

Craig J Fennie

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.

45
papers

3,331
citations

23
h-index

46
g-index

46
ext. papers

3,977
ext. citations

12.8
avg, IF

5.43
L-index

#	Paper	IF	Citations
45	Strain-stabilized superconductivity. <i>Nature Communications</i> , 2021 , 12, 59	17.4	9
44	Optimizing accuracy and efficacy in data-driven materials discovery for the solar production of hydrogen. <i>Energy and Environmental Science</i> , 2021 , 14, 2335-2348	35.4	8
43	Targeted chemical pressure yields tuneable millimetre-wave dielectric. <i>Nature Materials</i> , 2020 , 19, 176-181	17.4	14
42	Direct Visualization of Trimerized States in $1T^{\prime}\text{-TaTe}_2$. <i>Physical Review Letters</i> , 2020 , 125, 165302	7.4	6
41	Site-specific spectroscopic measurement of spin and charge in (LuFeO) ₂ /(LuFeO) ₃ multiferroic superlattices. <i>Nature Communications</i> , 2020 , 11, 5582	17.4	2
40	Pressure-controlled interlayer magnetism in atomically thin CrI ₃ . <i>Nature Materials</i> , 2019 , 18, 1303-1308	27	178
39	Infrared nano-spectroscopy of ferroelastic domain walls in hybrid improper ferroelectric CaTiO ₃ . <i>Nature Communications</i> , 2019 , 10, 5235	17.4	14
38	Coupled structural distortions, domains, and control of phase competition in polar SmBaMn ₂ O ₆ . <i>Physical Review B</i> , 2019 , 100,	3.3	6
37	Stacking-Dependent Magnetism in Bilayer CrI ₃ . <i>Nano Letters</i> , 2018 , 18, 7658-7664	11.5	270
36	Engineering Carrier Effective Masses in Ultrathin Quantum Wells of IrO ₂ . <i>Physical Review Letters</i> , 2018 , 121, 176802	7.4	8
35	Topological superconductivity in metal/quantum-spin-ice heterostructures. <i>Npj Quantum Materials</i> , 2017 , 2,	5	8
34	Atomically engineered ferroic layers yield a room-temperature magnetoelectric multiferroic. <i>Nature</i> , 2016 , 537, 523-7	50.4	221
33	Manipulating superconductivity in ruthenates through Fermi surface engineering. <i>Physical Review B</i> , 2016 , 94,	3.3	21
32	Strain Control of Fermiology and Many-Body Interactions in Two-Dimensional Ruthenates. <i>Physical Review Letters</i> , 2016 , 116, 197003	7.4	56
31	Imaging Local Polarization and Domain Boundaries with Picometer-Precision Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016 , 22, 898-899	0.5	
30	Atomic scale imaging of competing polar states in a Ruddlesden-Popper layered oxide. <i>Nature Communications</i> , 2016 , 7, 12572	17.4	17
29	Polar metals by geometric design. <i>Nature</i> , 2016 , 533, 68-72	50.4	203

