

Ray L Withers

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#	Paper	IF	Citations
345	An orthophosphate semiconductor with photooxidation properties under visible-light irradiation. <i>Nature Materials</i> , 2010 , 9, 559-64	27	1648
344	Electron-pinned defect-dipoles for high-performance colossal permittivity materials. <i>Nature Materials</i> , 2013 , 12, 821-6	27	541
343	Structure refinement of commensurately modulated bismuth strontium tantalate, Bi ₂ SrTa ₂ O ₉ . <i>Acta Crystallographica Section B: Structural Science</i> , 1992 , 48, 418-428		332
342	Structure refinement of commensurately modulated bismuth titanate, Bi ₄ Ti ₃ O ₁₂ . <i>Acta Crystallographica Section B: Structural Science</i> , 1990 , 46, 474-487		297
341	The crystal chemistry underlying ferroelectricity in Bi ₄ Ti ₃ O ₁₂ , Bi ₃ TiNbO ₉ , and Bi ₂ WO ₆ . <i>Journal of Solid State Chemistry</i> , 1991 , 94, 404-417	3.3	271
340	Antiferroelectrics for Energy Storage Applications: a Review. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800111	6.8	184
339	Structural transitions and complex domain structures across a ferroelectric-to-antiferroelectric phase boundary in epitaxial Sm-doped BiFeO ₃ thin films. <i>Physical Review B</i> , 2009 , 80,	3.3	153
338	Large Electric Field-Induced Strain and Antiferroelectric Behavior in (1-x)(Na _{0.5} Bi _{0.5})TiO ₃ -xBaTiO ₃ Ceramics. <i>Chemistry of Materials</i> , 2011 , 23, 219-228	9.6	147
337	Colossal Dielectric Behavior of Ga+Nb Co-Doped Rutile TiO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25321-5	9.5	140
336	Colossal Dielectric Permittivity in (Nb+Al) Codoped Rutile TiO ₂ Ceramics: Compositional Gradient and Local Structure. <i>Chemistry of Materials</i> , 2015 , 27, 4934-4942	9.6	130
335	Composition-induced antiferroelectric phase and giant strain in lead-free (Na _y Bi _z)Ti _{1-x} O ₃ (1-x)BaTiO ₃ ceramics. <i>Physical Review B</i> , 2011 , 83,	3.3	122
334	An examination of the formation and characteristics of charge-density waves in inorganic materials with special reference to the two- and one-dimensional transition-metal chalcogenides. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 4809-4845		117
333	A Review of Bismuth-Rich Binary Oxides in the Systems Bi ₂ O ₃ Nb ₂ O ₅ , Bi ₂ O ₃ Ta ₂ O ₅ , Bi ₂ O ₃ MoO ₃ , and Bi ₂ O ₃ WO ₃ . <i>Journal of Solid State Chemistry</i> , 1998 , 137, 42-61	3.3	103
332	Structurally frustrated relaxor ferroelectric behavior in CaCu ₃ Ti ₄ O ₁₂ . <i>Physical Review B</i> , 2005 , 72,	3.3	100
331	Local crystal chemistry, induced strain and short range order in the cubic pyrochlore (Bi _{1.5} Zn _{0.5})(Zn _{0.5} Nb _{1.5})O ₇ (7 _{1/2} 5 _{1/2} 5 _{1/2}) (BZN). <i>Journal of Solid State Chemistry</i> , 2004 , 177, 231-244	3.3	98
330	Structure refinement of commensurately modulated bismuth tungstate, Bi ₂ WO ₆ . <i>Acta Crystallographica Section B: Structural Science</i> , 1991 , 47, 870-881		95
329	Phase relations, structure and crystal chemistry of some aluminous silicate perovskites. <i>Earth and Planetary Science Letters</i> , 1995 , 134, 187-201	5.3	91

