

Saman Jahani

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

2,074
citations

840119

11
h-index

887659

17
g-index

29
all docs

29
docs citations

29
times ranked

2873
citing authors

#	ARTICLE	IF	CITATIONS
1	All-dielectric metamaterials. <i>Nature Nanotechnology</i> , 2016, 11, 23-36.	15.6	1,556
2	Controlling evanescent waves using silicon photonic all-dielectric metamaterials for dense integration. <i>Nature Communications</i> , 2018, 9, 1893.	5.8	140
3	Transparent subdiffraction optics: nanoscale light confinement without metal. <i>Optica</i> , 2014, 1, 96.	4.8	102
4	Intense optical parametric amplification in dispersion-engineered nanophotonic lithium niobate waveguides. <i>Optica</i> , 2022, 9, 303.	4.8	49
5	Miniaturization of Circular Patch Antennas Using MNG Metamaterials. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010, 9, 1194-1196.	2.4	40
6	Spectral phase transitions in optical parametric oscillators. <i>Nature Communications</i> , 2021, 12, 835.	5.8	29
7	Nondissipative non-Hermitian dynamics and exceptional points in coupled optical parametric oscillators. <i>Optica</i> , 2021, 8, 415.	4.8	27
8	Photonic skin-depth engineering. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1346.	0.9	24
9	Mie Resonance Engineering in Meta-Shell Supraparticles for Nanoscale Nonlinear Optics. <i>ACS Nano</i> , 2020, 14, 17203-17212.	7.3	19
10	Enhancing the performance of superconducting nanowire-based detectors with high-filling factor by using variable thickness. <i>Superconductor Science and Technology</i> , 2021, 34, 035010.	1.8	14
11	Temporal walk-off induced dissipative quadratic solitons. <i>Nature Photonics</i> , 2022, 16, 162-168.	15.6	14
12	Wavelength-scale optical parametric oscillators. <i>Optica</i> , 2021, 8, 262.	4.8	12
13	Spin photonic forces in non-reciprocal waveguides. <i>Optics Express</i> , 2018, 26, 23898.	1.7	11
14	Breakthroughs in Photonics 2014: Relaxed Total Internal Reflection. <i>IEEE Photonics Journal</i> , 2015, 7, 1-5.	1.0	9
15	Switching Purcell effect with nonlinear epsilon-near-zero media. <i>Applied Physics Letters</i> , 2018, 113, 021103.	1.5	9
16	Two-dimensional extreme skin depth engineering for CMOS photonics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 1307.	0.9	7
17	100 dB/cm broadband optical parametric amplification in dispersion engineered nanophotonic lithium niobate waveguides. , 2021, , .		5
18	Probabilistic vortex crossing criterion for superconducting nanowire single-photon detectors. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	4

#	ARTICLE	IF	CITATIONS
19	Transparent sub-diffraction Optics: Nanoscale light confinement without metal. , 2014, , .		2
20	High-Density Photonic Chip with All-Dielectric Metamaterials. , 2018, , .		1
21	Transformed Cladding Waveguides: Confining Light with All-Dielectric Metamaterials. , 2013, , .		0
22	Photonic skin-depth engineering: universal spin-momentum locking of light (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (0
23	Walk-off Induced Dissipative Quadratic Solitons in Degenerate Optical Parametric Oscillators. , 2021, , .		0
24	Transparent subdiffraction optics: nanoscale light confinement without metal. , 2015, , .		0
25	Non-resonant Enhancement of Second-Harmonic Generation in a Dielectric Particle with a Nanostructured Nonlinear Metamaterial Shell. , 2019, , .		0
26	Observation of second-order spectral phase transition in optical parametric oscillator. , 2020, , .		0
27	Optical Parametric Oscillation in Dielectric Multipolar Nanostructures. , 2020, , .		0
28	Demonstration of Two-Dimensional Extreme Skin Depth Engineering in CMOS Photonics Foundry. , 2020, , .		0
29	Light confinement in low-index particles with all-dielectric anisotropic metamaterial shell (Conference Presentation). , 2020, , .		0