

Peter K Davies

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.

62

papers

3,395

citations

26

h-index

58

g-index

63

ext. papers

3,673

ext. citations

6.2

avg, IF

5.19

L-index

#	Paper	IF	Citations
62	Polarization-Modulated Photovoltaic Effect at the Morphotropic Phase Boundary in Ferroelectric Ceramics. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100144	6.4	4
61	Ferroelectric, Optical, and Photovoltaic Properties of Morphotropic Phase Boundary Compositions in the $\text{PbTiO}_3\text{BiFeO}_3\text{Bi}(\text{Ni}_{1/2}\text{Ti}_{1/2})\text{O}_3$ System. <i>Chemistry of Materials</i> , 2019 , 31, 4184-4194	9.6	21
60	Infrared-to-ultraviolet light-absorbing BaTiO_3 -based ferroelectric photovoltaic materials. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4188-4199	3.8	14
59	Resonant domain-wall-enhanced tunable microwave ferroelectrics. <i>Nature</i> , 2018 , 560, 622-627	50.4	48
58	Structural and ferroelectric phase evolution in $[\text{KNbO}_3]_{1-x}[\text{BaNi}_{1/2}\text{Nb}_{1/2}\text{O}_3]_x$ ($x=0,0.1$). <i>Physical Review B</i> , 2017 , 96,	3.3	20
57	Materials Design of Visible-Light Ferroelectric Photovoltaics from First Principles. <i>Ferroelectrics</i> , 2015 , 483, 1-12	0.6	27
56	Reply to "Nanoscale phase separation in perovskites revisited". <i>Nature Materials</i> , 2014 , 13, 217-8	27	4
55	Semiconducting ferroelectric perovskites with intermediate bands via B-site Bi^{5+} doping. <i>Physical Review B</i> , 2014 , 90,	3.3	19
54	Perovskite oxides for visible-light-absorbing ferroelectric and photovoltaic materials. <i>Nature</i> , 2013 , 503, 509-12	50.4	883
53	Nanoscale modulations in $(\text{KLa})(\text{CaW})\text{O}_6$ and $(\text{NaLa})(\text{CaW})\text{O}_6$. <i>Journal of Solid State Chemistry</i> , 2012 , 191, 220-224	3.3	5
52	Pb-free ferroelectrics investigated with density functional theory: $\text{SnAl}_{1/2}\text{Nb}_{1/2}\text{O}_3$ perovskites. <i>Physical Review B</i> , 2011 , 83,	3.3	19
51	Tunable high Q perovskite dielectrics in the $\text{BaO}_{1-x}\text{NiO}_x\text{Ta}_2\text{O}_5$ system. <i>Journal of Materials Science</i> , 2011 , 46, 4715-4718	4.3	8
50	Multiple dielectric transitions in the $\text{PbTiO}_3\text{-Bi}(\text{Zn}_{1/2}\text{Ti}_{1/2})\text{O}_3\text{-Bi}(\text{Mg}_{1/2}\text{Ti}_{1/2})\text{O}_3$ system. <i>Journal of Applied Physics</i> , 2011 , 110, 074110	2.5	8
49	High-Temperature Decomposition of B-Site-Ordered Perovskite $\text{Ba}(\text{Zn}_{1/2}\text{W}_{1/2})\text{O}_3$. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 758-764	3.8	9
48	Nanocheckerboard modulations in $(\text{NaNd})(\text{MgW})\text{O}_6$. <i>Applied Physics Letters</i> , 2010 , 97, 123101	3.4	11
47	Pb-free semiconductor ferroelectrics: A theoretical study of Pd-substituted $\text{Ba}(\text{Ti}_{1-x}\text{Cex})\text{O}_3$ solid solutions. <i>Physical Review B</i> , 2010 , 82,	3.3	45
46	Spontaneous compositional nanopatterning in Li-containing perovskite oxides. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17168-73	16.4	22

