

# Alexander S Shorokhov

## List of Publications by Year in descending order

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45  
papers

1,706  
citations

566801

15  
h-index

713013

21  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1937  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Spatial Separation of Scalar Light Beams with Orbital Angular Momentum Using a Phase Metasurface. JETP Letters, 2021, 114, 441-446.                         | 0.4  | 2         |
| 2  | Topological Photonics (Brief Review). JETP Letters, 2021, 114, 719-728.   | 0.4  | 2         |
| 3  | Magnetic field driven light control by hybrid magneto-optical metasurfaces. Journal of Physics: Conference Series, 2020, 1461, 012010.                      | 0.3  | 0         |
| 4  | Ultrafast all-optical GaAs nanoswitch for photonic integrated circuitry. Journal of Physics: Conference Series, 2020, 1461, 012167.                         | 0.3  | 1         |
| 5  | Collective magnetic modes excitation in GaAs nanoclusters by azimuthally polarized vector beams. Journal of Physics: Conference Series, 2020, 1461, 012192. | 0.3  | 0         |
| 6  | Bound States in the Continuum in Magnetophotonic Metasurfaces. JETP Letters, 2020, 111, 46-49.  | 0.4  | 25        |
| 7  | Enhanced Nonlinear Light Generation in Oligomers of Silicon Nanoparticles under Vector Beam Illumination. Nano Letters, 2020, 20, 3471-3477.                | 4.5  | 35        |
| 8  | Efficient Integration of Single-Photon Emitters in Thin InSe Films into Resonance Silicon Waveguides. JETP Letters, 2020, 112, 693-698.                     | 0.4  | 6         |
| 9  | Nonlinear Light Generation Driven by Collective Magnetic Modes in Oligomers of Silicon Nanoparticles Excited by Vector Beams. , 2020, , .                   |      | 0         |
| 10 | Time-dependent metasurfaces for efficient all-optical switching at different frequencies. AIP Conference Proceedings, 2020, , .                             | 0.3  | 0         |
| 11 | Ultrafast Light Redistribution Between Diffraction Orders by GaAs Metasurface. , 2020, , .  |      | 0         |
| 12 | Electro-optical modulation in waveguides of Mie-resonant nanoparticle chains combined with quantum wells. AIP Conference Proceedings, 2020, , .             | 0.3  | 0         |
| 13 | Tailored Nonlinear Anisotropy in Mie-Resonant Dielectric Oligomers. Advanced Optical Materials, 2019, 7, 1900447.   | 3.6  | 18        |
| 14 | Ultrafast All-Optical Switching in III-V Semiconductor Resonant Nanostructures. , 2019, , .   |      | 1         |
| 15 | Low-Power Absorption Saturation in Semiconductor Metasurfaces. ACS Photonics, 2019, 6, 2797-2806.   | 3.2  | 25        |
| 16 | Enhanced magneto-optical effects in hybrid Ni-Si metasurfaces. APL Photonics, 2019, 4, .  | 3.0  | 37        |
| 17 | Nonlinear light generation in topological nanostructures. Nature Nanotechnology, 2019, 14, 126-130.   | 15.6 | 187       |
| 18 | Ultrafast dynamics of light scattering in resonant GaAs nanoantennas. Journal of Physics: Conference Series, 2018, 1092, 012141.                            | 0.3  | 1         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Optical coupling between resonant dielectric nanoparticles and dielectric waveguides probed by third harmonic generation microscopy. <i>Journal of Physics: Conference Series</i> , 2018, 1092, 012104.          | 0.3 | 1         |
| 20 | Enhancement of the intensity magneto-optical effect in magnetophotonic metasurfaces. <i>Journal of Physics: Conference Series</i> , 2018, 1092, 012094.  | 0.3 | 0         |
| 21 | Intensity-dependent reflectance modulation of femtosecond laser pulses in GaAs nanocylinders with magnetic resonances. <i>Journal of Physics: Conference Series</i> , 2018, 1092, 012181.                        | 0.3 | 1         |
| 22 | Nonlinear Unidirectional Topological States in Zigzag Arrays of Bianisotropic Dielectric Nanoparticles. , 2018, , .  |     | 0         |
| 23 | Enhanced magneto-optical effects in dielectric Mie-resonant metasurfaces. , 2018, , .  |     | 0         |
| 24 | Local field coupling effects in silicon oligomers revealed by third-harmonic generation microscopy. , 2018, , .  |     | 0         |
| 25 | Third-harmonic generation from Mie-type resonances of isolated all-dielectric nanoparticles. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160281. | 1.6 | 34        |
| 26 | Nonlinear Symmetry Breaking in Symmetric Oligomers. <i>ACS Photonics</i> , 2017, 4, 454-461.   | 3.2 | 32        |
| 27 | Nonlinear anisotropy in silicon nanoparticle oligomers. <i>AIP Conference Proceedings</i> , 2017, , .  | 0.3 | 0         |
| 28 | Magneto-Optical Response Enhanced by Mie Resonances in Nanoantennas. <i>ACS Photonics</i> , 2017, 4, 2390-2395.  | 3.2 | 76        |
| 29 | The correlation between magneto-optical response and magnetic dipole resonance excitation in subwavelength silicon-nickel nanogratings. <i>AIP Conference Proceedings</i> , 2017, , .                            | 0.3 | 0         |
| 30 | Magneto-optical effects from nanoparticles enhanced by Mie resonances. , 2017, , .   |     | 0         |
| 31 | Third-Harmonic Generation from Photonic Topological States in Zigzag Arrays of Silicon Nanodisks. , 2017, , .  |     | 2         |
| 32 | Observation of Spontaneous Symmetry Breaking in Nanostructures. , 2016, , .  |     | 0         |
| 33 | Free-carrier contribution to all-optical switching in Mie-resonant hydrogenated amorphous silicon nanodisks. <i>Proceedings of SPIE</i> , 2016, , .  | 0.8 | 0         |
| 34 | Ultrafast control of third-order optical nonlinearities in fishnet metamaterials. <i>Scientific Reports</i> , 2016, 6, 28440.  | 1.6 | 16        |
| 35 | Third harmonic generation in isolated all dielectric meta-atoms (Conference Presentation). , 2016, , .   |     | 0         |
| 36 | Multifold Enhancement of Third-Harmonic Generation in Dielectric Nanoparticles Driven by Magnetic Fano Resonances. <i>Nano Letters</i> , 2016, 16, 4857-4861.  | 4.5 | 176       |

