

## Nefedov Igor

### List of journal publications

1. O. E. Glukhova, I. S. Nefedov, A. S. Shalin, and M. M. Slepchenkov, "New 2D-graphene hybrid composites as an effective elemental base of optical nanodevices," *The Beilstein Journal of Nanotechnology*, **9**, 1321-1327 (2018).
2. Igor Nefedov and Alexander S. Shalin, "Radiative Pulling Forces, Exerted by Evanescent Fields Along a Hyperbolic Metamaterial Slab," *Phys. Status Solidi RRL* **11**, 1700219 (2017).
3. A. D. Boardman, A. Alberucci, G. Assanto, V. Grimalsky, B. Kibler, J. McNiff, I. Nefedov, Y. Rapoport, C. A. Valagiannopoulos, "Waves in hyperbolic and double negative metamaterials including rogues and solitons," *Nanotechnology* **28**, 444001 (2017) (41pp).
4. I. S. Nefedov and J. M. Rubi, "Lateral-drag propulsion forces induced by anisotropy," *Scientific Reports* **7**(1), 6155 (2017).
5. I. V. Anoshkin, I. I. Nefedova, D.V. Lioubtchenko, I. S. Nefedov, A.V. Räsänen, "Single walled carbon nanotube quantification method employing the Raman signal intensity," *Carbon* **116**, 547-552 (2017).
6. A. K Popov, I. S Nefedov, S. A. Myslivets, "Hyperbolic carbon nanoforest for phase matching of ordinary and backward electromagnetic waves: second harmonic generation," *ACS Photonics* **4** (5), 1240-1244 (2017).
7. I. I. Nefedova, D.V. Lioubtchenko, I.S. Nefedov, A.V. Räsänen, "Conductivity of Carbon Nanotube Layers at Low-Terahertz Frequencies," *IEEE Transactions on Terahertz Science and Technology* **6** (6), 840-845 (2016).
8. I.V. Anoshkin, I.I. Nefedova, I.S. Nefedov, D.V. Lioubtchenko, A.G. Nasibulin, A. V. Räsänen, "Resistivity and optical transmittance dependence on length and diameter of nanowires in silver nanowire layers in application to transparent conductive coatings," *Micro & Nano Letters* **11** (7), 343-347 (2016).
9. I.V. Minin, O.V. Minin, I.S. Nefedov, "Photonic jets from Babinet's cuboid structures in the reflection mode," *Optics Letters* **41** (4), 785-787 (2016).
10. I.I. Nefedova, D.V. Lioubtchenko, I.S. Nefedov, A.V. Räsänen, "Dielectric constant estimation of a carbon nanotube layer on the dielectric rod waveguide at millimeter wavelengths," *IEEE Transactions on Microwave Theory and Techniques* **63** (10), 3265-3271 (2015).
11. M. M. Slepchenkov, A. S. Kolesnikova, G. V. Savostyanov, I. S. Nefedov, I. V. Anoshkin, A. G. Nasibulin and O. E. Glukhova, "Giga- and terahertz range nanoemitter based on a peapod structure peapod structure," *Nano Research*, **8** (8), 2595-2602 (2015).
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13. G. Leahu, R. Li Voti, M. C. Larciprete, C. Sibilia, M. Bertolotti, I. Nefedov, I.V. Anoshkin, "Thermal Characterization of Carbon Nanotubes by Photothermal Techniques," *International Journal of Thermophysics* **36** (5-6), 1349-1357 (2015).
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