

Prashant Shekhar

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,508
citations

393982

19
h-index

500791

28
g-index

30
all docs

30
docs citations

30
times ranked

4350
citing authors

#	ARTICLE	IF	CITATIONS
1	All-dielectric metamaterials. <i>Nature Nanotechnology</i> , 2016, 11, 23-36.	15.6	1,556
2	Hyperbolic metamaterials: fundamentals and applications. <i>Nano Convergence</i> , 2014, 1, 14.	6.3	427
3	Broadband super-Planckian thermal emission from hyperbolic metamaterials. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	298
4	High temperature epsilon-near-zero and epsilon-near-pole metamaterial emitters for thermophotovoltaics. <i>Optics Express</i> , 2013, 21, A96.	1.7	234
5	Hyperbolic phonon-polaritons. <i>Nature Materials</i> , 2014, 13, 1081-1083.	13.3	145
6	Controlling evanescent waves using silicon photonic all-dielectric metamaterials for dense integration. <i>Nature Communications</i> , 2018, 9, 1893.	5.8	140
7	Heterogeneous to homogeneous melting transition visualized with ultrafast electron diffraction. <i>Science</i> , 2018, 360, 1451-1455.	6.0	133
8	Transparent subdiffraction optics: nanoscale light confinement without metal. <i>Optica</i> , 2014, 1, 96.	4.8	102
9	Super-Coulombic atom-atom interactions in hyperbolic media. <i>Nature Communications</i> , 2017, 8, 14144.	5.8	67
10	Observation of long-range dipole-dipole interactions in hyperbolic metamaterials. <i>Science Advances</i> , 2018, 4, eaar5278.	4.7	57
11	Strong coupling in hyperbolic metamaterials. <i>Physical Review B</i> , 2014, 90, .	1.1	45
12	Fundamental figures of merit for engineering FÅrster resonance energy transfer. <i>Optics Express</i> , 2018, 26, 19371.	1.7	42
13	Photonic analog of a van Hove singularity in metamaterials. <i>Physical Review B</i> , 2013, 88, .	1.1	40
14	Quantum gyroelectric effect: Photon spin-1 quantization in continuum topological bosonic phases. <i>Physical Review A</i> , 2018, 98, .	1.0	36
15	Long-Range Dipole-Dipole Interactions in a Plasmonic Lattice. <i>Nano Letters</i> , 2022, 22, 22-28.	4.5	28
16	Photonic skin-depth engineering. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1346.	0.9	24
17	Extreme ultraviolet plasmonics and Cherenkov radiation in silicon. <i>Optica</i> , 2018, 5, 1590.	4.8	24
18	Momentum-Resolved Electron Energy Loss Spectroscopy for Mapping the Photonic Density of States. <i>ACS Photonics</i> , 2017, 4, 1009-1014.	3.2	23

#	ARTICLE	IF	CITATIONS
19	Thermal graphene metamaterials and epsilon-near-zero high temperature plasmonics. Journal of Optics (United Kingdom), 2017, 19, 055101.	1.0	19
20	Dual-band quasi-coherent radiative thermal source. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 216, 99-104.	1.1	13
21	Fast electrons interacting with a natural hyperbolic medium: bismuth telluride. Optics Express, 2019, 27, 6970.	1.7	13
22	Breakthroughs in Photonics 2014: Relaxed Total Internal Reflection. IEEE Photonics Journal, 2015, 7, 1-5.	1.0	9
23	Switching Purcell effect with nonlinear epsilon-near-zero media. Applied Physics Letters, 2018, 113, 021103.	1.5	9
24	High-Temperature Polaritons in Ceramic Nanotube Antennas. Nano Letters, 2019, 19, 8565-8571.	4.5	7
25	Two-dimensional extreme skin depth engineering for CMOS photonics. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 1307.	0.9	7
26	Definition of polaritonic fluctuations in natural hyperbolic media. Physical Review A, 2019, 99, .	1.0	4
27	Probabilistic vortex crossing criterion for superconducting nanowire single-photon detectors. Journal of Applied Physics, 2020, 127, .	1.1	4
28	Deep ultra-violet plasmonics: exploiting momentum-resolved electron energy loss spectroscopy to probe germanium. Optics Express, 2022, 30, 12630.	1.7	2
29	Collective spontaneous emission and strong coupling in semiconductor hyperbolic metamaterials. , 2013, , .		0
30	Demonstration of Two-Dimensional Extreme Skin Depth Engineering in CMOS Photonics Foundry. , 2020, , .		0