45	Neutron Powder Diffraction of $(\text{Nd}_{7/12}\text{Li}_{1/4})\text{TiO}_3$ Nano-Checkerboard Superlattices. <i>Chemistry of Materials</i> , 2008 , 20, 2860-2862	9.6	26
44	Nano-chessboard superlattices formed by spontaneous phase separation in oxides. <i>Nature Materials</i> , 2007 , 6, 586-91	27	94
43	Enhanced tetragonality in $(x)\text{PbTiO}_3-(1-x)\text{Bi}(\text{B}^? \text{B}^?)\text{O}_3$ systems: $\text{Bi}(\text{Zn}_{3/4}\text{W}_{1/4})\text{O}_3$. <i>Applied Physics Letters</i> , 2006 , 89, 132907	3.4	52
42	Influence of Non-Stoichiometry on the Structure and Properties of $\text{Ba}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Microwave Dielectrics: I. Substitution of $\text{Ba}_3\text{W}_2\text{O}_9$. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060428035142030-???	3.8	6
41	Influence of Non-Stoichiometry on the Structure and Properties of $\text{Ba}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Microwave Dielectrics: II. Compositional Variations in Pure BZN. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060428035142025-???	3.8	11
40	Influence of Non-Stoichiometry on the Structure and Properties of $\text{Ba}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Microwave Dielectrics: III. Effect of the Muffling Environment. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060428035142002-???	3.8	1
39	Influence of Non-Stoichiometry on the Structure and Properties of $\text{Ba}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Microwave Dielectrics. IV. Tuning Band and the Part Size Dependence of Q _u . <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060428035142007-???	3.8	
38	Effect of Ordering-Induced Domain Boundaries on Low-Loss $\text{Ba}(\text{Zn}_{1/3}\text{Ta}_{2/3})\text{O}_3$ - BaZrO_3 Perovskite Microwave Dielectrics. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1727-1740	3.8	249
37	Ordering-Induced Microstructures and Microwave Dielectric Properties of the $\text{Ba}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - BaZrO_3 System. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 670-676	3.8	149
36	Structure and Dielectric Properties of the $\text{Ba}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{La}(\text{Mg}_{2/3}\text{Nb}_{1/3})\text{O}_3$ System. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2205-2208	3.8	37
35	Structure and Dielectric Properties of $\text{Pb}(\text{Sc}_{2/3}\text{W}_{1/3})\text{O}_3$ - $\text{Pb}(\text{Zr}/\text{Ti})\text{O}_3$ Relaxors. <i>Journal of the American Ceramic Society</i> , 2005 , 87, 2086-2092	3.8	16
34	Formation and Structural Characterization of 1:1 Ordered Perovskites in the $\text{Ba}(\text{Zn}_{1/3}\text{Ta}_{2/3})\text{O}_3$ - BaZrO_3 System. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 3193-3198	3.8	57
33	Cation Ordering Transformations in the $\text{Ba}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{La}(\text{Zn}_{2/3}\text{Nb}_{1/3})\text{O}_3$ System. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1061-1064	3.8	40
32	Enhanced tetragonality in $(x)\text{PbTiO}_3-(1-x)\text{Bi}(\text{Zn}_{1/2}\text{Ti}_{1/2})\text{O}_3$ and related solid solution systems. <i>Applied Physics Letters</i> , 2005 , 86, 262905	3.4	224
31	Predicting morphotropic phase boundary locations and transition temperatures in Pb- and Bi-based perovskite solid solutions from crystal chemical data and first-principles calculations. <i>Journal of Applied Physics</i> , 2005 , 98, 094111	2.5	171
30	1:2 Cation order in $\text{A}(\text{Li}_{1/3}(\text{Nb},\text{Ta})_{2/3})\text{O}_3$ microwave perovskites. <i>Applied Physics Letters</i> , 2004 , 84, 1347-1349	3.49	7
29	Crystalline Structure and Dielectric Properties of $\text{Li}_{1+x}\text{Nb}_{1-x}\text{ByTix+4yO}_3$ M-Phase Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 573-578	3.8	86
28	Potential and Impedance Imaging of Polycrystalline BiFeO_3 Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 3011-3017	3.8	78

