

## **List of Publications (Reverse Chronological Order)**

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### **2011**

- [435.](#) Thermally-Induced Homogeneous Racemization, Polymorphism, and Crystallization of Pyroglutamic Acid, Han Wu, and Anthony R West, *Crystal Growth and Design*, **11** (8), 3366–3374 (2011)
- [434.](#) Thermally-induced cation disorder in LiFePO<sub>4</sub> Jordi Jacas Biendicho, Anthony R. West, *Solid State Ionics*, **203**, 33-36 (2011)
- [433.](#) Enhanced Conductivity and Nonlinear Voltage–Current Characteristics of Nonstoichiometric BaTiO<sub>3</sub> Ceramics Héctor Beltrán, Marta Prades, Nahum Masó, Eloisa Cordoncillo, and Anthony R. West, *J. Am. Ceram. Soc.*, **94** [9] 2951–2962 (2011)
- [432.](#) Voltage-dependent low-field resistivity of CaTiO<sub>3</sub>:Zn ceramics, Qi-Long Zhang, Nahum Masó, Yang Liu, Hui Yang and Anthony R. West, *J. Mater Chem*, DOI: 10.1039/c1jm11453k
- [431.](#) Lithium-Ion Conduction Pathways in Complex Lithium Spinel Li<sub>2</sub>MGe<sub>3</sub>O<sub>8</sub> (M = Ni or Zn), Nik Reeves-McLaren, Ronald I. Smith, and Anthony R. West, *Chem. Mater.*, [dx.doi.org/10.1021/cm201429f](https://doi.org/10.1021/cm201429f)
430. Synthesis, structure and electrical properties of Cu<sub>3.21</sub>Ti<sub>1.16</sub>Nb<sub>2.63</sub>O<sub>12</sub> and the CuO<sub>x</sub>–TiO<sub>2</sub>–Nb<sub>2</sub>O<sub>5</sub> pseudoternary phase diagram, Nik Reeves-McLaren, Matthew C. Ferrarelli, Yuan-Wei Tung, Derek C. Sinclair, and Anthony R. West, *Journal of Solid State Chemistry* **184** (2011) 1813–1819
- [429.](#) 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, Ming Li, Derek C. Sinclair, and Anthony R. West, *J. Appl. Phys.* **109**, 084106 (2011)
- [428.](#) Frequency-dependent electrical properties of ferroelectric BaTi<sub>2</sub>O<sub>5</sub> single crystal Nahum Masó, XinYan Yue, Takashi Goto, and Anthony R. West, *J. Appl. Phys.* **109**, 024107 (2011)
- [427.](#) Electrical characterization and equivalent circuit analysis of (Bi<sub>1.5</sub>Zn<sub>0.5</sub>)(Nb<sub>0.5</sub>Ti<sub>1.5</sub>)O<sub>7</sub> Pyrochlore, a relaxor ceramic, Rozana A M Osman, and Anthony R West, *J Appl Phys*, **109**, 074106 (2011)
426. Structural characterisation of ferroelectric Ag<sub>2</sub>Nb<sub>4</sub>O<sub>11</sub> and dielectric Ag<sub>2</sub>Ta<sub>4</sub>O<sub>11</sub> N Maso D I Woodward, P A Thomas, A Varez and A R West, *J. Mater. Chem.*, **21**, 2715 (2011)

### **2010**

425. Piezoelectric and ferroelectric properties of new Pb<sub>9</sub>Ce<sub>2</sub>Ti<sub>12</sub>O<sub>36</sub> and lead-free Ba<sub>2</sub>NdTi<sub>2</sub>Nb<sub>3</sub>O<sub>15</sub> ceramics, L. Burianova, S. Panos, M. C. Stennett, A. R. West, G Subodh, M. T. Sebastian and S. Kamba, *J Electroceram* **25**, 116–121(2010)
- [424.](#) Synthesis, structural characterization and Li<sup>+</sup> ion conductivity of a new vanado-molybdate phase, LiMg<sub>3</sub>VMo<sub>2</sub>O<sub>12</sub> Lisa J. Gillie, Sharon A. de Souza, Denis Sheptyakov, Nik Reeves-McLaren, Denis Pasero, Anthony R. West *J. Solid State Chem* doi:10.1016/j.jssc.2010.08.042