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|----|---|-----|-----------|
| 37 | Multipolar Third-Harmonic Generation in Fishnet Metamaterials. ACS Photonics, 2016, 3, 1494-1499.                                   | 3.2 | 20        |
| 38 | Enhanced third-harmonic generation in silicon oligomers driven by magnetic Fano resonance. , 2016, , .                              |     | 0         |
| 39 | Multipolar Analysis of the Third Harmonic Radiation Pattern from Fishnet Metamaterials. , 2016, , .                                 |     | 0         |
| 40 | Ultrafast Nonlinearities Driven by Magnetic Response in All-Dielectric Nanostructures. , 2016, , .                                  |     | 0         |
| 41 | Nonlinear Interference and Tailorable Third-Harmonic Generation from Dielectric Oligomers. ACS Photonics, 2015, 2, 578-582.         | 3.2 | 124       |
| 42 | Ultrafast All-Optical Switching with Magnetic Resonances in Nonlinear Dielectric Nanostructures. Nano Letters, 2015, 15, 6985-6990. | 4.5 | 362       |
| 43 | Third-Harmonic Generation from Silicon Oligomers and Metasurfaces. , 2015, , .  |     | 0         |
| 44 | Third-harmonic spectroscopy of all-dielectric oligomers with both electric and magnetic resonances. , 2014, , .                     |     | 0         |
| 45 | Enhanced Third-Harmonic Generation in Silicon Nanoparticles Driven by Magnetic Response. Nano Letters, 2014, 14, 6488-6492.         | 4.5 | 522       |