

## SCIENTIFIC PUBLICATIONS, SERGEI TRETYAKOV

### Books

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5. A. Osipov and S. Tretyakov, *Modern electromagnetic scattering theory with applications*, Chichester, UK: John Wiley & Sons, 2017.
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1. I.V. Lindell, A.H. Sihvola, S.A. Tretyakov, A.J. Viitanen, *Electromagnetic waves in chiral and bi-isotropic media*, Norwood, MA: Artech House, 1994.

### Book chapters

19. S. Abadal, X. Timoneda, J. Sole-Pareta, E. Alarcon, A. Cabellos-Aparicio, A. Tasolamprou, O. Tsilipakos, C. Liaskos, M. Kafesaki, E.N. Economou, C. Soukoulis, A. Ptilakis, N.V. Kantartzis, M.S. Mirmoosa, F. Liu, and S. Tretyakov, Nanoscale channel modeling in highly integrated computing packages, in *Nanoscale Networking and Communications Handbook*, edited by John R. Vacca, CRC Press, Taylor and Francis Group, 2020, pp. 127-150.
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16. P. Alitalo and S.A. Tretyakov, Experimental characterization of electromagnetic cloaking devices at microwaves, in *Transformation Electromagnetics and Metamaterials: Fundamental Principles and Applications*, edited by Douglas H. Werner and Do-Hoon Kwon, Berlin Heidelberg: Springer-Verlag, 2013, pp. 315-347.

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14. S. Steshenko, F. Capolino, S.A. Tretyakov, C.R. Simovski, Super-resolution and near-field enhancement with layers of resonant arrays of nanoparticles, *Metamaterials Handbook: Applications of Metamaterials*, Edited by F. Capolino, CRC Press, Taylor and Francis Group, 2009, Chapter 4.
13. S.A. Tretyakov, Negative refraction and perfect lenses using chiral and bi-anisotropic materials, *Metamaterials Handbook: Theory and Phenomena of Metamaterials*, Edited by F. Capolino, CRC Press, Taylor and Francis Group, 2009, Chapter 25.
12. C.R. Simovski and S.A. Tretyakov, Material parameters and field energy in reciprocal composite media, *Metamaterials Handbook: Theory and Phenomena of Metamaterials*, Edited by F. Capolino, CRC Press, Taylor and Francis Group, 2009, Chapter 2.
11. C.R. Simovski and S.A. Tretyakov, Historical notes on metamaterials, *Metamaterials Handbook: Theory and Phenomena of Metamaterials*, Edited by F. Capolino, CRC Press, Taylor and Francis Group, 2009, Chapter 1.
10. A.B. Yakovlev, O. Luukkonen, C.R. Simovski, S.A. Tretyakov, S. Paulotto, P. Baccarelli, G.W. Hanson, Analytical modeling of surface waves on high impedance surfaces, in *Metamaterials and Plasmonics: Fundamentals, Modelling, Applications*. NATO Science for Peace and Security Series - B: Physics and Biophysics, Edited by S. Zouhdi, A. Sihvola, and A. Vinogradov, Springer, 2009, pp. 239-254.
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349. V. Asadchy, A.G. Lampranidis, G. Ptitsyn, M. Albooyeh, Rituraj, T. Karamanos, R. Alaei, S.A. Tretyakov, C. Rockstuhl, and S. Fan, Parametric Mie resonances and directional amplification in time-modulated scatterers, *Phys. Rev. Applied*, vol. 18, p. 054065, 2022.

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