

Jeremy Upham

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,516
citations

489802

18
h-index

466096

32
g-index

41
all docs

41
docs citations

41
times ranked

3678
citing authors

#	ARTICLE	IF	CITATIONS
1	Fourier-Engineered Plasmonic Lattice Resonances. ACS Nano, 2022, 16, 5696-5703.	7.3	11
2	Relaxed Phase-Matching Constraints in Zero-Index Waveguides. Physical Review Letters, 2022, 128, .	2.9	11
3	Enhanced Nonlinear Optical Responses of Layered Epsilon-near-Zero Metamaterials at Visible Frequencies. ACS Photonics, 2021, 8, 125-129.	3.2	51
4	Unconventional time-bandwidth performance of resonant cavities with nonreciprocal coupling. Physical Review A, 2021, 103, .	1.0	3
5	Ultra-high-Q resonances in plasmonic metasurfaces. Nature Communications, 2021, 12, 974.	5.8	212
6	Arbitrarily high time bandwidth performance in a nonreciprocal optical resonator with broken time invariance. Scientific Reports, 2020, 10, 15752.	1.6	6
7	Broadband frequency translation through time refraction in an epsilon-near-zero material. Nature Communications, 2020, 11, 2180.	5.8	121
8	Weak superradiance in arrays of plasmonic nanoantennas. Physical Review A, 2019, 100, .	1.0	6
9	Tuning the Dielectric Constant Zero Crossing of Vanadium Dioxide (VO ₂). , 2019, , .		0
10	Large optical nonlinearity of nanoantennas coupled to an epsilon-near-zero material. Nature Photonics, 2018, 12, 79-83.	15.6	276
11	Non-linear Metasurfaces Based on Epsilon-Near-Zero Thin Films. , 2018, , .		0
12	Label-Free Super-Resolution Microscopy with Coherent Nonlinear Structured-Illumination. , 2018, , .		0
13	Automated classification of multiphoton microscopy images of ovarian tissue using deep learning. Journal of Biomedical Optics, 2018, 23, 1.	1.4	41
14	Demonstration of ultra-high time-bandwidth product in a non-reciprocal fiber-optic system. , 2018, , .		0
15	Controllable low-loss slow light in photonic crystals. , 2018, , .		1
16	Generalized optical angular momentum sorter and its application to high-dimensional quantum cryptography. Optics Express, 2017, 25, 19832.	1.7	40
17	Photonic crystal slow light waveguides in a kagome lattice. Optics Letters, 2017, 42, 3243.	1.7	50
18	Arbitrary optical wavefront shaping via spin-to-orbit coupling. Journal of Optics (United Kingdom), 2016, 18, 124002.	1.0	44

#	ARTICLE	IF	CITATIONS
19	Optical response of dipole antennas on an epsilon-near-zero substrate. <i>Physical Review A</i> , 2016, 93, .	1.0	63
20	Enhanced spectral sensitivity of a chip-scale photonic-crystal slow-light interferometer. <i>Optics Letters</i> , 2016, 41, 1431.	1.7	10
21	Strong, spectrally-tunable chirality in diffractive metasurfaces. <i>Scientific Reports</i> , 2015, 5, 13034.	1.6	78
22	Quantifying the impact of proximity error correction on plasmonic metasurfaces [Invited]. <i>Optical Materials Express</i> , 2015, 5, 2798.	1.6	14
23	Multiple-channel wavelength conversions in a photonic crystal cavity. <i>Optics Express</i> , 2015, 23, 4523.	1.7	7
24	Post-process wavelength tuning of silicon photonic crystal slow-light waveguides. <i>Optics Letters</i> , 2015, 40, 1952.	1.7	10
25	Plasmonic metasurfaces for the generation of optical orbital angular momentum. , 2014, , .		0
26	Second-harmonic generation in a silicon-carbide-based photonic crystal nanocavity. <i>Optics Letters</i> , 2014, 39, 1768.	1.7	72
27	Pulse capture without carrier absorption in dynamic Q photonic crystal nanocavities. <i>Optics Express</i> , 2014, 22, 15459.	1.7	4
28	Optical spin-to-orbital angular momentum conversion in ultra-thin metasurfaces with arbitrary topological charges. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	116
29	Generating optical orbital angular momentum at visible wavelengths using a plasmonic metasurface. <i>Light: Science and Applications</i> , 2014, 3, e167-e167.	7.7	665
30	The capture, hold and forward release of an optical pulse from a dynamic photonic crystal nanocavity. <i>Optics Express</i> , 2013, 21, 3809.	1.7	13
31	Suppression of multiple photon absorption in a SiC photonic crystal nanocavity operating at 155 μm . <i>Optics Express</i> , 2012, 20, 14789.	1.7	34
32	Strong coupling between distant photonic nanocavities and its dynamic control. <i>Nature Photonics</i> , 2012, 6, 56-61.	15.6	219
33	Time-resolved catch and release of an optical pulse from a dynamic photonic crystal nanocavity. <i>Optics Express</i> , 2011, 19, 23377.	1.7	15
34	Observation of strong coupling between distant photonic nanocavities through a waveguide. , 2010, , .		0
35	On-the-Fly Wavelength Conversion of Photons by Dynamic Control of Photonic Waveguides. <i>Applied Physics Express</i> , 2010, 3, 062001.	1.1	46
36	Time-resolved observation of stopping optical pulses by dynamic Q control of a photonic-crystal nanocavity. , 2009, , .		0

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37	Dynamic increase and decrease of photonic crystal nanocavity Q factors for optical pulse control. Optics Express, 2008, 16, 21721.	1.7	32
38	Ultra-fast dynamic control of the Q factor in a photonic crystal nanocavity. , 2008, , .		0
39	Dynamic wavelength conversion of an optical pulse traveling in a 2D photonic crystal waveguide. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	3
40	Dynamic Q factor control of photonic crystal nanocavities. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	1
41	Dynamic control of the Q factor in a photonic crystal nanocavity. Nature Materials, 2007, 6, 862-865.	13.3	241