

Pavel Tonkaev

List of Publications by Year in descending order

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19
papers

423
citations

840776

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h-index

996975

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19
all docs

19
docs citations

19
times ranked

435
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-Temperature Lasing from Mie-Resonant Nonplasmonic Nanoparticles. ACS Nano, 2020, 14, 8149-8156.	14.6	105
2	Light-Emitting Nanophotonic Designs Enabled by Ultrafast Laser Processing of Halide Perovskites. Small, 2020, 16, e2000410.	10.0	60
3	Lasing Action from Anapole Metasurfaces. Nano Letters, 2021, 21, 6563-6568.	9.1	43
4	Enhanced Multiphoton Processes in Perovskite Metasurfaces. Nano Letters, 2021, 21, 7191-7197.	9.1	40
5	Black Au-Decorated TiO ₂ Produced via Laser Ablation in Liquid. ACS Applied Materials & Interfaces, 2021, 13, 6522-6531.	8.0	32
6	Multifunctional and Transformative Metaphotonics with Emerging Materials. Chemical Reviews, 2022, 122, 15414-15449.	47.7	23
7	Stimulated Raman Scattering from Mie-Resonant Subwavelength Nanoparticles. Nano Letters, 2020, 20, 5786-5791.	9.1	22
8	High-Q Dielectric Mie-Resonant Nanostructures (Brief Review). JETP Letters, 2020, 112, 615-622.	1.4	20
9	Mie-resonant mesoporous electron transport layer for highly efficient perovskite solar cells. Nano Energy, 2021, 89, 106484.	16.0	18
10	Optical cooling of lead halide perovskite nanoparticles enhanced by Mie resonances. Nanoscale, 2019, 11, 17800-17806.	5.6	16
11	Acceleration of radiative recombination in quasi-2D perovskite films on hyperbolic metamaterials. Applied Physics Letters, 2021, 118, .	3.3	12
12	Excitonic versus Free-Carrier Contributions to the Nonlinearly Excited Photoluminescence in CsPbBr ₃ Perovskites. ACS Photonics, 2022, 9, 179-189.	6.6	11
13	Modifying light-matter interactions with perovskite nanocrystals inside antiresonant photonic crystal fiber. Photonics Research, 2021, 9, 1462.	7.0	10
14	All-dielectric resonant metaphotonics: opinion. Optical Materials Express, 2022, 12, 2879.	3.0	6
15	Enhanced Five-Photon Photoluminescence in Subwavelength AlGaAs Resonators. Nano Letters, 2022, 22, 4200-4206.	9.1	5
16	Light induced temperature decrease of semiconductor nanoparticle. Journal of Physics: Conference Series, 2020, 1461, 012179.	0.4	0
17	Numerical study of purcell effect enhancement for CsPbBr ₃ perovskite cubic particle. AIP Conference Proceedings, 2020, , .	0.4	0
18	Defects and Morphology Contribution to Photoluminescence of CH ₃ NH ₃ PbI ₃ Nanostructured by Femtosecond Laser Pulses. Solid State Phenomena, 0, 312, 179-184.	0.3	0

#	ARTICLE	IF	CITATIONS
19	Control of spontaneous emission rate in lead halide perovskite film on hyperbolic metamaterial. Journal of Physics: Conference Series, 2021, 2015, 012153.	0.4	0