Letters</i> , 2012 , 108, 237201	7.4	49
28	Gapless spin-liquid state in the structurally disorder-free triangular antiferromagnet NaYbO ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	47
27	Observation of magnetic vortex pairs at room temperature in a planar FeO/Co heterostructure. <i>Nature Materials</i> , 2018 , 17, 581-585	27	45
26	Deterministic and robust room-temperature exchange coupling in monodomain multiferroic BiFeO ₃ heterostructures. <i>Nature Communications</i> , 2017 , 8, 1583	17.4	35
25	Sc ₂ NiMnO ₆ : A Double-Perovskite with a Magnetodielectric Response Driven by Multiple Magnetic Orders. <i>Inorganic Chemistry</i> , 2015 , 54, 8012-21	5.1	30
24	Spin-induced multiferroicity in the binary perovskite manganite MnO. <i>Nature Communications</i> , 2018 , 9, 2996	17.4	27
23	Diffraction Studies of Multiferroics. <i>Annual Review of Materials Research</i> , 2014 , 44, 269-298	12.8	27
22	Magnetically-induced ferroelectricity in the (ND ₄) ₂ [FeCl ₅ (D ₂ O)] molecular compound. <i>Scientific Reports</i> , 2015 , 5, 14475	4.9	21

21	Coherent Magnetoelastic Domains in Multiferroic BiFeO ₃ Films. <i>Physical Review Letters</i> , 2016 , 117, 177601	7.4	19
20	Emergent helical texture of electric dipoles. <i>Science</i> , 2020 , 369, 680-684	33.3	16
19	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
18	Ba ₂ YFeO _{5.5} : A Ferromagnetic Pyroelectric Phase Prepared by Topochemical Oxidation.. <i>Chemistry of Materials</i> , 2013 , 25, 1800-1808	9.6	12
17	First-principles study of structurally modulated multiferroic CaMn ₇ O ₁₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	12
16	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
15	Intrinsic Triple Order in A-site Columnar-Ordered Quadruple Perovskites: Proof of Concept. <i>ChemPhysChem</i> , 2018 , 19, 2449-2452	3.2	11
14	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
13	Magneto-orbital texture in the perovskite modification of Mn ₂ O ₃ . <i>Physical Review B</i> , 2018 , 98,	3.3	6
12	Magnetic structure determination using polarised resonant X-ray scattering. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 810-813	2.8	6
11	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
10	Enhancing easy-plane anisotropy in bespoke Ni(II) quantum magnets. <i>Polyhedron</i> , 2020 , 180, 114379	2.7	4
9	Spin Jahn-Teller antiferromagnetism in CoTi ₂ O ₅ . <i>Physical Review B</i> , 2019 , 99,	3.3	4
8	Formate-mediated magnetic superexchange in the model hybrid perovskite [(CH ₃) ₂ NH ₂]Cu(HCOO) ₃ . <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12840-12847	7.1	3
7	Helical magnetism in Sr-doped CaMn ₇ O ₁₂ films. <i>Physical Review B</i> , 2018 , 98,	3.3	2
6	The rich physics of A-site-ordered quadruple perovskite manganites AMnO. <i>Dalton Transactions</i> , 2021 , 50, 15458-15472	4.3	2
5	FeTi ₂ O ₅ : A spin Jahn-Teller transition enhanced by cation substitution. <i>Physical Review B</i> , 2019 , 100,	3.3	1
4	A plethora of structural transitions, distortions and modulations in Cu-doped BiMn ₇ O ₁₂ quadruple perovskites. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10232-10242	7.1	1

- 3 Pressure-induced Jahn-Teller switch in the homoleptic hybrid perovskite [(CH)₂NH]Cu(HCOO):
orbital reordering by unconventional degrees of freedom. *Journal of Materials Chemistry C*, **2021**, 9, 8057-8056¹
- 2 Controlling Magnetic Anisotropy in a Zero-Dimensional = 1 Magnet Using Isotropic Cation Substitution. *Journal of the American Chemical Society*, **2021**, 143, 4633-4638 16.4 O
- 1 Determining Crystal Field Distortions of YVO₃ through X-Ray Scattering. *Solid State Phenomena*, **2009**, 152-153, 147-150 0.4