328	Colossal permittivity with ultralow dielectric loss in In + Ta co-doped rutile TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5436-5441	13	87
327	Atomic ordering in the doped rare earth cobaltates Ln _{0.33} Sr _{0.67} CoO ₃ (Ln=Y ³⁺ , Ho ³⁺ and Dy ³⁺). <i>Journal of Solid State Chemistry</i> , 2003 , 174, 198-208	3.3	85
326	The phase diagram and tetragonal superstructures of the rare earth cobaltate phases Ln _{1-x} Sr _x CoO ₃ (Ln=La ³⁺ , Pr ³⁺ , Nd ³⁺ , Sm ³⁺ , Gd ³⁺ , Y ³⁺ , Ho ³⁺ , Dy ³⁺ , Er ³⁺ , Tm ³⁺ and Yb ³⁺). <i>Journal of Solid State Chemistry</i> , 2004 , 177, 1886-1895	3.3	84
325	Synthesis and Characterization of Mesostructured Vanadium Oxide. <i>Chemistry of Materials</i> , 1995 , 7, 2220-2223	9.7	81
324	The Al-Mn decagonal phase 1. A re-evaluation of some diffraction effects 2. Relationship to crystalline phases. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1988 , 58, 15-33		71
323	Giant Magnetodielectric Effect in 0B Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ -Poly(vinylidene-fluoride) Nanocomposite Films. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13861-13866	3.8	70
322	Systematic Structural Change in Selected Rare Earth Oxide Pyrochlores as Determined by Wide-Angle CBED and a Comparison with the Results of Atomistic Computer Simulation. <i>Journal of Solid State Chemistry</i> , 2000 , 153, 16-25	3.3	69
321	The synthesis and structure of Ba ₂ Cu ₃ O ₅ + δ . <i>Materials Research Bulletin</i> , 1989 , 24, 505-515	5.1	69
320	Structure and Phase Transitions of SnP ₂ O ₇ . <i>Journal of Solid State Chemistry</i> , 2002 , 166, 42-48	3.3	67
319	Revised structure of Bi ₃ TiNbO ₉ . <i>Acta Crystallographica Section B: Structural Science</i> , 1991 , 47, 174-180		65
318	Atmospheric degradation of the high-temperature superconductor, YBa ₂ Cu ₃ O _{7-x} . <i>Materials Research Bulletin</i> , 1987 , 22, 1715-1724	5.1	63
317	Charge-density-wave transitions in 1T-VSe ₂ . <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 359-367		63
316	The oxygen positional parameter in pyrochlores and its dependence on disorder. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002 , 82, 123-135		61
315	An in Situ Temperature-Dependent Electron and X-ray Diffraction Study of Structural Phase Transitions in ZrV ₂ O ₇ . <i>Journal of Solid State Chemistry</i> , 1998 , 137, 161-167	3.3	57
314	A 3D Model for the Diffuse Scattering in Cubic Stabilized Zirconias. <i>Journal of Solid State Chemistry</i> , 1993 , 106, 461-475	3.3	56
313	An electron diffraction and lattice-dynamical study of the diffuse scattering in Cristobalite, SiO ₂ . <i>Journal of Applied Crystallography</i> , 1988 , 21, 458-465	3.8	56
312	Space Group and Structure for the Perovskite Ca _{0.5} Sr _{0.5} TiO ₃ . <i>Journal of Solid State Chemistry</i> , 2001 , 160, 8-12	3.3	54
311	The room-temperature structure of the ~90-K superconducting phase YBa ₂ Cu ₃ O _{7-x} . <i>Nature</i> , 1987 , 327, 402-403	50.4	54

