

Alexander S Shorokhov

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,706
citations

567144

15
h-index

713332

21
g-index

46
all docs

46
docs citations

46
times ranked

1937
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Enhanced Third-Harmonic Generation in Silicon Nanoparticles Driven by Magnetic Response. Nano Letters, 2014, 14, 6488-6492. | 4.5 | 522 |
| 2 | Ultrafast All-Optical Switching with Magnetic Resonances in Nonlinear Dielectric Nanostructures. Nano Letters, 2015, 15, 6985-6990. | 4.5 | 362 |
| 3 | Nonlinear light generation in topological nanostructures. Nature Nanotechnology, 2019, 14, 126-130. | 15.6 | 187 |
| 4 | Multifold Enhancement of Third-Harmonic Generation in Dielectric Nanoparticles Driven by Magnetic Fano Resonances. Nano Letters, 2016, 16, 4857-4861. | 4.5 | 176 |
| 5 | Nonlinear Interference and Tailorable Third-Harmonic Generation from Dielectric Oligomers. ACS Photonics, 2015, 2, 578-582. | 3.2 | 124 |
| 6 | Magneto-Optical Response Enhanced by Mie Resonances in Nanoantennas. ACS Photonics, 2017, 4, 2390-2395. | 3.2 | 76 |
| 7 | Enhanced magneto-optical effects in hybrid Ni-Si metasurfaces. APL Photonics, 2019, 4, . | 3.0 | 37 |
| 8 | Enhanced Nonlinear Light Generation in Oligomers of Silicon Nanoparticles under Vector Beam Illumination. Nano Letters, 2020, 20, 3471-3477. | 4.5 | 35 |
| 9 | Third-harmonic generation from Mie-type resonances of isolated all-dielectric nanoparticles. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160281. | 1.6 | 34 |
| 10 | Nonlinear Symmetry Breaking in Symmetric Oligomers. ACS Photonics, 2017, 4, 454-461. | 3.2 | 32 |
| 11 | Low-Power Absorption Saturation in Semiconductor Metasurfaces. ACS Photonics, 2019, 6, 2797-2806. | 3.2 | 25 |
| 12 | Bound States in the Continuum in Magnetophotonic Metasurfaces. JETP Letters, 2020, 111, 46-49. | 0.4 | 25 |
| 13 | Multipolar Third-Harmonic Generation in Fishnet Metamaterials. ACS Photonics, 2016, 3, 1494-1499. | 3.2 | 20 |
| 14 | Tailored Nonlinear Anisotropy in Mie-Resonant Dielectric Oligomers. Advanced Optical Materials, 2019, 7, 1900447. | 3.6 | 18 |
| 15 | Ultrafast control of third-order optical nonlinearities in fishnet metamaterials. Scientific Reports, 2016, 6, 28440. | 1.6 | 16 |
| 16 | Efficient Integration of Single-Photon Emitters in Thin InSe Films into Resonance Silicon Waveguides. JETP Letters, 2020, 112, 693-698. | 0.4 | 6 |
| 17 | Third-Harmonic Generation from Photonic Topological States in Zigzag Arrays of Silicon Nanodisks. , 2017, , . | | 2 |
| 18 | Spatial Separation of Scalar Light Beams with Orbital Angular Momentum Using a Phase Metasurface. JETP Letters, 2021, 114, 441-446. | 0.4 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Topological Photonics (Brief Review). JETP Letters, 2021, 114, 719-728. | 0.4 | 2 |
| 20 | Ultrafast dynamics of light scattering in resonant GaAs nanoantennas. Journal of Physics: Conference Series, 2018, 1092, 012141. | 0.3 | 1 |
| 21 | Optical coupling between resonant dielectric nanoparticles and dielectric waveguides probed by third harmonic generation microscopy. Journal of Physics: Conference Series, 2018, 1092, 012104. | 0.3 | 1 |
| 22 | Intensity-dependent reflectance modulation of femtosecond laser pulses in GaAs nanocylinders with magnetic resonances. Journal of Physics: Conference Series, 2018, 1092, 012181. | 0.3 | 1 |
| 23 | Ultrafast All-Optical Switching in III-V Semiconductor Resonant Nanostructures. , 2019, , . | | 1 |
| 24 | Ultrafast all-optical GaAs nanoswitch for photonic integrated circuitry. Journal of Physics: Conference Series, 2020, 1461, 012167. | 0.3 | 1 |
| 25 | Third-harmonic spectroscopy of all-dielectric oligomers with both electric and magnetic resonances. , 2014, , . | | 0 |
| 26 | Third-Harmonic Generation from Silicon Oligomers and Metasurfaces. , 2015, , . | | 0 |
| 27 | Observation of Spontaneous Symmetry Breaking in Nanostructures. , 2016, , . | | 0 |
| 28 | Free-carrier contribution to all-optical switching in Mie-resonant hydrogenated amorphous silicon nanodisks. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 29 | Third harmonic generation in isolated all dielectric meta-atoms (Conference Presentation). , 2016, , . | | 0 |
| 30 | Nonlinear anisotropy in silicon nanoparticle oligomers. AIP Conference Proceedings, 2017, , . | 0.3 | 0 |
| 31 | The correlation between magneto-optical response and magnetic dipole resonance excitation in subwavelength silicon-nickel nanogratings. AIP Conference Proceedings, 2017, , . | 0.3 | 0 |
| 32 | Magneto-optical effects from nanoparticles enhanced by Mie resonances. , 2017, , . | | 0 |
| 33 | Enhancement of the intensity magneto-optical effect in magnetophotonic metasurfaces. Journal of Physics: Conference Series, 2018, 1092, 012094. | 0.3 | 0 |
| 34 | Magnetic field driven light control by hybrid magneto-optical metasurfaces. Journal of Physics: Conference Series, 2020, 1461, 012010. | 0.3 | 0 |
| 35 | Collective magnetic modes excitation in GaAs nanoclusters by azimuthally polarized vector beams. Journal of Physics: Conference Series, 2020, 1461, 012192. | 0.3 | 0 |
| 36 | Enhanced third-harmonic generation in silicon oligomers driven by magnetic Fano resonance. , 2016, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Multipolar Analysis of the Third Harmonic Radiation Pattern from Fishnet Metamaterials. , 2016, , . | | 0 |
| 38 | Ultrafast Nonlinearities Driven by Magnetic Response in All-Dielectric Nanostructures. , 2016, , . | | 0 |
| 39 | Nonlinear Unidirectional Topological States in Zigzag Arrays of Bianisotropic Dielectric Nanoparticles. , 2018, , . | | 0 |
| 40 | Enhanced magneto-optical effects in dielectric Mie-resonant metasurfaces. , 2018, , . | | 0 |
| 41 | Local field coupling effects in silicon oligomers revealed by third-harmonic generation microscopy. , 2018, , . | | 0 |
| 42 | Nonlinear Light Generation Driven by Collective Magnetic Modes in Oligomers of Silicon Nanoparticles Excited by Vector Beams. , 2020, , . | | 0 |
| 43 | Time-dependent metasurfaces for efficient all-optical switching at different frequencies. AIP Conference Proceedings, 2020, , . | 0.3 | 0 |
| 44 | Ultrafast Light Redistribution Between Diffraction Orders by GaAs Metasurface. , 2020, , . | | 0 |
| 45 | Electro-optical modulation in waveguides of Mie-resonant nanoparticle chains combined with quantum wells. AIP Conference Proceedings, 2020, , . | 0.3 | 0 |