

### Publications/Refereed Journals

129. F. Tang, G. Chen, J. S. Volz, R. K. Brow, and M. Koenigstein, "Corrosion Behavior of Enamel Coated Steel Rebar by EIS," accepted by Advanced Materials Research, Nov. 2011.
128. F. Tang, X. Cheng, G. Chen, R.K. Brow, JS Volz, and M. Koenigstein, "Adhesion and corrosion resistance of enamel coatings on structural steel," submitted to *Journal of Surface and Coating Technology*, August 2011.
127. T. Zhang, R.K. Brow, W.G. Fahrenholtz and S.T. Reis, "Interfacial formation of chromate between an SOFC sealing glass and interconnect alloy," submitted to *Journal of Power Sources*, August 2011; accepted December 2011.
126. Z. Tang, R.K. Brow, N.P. Lower, P.K. Gupta and C.R. Kurkjian, "Two-point bend measurements of failure stresses of pristine glass fibers," submitted to *Journal of the American Ceramic Society* August 2011.
125. L.B. Fletcher, J.J. Witcher, N. Troy, R.K. Brow. and D. M. Krol "Single pass waveguide amplifiers in Er-Yb doped zinc polyphosphate glass fabricated with femtosecond laser pulses," submitted to *Optics Letters*, September 2011.
124. L.B. Fletcher, J.J. Witcher, N. Troy, S.T. Reis, R.K. Brow. R. Osellame and D. M. Krol, "Femtosecond laser writing of waveguides in zinc phosphate glasses," submitted *Optical Materials Express*, July 2011.
123. F. Tang, G. Chen, R.K. Brow J.S. Volz, and M.. Koenigstein, "Corrosion Resistance and Mechanism of Steel Rebar Coated with Three Types of Enamel," submitted to *Corrosion Science*, March 2011; accepted with revisions, Dec. 2012.
122. C.R. Werner, J.S. Volz, G. Chen, R. K. Brow, and M.L. Koenigstein, "Corrosion performance of reactive enamel –coated reinforcing steel," submitted to *ACI Materials*, June 2011; accepted August 2011.
121. DM Yan, ST Reis, X. Tao, G. Chen, RK Brow and M. Koenigstein, "Effect of chemically reactive enamel coating bonding strength at steel-mortar interface". *Construction and Building Materials*, 28[1] 512-518 (2012).
120. U. Hoppe, N.P. Wyckoff, M.L. Schmitt, R.K. Brow, A. Schops, and AC Hannon, "Structure of V<sub>2</sub>O<sub>5</sub>-P<sub>2</sub>O<sub>5</sub> glasses by X-ray and neutron diffraction," *Journal of Non-Crystalline Solids*, 358[2] 328-336 (2012).
119. L. Zhang and R.K. Brow, "Raman spectra and the structure of iron-phosphate compounds and glasses," *Journal of the American Ceramic Society*, 94[9] 3123-30 (2011).
118. J.W. Newkirk, J. Hsu, R.K. Brow, and T. Lillo, "Chromium-free nickel alloys for hot sulfuric and sulfur environments," *International Journal of Hydrogen Energy*, 36[7] 4588-4594 (2011).
117. J.W. Lim, S.W. Yung, and R.K. Brow, "Properties and structure of Binary Tin Phosphate Glasses," *Journal of Non-Crystalline Solids*, 357 2690-2694 (2011).
116. U. Hoppe, N. P. Wyckoff, R. K. Brow, and U. Rütt, "Structure of ultraphosphate glasses with small rare-earth ions by X-ray diffraction," *Journal of Non-Crystalline Solids*, 357 2516-2521 (2011).
115. L.B. Fletcher, J.J. Witcher, N. Troy, S.T. Reis, R.K. Brow and D.M. Krol, "Direct femtosecond laser waveguide writing inside zinc phosphate glass," *Optics Express*, 19[9], 7929-7936 (2011).
114. L. Zhang, ME Schlesinger, and RK Brow, "Phase equilibria in the Fe<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub> system," *Journal of the American Ceramic Society*, 94[5] 1605-1610 (2011).
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111. X.-D. Zhou, J.W. Templeton, Z. Zhu, Y.-S. Chou, G. D. Maupin, Z Lu, R.K. Brow, and J. W. Stevenson, "Electrochemical Performance and Stability of the Cathode for Solid Oxide Fuel Cells III. Role of volatile boron species on LSM/YSZ and LSCF," *Journal of the Electrochemical Soc.*, **157**[7], B1019-23 (2010).
110. S.W. Yung, S.M Hsu, R.K. Brow, W.L. Hsu, W.L. Chen, and C.F. Ching, "Effect of silver concentration on silver activated phosphate glass," *Materials Chemistry and Physics*, **123** 172-176 (2010).

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105. S.W Yung, H.J. Lin, Y.Y. Lin, R.K. Brow, Y.S. Lai, J.S. Horng, and T. Zhang, "Concentration effect of Yb<sup>3+</sup> on the thermal and optical properties of Er<sup>3+</sup>/Yb<sup>3+</sup>-codoped ZnF<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub>-P<sub>2</sub>O<sub>5</sub> glasses," *Materials Chemistry and Physics*, **117**, 29-34 (2009).
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