

## Ram Seshadri Publications and Patents (updated June 16, 2017):

With DOI links where available. Also to be found at <http://www.mrl.ucsb.edu/~seshadri>

### Awarded US Patents:

5. K. A. Denault, S. P. DenBaars, and R. Seshadri, Laser-driven white lighting system for high-brightness applications United State Patent 9,574,728 (February 21, 2017)
4. R. Seshadri, A. Birkel, B. Hong, and J. A. Gerbec, Single phase and full-color phosphor, United State Patent 9,228,125 B2 (January 5, 2016).
3. W.-B. Im, R. Seshadri, and S. P. DenBaars, Solid solution phosphors based on oxyfluoride and white light emitting diodes including the phosphors for solid state white lighting applications, United State Patent 8,535,565 (September 17, 2013).
2. W.-B. Im, R. Seshadri, and S. P. DenBaars, Oxyfluoride phosphors and white light emitting diodes including the oxyfluoride phosphor for solid-state lighting applications, United State Patent 8,344,611 B2 (January 1, 2013).
1. W.-B. Im, R. Seshadri, and S. P. DenBaars, Yellow emitting phosphors based on  $\text{Ce}^{3+}$ -doped aluminate and via solid solution for solid-state lighting applications, United States Patent 8,163,203 (April 24, 2012).

### In press, or submitted:

M. Buffon, G. Laurita, L. Lamontagne, E. Levin, S. Mooraj, D. Lloyd, N. White, T. Pollock, and R. Seshadri, Thermoelectric performance and the role of anti-site disorder in the 24-electron Heusler  $\text{TiFe}_2\text{Sn}$ .

G. Laurita, D. H. Fabini, C. Stoumpos, M. G. Kanatzidis, and R. Seshadri, Chemical tuning of dynamic cation off-centering in the cubic phases of hybrid tin and lead halide perovskites. *Chem. Sci.* [DOI:10.1039/C7SC01429E] & [UC-eScholarship]

H. A. Evans, E. C. Schueller, S. R. Smock, G. Wu, R. Seshadri, and F. Wudl, Perovskite-related hybrid noble metal iodides: Formamidinium platinum iodide  $[(\text{FA})_2\text{Pt}^{\text{IV}}\text{I}_6]$  and mixed-valence methylammonium gold iodide  $[(\text{MA})_2\text{Au}^{\text{I}}\text{Au}^{\text{III}}\text{I}_6]$ , *Inorg. Chim. Acta* [DOI:10.1016/j.ica.2017.04.060] & [UC-eScholarship]

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296. L. Lamontagne, M. Knight, G. Laurita, H. Yusuf, J. Hu, R. Seshadri, and K. Page, The role of structural and compositional heterogeneities in the insulator-to-metal transition in hole-doped  $\text{APd}_3\text{O}_4$  ( $A = \text{Ca}, \text{Sr}$ ), *Inorg. Chem.* **56** (2017) 5158–5164. [DOI: 10.1021/acs.inorgchem.7b00307] & [UC-eScholarship]
295. N. George, J. Brgoch, A. Pell, C. Cozzan, A. Jaffe, G. Dantelle, A. Llobet, G. Pintacuda, R. Seshadri, and B. Chmelka, Correlating local compositions and structures with the macroscopic optical properties of  $\text{Ce}^{3+}$ -doped  $\text{CaSc}_2\text{O}_4$ , an efficient green-emitting phosphor, *Chem. Mater.* **29** (2017) 3538–3546. [DOI: 10.1021/acs.chemmater.6b0539] & [UC-eScholarship]

294. M. M. Butala, M. Mayo, V. V. T. Doan-Nguyen, M. A. Lumley, C. Göbel, K. M. Wiaderek, O. J. Borkiewicz, K. W. Chapman, P. J. Chupas, M. Balasubramanian, G. Laurita, S. Britto, A. J. Morris, C. P. Grey, and R. Seshadri, Local structure evolution and modes of charge storage in secondary Li-FeS<sub>2</sub> cells, *Chem. Mater.* **29** (2017) 3070–3082. [DOI: [10.1021/acs.chemmater.7b00070](https://doi.org/10.1021/acs.chemmater.7b00070)] & [UC-eScholarship]
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