

# Pavel Belov

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44  
papers

2,574  
citations

22  
h-index

50  
g-index

52  
ext. papers

3,287  
ext. citations

6.1  
avg. IF

5.33  
L-index

#	Paper	IF	Citations
44	Improving homogeneity in abdominal imaging at 3 T with light, flexible, and compact metasurface. <i>Magnetic Resonance in Medicine</i> , <b>2022</b> , 87, 496-508	4.4	1
43	Color-preserving passive radiative cooling for an actively temperature-regulated enclosure.. <i>Light: Science and Applications</i> , <b>2022</b> , 11, 122	16.7	4
42	Wireless power transfer based on novel physical concepts. <i>Nature Electronics</i> , <b>2021</b> , 4, 707-716	28.4	17
41	Acceleration of radiative recombination in quasi-2D perovskite films on hyperbolic metamaterials. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 091104	3.4	6
40	Dielectric super-absorbing metasurfaces via PT symmetry breaking. <i>Optica</i> , <b>2021</b> , 8, 1290	8.6	10
39	Non-Huygens invisible metasurfaces. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1461, 012156	0.3	
38	Metasurface for Near-Field Wireless Power Transfer With Reduced Electric Field Leakage. <i>IEEE Access</i> , <b>2020</b> , 8, 40224-40231	3.5	7
37	Toroidal Dipole Mode Observation In Situ. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 1900406	1.3	6
36	Seeing the Unseen: Experimental Observation of Magnetic Anapole State Inside a High-Index Dielectric Particle. <i>Annalen Der Physik</i> , <b>2020</b> , 532, 2000293	2.6	8
35	Obstruction tolerant metasurface-based wireless power transfer system for multiple receivers. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2020</b> , 41, 100835	2.6	2
34	Imaging of two samples with a single transmit/receive channel using coupled ceramic resonators for MR microscopy at 17.2 T. <i>NMR in Biomedicine</i> , <b>2020</b> , 33, e4397	4.4	6
33	Multi-mode metamaterial-inspired resonator for near-field wireless power transfer. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 083501	3.4	7
32	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 6317-6329	4.9	7
31	Smart Table Based on a Metasurface for Wireless Power Transfer. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	23
30	Transverse Scattering and Generalized Kerker Effects in All-Dielectric Mie-Resonant Metaoptics. <i>Physical Review Letters</i> , <b>2019</b> , 122, 193905	7.4	79
29	Systematic Analysis of the Improvements in Magnetic Resonance Microscopy with Ferroelectric Composite Ceramics. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900912	24	13
28	Boosting Terahertz Photoconductive Antenna Performance with Optimised Plasmonic Nanostructures. <i>Scientific Reports</i> , <b>2018</b> , 8, 6624	4.9	46

27	Wireless power transfer inspired by the modern trends in electromagnetics. <i>Applied Physics Reviews</i> , <b>2017</b> , 4, 021102	17.3	80
26	Enhancement of terahertz photoconductive antenna operation by optical nanoantennas. <i>Laser and Photonics Reviews</i> , <b>2017</b> , 11, 1600199	8.3	73
25	Flexible and compact hybrid metasurfaces for enhanced ultra high field in vivo magnetic resonance imaging. <i>Scientific Reports</i> , <b>2017</b> , 7, 1678	4.9	51
24	Giant field enhancement in high-index dielectric subwavelength particles. <i>Scientific Reports</i> , <b>2017</b> , 7, 731	4.9	35
23	Approach for fine-tuning of hybrid dimer antennas via laser melting at the nanoscale. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1600272	2.6	5
22	Midinfrared Surface Waves on a High Aspect Ratio Nanotrench Platform. <i>ACS Photonics</i> , <b>2017</b> , 4, 2899-2907	2.07	39
21	Multipolar modes in dielectric disk resonator for wireless power transfer <b>2017</b> ,		1
20	All-Dielectric Nanophotonics: Fundamentals, Fabrication, and Applications. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , <b>2017</b> , 337-385	0.1	2
19	Wireless power transfer based on magnetic quadrupole coupling in dielectric resonators. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 023902	3.4	42
18	Experimental realisation of all-dielectric bianisotropic metasurfaces. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 221903	3.4	34
17	Experimental demonstration of water based tunable metasurface. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 011901	3.4	49
16	Demonstration of the enhanced Purcell factor in all-dielectric structures. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 211105	3.4	47
15	Wireless power transfer based on dielectric resonators with colossal permittivity. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 223902	3.4	32
14	Towards all-dielectric metamaterials and nanophotonics <b>2015</b> ,		48
13	Superabsorption of light by nanoparticles. <i>Nanoscale</i> , <b>2015</b> , 7, 18897-901	7.7	11
12	Tuning of Magnetic Optical Response in a Dielectric Nanoparticle by Ultrafast Photoexcitation of Dense Electron-Hole Plasma. <i>Nano Letters</i> , <b>2015</b> , 15, 6187-92	11.5	121
11	Wire-Medium Hyperlens for Enhancing Radiation From Subwavelength Dipole Sources. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 4848-4856	4.9	7
10	Reduction of scattering using thin all-dielectric shells designed by stochastic optimizer. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 184508	2.5	6

9	Hyperbolic metamaterials. <i>Nature Photonics</i> , <b>2013</b> , 7, 948-957	33.9	1297
8	Complex band structure of nanostructured metal-dielectric metamaterials. <i>Optics Express</i> , <b>2013</b> , 21, 15933-8	3.8	31
7	Spontaneous emission enhancement in metal-dielectric metamaterials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2012</b> , 376, 185-187	2.3	85
6	Near-Field Antenna Radome Based on Extremely Anisotropic Metamaterial. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2012</b> , 11, 438-441	3.8	8
5	An arrayed nanoantenna for broadband light emission and detection. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2011</b> , 5, 347-349	2.5	29
4	Microwave-assisted methylation of phenols with DMF-DMA. <i>Tetrahedron Letters</i> , <b>2011</b> , 52, 2776-2779	2	14
3	Magnification of subwavelength field distributions at microwave frequencies using a wire medium slab operating in the canalization regime. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 104102	3.4	65
2	Experimental demonstration of subwavelength field channeling at microwave frequencies using a capacitively loaded wire medium. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	25
1	Resolution of subwavelength transmission devices formed by a wire medium. <i>Physical Review E</i> , <b>2006</b> , 73, 056607	2.4	86