Nathan C. George

Ph.D. Chemical Engineering Address: 93 Ridgeview Avenue San Jose. CA 95126 USA

Phone: 402-740-4858 nathan.c.george@gmail.com

In press, or submitted

A. Knappschneider, C. Litterscheid, J. Brgoch, N. C. George, S. Henke, J. G. Hu, A. K. Cheetham, R. Seshadri, and B. Albert, Manganese tetraboride, MnB_4 : high-temperature crystal structure, p - n transition, ^{55}Mn NMR, solid solutions and mechanical properties.

Appeared

- 26. J. R. Neilson, N. C. George, M. M. Murr, R. Seshadri, and D. E. Morse, Mesostructure from hydration gradients in demosponge biosilica, *Chem. Eur. J.* **20** (2014) 49564965. [doi]
- 25. A. Knappschneider, C. Litterscheid, N. C. George, J. Brgoch, N. Wagner, J. Beck, J. A. Kurzman, R. Seshadri, and B. Albert, Peierls-distorted monoclinic MnB4 with a Mn-Mn bond, *Angew. Chem. Int. Ed.* **53** (2014) 16841688. [doi]
- 24. N. C. George, A. Birkel, J. Brgoch, B.-C. Hong, K. Uheda, A. A. Mikhailovsky, K. Page, A. Llobet, and R. Seshadri, Average and local structural origins of the optical properties of the nitride phosphor $\text{La}_{3-x}\text{Ce}_x\text{Si}_6\text{N}_{11}$ (0 < $x \le 3$), *Inorg. Chem.* **52** (2013) 13730-13740. [doi]
- 23. N. C. George, A. J. Pell, G. Dantelle, K. Page, A. Llobet, M. Balasubramanian, G. Pintacuda, B. F. Chmelka, and R. Seshadri, The local environment of the activator ions in the solid state lighting phosphor $Y_{3-x}Ce_xAl_5O_{12}$, *Chem. Mater.* **25** (2013) 3979-3995. **[doi]**
- 22. A. Kalaji, P. J. Saines, N. C. George, A. K. Cheetham, Photoluminescence of Cerium-doped $(Ca_{1-x}Sr_x)_3RE_2Ge_3O_{12}$ Garnet Phosphors: Relating Structure to Emission, *Chem. Phys. Lett.* **586** (2013) 91-96. [doi]
- 21. A. Birkel, N. A. DeCino, N. C. George, K. A. Hazelton, B.-C. Hong, R. Seshadri, Eu^{2+} -doped M_2SiO_4 (M = Ca, Ba) phosphors prepared by a rapid microwave-assisted sol–gel method: Phase formation and optical properties, *Solid State Sci.* **19** (2013) 51-57. [doi]
- 20. N. C. George, K. A. Denault, R. Seshadri, Phosphors for Solid State White Lighting, *Annu. Rev. Mater. Res.* **43** (2013) 481-501. [doi]
- 19. K. A. Denault, N. C. George, S. R. Paden, S. Brinkley, A. A. Mikhailovsky, J. Neuefeind, S. P. DenBaars, and R. Seshadri, A green-yellow emitting oxyfluoride solid solution phosphor $Sr_2Ba(AlO_4F)_{1x}(SiO_5)_x:Ce^{3+}$ for thermally stable, high color rendition solid state white lighting, *J. Mater. Chem.* **22** (2012) 18204-18213. [doi]
- 18. A. Birkel, K. A. Denault, N. C. George, and R. Seshadri, Advanced Inorganic Materials for Solid State Lighting, *Materials Matters* **7** (2012) 22–25. [link]
- 17. A. Birkel, L. E. Darago, A. Morrison, L. Lory, N. C. George, A. A. Mikhailovsky, C. S. Birkel, and R. Seshadri, Microwave assisted preparation of Eu²⁺-doped Akermanite Ca₂MgSi₂O₇, *Solid State Sci.* **14** (2012) 739–745. [doi]
- 16. A. Birkel, K. Denault, N. C. George, C. Doll, B. Hery, A. Mikhailoksky, C. Birkel, B.C. Hong, R. Seshadri, Rapid microwave preparation of highly efficient Ce³⁺-substituted garnet phosphors for solid state white lighting, *Chem. Mater.*, **24** (2012) 1198–1204. [doi]

- 15. R. Shayib, N. C. George, R. Seshadri, A. Burton, S. I. Zones, and B. F. Chmelka, Structure-directing roles and interactions of fluoride and organocations with siliceous zeolite frameworks, *J. Am. Chem. Soc.* **133** (2011) 18728–18741. [doi]
- 14. A. Revaux, G. Dantelle, N. C. George, R. Seshadri, T. Gacoin, and J.-P. Boilot, A protected annealing strategy to enhanced light emission and photostability of YAG:Ce nanoparticle-based films, *Nanoscale* **5** (2011) 2015–2022. [doi]
- 13. W. B. Im, N. C. George, J. Kurzman, S. Brinkley, A. Mikhailovsky, J. Hu, B. F. Chmelka, S. P. DenBaars, and R. Seshadri, An efficient and color-tunable oxyfluoride phosphor solid solution for solid-state lighting, *Adv. Mater.* **23** (2011) 2300–2305. [doi]
- 12. A. A. Dameron, D. C. Miller, N. C. George, B. To, D. S. Ginley, and L. Simpson, Tensile Strain and Water Vapor Transport Testing of Flexible, Conductive and Transparent IZO/Ag/IZO Thin Films, *Thin Solid Films* **519** (2011) 3117–3184. [doi]
- 11. L. E. Dieker, Z. M. Aman, N. C. George, A. K. Sum, D. Sloan, and C. A. Koh, Micromechanical Adhesion Force Measurements between Hydrate Particles in Hydrocarbon Oils and Their Modifications, *Energ. Fuel.*, **12**, (2009), 5966–5971. [doi]