

Peter K Davies

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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	Perovskite oxides for visible-light-absorbing ferroelectric and photovoltaic materials. <i>Nature</i> , 2013 , 503, 509-12	50.4	883
61	Effect of Ordering-Induced Domain Boundaries on Low-Loss Ba(Zn _{1/3} Ta _{2/3})O ₃ -BaZrO ₃ Perovskite Microwave Dielectrics. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1727-1740	3.8	249
60	Enhanced tetragonality in (x)PbTiO ₃ -(1-x)Bi(Zn _{1/3} Ti _{2/3})O ₃ and related solid solution systems. <i>Applied Physics Letters</i> , 2005 , 86, 262905	3.4	224
59	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
58	Domain Growth in Pb(Mg _{1/3} Ta _{2/3})O ₃ Perovskite Relaxor Ferroelectric Oxides. <i>Journal of the American Ceramic Society</i> , 1997 , 80, 2933-2936	3.8	155
57	Ordering-Induced Microstructures and Microwave Dielectric Properties of the Ba(Mg _{1/3} Nb _{2/3})O ₃ BaZrO ₃ System. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 670-676	3.8	149
56	Crystal Chemistry and Dielectric Properties of Chemically Substituted (Bi _{1.5} Zn _{1.0} Nb _{1.5})O ₇ and Bi ₂ (Zn _{2/3} Nb _{4/3})O ₇ Pyrochlores. <i>Journal of the American Ceramic Society</i> , 2000 , 83, 147-53	3.8	142
55	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
54	Nano-chessboard superlattices formed by spontaneous phase separation in oxides. <i>Nature Materials</i> , 2007 , 6, 586-91	27	94
53	Crystalline Structure and Dielectric Properties of Li _{1+x} Nb _{1-x} ByTix+4yO ₃ M-Phase Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 573-578	3.8	86
52	Potential and Impedance Imaging of Polycrystalline BiFeO ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 3011-3017	3.8	78
51	Structure of Commensurate and Incommensurate Ordered Phases in the System ZrTiO ₄ r5Ti7O ₂₄ . <i>Journal of the American Ceramic Society</i> , 1992 , 75, 563-569	3.8	73
50	Effect of V ₂ O ₅ Doping on the Sintering and Dielectric Properties of M-Phase Li _{1+x} Nb _{1-x} ByTix+4yO ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1047-1052	3.8	62
49	Formation and Structural Characterization of 1:1 Ordered Perovskites in the Ba(Zn _{1/3} Ta _{2/3})O ₃ BaZrO ₃ System. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 3193-3198	3.8	57
48	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
47	Enhanced tetragonality in (x)PbTiO ₃ (1-x)Bi(B?B?)O ₃ systems: Bi(Zn _{3/4} W _{1/4})O ₃ . <i>Applied Physics Letters</i> , 2006 , 89, 132907	3.4	52
46	Processing and characterization of lead magnesium tantalate ceramics. <i>Journal of Materials Research</i> , 1997 , 12, 2617-2622	2.5	50

