

# Anthony R West

## List of Publications by Citations

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#	Paper	IF	Citations
369	Electroceramics: Characterization by Impedance Spectroscopy. <i>Advanced Materials</i> , <b>1990</b> , 2, 132-138	24	1700
368	CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> : One-step internal barrier layer capacitor. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 2153-2155	3.4	1287
367	Impedance and modulus spectroscopy of semiconducting BaTiO <sub>3</sub> showing positive temperature coefficient of resistance. <i>Journal of Applied Physics</i> , <b>1989</b> , 66, 3850-3856	2.5	932
366	Giant Barrier Layer Capacitance Effects in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. <i>Advanced Materials</i> , <b>2002</b> , 14, 1321-1323	3.3	716
365	The determination of hopping rates and carrier concentrations in ionic conductors by a new analysis of ac conductivity. <i>Solid State Ionics</i> , <b>1983</b> , 8, 159-164	3.3	425
364	Characterization of grain boundary impedances in fine- and coarse-grained CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	382
363	Electrical and structural characteristics of lanthanum-doped barium titanate ceramics. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 6355-6366	2.5	300
362	Characterization of Electrical Materials, Especially Ferroelectrics, by Impedance Spectroscopy <b>1997</b> , 1, 65-71		291
361	Electronic Conductivity of LiCoO <sub>2</sub> and Its Enhancement by Magnesium Doping. <i>Journal of the Electrochemical Society</i> , <b>1997</b> , 144, 3164-3168	3.9	273
360	Characterization of Lanthanum-Doped Barium Titanate Ceramics Using Impedance Spectroscopy. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 531-538	3.8	238
359	Novel high capacitance materials:- BaTiO <sub>3</sub> :La and CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Journal of the European Ceramic Society</i> , <b>2004</b> , 24, 1439-1448	6	233
358	Influence of Processing Conditions on the Electrical Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 3129-3135	3.8	226
357	The A-C Conductivity of Polycrystalline LISICON, Li <sub>2</sub> + 2x Zn <sub>1-x</sub> GeO <sub>4</sub> , and a Model for Intergranular Constriction Resistances. <i>Journal of the Electrochemical Society</i> , <b>1983</b> , 130, 662-669	3.9	223
356	Impedance Spectroscopy of Undoped BaTiO <sub>3</sub> Ceramics. <i>Journal of the American Ceramic Society</i> , <b>1996</b> , 79, 1633-1641	3.8	221
355	Impedance and modulus spectroscopy of real dispersive conductors. <i>Solid State Ionics</i> , <b>1983</b> , 11, 57-64	3.3	189
354	The extraction of ionic conductivities and hopping rates from a.c. conductivity data. <i>Journal of Materials Science</i> , <b>1984</b> , 19, 3236-3248	4.3	187
353	Temperature dependence of the a.c. conductivity of NaAlumina. <i>Solid State Communications</i> , <b>1982</b> , 44, 1277-1280	1.6	186

352	Anomalous conductivity prefactors in fast ion conductors. <i>Nature</i> , <b>1983</b> , 306, 456-457	50.4	179
351	Influence of Mn doping on the semiconducting properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 232903	3.4	175
350	High oxide ion conductivity in Ca <sub>12</sub> Al <sub>14</sub> O <sub>33</sub> . <i>Nature</i> , <b>1988</b> , 332, 525-526	50.4	172
349	5 V lithium cathodes based on spinel solid solutions Li <sub>2</sub> Co <sub>1-x</sub> Mn <sub>3x</sub> O <sub>8</sub> : -1991. <i>Electrochimica Acta</i> , <b>1999</b> , 45, 315-327	6.7	166
