

# Jeremy Upham

## List of Publications by Year in descending order

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41  
papers

2,516  
citations

430874

18  
h-index

414414

32  
g-index

41  
all docs

41  
docs citations

41  
times ranked

3129  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fourier-Engineered Plasmonic Lattice Resonances. ACS Nano, 2022, 16, 5696-5703.	14.6	11
2	Relaxed Phase-Matching Constraints in Zero-Index Waveguides. Physical Review Letters, 2022, 128, .	7.8	11
3	Enhanced Nonlinear Optical Responses of Layered Epsilon-near-Zero Metamaterials at Visible Frequencies. ACS Photonics, 2021, 8, 125-129.	6.6	51
4	Unconventional time-bandwidth performance of resonant cavities with nonreciprocal coupling. Physical Review A, 2021, 103, .	2.5	3
5	Ultra-high-Q resonances in plasmonic metasurfaces. Nature Communications, 2021, 12, 974.	12.8	212
6	Arbitrarily high time bandwidth performance in a nonreciprocal optical resonator with broken time invariance. Scientific Reports, 2020, 10, 15752.	3.3	6
7	Broadband frequency translation through time refraction in an epsilon-near-zero material. Nature Communications, 2020, 11, 2180.	12.8	121
8	Weak superradiance in arrays of plasmonic nanoantennas. Physical Review A, 2019, 100, .	2.5	6
9	Tuning the Dielectric Constant Zero Crossing of Vanadium Dioxide (VO <sub>2</sub> ). , 2019, , .		0
10	Large optical nonlinearity of nanoantennas coupled to an epsilon-near-zero material. Nature Photonics, 2018, 12, 79-83.	31.4	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.	2.6	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.	3.4	40
17	Photonic crystal slow light waveguides in a kagome lattice. Optics Letters, 2017, 42, 3243.	3.3	50
18	Arbitrary optical wavefront shaping via spin-to-orbit coupling. Journal of Optics (United Kingdom), 2016, 18, 124002.	2.2	44

#	ARTICLE	IF	CITATIONS
19	Optical response of dipole antennas on an epsilon-near-zero substrate. Physical Review A, 2016, 93, .	2.5	63
20	Enhanced spectral sensitivity of a chip-scale photonic-crystal slow-light interferometer. Optics Letters, 2016, 41, 1431.	3.3	10
21	Strong, spectrally-tunable chirality in diffractive metasurfaces. Scientific Reports, 2015, 5, 13034.	3.3	78
22	Quantifying the impact of proximity error correction on plasmonic metasurfaces [Invited]. Optical Materials Express, 2015, 5, 2798.	3.0	14
23	Multiple-channel wavelength conversions in a photonic crystal cavity. Optics Express, 2015, 23, 4523.	3.4	7
24	Post-process wavelength tuning of silicon photonic crystal slow-light waveguides. Optics Letters, 2015, 40, 1952.	3.3	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. Optics Letters, 2014, 39, 1768.	3.3	72
27	Pulse capture without carrier absorption in dynamic Q photonic crystal nanocavities. Optics Express, 2014, 22, 15459.	3.4	4
28	Optical spin-to-orbital angular momentum conversion in ultra-thin metasurfaces with arbitrary topological charges. Applied Physics Letters, 2014, 105, .	3.3	116
29	Generating optical orbital angular momentum at visible wavelengths using a plasmonic metasurface. Light: Science and Applications, 2014, 3, e167-e167.	16.6	665
30	The capture, hold and forward release of an optical pulse from a dynamic photonic crystal nanocavity. Optics Express, 2013, 21, 3809.	3.4	13
31	Suppression of multiple photon absorption in a SiC photonic crystal nanocavity operating at 155 nm. Optics Express, 2012, 20, 14789.	3.4	34
32	Strong coupling between distant photonic nanocavities and its dynamic control. Nature Photonics, 2012, 6, 56-61.	31.4	219
33	Time-resolved catch and release of an optical pulse from a dynamic photonic crystal nanocavity. Optics Express, 2011, 19, 23377.	3.4	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. Applied Physics Express, 2010, 3, 062001.	2.4	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.	3.4	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.	27.5	241