Roman E Noskov

List of Publications by Citations

43 papers	583 citations	15 h-index	23 g-index
51 ext. papers	689 ext. citations	4.9 avg, IF	3.93 L-index

#	Paper	IF	Citations
43	Subwavelength modulational instability and plasmon oscillons in nanoparticle arrays. *Physical Review Letters*, **2012**, 108, 093901	7.4	59
42	Nonlinear metal□dielectric nanoantennas for light switching and routing. *New Journal of Physics*, **2012**, 14, 093005	2.9	58
41	CW-pumped single-pass frequency comb generation by resonant optomechanical nonlinearity in dual-nanoweb fiber. *Optica*, **2014**, 1, 158	8.6	44
40	Giant Optical Activity of Quantum Dots, Rods, and Disks with Screw Dislocations. *Scientific Reports*, **2015**, 5, 14712	4.9	43
39	Controllable Synthesis of Calcium Carbonate with Different Geometry: Comprehensive Analysis of Particle Formation, Cellular Uptake, and Biocompatibility. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 19142-19156	8.3	33
38	Biological Kerker Effect Boosts Light Collection Efficiency in Plants. *Nano Letters*, **2019**, 19, 7062-7071	11.5	28
37	Oscillons, solitons, and domain walls in arrays of nonlinear plasmonic nanoparticles. *Scientific Reports*, **2012**, 2, 873	4.9	25
36	Dissipative plasmon solitons in graphene nanodisk arrays. *Physical Review B*, **2015**, 91,	3.3	22
35	Resolving the mystery of milliwatt-threshold opto-mechanical self-oscillation in dual-nanoweb fiber. *APL Photonics*, **2016**, 1, 056101	5.2	22
34	Birefringent left-handed metamaterials and perfect lenses for vectorial fields. *New Journal of Physics*, **2005**, 7, 220-220	2.9	19
33	Plasmon-induced terahertz radiation generation due to symmetry breaking in a nonlinear metallic nanodimer. *Journal of Applied Physics*, **2009**, 106, 073104	2.5	17
32	Bioinspired Amyloid Nanodots with Visible Fluorescence. *Advanced Optical Materials*, **2019**, 7, 1801400	8.1	17
31	Generation of widely tunable continuous-wave terahertz radiation using a two-dimensional lattice of nonlinear metallic nanodimers. *Physical Review B*, **2010**, 82,	3.3	16
30	Subwavelength plasmonic kinks in arrays of metallic nanoparticles. *Optics Express*, **2012**, 20, 2733-9	3.3	16
29	Nanoradar based on nonlinear dimer nanoantenna. *Optics Letters*, **2012**, 37, 3921-3	3	15
28	Optical bistability of planar metal/dielectric nonlinear nanostructures. *Opto-electronics Review*, **2006**, 14,	2.4	15
27	Multispectral sensing of biological liquids with hollow-core microstructured optical fibres. *Light: Science and Applications*, **2020**, 9, 173	16.7	13

26	Non-Mie optical resonances in anisotropic biomineral nanoparticles. *Nanoscale*, **2018**, 10, 21031-21040	7.7	13
25	Optical tristability and ultrafast Fano switching in nonlinear magnetoplasmonic nanoparticles. *Physical Review B*, **2018**, 97,	3.3	12
24	Effects of squeezed-film damping on the optomechanical nonlinearity in dual-nanoweb fiber. *Applied Physics Letters*, **2013**, 103, 221107	3.4	11
23	Ultrafast cryptography with indefinitely switchable optical nanoantennas. *Light: Science and Applications*, **2018**, 7, 77	16.7	10
22	Nonlinear nanoantenna with self-tunable scattering pattern. *JETP Letters*, **2013**, 96, 759-764	1.2	9
21	Subwavelength solitons and Faraday waves in two-dimensional lattices of metal nanoparticles. *Optics Letters*, **2013**, 38, 2554-6	3	9
20	Enabling magnetic resonance imaging of hollow-core microstructured optical fibers via nanocomposite coating. *Optics Express*, **2019**, 27, 9868-9878	3.3	9
19	Microstructured Optical Waveguide-Based Endoscopic Probe Coated with Silica Submicron Particles. *Materials*, **2019**, 12,	3.5	8
18	Wire resonator as a broadband Huygens superscatterer. *Physical Review B*, **2020**, 102,	3.3	8
17	Plasmonic kinks and walking solitons in nonlinear lattices of metal nanoparticles. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2014**, 372,	3	6
16	Nonlinear Nanophotonic Circuitry: Tristable and Astable Multivibrators and Chaos Generator. *Laser and Photonics Reviews*, **2020**, 14, 1900304	8.3	5
15	Golden Vaterite as a Mesoscopic Metamaterial for Biophotonic Applications. *Advanced Materials*, **2021**, 33, e2008484	24	5
14	Coherent control of flexural vibrations in dual-nanoweb fibers using phase-modulated two-frequency light. *Physical Review A*, **2017**, 96,	2.6	3
13	Modifying light–matter interactions with perovskite nanocrystals inside antiresonant photonic crystal fiber. *Photonics Research*, **2021**, 9, 1462	6	3
12	Surface-wave mechanism of subwavelength imaging by a flat left-handed superlens. *Journal of Experimental and Theoretical Physics*, **2009**, 109, 734-750	1	2
11	Binary-nanoparticle left-handed metamaterial for optical frequencies **2007**,		2
10	Interplay of Cascaded Raman- and Brillouin-like Scattering in Nanostructured Optical Waveguides. *ACS Photonics*, **2018**, 5, 1074-1083	6.3	2
9	Circular wire-bundle superscatterer. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2022**, 108065	2.1	1

8	Engineering Profiles of Thermally Drawn Optical Fiber Tapers. *Journal of Lightwave Technology*, **2021**, 39, 3237-3243	4	1
7	Ultrasmooth, biocompatible, and removable nanocoating for hollow-core microstructured optical fibers. *Optics Letters*, **2021**, 46, 4828-4831	3	1
6	Layer-by-layer assembled-composite nanocoating for functionalization of microstructured optical fibers. *Journal of Physics: Conference Series*, **2020**, 1571, 012006	0.3	0
5	Noncontact characterization of microstructured optical fibers coating in real time. *Optics Letters*, **2021**, 46, 4793-4796	3	0
4	Recent Advances in Theory and Applications of Electromagnetic Metamaterials. *International Journal of Antennas and Propagation*, **2015**, 2015, 1-2	1.2	
3	Resonant nano-and microstructured media: Left-handed properties and negative refraction of electromagnetic waves. *Bulletin of the Russian Academy of Sciences: Physics*, **2007**, 71, 43-47	0.4	
2	Green ultra-wideband antenna utilizing Mie resonances in cactus. *Applied Physics Letters*, **2022**, 120, 053301	3.4	
1	Subwavelength vaterite spherulite scattering properties in optical region. *Journal of Physics: Conference Series*, **2020**, 1461, 012055	0.3	