348	Origin(s) of the apparent high permittivity in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics: clarification on the contributions from internal barrier layer capacitor and sample-electrode contact effects. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 104106	2.5	155
347	Charge Compensation Mechanisms in La-Doped BaTiO <sub>3</sub> <b>2001</b> , 6, 219-232		148
346	Co-doped Mn <sub>3</sub> O <sub>4</sub> : a possible anode material for lithium batteries. <i>Journal of Power Sources</i> , <b>2005</b> , 141, 156-158	8.9	143
345	A Strategy for Analysis and Modelling of Impedance Spectroscopy Data of Electroceramics: Doped Lanthanum Gallate <b>2003</b> , 10, 165-177		136
344	The activation entropy for transport in ionic conductors. <i>Solid State Ionics</i> , <b>1987</b> , 23, 27-35	3.3	136
343	A novel enhancement of ionic conductivity in the cation-deficient apatite La <sub>9.33</sub> (SiO <sub>4</sub> ) <sub>6</sub> O <sub>2</sub> . <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 1978-1979		131
342	Electrical Properties of Ca-Doped BiFeO <sub>3</sub> Ceramics: From p-Type Semiconduction to Oxide-Ion Conduction. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2127-2132	9.6	126
341	High-voltage lithium cathode materials. <i>Journal of Power Sources</i> , <b>1999</b> , 81-82, 67-72	8.9	126
340	Effect of atmosphere on the PTCR properties of BaTiO <sub>3</sub> ceramics. <i>Journal of Materials Science</i> , <b>1994</b> , 29, 6061-6068	4.3	122
339	Preparation and crystal chemistry of some tetrahedral Li <sub>3</sub> PO <sub>4</sub> -type compounds. <i>Journal of Solid State Chemistry</i> , <b>1972</b> , 4, 20-28	3.3	118
338	An Alternative Explanation for the Origin of the Resistivity Anomaly in La-Doped BaTiO <sub>3</sub> . <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 474-76	3.8	117
337	Extrinsic origins of the apparent relaxorlike behavior in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics at high temperatures: A cautionary tale. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 084106	2.5	111
336	Phase equilibria in the system Li <sub>2</sub> O-TiO <sub>2</sub> . <i>Materials Research Bulletin</i> , <b>1980</b> , 15, 1655-1660	5.1	110
335	Structure and Electrochemical Properties of LiFe <sub>x</sub> Mn <sub>2-x</sub> O <sub>4</sub> (0 ≤ x ≤ 0.5) Spinel as 5 V Electrode Material for Lithium Batteries. <i>Journal of the Electrochemical Society</i> , <b>2001</b> , 148, A730	3.9	107

- 334 Coupling between octahedral tilting and ferroelectric order in tetragonal tungsten bronze-structured dielectrics. *Applied Physics Letters*, **2006**, 89, 122908 3.4 106
- 333 Doping mechanisms and electrical properties of La-doped BaTiO<sub>3</sub> ceramics. *Solid State Sciences*, **2001**, 3, 1205-1210 105
- 332 Crystal chemistry and physical properties of complex lithium spinels Li<sub>2</sub>MM<sub>2</sub>3O<sub>8</sub> (M=Mg, Co, Ni, Zn; M'=Ti, Ge). *Journal of Materials Chemistry*, **1998**, 8, 1273-1280 101
- 331 Phase diagrams and crystal chemistry in the Li<sup>+</sup> ion conducting perovskites, Li<sub>0.5</sub>B<sub>x</sub>RE<sub>0.5-x</sub>TiO<sub>3</sub>: ReLa, Nd. *Journal of Materials Chemistry*, **1995**, 5, 1405-1412 101
- 330 Oxygen Nonstoichiometry and Phase Transitions in LiMn<sub>1.5</sub>Ni<sub>0.5</sub>O<sub>4</sub>. *Journal of the Electrochemical Society*, **2008**, 155, A282 3.9 100
- 329 Dielectric and structural studies of Ba<sub>2</sub>MTi<sub>2</sub>Nb<sub>3</sub>O<sub>15</sub> (BMTNO<sub>15</sub>, M=Bi<sup>3+</sup>, La<sup>3+</sup>, Nd<sup>3+</sup>, Sm<sup>3+</sup>, Gd<sup>3+</sup>) tetragonal tungsten bronze-structured ceramics. *Journal of Applied Physics*, **2007**, 101, 104114 2.5 96
