

# Craig J Fennie

## List of Publications by Citations

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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	Hybrid improper ferroelectricity: a mechanism for controllable polarization-magnetization coupling. <i>Physical Review Letters</i> , <b>2011</b> , 106, 107204	7.4	481
44	Ferroelectric transition in YMnO <sub>3</sub> from first principles. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	314
43	Elastic strain engineering of ferroic oxides. <i>MRS Bulletin</i> , <b>2014</b> , 39, 118-130	3.2	309
42	Stacking-Dependent Magnetism in Bilayer CrI. <i>Nano Letters</i> , <b>2018</b> , 18, 7658-7664	11.5	270
41	Atomically engineered ferroic layers yield a room-temperature magnetoelectric multiferroic. <i>Nature</i> , <b>2016</b> , 537, 523-7	50.4	221
40	Polar metals by geometric design. <i>Nature</i> , <b>2016</b> , 533, 68-72	50.4	203
39	Pressure-controlled interlayer magnetism in atomically thin CrI. <i>Nature Materials</i> , <b>2019</b> , 18, 1303-1308	27	178
38	Exploiting dimensionality and defect mitigation to create tunable microwave dielectrics. <i>Nature</i> , <b>2013</b> , 502, 532-6	50.4	170
37	Interplay of spin-orbit interactions, dimensionality, and octahedral rotations in semimetallic SrIrO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2015</b> , 114, 016401	7.4	148
36	Bulk magnetoelectricity in the hexagonal manganites and ferrites. <i>Nature Communications</i> , <b>2014</b> , 5, 2998	7.4	143
35	Turning ABO <sub>3</sub> Antiferroelectrics into Ferroelectrics: Design Rules for Practical Rotation-Driven Ferroelectricity in Double Perovskites and A <sub>3</sub> B <sub>2</sub> O <sub>7</sub> Ruddlesden-Popper Compounds. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, n/a-n/a	15.6	98
34	Direct visualization of magnetoelectric domains. <i>Nature Materials</i> , <b>2014</b> , 13, 163-7	27	90
33	Strain-induced ferroelectricity in orthorhombic CaTiO <sub>3</sub> from first principles. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	74
32	Interface control of emergent ferroic order in Ruddlesden-Popper Sr <sub>(n+1)</sub> Ti <sub>(n)</sub> O <sub>(3n+1)</sub> . <i>Physical Review Letters</i> , <b>2011</b> , 107, 257602	7.4	64
31	Strain Control of Fermiology and Many-Body Interactions in Two-Dimensional Ruthenates. <i>Physical Review Letters</i> , <b>2016</b> , 116, 197003	7.4	56
30	Optical band gap and magnetic properties of unstrained EuTiO <sub>3</sub> films. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 212509	3.4	56
29	Interplay of Octahedral Rotations and Lone Pair Ferroelectricity in CsPbF <sub>3</sub> . <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 8536-43	5.1	44