- [423.](#) Field enhanced bulk conductivity of acceptor-doped  $\text{BaTi}_{1-x}\text{Ca}_x\text{O}_{3-x}$  ceramics, Nahum Masó, Marta Prades, Héctor Beltrán, Eloisa Cordoncillo, Derek Sinclair and Anthony R West, *Applied Physics Letters*, **97** 062907 (2010)
- [422.](#) Polymorphism, Phase Transitions, and Thermal Stability of  $\text{L}$ -Pyroglutamic Acid, Han Wu, Nik Reeves-McLaren, Jan Pokorny, Jack Yarwood and Anthony R West, *Crystal Growth and Design*, **10**, 3141 (2010)
- [421.](#) Field enhanced bulk conductivity of  $\text{BaTiO}_3\text{:Mg}$  ceramics, Marta Prades, Nahum Maso, Hector Beltran, Eloisa Cordoncillo and Anthony R West, *J. Mater. Chem.*, 2010, **20**, 5335 – 5344
- [420.](#) Voltage-Dependent Low-Field Bulk Resistivity in  $\text{BaTiO}_3\text{:Zn}$  Ceramics Héctor Beltrán, Marta Prades, Nahum Maso, Eloisa Cordoncillo, and Anthony R. West, *J. Am. Ceram. Soc.*, **93** [2] 500–505 (2010)
- [419.](#) A New Family of Ferroelectric Materials:  $\text{Me}_2\text{Nb}_4\text{O}_{11}$  (Me=Na and Ag), Nahum Maso and Anthony R West, *J. Mater. Chem.*, 2010, **20**, 2082-2084
- [418.](#) New High Permittivity Tetragonal Tungsten Bronze Dielectrics  $\text{Ba}_2\text{LaMNb}_4\text{O}_{15}$  : M=Mn, Fe, Emma E McCabe and Anthony R West *J. Solid State Chemistry*, **183**, 624-630 (2010)
- [417.](#) Phase Transformations of Glutamic Acid and Its Decomposition Products, Han Wu, Nik Reeves-McLaren, Simon Jones, Radoljub I. Ristic, J. Patrick A. Fairclough, and A.R. West, *Crystal Growth and Design*, **10**, 988-994 (2010)
- [416.](#) Formation and Stability of Ferroelectric  $\text{BaTi}_2\text{O}_5$ , Na Zhu and A R West, *J Am Ceram Soc* **93**[1] 295-300 (2010)

## **2009**

- [415.](#) Dielectric Properties of  $\text{ACu}_3\text{Ti}_4\text{O}_{12}$ -Type Perovskites, M. C Ferrarelli, D C Sinclair and A R West, in *Advances in Electroceramic Materials: Ceramic Transactions* (eds K. M. Nair, D. Suvorov, R. W. Schwartz and R. Guo), (2009) John Wiley & Sons, Inc., Hoboken, NJ, USA. doi: 10.1002/9780470528990.ch17
- [414.](#) Origin(s) of the apparent high permittivity in  $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$  ceramics: clarification on the contributions from internal barrier layer capacitor and sample-electrode contact effects, M Li, Z Shen, M Nygren, A Feteira, D C Sinclair and A R West, *J Appl Phys*, **106**, 104106 (2009)
- [413.](#) Toward defining materials chemistry, P Day, L V Interrante and A R West, *Pure Appl Chem*, **81**(9), 1707-1717 (2009).
- [412.](#) Ho-doped  $\text{BaTiO}_3$ : Polymorphism, phase equilibria and dielectric properties of  $\text{BaTi}_{1-x}\text{Ho}_x\text{O}_{3-x/2}$ :  $0 \leq x \leq 0.17$ , Y Liu and A R West, *J Europ Ceram Soc*, **29**, 3249-3257 (2009).
- [411.](#) Comment on the origin(s) of the giant permittivity effect in  $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$  single crystals and ceramics, M C Ferrarelli, D C Sinclair, A R West, H A Dabkowska, A Dabkowski and G M Luke, *J Mat Chem*, **19**(33), 5916-5919
- [410.](#) Synthesis, structure and properties of the hexagonal perovskite,  $\text{h-BaTi}_{1-x}\text{Ho}_x\text{O}_{3-x/2}$ , Y Liu, E E McCabe, D C Sinclair and A R West, *J Mater Chem*, **19**(29), 5201-5206 (2009).
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- [408.](#) Possible incipient ferroelectricity in Mn-doped  $\text{Na}_{1/2}\text{Bi}_{1/2}\text{Cu}_3\text{Ti}_4\text{O}_{12}$ , M C Ferrarelli, D C Sinclair and A R West, *Appl Phys Lett*, **94**, 212901 (2009).

- [407.](#) Partial cation-order and early-stage, phase separation in phase W,  $\text{Li}_x\text{Co}_{1-x}\text{O}$ :  $0.075 \leq x \leq 0.24-0.31$ , Y Wu, D Pasero, E E McCabe, Y Matsushima and A R West, *Proc R Soc A*, **465**, 1829-1841 (2009).
- [406.](#) Formation of disordered and partially ordered  $\text{Li}_x\text{Co}_{1-x}\text{O}$ , Y Wu, D Pasero, E E McCabe, Y Matsushima and A R West, *J Mater Chem*, **19**(10), 1443-1448 (2009).