- 328 A review of cation-ordered rock salt superstructure oxides. *Journal of Materials Chemistry*, **2000**, 10, 2219-2230 94
- 327 Novel 5 V Spinel Cathode Li<sub>2</sub>FeMn<sub>3</sub>O<sub>8</sub> for Lithium Ion Batteries. *Chemistry of Materials*, **1998**, 10, 3266-3268 92
- 326 Li<sup>+</sup> ion conducting solid solutions in the systems Li<sub>4</sub>XO<sub>4</sub>-Li<sub>3</sub>YO<sub>4</sub>: X=Si, Ge, Ti; Y=P, As, V; Li<sub>4</sub>XO<sub>4</sub>-Li<sub>2</sub>ZO<sub>2</sub>: Z=Al, Ga, Cr and Li<sub>4</sub>GeO<sub>4</sub>-Li<sub>2</sub>CaGeO<sub>4</sub>. *Solid State Ionics*, **1985**, 15, 185-198 3.3 92
- 325 Comment on the origin(s) of the giant permittivity effect in CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> single crystals and ceramics. *Journal of Materials Chemistry*, **2009**, 19, 5916 91
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- 323 Ionic conductivity of oxides based on Li<sub>4</sub>SiO<sub>4</sub>. *Journal of Applied Electrochemistry*, **1973**, 3, 327-335 2.6 89
- 322 Ionic conductivity of LISICON solid solutions, Li<sub>2+2x</sub>Zn<sub>1-x</sub>GeO<sub>4</sub>. *Journal of Solid State Chemistry*, **1982**, 44, 354-365 3.3 86
- 321 Understanding Na Mobility in NASICON Materials: A Rietveld, <sup>23</sup>Na and <sup>31</sup>P MAS NMR, and Impedance Study. *Chemistry of Materials*, **1998**, 10, 665-673 9.6 85
- 320 Electrical properties of a LiTaO<sub>3</sub> single crystal. *Physical Review B*, **1989**, 39, 13486-13492 3.3 85
- 319 The electrical properties of ferroelectric LiTaO<sub>3</sub> and its solid solutions. *Journal of Applied Physics*, **1987**, 61, 5386-5391 2.5 83
- 318 Stoichiometry, structures and polymorphism of spinel-like phases, Li<sub>1.33x</sub>Zn<sub>2-2x</sub>Ti<sub>1+0.67x</sub>O<sub>4</sub>. *Journal of Materials Chemistry*, **1996**, 6, 1533 76
- 317 New Li<sup>+</sup> ion conductors in the system, Li<sub>4</sub>GeO<sub>4</sub>-Li<sub>3</sub>VO<sub>4</sub>. *Materials Research Bulletin*, **1980**, 15, 1661-1667 5.1 76

3 <sup>16</sup>	A novel cathode Li <sub>2</sub> CoMn <sub>3</sub> O <sub>8</sub> for lithium ion batteries operating over 5 volts. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 837-839		75
3 <sup>15</sup>	Compound and solid-solution formation in the system Li <sub>2</sub> O-Nb <sub>2</sub> O <sub>5</sub> -TiO <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , <b>1987</b> , 71, 103-108	3-3	75
3 <sup>14</sup>	Comment on the use of calcium as a dopant in X <sub>8</sub> R BaTiO <sub>3</sub> -based ceramics. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 142914	3-4	73
3 <sup>13</sup>	Structural characterisation of REBaCo <sub>2</sub> O <sub>6</sub> phases (RE=Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho). <i>Solid State Sciences</i> , <b>2005</b> , 7, 1149-1156	3-4	71
3 <sup>12</sup>	Electrical Properties of Polycrystalline Nickel Zinc Ferrites. <i>Journal of the American Ceramic Society</i> , <b>1990</b> , 73, 729-732	3-8	66
3 <sup>11</sup>	Order-disorder phenomena in oxides with rock salt structures: the system Li <sub>2</sub> TiO <sub>3</sub> -MgO. <i>Journal of Materials Science</i> , <b>1979</b> , 14, 450-454	4-3	65
3 <sup>10</sup>	High intrinsic permittivity in Na <sub>1-x</sub> Bi <sub>1-x</sub> Cu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Applied Physics Letters</i> , <b>2006</b> , 89, 212904	3-4	62
3 <sup>09</sup>	Ionic conductivity of Li <sub>4</sub> SiO <sub>4</sub> solid solutions in the system Li <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> . <i>Journal of Materials Science</i> , <b>1983</b> , 18, 2380-2384	4-3	62