45	Resonant domain-wall-enhanced tunable microwave ferroelectrics. <i>Nature</i> , 2018 , 560, 622-627	50.4	48
44	Pb-free semiconductor ferroelectrics: A theoretical study of Pd-substituted Ba(Ti $_{1-x}$ Ce $_x$)O $_3$ solid solutions. <i>Physical Review B</i> , 2010 , 82,	3.3	45
43	Cation Ordering Transformations in the Ba(Zn $_{1/3}$ Nb $_{2/3}$)O $_3$ -La(Zn $_{2/3}$ Nb $_{1/3}$)O $_3$ System. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1061-1064	3.8	40
42	Thermally Induced Coarsening of the Chemically Ordered Domains in Pb(Mg $_{1/3}$ Nb $_{2/3}$)O $_3$ (PMN)-Based Relaxor Ferroelectrics. <i>Journal of the American Ceramic Society</i> , 2000 , 83, 119-23	3.8	39
41	Influence of Cation Order on the Dielectric Properties of Pb(Mg $_{1/3}$ Nb $_{2/3}$)O $_3$ Pb(Sc $_{1/2}$ Nb $_{1/2}$)O $_3$ (PMN-PSN) Relaxor Ferroelectrics. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 1861-1866	3.8	38
40	Structure and Dielectric Properties of the Ba(Mg $_{1/3}$ Nb $_{2/3}$)O $_3$ -La(Mg $_{2/3}$ Nb $_{1/3}$)O $_3$ System. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2205-2208	3.8	37
39	Cation Ordering in Pb(Mg $_{1/3}$ Nb $_{2/3}$)O $_3$ Pb(Sc $_{1/2}$ Nb $_{1/2}$)O $_3$ (PMN/PSN) Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2319-2324	3.8	31
38	Synthesis and Dielectric Properties of Li $_{1-x}$ YTa $_{1-x}$ ByTix+4yO $_3$ M-Phase Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2487-2491	3.8	31
37	Materials Design of Visible-Light Ferroelectric Photovoltaics from First Principles. <i>Ferroelectrics</i> , 2015 , 483, 1-12	0.6	27
36	Neutron Powder Diffraction of (Nd $_{7/12}$ Li $_{1/4}$)TiO $_3$ Nano-Checkerboard Superlattices. <i>Chemistry of Materials</i> , 2008 , 20, 2860-2862	9.6	26
35	New Phases in the CaO $_M$ 2O $_3$ TuO (M = Nd, Gd, Y) Systems at 1000°C. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 569-573	3.8	24
34	Spontaneous compositional nanopatterning in Li-containing perovskite oxides. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17168-73	16.4	22
33	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
32	Ferroelectric, Optical, and Photovoltaic Properties of Morphotropic Phase Boundary Compositions in the PbTiO $_3$ BiFeO $_3$ Bi(Ni $_{1/2}$ Ti $_{1/2}$)O $_3$ System. <i>Chemistry of Materials</i> , 2019 , 31, 4184-4194	9.6	21
31	Structural and ferroelectric phase evolution in [KNbO $_3$] $_1$ [BaNi $_{1/2}$ Nb $_{1/2}$ O $_3$] $_x$ (x=0,0.1). <i>Physical Review B</i> , 2017 , 96,	3.3	20
30	Semiconducting ferroelectric perovskites with intermediate bands via B-site Bi $^{5+}$ doping. <i>Physical Review B</i> , 2014 , 90,	3.3	19
29	Pb-free ferroelectrics investigated with density functional theory: SnAl $_{1/2}$ Nb $_{1/2}$ O $_3$ perovskites. <i>Physical Review B</i> , 2011 , 83,	3.3	19
28	1:1 Ordered Domain Growth in Pb(Mg $_{1/3}$ Ta $_{2/3}$)O $_3$ -La(Mg $_{2/3}$ Ta $_{1/3}$)O $_3$ Relaxor Ferroelectric Perovskites. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 3481-3484	3.8	19

27	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
26	Growth of the chemically ordered domains in PMN-type relaxor ferroelectrics. <i>Ferroelectrics</i> , 1999 , 221, 27-36	0.6	15
25	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
24	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
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	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
21	Nanocheckerboard modulations in $(\text{NaNd})(\text{MgW})\text{O}_6$. <i>Applied Physics Letters</i> , 2010 , 97, 123101	3.4	11
20	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
19	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
18	Ordered perovskites in the $\text{A}_2+(\text{Li}_{1/4}\text{Nb}_{3/4})\text{O}_3/\text{A}_2+(\text{Li}_{2/5}\text{W}_{3/5})\text{O}_3$ ($\text{A}_2+=\text{Sr}, \text{Ca}$) systems. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 4305-4315	3.3	9
17	Tunable high Q perovskite dielectrics in the $\text{BaO}/\text{NiO}/\text{Ta}_2\text{O}_5$ system. <i>Journal of Materials Science</i> , 2011 , 46, 4715-4718	4.3	8
16	Multiple dielectric transitions in the 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
15	Analysis of phase distributions in the $\text{Li}_2\text{O}/\text{Nb}_2\text{O}_5/\text{TiO}_2$ system by piezoresponse imaging. <i>Journal of Materials Research</i> , 2001 , 16, 329-332	2.5	8
14	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	3.4	7
13	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
12	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
11	Reply to R Nanoscale phase separation in perovskites revisitedR <i>Nature Materials</i> , 2014 , 13, 217-8	27	4
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	High Tc ceramic superconductors: introduction, background, and challenges to the electron microscopist. <i>Journal of Electron Microscopy Technique</i> , 1988 , 8, 247-50		4
8	Polarization-Modulated Photovoltaic Effect at the Morphotropic Phase Boundary in Ferroelectric Ceramics. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100144	6.4	4
7	Influence of Internal Interfaces on the Dielectric Properties of Ceramic Microwave Resonators. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 357, 351		3
6	Thermodynamic Study of Reduced Phases in the BaLa ₄ Cu ₅ O _{13.1} System. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1011-1014	3.8	3
5	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
4	Influence of Non-Stoichiometry on the Structure and Properties of Ba(Zn _{1/3} Nb _{2/3})O ₃ Microwave Dielectrics: III. Effect of the Muffling Environment. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 060428035142002-???	3.8	1
3	Thermodynamic Mixing Properties of Sodium-Potassium α -Aluminas. <i>Journal of the American Ceramic Society</i> , 1986 , 69, C-62-C-64	3.8	1
2	Influence of Non-Stoichiometry on the Structure and Properties of Ba(Zn _{1/3} Nb _{2/3})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	
1	Formation and Stabilization of Extended Defects in Zirconia Titanate Microwave Ceramics. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 249, 337		