Ram Seshadri: Publications and Patents

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In press, or submitted:

K. Wyckoff, J. Bienz, M. Saber, A. Zohar, A. K. Cheetham, and R. Seshadri, Relating structural features to electrode performance in Wadsley-Roth anodes.

A. Au II, A. Balvanz, H. Tian, G. Joalland, J. Hu, Jerry; A. K. Cheetham, G. Volonakis, R. Seshadri, and M. G. Kanatzidis, Mapping and controlling 0D to 2D polymorphism and bandgap bowing in the perovskite-related halides $Cs_3Bi_{2-x}Sb_xI_9$.

M. A. Wright, S. Browne, E. Moya, A. R. Reach, A. Sebastian, A. Abulajiang, R. Yin, J. Cesareo, J. Li, A. Tarin, S. H. Tolbert, B. C. Melot, A. Van der Ven, and R. Seshadri, Rapid and phase-selective routes to layered Na–ion cathodes.

A. Reach, M. Wright, A. Mulligan, Z. Fang, K.-T. Tseng, C. Wang, J. Hu, M. Chi, A. K. Cheetham, R. Seshadri, and J. Sakamoto, Enhanced sodium dynamics in biphasic NaSICON solid electrolytes, *Chem. Mater.* [**DOI: 10.1021/acs.chemmater.5c03070**]

Appeared:

454. B. E. Rhodes, J. A. Mayer, W. S. Cunningham, A. Genc, S. Comby-Dassonneville, T. W. Cornelius, O. Thomas, R. Seshadri, Y. M. Eggeler, I. J. Beyerlein, and D. S. Gianola, Origins of the giant magnetoplastic effect in $L2_1$–ordered intermetallics, *Phys. Rev. Mater.* **10** (2026) 054405. [**DOI: 10.1103/k8bj-j1tp**]

453. H. Tian, T. Li, A. Mulligan, J. Tregidga, M. Wright, A. Zohar, A. Chezhiyan, M. Preefer, K. Stone, J. Hu, G. Wu, A. Manjón-Sanz, S. Lapidus, J. Harter, A. K. Cheetham, and R. Seshadri, Structural propensities in Cs_2MBiX_6 (M = Na, Ag; X = Cl, Br) bismuth halide double perovskites. *Chem. Mater.* **38** (2026) 3350–3360 [**DOI: 10.1021/acs.chemmater.5c03072**]

452. A. Watkins, A. K. Cheetham, and R. Seshadri, Metallic oxides and the overlooked role of bandwidth, *Chem. Mater.* **38** (2026) 1551–1565. [**DOI: 10.1021/acs.chemmater.5c02578**]

451. K. Brockmeyer, A. Bologna, M. Wright, J. Wong, C. Rodriguez, T. Li, R. A. Segalman, and R. Seshadri, Direct microwave pyrolysis of cellulose to hard carbon anodes for sodium-ion batteries, *Chem. Mater.* **38** (2026) 1377–1384. [**DOI: 10.1021/acs.chemmater.5c02824**]

450. A. Zambotti, K. Thurber, A. Sebastian, K. Liang, R. Chen, J. Li, A. Zohar, Arava; G. Nkala, Y. Li, A. Van der Ven, R. Seshadri, J. Nelson Weker, B. Melot, S. Tolbert, and B. Dunn, Morphological impact on sodium-ion storage in TiO_2 (B) nanostructures, *Chem. Mater.* **38** (2026) 252–265. [**DOI: 10.1021/acs.chemmater.5c02317**]

449. A. Balvanz, A. Pournara, R. P. Reynolds, P. E. Meza, C. D. Malliakas, J. D. Fletcher, R. Seshadri, V. P. Dravid, and M. G. Kanatzidis, Tuning optical properties and local lone-pair off-centering in "hollow" $FA_{1-x}en_xPb_{1-y}Sn_yBr_3$ perovskites, *Chem. Sci.* **17** (2026) 526–543. [**DOI: 10.1039/D5SC01841B**]

448. A. Bologna, D. Liu, S. Antall, B. Schmidt, R. Zhang, F. Seeler, K. Schierle-Arndt, and R. Seshadri, Impact of Al and Cu current collectors on Li-ion battery recycling, *ACS Sustainable Resour. Manage.* **3** (2026) 223–232. [**DOI: 10.1021/acssusresmgt.5c00528**]

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