3 <sup>08</sup>	Dielectric properties of spark-plasma-sintered BaTiO <sub>3</sub> . <i>Journal of Materials Science</i> , <b>1999</b> , 34, 917-924	4-3	59
3 <sup>07</sup>	Stoichiometry and stability of bismuth vanadate, Bi <sub>4</sub> V <sub>2</sub> O <sub>11</sub> , solid solutions. <i>Solid State Ionics</i> , <b>1993</b> , 62, 193-198	3-3	59
3 <sup>06</sup>	Energetics of Donor-Doping, Metal Vacancies, and Oxygen-Loss in A-Site Rare-Earth-Doped BaTiO <sub>3</sub> . <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3925-3928	15-6	56
3 <sup>05</sup>	Electrical properties of Fe-doped BaTiO <sub>3</sub> . <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 1626-1633		54
3 <sup>04</sup>	Oxygen Nonstoichiometry in Li <sub>2</sub> MnO <sub>3</sub> : An Alternative Explanation for Its Anomalous Electrochemical Activity. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 345-348	9-6	54
3 <sup>03</sup>	Electronic Conductivity in Yttria-Stabilized Zirconia under a Small dc Bias. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1552-1558	9-6	53
3 <sup>02</sup>	Synthesis and electrical properties of Nb-doped BaTiO <sub>3</sub> . <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 3114-3119		53
3 <sup>01</sup>	Synthesis and characterisation of lanthanum germanate-based apatite phases. <i>Solid State Ionics</i> , <b>2005</b> , 176, 1941-1947	3-3	53
3 <sup>00</sup>	Analysis of conductivity prefactors and ion hopping rates in AgI-Ag <sub>2</sub> MoO <sub>4</sub> glass. <i>Journal of Non-Crystalline Solids</i> , <b>1985</b> , 74, 285-301	3-9	53
2 <sup>99</sup>	Deviations from Vegard's law in oxide solid solutions. The systems Li <sub>2</sub> TiO <sub>3</sub> -MgO and Li <sub>2</sub> TiO <sub>3</sub> -Na <sub>2</sub> TiO <sub>3</sub> . <i>Journal of the Chemical Society Faraday Transactions I</i> , <b>1980</b> , 76, 2159		53

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- 297 Phase diagram of the LISICON, solid electrolyte system,  $\text{Li}_4\text{GeO}_4\text{-Zn}_2\text{GeO}_4$ . *Materials Research Bulletin*, **1980**, 15, 379-385 5.1 51
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- 292 Electrical Properties of Stoichiometric  $\text{BiFeO}_3$  Prepared by Mechano-synthesis with Either Conventional or Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2013**, 96, 1220-1227 3.8 47
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- 288 Polymorphism, Phase Transitions, and Thermal Stability of L-Pyroglutamic Acid. *Crystal Growth and Design*, **2010**, 10, 3141-3148 3.5 44
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- 286 Formation and Stability of Ferroelectric  $\text{BaTi}_2\text{O}_5$ . *Journal of the American Ceramic Society*, **2010**, 93, 295-300 4.3 43
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- 283 The Effect on Cathode Performance of Oxygen Non-Stoichiometry and Interlayer Mixing in Layered Rock Salt  $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ . *Journal of the Electrochemical Society*, **2012**, 159, A396-A401 3.9 42
- 282 A new family of ferroelectric tetragonal tungsten bronze phases,  $\text{Ba}_2\text{MTi}_2\text{X}_3\text{O}_{15}$ . *Journal of the European Ceramic Society*, **2005**, 25, 2471-2475 6 42
- 281 Single phase, electrically insulating, multiferroic La-substituted  $\text{BiFeO}_3$  prepared by mechano-synthesis. *Journal of Materials Chemistry C*, **2014**, 2, 8398-8411 7.1 40

280	Phase equilibria and electrical properties of pyrochlore and zirconolite phases in the $\text{Bi}_2\text{O}_3\text{-ZrO}_2\text{-La}_2\text{O}_5$ system. <i>Journal of the European Ceramic Society</i> , <b>2012</b> , 32, 671-680	6	40