28	Domains and ferroelectric switching pathways in Ca <sub>3</sub> Ti <sub>2</sub> O <sub>7</sub> from first principles. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	41
27	Electrical properties of improper ferroelectrics from first principles. <i>Physical Review B</i> , <b>2012</b> , 86,	3-3	40
26	Direct band gaps in multiferroic h-LuFeO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2015</b> , 106, 082902	3-4	31
25	Hierarchical spin-orbital polarization of a giant Rashba system. <i>Science Advances</i> , <b>2015</b> , 1, e1500495	14-3	27
24	Evidence for topologically protected surface states and a superconducting phase in [Tl <sub>4</sub> ](Tl(1-x)Sn(x))Te <sub>3</sub> using photoemission, specific heat, and magnetization measurements, and density functional theory. <i>Physical Review Letters</i> , <b>2014</b> , 112, 017002	7-4	27
23	Broadband dielectric spectroscopy of Ruddlesden-Popper Sr <sub>n+1</sub> Ti <sub>n</sub> O <sub>3n+1</sub> (n=1,2,3) thin films. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 042908	3-4	23
22	Manipulating superconductivity in ruthenates through Fermi surface engineering. <i>Physical Review B</i> , <b>2016</b> , 94,	3-3	21
21	Effect of film thickness and biaxial strain on the curie temperature of EuO. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 062404	3-4	20
20	Magnetodielectric effect and phonon properties of compressively strained EuTiO <sub>3</sub> thin films deposited on (001)(LaAlO <sub>3</sub> ) <sub>0.29</sub> -(SrAl <sub>1/2</sub> Ta <sub>1/2</sub> O <sub>3</sub> ) <sub>0.71</sub> . <i>Physical Review B</i> , <b>2012</b> , 85,	3-3	19
19	Spin-lattice coupling and phonon dispersion of CdCr <sub>2</sub> O <sub>4</sub> from first principles. <i>Physical Review B</i> , <b>2012</b> , 86,	3-3	19
18	Structural control of magnetic anisotropy in a strain-driven multiferroic EuTiO <sub>3</sub> thin film. <i>Physical Review B</i> , <b>2013</b> , 88,	3-3	17
17	Atomic scale imaging of competing polar states in a Ruddlesden-Popper layered oxide. <i>Nature Communications</i> , <b>2016</b> , 7, 12572	17-4	17
16	RbFe <sub>2</sub> +Fe <sub>3</sub> +F <sub>6</sub> : Synthesis, structure, and characterization of a new charge-ordered magnetically frustrated pyrochlore-related mixed-metal fluoride. <i>Chemical Science</i> , <b>2012</b> , 3, 741-751	9-4	16
15	Targeted chemical pressure yields tuneable millimetre-wave dielectric. <i>Nature Materials</i> , <b>2020</b> , 19, 176-181	17-4	14
14	Infrared nano-spectroscopy of ferroelastic domain walls in hybrid improper ferroelectric CaTiO <sub>3</sub> . <i>Nature Communications</i> , <b>2019</b> , 10, 5235	17-4	14
13	Ferroelectricity: Octahedral Rotation-Induced Ferroelectricity in Cation Ordered Perovskites (Adv. Mater. 15/2012). <i>Advanced Materials</i> , <b>2012</b> , 24, 1918-1918	24	11
12	Strain-stabilized superconductivity. <i>Nature Communications</i> , <b>2021</b> , 12, 59	17-4	9
11	Topological superconductivity in metal/quantum-spin-ice heterostructures. <i>Npj Quantum Materials</i> , <b>2017</b> , 2,	5	8

10	Engineering Carrier Effective Masses in Ultrathin Quantum Wells of IrO <sub>2</sub> . <i>Physical Review Letters</i> , <b>2018</b> , 121, 176802	7.4	8
9	Optimizing accuracy and efficacy in data-driven materials discovery for the solar production of hydrogen. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 2335-2348	35.4	8
8	Ferroelectrics: The positives of going negative. <i>Nature Materials</i> , <b>2015</b> , 14, 969-70	27	7
7	Direct Visualization of Trimerized States in 1T <sup>-1</sup> -TaTe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2020</b> , 125, 165302	7.4	6
6	Coupled structural distortions, domains, and control of phase competition in polar SmBaMn <sub>2</sub> O <sub>6</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	6
5	Site-specific spectroscopic measurement of spin and charge in (LuFeO) <sub>m</sub> /(LuFeO) <sub>n</sub> multiferroic superlattices. <i>Nature Communications</i> , <b>2020</b> , 11, 5582	17.4	2
4			
3	Imaging Local Polarization and Domain Boundaries in Multiferroic (LuFeO <sub>3</sub> ) <sub>m</sub> /(LuFe <sub>2</sub> O <sub>4</sub> ) <sub>n</sub> Superlattices. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 1303-1304	0.5	
2	Nanosession: Multiferroics - High Transition Temperatures <b>2013</b> , 347-355		
1	Imaging Local Polarization and Domain Boundaries with Picometer-Precision Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>2016</b> , 22, 898-899	0.5	