28	Domains and ferroelectric switching pathways in Ca ₃ Ti ₂ O ₇ from first principles. <i>Physical Review B</i> , 2016 , 94,	3.3	41
27	Hierarchical spin-orbital polarization of a giant Rashba system. <i>Science Advances</i> , 2015 , 1, e1500495	14.3	27
26	Ferroelectrics: The positives of going negative. <i>Nature Materials</i> , 2015 , 14, 969-70	27	7
25	Direct band gaps in multiferroic h-LuFeO ₃ . <i>Applied Physics Letters</i> , 2015 , 106, 082902	3.4	31
24	Interplay of Octahedral Rotations and Lone Pair Ferroelectricity in CsPbF ₃ . <i>Inorganic Chemistry</i> , 2015 , 54, 8536-43	5.1	44
23	Imaging Local Polarization and Domain Boundaries in Multiferroic (LuFeO ₃) _m /(LuFe ₂ O ₄) _n Superlattices. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1303-1304	0.5	
22	Interplay of spin-orbit interactions, dimensionality, and octahedral rotations in semimetallic SrIrO ₃ . <i>Physical Review Letters</i> , 2015 , 114, 016401	7.4	148
21	Elastic strain engineering of ferroic oxides. <i>MRS Bulletin</i> , 2014 , 39, 118-130	3.2	309
20	Evidence for topologically protected surface states and a superconducting phase in [Tl ₄](Tl(1-x)Sn(x))Te ₃ using photoemission, specific heat, and magnetization measurements, and density functional theory. <i>Physical Review Letters</i> , 2014 , 112, 017002	7.4	27
19	Direct visualization of magnetoelectric domains. <i>Nature Materials</i> , 2014 , 13, 163-7	27	90
18	Bulk magnetoelectricity in the hexagonal manganites and ferrites. <i>Nature Communications</i> , 2014 , 5, 2998	7.4	143
17	Exploiting dimensionality and defect mitigation to create tunable microwave dielectrics. <i>Nature</i> , 2013 , 502, 532-6	50.4	170
16	Structural control of magnetic anisotropy in a strain-driven multiferroic EuTiO ₃ thin film. <i>Physical Review B</i> , 2013 , 88,	3.3	17
15	Effect of film thickness and biaxial strain on the curie temperature of EuO. <i>Applied Physics Letters</i> , 2013 , 102, 062404	3.4	20
14	Turning ABO ₃ Antiferroelectrics into Ferroelectrics: Design Rules for Practical Rotation-Driven Ferroelectricity in Double Perovskites and A ₃ B ₂ O ₇ Ruddlesden-Popper Compounds. <i>Advanced Functional Materials</i> , 2013 , 23, n/a-n/a	15.6	98
13	Nanosession: Multiferroics - High Transition Temperatures 2013 , 347-355		
12	Magnetodielectric effect and phonon properties of compressively strained EuTiO ₃ thin films deposited on (001)(LaAlO ₃) _{0.29} -(SrAl _{1/2} Ta _{1/2} O ₃) _{0.71} . <i>Physical Review B</i> , 2012 , 85,	3.3	19
11	RbFe ₂ +Fe ₃ +F ₆ : Synthesis, structure, and characterization of a new charge-ordered magnetically frustrated pyrochlore-related mixed-metal fluoride. <i>Chemical Science</i> , 2012 , 3, 741-751	9.4	16

10	Electrical properties of improper ferroelectrics from first principles. <i>Physical Review B</i> , 2012 , 86,	3-3	40
9	Spin-lattice coupling and phonon dispersion of CdCr ₂ O ₄ from first principles. <i>Physical Review B</i> , 2012 , 86,	3-3	19
8	Ferroelectricity: Octahedral Rotation-Induced Ferroelectricity in Cation Ordered Perovskites (Adv. Mater. 15/2012). <i>Advanced Materials</i> , 2012 , 24, 1918-1918	24	11
7	Hybrid improper ferroelectricity: a mechanism for controllable polarization-magnetization coupling. <i>Physical Review Letters</i> , 2011 , 106, 107204	7-4	481
6	Interface control of emergent ferroic order in Ruddlesden-Popper Sr _(n+1) Ti _(n) O _(3n+1) . <i>Physical Review Letters</i> , 2011 , 107, 257602	7-4	64
5	Broadband dielectric spectroscopy of Ruddlesden-Popper Sr _{n+1} Ti _n O _{3n+1} (n=1,2,3) thin films. <i>Applied Physics Letters</i> , 2009 , 94, 042908	3-4	23
4	Optical band gap and magnetic properties of unstrained EuTiO ₃ films. <i>Applied Physics Letters</i> , 2009 , 94, 212509	3-4	56
3	Strain-induced ferroelectricity in orthorhombic CaTiO ₃ from first principles. <i>Physical Review B</i> , 2009 , 79,	3-3	74
2	Ferroelectric transition in YMnO ₃ from first principles. <i>Physical Review B</i> , 2005 , 72,	3-3	314
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