279	Phase transition hysteresis and anomalous Curie-Weiss behavior of ferroelectric tetragonal tungsten bronzes $\text{Ba}_2\text{RETi}_2\text{Nb}_3\text{O}_{15}$ :RE=Nd,Sm. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 104118	2.5	40
278	Temperature-dependent crystal structure of ferroelectric $\text{Ba}_2\text{LaTi}_2\text{Nb}_3\text{O}_{15}$ . <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 798		40
277	A new analysis of ac conductivity data in single crystal $\alpha$ -alumina. <i>Solid State Ionics</i> , <b>1982</b> , 7, 57-60	3.3	40
276	Sodium Mobility in the NASICON Series $\text{Na}_{1+x}\text{Zr}_2\text{-xIn}_x(\text{PO}_4)_3$ . <i>Chemistry of Materials</i> , <b>2000</b> , 12, 2134-2142	2.6	39
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274	Crystal chemistry of some tetrahedral oxides. <i>Zeitschrift Für Kristallographie</i> , <b>1975</b> , 141, 422-436		39
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264	Ho-doped $\text{BaTiO}_3$ : Polymorphism, phase equilibria and dielectric properties of $\text{BaTi}_{1-x}\text{HoxO}_3$ : $\text{O}_x$ . <i>Journal of the European Ceramic Society</i> , <b>2009</b> , 29, 3249-3257	6	34
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- 260 Incipient ferroelectricity and microwave dielectric resonance properties of CaCu<sub>2.85</sub>Mn<sub>0.15</sub>Ti<sub>4</sub>O<sub>12</sub> ceramics. *Applied Physics Letters*, **2007**, 91, 132911 3.4 31
- 259 New Interpretation of Mechanical and Electrical Relaxation Peaks in  $\alpha$ -Alumina. *Physical Review Letters*, **1981**, 47, 431-435 7.4 31
- 258 Phase Transformations of Glutamic Acid and Its Decomposition Products. *Crystal Growth and Design*, **2010**, 10, 988-994 3.5 30
- 257 Synthesis of Cs<sub>2</sub>BeSi<sub>5</sub>O<sub>12</sub> with a pollucite structure. *Journal of Solid State Chemistry*, **1984**, 51, 100-103 3.3 30
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10	Phase Formation, Crystallography, and Ionic Conductivity of Lithium Manganese Orthosilicates. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 715-723	5.1	1
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8	Flash phenomena in lime-stabilised zirconia oxide ion conductor. <i>Energy Reports</i> , <b>2020</b> , 6, 142-147	4.6	0
7	Electrical properties of yttria-stabilised hafnia ceramics. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 25951-25960	3.6	0
6	Synthesis and characterisation of Li <sub>11</sub> RE <sub>18</sub> M <sub>4</sub> O <sub>39</sub> -RE = Nd or Sm; M = Al, Co or Fe. <i>Dalton Transactions</i> , <b>2016</b> , 45, 315-23	4.3	
5	Microwave dielectric properties of Na <sub>1/2</sub> Bi <sub>1/2</sub> Cu <sub>2.82</sub> Mn <sub>0.18</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2011</b> , 18, 092004	0.4	
4	Optimization of superconducting critical temperatures by control of cation and anion stoichiometry in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> -based solid solutions. <i>Journal of Materials Science</i> , <b>1995</b> , 30, 2743-2746	4.3	
3	An ultrasonic study of sodium ion diffusion in polycrystalline alumina. <i>Materials Research Bulletin</i> , <b>1981</b> , 16, 117-124	5.1	
2	The PTCR Effect of Donor-Doped BARIUM Titanate: Origin of the Surface States at the Grain-Boundary. <i>Ceramic Transactions</i> , 131-138	0.1	
1	Synthesis, structure and dielectric properties of a new family of phases, ABC <sub>3</sub> O <sub>11</sub> : A = La, Pr, Nd, Sm, Gd; B = Zr, Hf; C = Ta, Nb. <i>Journal of the Australian Ceramic Society</i> , <b>2019</b> , 55, 305-314	1.5	