

Pavel Belov

List of Publications by Citations

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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	Hyperbolic metamaterials. <i>Nature Photonics</i> , 2013 , 7, 948-957	33.9	1297
43	Tuning of Magnetic Optical Response in a Dielectric Nanoparticle by Ultrafast Photoexcitation of Dense Electron-Hole Plasma. <i>Nano Letters</i> , 2015 , 15, 6187-92	11.5	121
42	Resolution of subwavelength transmission devices formed by a wire medium. <i>Physical Review E</i> , 2006 , 73, 056607	2.4	86
41	Spontaneous emission enhancement in metal-dielectric metamaterials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 185-187	2.3	85
40	Wireless power transfer inspired by the modern trends in electromagnetics. <i>Applied Physics Reviews</i> , 2017 , 4, 021102	17.3	80
39	Transverse Scattering and Generalized Kerker Effects in All-Dielectric Mie-Resonant Metaoptics. <i>Physical Review Letters</i> , 2019 , 122, 193905	7.4	79
38	Enhancement of terahertz photoconductive antenna operation by optical nanoantennas. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600199	8.3	73
37	Magnification of subwavelength field distributions at microwave frequencies using a wire medium slab operating in the canalization regime. <i>Applied Physics Letters</i> , 2007 , 91, 104102	3.4	65
36	Flexible and compact hybrid metasurfaces for enhanced ultra high field in vivo magnetic resonance imaging. <i>Scientific Reports</i> , 2017 , 7, 1678	4.9	51
35	Experimental demonstration of water based tunable metasurface. <i>Applied Physics Letters</i> , 2016 , 109, 011901	3.4	49
34	Towards all-dielectric metamaterials and nanophotonics 2015 ,		48
33	Demonstration of the enhanced Purcell factor in all-dielectric structures. <i>Applied Physics Letters</i> , 2016 , 108, 211105	3.4	47
32	Boosting Terahertz Photoconductive Antenna Performance with Optimised Plasmonic Nanostructures. <i>Scientific Reports</i> , 2018 , 8, 6624	4.9	46
31	Wireless power transfer based on magnetic quadrupole coupling in dielectric resonators. <i>Applied Physics Letters</i> , 2016 , 108, 023902	3.4	42
30	Midinfrared Surface Waves on a High Aspect Ratio Nanotrench Platform. <i>ACS Photonics</i> , 2017 , 4, 2899-2907	10.7	39
29	Giant field enhancement in high-index dielectric subwavelength particles. <i>Scientific Reports</i> , 2017 , 7, 731	4.9	35
28	Experimental realisation of all-dielectric bianisotropic metasurfaces. <i>Applied Physics Letters</i> , 2016 , 108, 221903	3.4	34

27	Wireless power transfer based on dielectric resonators with colossal permittivity. <i>Applied Physics Letters</i> , 2016 , 109, 223902	3.4	32
26	Complex band structure of nanostructured metal-dielectric metamaterials. <i>Optics Express</i> , 2013 , 21, 1593-8	3.3	31
25	An arrayed nanoantenna for broadband light emission and detection. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 347-349	2.5	29
24	Experimental demonstration of subwavelength field channeling at microwave frequencies using a capacitively loaded wire medium. <i>Physical Review B</i> , 2006 , 73,	3.3	25
23	Smart Table Based on a Metasurface for Wireless Power Transfer. <i>Physical Review Applied</i> , 2019 , 11,	4.3	23
22	Wireless power transfer based on novel physical concepts. <i>Nature Electronics</i> , 2021 , 4, 707-716	28.4	17
21	Microwave-assisted methylation of phenols with DMF-DMA. <i>Tetrahedron Letters</i> , 2011 , 52, 2776-2779	2	14
20	Systematic Analysis of the Improvements in Magnetic Resonance Microscopy with Ferroelectric Composite Ceramics. <i>Advanced Materials</i> , 2019 , 31, e1900912	24	13
19	Superabsorption of light by nanoparticles. <i>Nanoscale</i> , 2015 , 7, 18897-901	7.7	11
18	Dielectric super-absorbing metasurfaces via PT symmetry breaking. <i>Optica</i> , 2021 , 8, 1290	8.6	10
17	Near-Field Antenna Radome Based on Extremely Anisotropic Metamaterial. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 438-441	3.8	8
16	Seeing the Unseen: Experimental Observation of Magnetic Anapole State Inside a High-Index Dielectric Particle. <i>Annalen Der Physik</i> , 2020 , 532, 2000293	2.6	8
15	Wire-Medium Hyperlens for Enhancing Radiation From Subwavelength Dipole Sources. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 4848-4856	4.9	7
14	Metasurface for Near-Field Wireless Power Transfer With Reduced Electric Field Leakage. <i>IEEE Access</i> , 2020 , 8, 40224-40231	3.5	7
13	Multi-mode metamaterial-inspired resonator for near-field wireless power transfer. <i>Applied Physics Letters</i> , 2020 , 117, 083501	3.4	7
12	. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 6317-6329	4.9	7
11	Reduction of scattering using thin all-dielectric shells designed by stochastic optimizer. <i>Journal of Applied Physics</i> , 2014 , 116, 184508	2.5	6
10	Toroidal Dipole Mode Observation In Situ. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900406	1.3	6

9	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> , 2020 , 33, e4397	4.4	6
8	Acceleration of radiative recombination in quasi-2D perovskite films on hyperbolic metamaterials. <i>Applied Physics Letters</i> , 2021 , 118, 091104	3.4	6
7	Approach for fine-tuning of hybrid dimer antennas via laser melting at the nanoscale. <i>Annalen Der Physik</i> , 2017 , 529, 1600272	2.6	5
6	Color-preserving passive radiative cooling for an actively temperature-regulated enclosure.. <i>Light: Science and Applications</i> , 2022 , 11, 122	16.7	4
5	All-Dielectric Nanophotonics: Fundamentals, Fabrication, and Applications. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2017 , 337-385	0.1	2
4	Obstruction tolerant metasurface-based wireless power transfer system for multiple receivers. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2020 , 41, 100835	2.6	2
3	Multipolar modes in dielectric disk resonator for wireless power transfer 2017 ,		1
2	Improving homogeneity in abdominal imaging at 3 T with light, flexible, and compact metasurface. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 496-508	4.4	1
1	Non-Huygens invisible metasurfaces. <i>Journal of Physics: Conference Series</i> , 2020 , 1461, 012156	0.3	