

## Ram Seshadri Publications (updated November 20, 2009):

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### In press, or submitted:

- W. B. Im, S. Brinkley, J. Hu, S. P. DenBaars, and R. Seshadri, A highly efficient green-emitting LED phosphor.
- C. J. Fennie, R. Seshadri, and K. Rabe, Lattice instabilities in cubic pyrochlore  $\text{Bi}_2\text{Ti}_2\text{O}_7$ . [[cond-mat](#)]
- B. C. Melot, B. Paden, R. Seshadri, A. Dixit, G. Lawes, and E. Suard, Magnetic structure and susceptibility of  $\text{CoSe}_2\text{O}_5$ : A low dimensional antiferromagnet. [[cond-mat](#)]
- S. A. Corr, D. P. Shoemaker, E. S. Toberer, and R. Seshadri, Spontaneously formed porous and composite materials, *J. Mater. Chem. (Feature)*
- J. R. Nielson, B. Schwenzer, R. Seshadri, and D. E. Morse, Kinetic control of intralayer cobalt coordination in double hydroxides:  $\text{Co}_{1-0.5x}^{\text{oct}}\text{Co}_x^{\text{tet}}(\text{OH})_2(\text{Cl})_x(\text{H}_2\text{O})_n$ , *Inorg. Chem.* [[doi](#)]
- Y. Shi, G. Guo, S. Corr, Q. Shi, Y. Hu, K. Heier, L. Chen, R. Seshadri, and G. Stucky, Ordered mesoporous metallic  $\text{MoO}_2$  materials with highly reversible lithium storage capacity, *Nano Lett.* [[doi](#)]

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163. W. B. Im, K. Page, N. N. Fellows, S. P. DenBaars, and R. Seshadri, Probing local structure in the yellow phosphor  $\text{LaSrAl}_2\text{O}_5:\text{Ce}^{3+}$ , by the maximum entropy method and pair distribution function analysis, *J. Mater. Chem.* **19** (2009) 8761–8766. [[doi](#)]
162. D. P. Shoemaker, E. E. Rodriguez, R. Seshadri, I. S. Abumohor, and Th. Proffen, Intrinsic exchange bias in  $\text{Zn}_x\text{Mn}_{3-x}\text{O}_4$  ( $x \leq 1$ ) solid solutions. *Phys. Rev. B* **80** (2009) 144422(1–9). [[cond-mat](#)]
161. B. C. Melot, K. Page, R. Seshadri, E. M. Stoudenmire, L. Balents, D. L. Bergman, and Th. Proffen, Magnetic frustration on the diamond lattice of the A-site magnetic spinels  $\text{CoAl}_{2-x}\text{Ga}_x\text{O}_4$ : The role of lattice expansion and site disorder, *Phys. Rev. B.* **80** (2009) 104420(1–8). [[doi](#)]
160. J. Erlebacher and R. Seshadri (Guest Editors), Hard materials with tunable porosity, *MRS Bulletin*, **34** (2009) No. 8, 561–566. [[link](#)]
159. D. P. Shoemaker, J. Li, and R. Seshadri, Unraveling atomic positions in an oxide spinel with two Jahn-Teller ions: Local structure investigation of  $\text{CuMn}_2\text{O}_4$ . *J. Am. Chem. Soc.* **131** (2009) 11450–11457. [[doi](#)]
158. W. B. Im, N. N. Fellows, S. P. DenBaars, R. Seshadri, and Y.-I. Kim,  $\text{LaSr}_2\text{AlO}_5$ , a versatile host compound for  $\text{Ce}^{3+}$ -based yellow phosphors: Structural tuning of optical properties and use in solid state white lighting, *Chem. Mater.* **21** (2009) 2957–2966. [[doi](#)]
157. S. A. Corr, M. Grossman, Y. Shi, K. R. Heier, G. D. Stucky, and R. Seshadri,  $\text{VO}_2(\text{B})$  nanorods: solvothermal preparation, electrical properties, and conversion to rutile  $\text{VO}_2$  and  $\text{V}_2\text{O}_3$ , *J. Mater. Chem.* **19** (2009) 4362–4367. [[doi](#)]
156. B. C. Melot, R. Tackett, J. O'Brien, A. L. Hector, G. Lawes, R. Seshadri, A. P. Ramirez, Large low temperature specific heat in pyrochlore  $\text{Bi}_2\text{Ti}_2\text{O}_7$ , *Phys. Rev. B* **79** (2009) 224111(1–5). [[doi](#)]
155. E. E. Rodriguez, A. Llobet, Th. Proffen, B. C. Melot, R. Seshadri, P. B. Littlewood, and A. K. Cheetham, The role of static disorder in negative thermal expansion in  $\text{ReO}_3$ , *J. Appl. Phys.* **105** (2009) 114901(1–6). [[doi](#)]



154. B. C. Melot, J. E. Drewes, R. Seshadri, E. M. Stoudenmire, and A. P. Ramirez, Magnetic phase evolution in the spinel compounds  $\text{Zn}_{1-x}\text{Co}_x\text{Cr}_2\text{O}_4$ , *J. Phys. Condensed Matter* **21** (2009) 216007(1–7). [doi]
153. F. Casper, R. Seshadri, and C. Felser, Semiconducting half-Heusler and LiGaGe structure type compounds, *Physica Stat. Sol. A* **1–6** (2009). [doi]
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