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- [405.](#) Phase transition hysteresis and anomalous Curie-Weiss behaviour of ferroelectric tetragonal tungsten bronzes  $\text{Ba}_2\text{RETi}_2\text{Nb}_3\text{O}_{15}$ : RE=Nd,Sm, M Prades, H Beltrán, N Masó, E Cordoncillo and A R West, *J Appl Phys* **104**, 104118 (2008).
- [404.](#) Ferroelectric aging and recoverable electrostrain in  $\text{BaTi}_{0.98}\text{Ca}_{0.02}\text{O}_{2.98}$  ceramics, L Zhang, L Ben, O P Thakur, A Feteira, A G Mould, D C Sinclair and A R West, *J Am Ceram Soc*, **91**[9], 3101-3104 (2008).
- [403.](#) Polymorphism of  $\text{BaTiO}_3$  acceptor doped with  $\text{Mn}^{3+}$ ,  $\text{Fe}^{3+}$ , and  $\text{Ti}^{3+}$ , M Prades, N Masó, H Beltrán, E Cordoncillo and A R West, *J Am Ceram Soc* **91**(7) 2364-2366 (2008).
- [402.](#) Crystal chemistry of Co-doped  $\text{Zn}_7\text{Sb}_2\text{O}_{12}$ , R Harrington, G C Miles and A R West, *J Solid State Chem* **181**, 334-339 (2008).
- [401.](#) Phase equilibria, crystal chemistry and polymorphism of  $\text{Zn}_7\text{Sb}_2\text{O}_{12}$  doped with Cr and Ni, R Harrington, G C Miles and A R West, *Mat Res Bull* **43**, 1949-1956 (2008).
400. Diffraction data of  $\text{Zn}_3\text{Cu}_4\text{Sb}_2\text{O}_{12}$ , Richard Harrington, Gabrielle C Miles, Anthony R West, *Powder Diffraction*, **23** [1], (2008).
399. Oxygen nonstoichiometry and phase transitions in  $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_{4-}$ , D Pasero, N Reeves, V Pralong and A R West, *J Electrochem Soc*, **155**(4), A282-A291 (2008).
- [398.](#) Localized electrical characterization of the giant permittivity effect in  $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$  ceramics, P Fiorenza, R L Nigro, C Bongiorno, V Raineri, M C Ferarrelli, D C Sinclair and A R West, *Appl Phys Lett* **92**, 182907(1-3) (2008).
- [397.](#) Polymorphism and dielectric properties of Nb-doped  $\text{BaTiO}_3$ , N Masó, H Beltrán, E Cordoncillo, D C Sinclair and A R West, *J Am Ceram Soc*, **91**[1] 144-150 (2008).

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- [394.](#) Nanocomposite ceramics based on La-doped  $\text{BaTi}_2\text{O}_5$  and  $\text{BaTiO}_3$  with high temperature-independent permittivity and low dielectric loss, H Beltrán, N Masó, E Cordoncillo and A R West, *J Electroceram* **18**, 277-282 (2007).
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- [388.](#) Pyrochlore phases in the system ZnO-Bi<sub>2</sub>O<sub>3</sub>-Sb<sub>2</sub>O<sub>5</sub>: II. Crystal structures of Zn<sub>2</sub>Bi<sub>3.08</sub>Sb<sub>2.92</sub>O<sub>14+x</sub> and Zn<sub>2+x</sub>Bi<sub>2.96-(x-y)</sub>Sb<sub>3.04-y</sub>O<sub>14.04+x</sub>, G C Miles and A R West, *Solid State Sci*, **8**, 1422-1429 (2006).
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- [386.](#) Coupling between octahedral tilting and ferroelectric order in tetragonal tungsten bronze-structured dielectrics, I Levin, M C Stennett, G C Miles, D I Woodward, A R West and I M Reaney, *Appl Phys Lett*, **89**, 122908 (2006).
- [385.](#) High intrinsic permittivity in Na<sub>1/2</sub>Bi<sub>1/2</sub>Cu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub>, M C Ferrarelli, T B Adams, A Feteira, D C Sinclair and A R West, *Appl Phys Lett*, **89**, 212904 (2006).
- [384.](#) Characterisation of grain boundaries in CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> using HREM, EDS and EELS, C C Calvert, W M Rainforth, D C Sinclair and A R West, *J Phys: Conf Series* **26**, 65-68 (2006).
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- [379.](#) Synthesis and electrical properties of Nb-doped BaTiO<sub>3</sub>, N Masó, H Beltrán, E Cordoncillo, A Arenas Flores, P Escribano, D C Sinclair and A R West, *J Mater Chem*, **16**, 3114-3119 (2006).
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- [375.](#) Pyrochlore phases in the system ZnO-Bi<sub>2</sub>O<sub>3</sub>-Sb<sub>2</sub>O<sub>5</sub>: I. Stoichiometries and phase equilibria, G C Miles and A R West, *J Am Ceram Soc*, **89**(3), 1042-1046 (2006).
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