310	Structurally frustrated polar nanoregions in BaTiO ₃ -based relaxor ferroelectric systems. <i>Applied Physics Letters</i> , 2007 , 91, 152907	3.4	51
309	The structure and microstructure of β -cristobalite and its relationship to α -cristobalite. <i>Physics and Chemistry of Minerals</i> , 1989 , 16, 517-523	1.6	51
308	A transmission electron microscope and group theoretical study of the new Bi-based high-T _c superconductors and some closely related Aurivillius phases. <i>Journal of Physics C: Solid State Physics</i> , 1988 , 21, 6067-6083		50
307	The pyrochlore to β -defect fluorite transition in the Y ₂ (Zr _{1-x} Ti _x) ₂ O ₇ system and its underlying crystal chemistry. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 4404-4412	3.3	48
306	Effect of Annealing Temperature on the Morphology and Piezoresponse Characterisation of Poly(vinylidene fluoride-trifluoroethylene) Films via Scanning Probe Microscopy. <i>Advances in Condensed Matter Physics</i> , 2013 , 2013, 1-5	1	47
305	Compositionally and/or displacively flexible systems and their underlying crystal chemistry. <i>Progress in Solid State Chemistry</i> , 1998 , 26, 1-96	8	44
304	An Electron Diffraction and Crystal Chemical Investigation of Oxygen/Fluorine Ordering in Rutile-Type Iron Oxyfluoride, FeOF. <i>Journal of Solid State Chemistry</i> , 2000 , 155, 359-365	3.3	44
303	Diffuse scattering in yttria-stabilized cubic zirconia. <i>Journal of Solid State Chemistry</i> , 1992 , 100, 71-89	3.3	44
302	Microstructural behaviour in the CDW states of NbTe ₄ and TaTe ₄ ; domains, discommensurations and superlattice symmetry. <i>Journal of Physics C: Solid State Physics</i> , 1985 , 18, 1-11		43
301	Atomic-scale control of TiO ₆ octahedra through solution chemistry towards giant dielectric response. <i>Scientific Reports</i> , 2014 , 4, 6582	4.9	42
300	Structured diffuse scattering and polar nano-regions in the Ba(Ti _{1-x} Sn _x)O ₃ relaxor ferroelectric system. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 858-865	3.3	42
299	An optical transform and Monte Carlo study of the disorder in β -cristobalite SiO ₂ . <i>Journal of Applied Crystallography</i> , 1989 , 22, 87-95	3.8	42
298	Incipient modulation in the new high-temperature superconductor: Tl ₂ Ba. <i>Physical Review Letters</i> , 1988 , 60, 2797-2799	7.4	42
297	A New Three-Dimensional Incommensurately Modulated Cubic Phase (in ZrP ₂ O ₇) and Its Symmetry Characterization via Temperature-Dependent Electron Diffraction. <i>Journal of Solid State Chemistry</i> , 2001 , 157, 186-192	3.3	41
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295	The local crystal chemistry and dielectric properties of the cubic pyrochlore phase in the Bi ₂ O ₃ M ₂ +ONb ₂ O ₅ (M ₂ + = Ni ²⁺ and Mg ²⁺) systems. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 549-557	3.3	40
294	Oxygen vacancy ordering in strontium doped rare earth cobaltate perovskites Ln _{1-x} SrxCoO _{3-x} (Ln=La, Pr and Nd; x>0.60). <i>Materials Research Bulletin</i> , 2005 , 40, 990-1000	5.1	39
293	Annular dynamical disorder of the rare earth ions in a La ₂ Zr ₂ O ₇ pyrochlore via single crystal synchrotron X-ray diffraction. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2001 , 216, 92-98	1	39

292	A Modulation Wave Approach to Understanding the Disordered Structure of Cubic Stabilized Zirconias (CSZs). <i>Journal of Solid State Chemistry</i> , 1995 , 115, 43-54	3-3	38
291	Ca-Doping of BiFeO ₃ : The Role of Strain in Determining Coupling between Ferroelectric Displacements, Magnetic Moments, Octahedral Tilting, and Oxygen-Vacancy Ordering. <i>Chemistry of Materials</i> , 2013 , 25, 4436-4446	9.6	37
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282	The Formation of Defect-Pairs for Highly Efficient Visible-Light Catalysts. <i>Advanced Materials</i> , 2017 , 29, 1605123	24	33
281	Displacive disorder and dielectric relaxation in the stoichiometric bismuth-containing pyrochlores, Bi ₂ M ₂ INbO ₇ (M=In and Sc). <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2748-2755	3-3	33
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253	Intergrowth polytypoids as modulated structures: the example of the cation deficient oxides LaTi _{1-x} O ₃ . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2000 , 215,	1	25
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250	Design Synthesis of Nitrogen-Doped TiO ₂ @Carbon Nanosheets toward Selective Nitroaromatics Reduction under Mild Conditions. <i>ACS Catalysis</i> , 2017 , 7, 6991-6998	13.1	24
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248	Structures of Bi ₁₄ WO ₂₄ and Bi ₁₄ MoO ₂₄ from neutron powder diffraction data. <i>Acta Crystallographica Section B: Structural Science</i> , 1999 , 55, 306-312		24
247	Diffuse absences due to the atomic size effect. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1992 , 48, 737-746		24
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242	An electron diffraction and bond valence sum study of the space group symmetries and structures of the photocatalytic 1:1 ordered A ₂ InNbO ₆ double perovskites (A=Ca ²⁺ , Sr ²⁺ , Ba ²⁺). <i>Journal of Solid State Chemistry</i> , 2004 , 177, 979-986	3.3	23
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240	Study of modulated structures by transmission electron microscopy. <i>Ultramicroscopy</i> , 1985 , 18, 97-110	3.1	23
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- 230 Piezoresponse force microscopy studies on the domain structures and local switching behavior of $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3\text{-Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ single crystals. *Journal of Applied Physics*, **2012**, 112, 052006 2.5 21
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- 225 Incommensurate composite modulated $\text{Nb}_2\text{ZrxTe}_{2x+1}$: $x = 7.1 \pm 0.3$. *Journal of Solid State Chemistry*, **1990**, 88, 465-475 3.3 21
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