27	A-Site and B-Site Order in $(\text{Na}_{1/2}\text{La}_{1/2})(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ Perovskite. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 859-863	3.8	13
26	Effect of V_2O_5 Doping on the Sintering and Dielectric Properties of M-Phase $\text{Li}_{1+x}\text{Nb}_{1-y}\text{ByTi}_{x+4y}\text{O}_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1047-1052	3.8	62
25	1:1 Ordered Domain Growth in $\text{Pb}(\text{Mg}_{1/3}\text{Ta}_{2/3})\text{O}_3$ - $\text{La}(\text{Mg}_{2/3}\text{Ta}_{1/3})\text{O}_3$ Relaxor Ferroelectric Perovskites. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 3481-3484	3.8	19
24	Ordered perovskites in the $\text{A}_2+(\text{Li}_{1/4}\text{Nb}_{3/4})\text{O}_3$ - $\text{A}_2+(\text{Li}_{2/5}\text{W}_{3/5})\text{O}_3$ ($\text{A}_2+=\text{Sr, Ca}$) systems. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 4305-4315	3.3	9
23	Non-stoichiometric 1:2 ordered perovskites in the $\text{Ba}(\text{Li}_{1/4}\text{Nb}_{3/4})\text{O}_3$ - $\text{Ba}(\text{Li}_{2/5}\text{W}_{3/5})\text{O}_3$ system. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 3469-3478	3.3	12
22	Influence of Cation Order on the Dielectric Properties of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{Pb}(\text{Sc}_{1/2}\text{Nb}_{1/2})\text{O}_3$ (PMN-PSN) Relaxor Ferroelectrics. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1861-1866	3.8	38
21	Cation Ordering in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{Pb}(\text{Sc}_{1/2}\text{Nb}_{1/2})\text{O}_3$ (PMN-PSN) Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2319-2324	3.8	31
20	Synthesis and Dielectric Properties of $\text{Li}_{1-x}\text{Ta}_{1-y}\text{ByTi}_{x+4y}\text{O}_3$ M-Phase Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2487-2491	3.8	31
19	Analysis of phase distributions in the Li_2O - Nb_2O_5 - TiO_2 system by piezoresponse imaging. <i>Journal of Materials Research</i> , 2001 , 16, 329-332	2.5	8
18	Thermally Induced Coarsening of the Chemically Ordered Domains in $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ (PMN)-Based Relaxor Ferroelectrics. <i>Journal of the American Ceramic Society</i> , 2000 , 83, 119-23	3.8	39
17	Crystal Chemistry and Dielectric Properties of Chemically Substituted $(\text{Bi}_{1.5}\text{Zn}_{1.0}\text{Nb}_{1.5})\text{O}_7$ and $\text{Bi}_2(\text{Zn}_{2/3}\text{Nb}_{4/3})\text{O}_7$ Pyrochlores. <i>Journal of the American Ceramic Society</i> , 2000 , 83, 147-53	3.8	142
16	Growth of the chemically ordered domains in PMN-type relaxor ferroelectrics. <i>Ferroelectrics</i> , 1999 , 221, 27-36	0.6	15
15	Processing and characterization of lead magnesium tantalate ceramics. <i>Journal of Materials Research</i> , 1997 , 12, 2617-2622	2.5	50
14	Domain Growth in $\text{Pb}(\text{Mg}_{1/3}\text{Ta}_{2/3})\text{O}_3$ Perovskite Relaxor Ferroelectric Oxides. <i>Journal of the American Ceramic Society</i> , 1997 , 80, 2933-2936	3.8	155
13	Nonequilibrium Phase Formation in Oxides Prepared at Low Temperature: Fergusonite-Related Phases. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2737-2745	3.8	54
12	Low-Temperature Phase Equilibria in the Y-Ba-Cu-O System. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 1745-1752	3.8	22
11	Stabilization of Ordered Zirconium Titanates through the Chemical Substitution of Ti^{4+} by $\text{Al}^{3+}/\text{Ta}^{5+}$. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 743-748	3.8	12
10	Low-Temperature Synthesis and Phase Equilibria in the Y-Cu-O Binary System. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 1139-1142	3.8	4

9	Effect of Sn Substitution on Cation Ordering in $(Zr_{1-x}Sn_x)TiO_4$ Microwave Dielectric Ceramics. <i>Journal of the American Ceramic Society</i> , 1994 , 77, 1441-1450	3.8	98
8	Influence of Internal Interfaces on the Dielectric Properties of Ceramic Microwave Resonators. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 357, 351		3
7	Structure of Commensurate and Incommensurate Ordered Phases in the System $ZrTiO_4$ - $r5Ti_7O_{24}$. <i>Journal of the American Ceramic Society</i> , 1992 , 75, 563-569	3.8	73
6	Formation and Stabilization of Extended Defects in Zirconia Titanate Microwave Ceramics. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 249, 337		
5	New Phases in the CaO - M_2O_3 - TiO_2 (M = Nd, Gd, Y) Systems at 1000°C. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 569-573	3.8	24
4	Thermodynamic Study of Reduced Phases in the $BaLa_4Cu_5O_{13.1}$ System. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1011-1014	3.8	3
3	High Tc ceramic superconductors: introduction, background, and challenges to the electron microscopist. <i>Journal of Electron Microscopy Technique</i> , 1988 , 8, 247-50		4
2	Thermodynamic Mixing Properties of Sodium-Potassium γ -Aluminas. <i>Journal of the American Ceramic Society</i> , 1986 , 69, C-62-C-64	3.8	1
1	Oxide Reduction in NiO-Containing Solid-Solution Systems During Transmission Electron Microscopy. <i>Journal of the American Ceramic Society</i> , 1986 , 69, C-124-C-125	3.8	2