

## LIST OF 10 PUBLICATIONS

Ari Sihvola

April 27, 2016

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1. A. Sihvola: Electromagnetic mixing formulas and applications. (Electromagnetic Waves Series, Vol. 47, 284 pp.) The Institution of Electrical Engineers, London, First published 1999. Reprinted 2008. ISBN 0-85296-722-1
2. A. Sihvola, M. Tiuri: Snow fork for field determination of the density and wetness profiles of a snow pack. *IEEE Transactions on Geoscience and Remote Sensing*, Vol. 24, No. 5, pp. 717-721, 1986.
3. A. Sihvola: Mixing models for heterogeneous and granular media (Chapter 5.5.), Electrodynamic phenomena resulting from the heterogeneity structure (Chapter 5.6), and Useful mixing formulae (Appendix D), in *Thermal Microwave Radiation: Applications for Remote Sensing*, C. Mätzler (editor), IET Electromagnetic Waves Series, Vol. 52, Stevenage (UK), pp. 464-480 and 541-543, 2006.
4. A. Sihvola: Metamaterials in electromagnetics. *Metamaterials*, Vol. 1, pp. 2–11, 2007. doi: 10.1016/j.metamat:2007.02.003
5. A. Sihvola, I.V. Lindell: Perfect electromagnetic conductor medium. *Annalen der Physik* (Berlin), Vol. 17, No. 9–10, pp. 787-802, 2008. doi:10.1002/andp.200710297
6. A. Sihvola, H. Wallén: Homogenization of amorphous media. In *Amorphous Nanophotonics*, (C. Rockstuhl and T. Scharf, editors), Series: Nano-Optics and Nanophotonics, Chapter 3, pp. 67-87, Springer, Berlin, 2013.
7. A. Sihvola: Homogenization principles and effect of mixing on dielectric behavior. *Photonics and Nanostructures — Fundamentals and Applications*, Vol. 11, No. 4, pp. 364-373, 2013, doi: 10.1016/j.photonics.2013.01.004
8. A. Sihvola: Enabling optical analog computing with metamaterials. *Science*, Vol. 343, No. 6167, pp. 144-145, 10 January 2014.
9. H. Kettunen, H. Wallén, A. Sihvola: Tailoring effective media by Mie resonances of radially-anisotropic cylinders. *Photonics*, Vol. 2, pp. 509-526, 2015. doi:10.3390/photonics2020509
10. O. Vartia, P. Ylä-Oijala, J. Markkanen, S. Puupponen, A. Seppälä, A. Sihvola, T. Ala-Nissila: On the applicability of discrete dipole approximation for plasmonic particles. *Journal of Quantitative Spectroscopy and Radiative Transfer*, Vol. 169, pp. 23-35, 2016.