

M Zahirul Alam

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

2,139
citations

858243

12
h-index

993246

17
g-index

28
all docs

28
docs citations

28
times ranked

2341
citing authors

#	ARTICLE	IF	CITATIONS
1	Large optical nonlinearity of indium tin oxide in its epsilon-near-zero region. <i>Science</i> , 2016, 352, 795-797.	6.0	796
2	Nonlinear optical effects in epsilon-near-zero media. <i>Nature Reviews Materials</i> , 2019, 4, 535-551.	23.3	345
3	Large optical nonlinearity of nanoantennas coupled to an epsilon-near-zero material. <i>Nature Photonics</i> , 2018, 12, 79-83.	15.6	276
4	Ultra-high-Q resonances in plasmonic metasurfaces. <i>Nature Communications</i> , 2021, 12, 974.	5.8	212
5	Broadband frequency translation through time refraction in an epsilon-near-zero material. <i>Nature Communications</i> , 2020, 11, 2180.	5.8	121
6	Beyond the perturbative description of the nonlinear optical response of low-index materials. <i>Optics Letters</i> , 2017, 42, 3225.	1.7	71
7	Selective Excitation of Radially and Azimuthally Polarized Optical Fiber Cladding Modes. <i>Journal of Lightwave Technology</i> , 2013, 31, 3167-3175.	2.7	66
8	Optical response of dipole antennas on an epsilon-near-zero substrate. <i>Physical Review A</i> , 2016, 93, .	1.0	63
9	Enhanced Nonlinear Optical Responses of Layered Epsilon-near-Zero Metamaterials at Visible Frequencies. <i>ACS Photonics</i> , 2021, 8, 125-129.	3.2	51
10	Fundamental Radiative Processes in Near-Zero-Index Media of Various Dimensionalities. <i>ACS Photonics</i> , 2020, 7, 1965-1970.	3.2	32
11	Adiabatic Frequency Conversion Using a Time-Varying Epsilon-Near-Zero Metasurface. <i>Nano Letters</i> , 2021, 21, 5907-5913.	4.5	30
12	Photon Acceleration Using a Time-Varying Epsilon-near-Zero Metasurface. <i>ACS Photonics</i> , 2021, 8, 716-720.	3.2	24
13	Dependence of the coupling properties between a plasmonic antenna array and a sub-wavelength epsilon-near-zero film on structural and material parameters. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	13
14	Relaxed Phase-Matching Constraints in Zero-Index Waveguides. <i>Physical Review Letters</i> , 2022, 128, .	2.9	11
15	Dynamically controlling local field enhancement at an epsilon-near-zero/dielectric interface via nonlinearities of an epsilon-near-zero medium. <i>Nanophotonics</i> , 2020, 9, 4831-4837.	2.9	10
16	Weak superradiance in arrays of plasmonic nanoantennas. <i>Physical Review A</i> , 2019, 100, .	1.0	6
17	Tunable Doppler shift using a time-varying epsilon-near-zero thin film near 1550 nm. <i>Optics Letters</i> , 2021, 46, 3444.	1.7	6
18	Resonance Splitting and Enhanced Optical Nonlinearities in ITO-based Epsilon-near-zero Metasurface with Cross-shaped Nanoantennas. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
19	Plasmonic Nanoantenna-Enhanced Adiabatic Wavelength Conversion using a Time-varying Epsilon-near-zero-based Metasurface. , 2020, , .		2
20	Nonlinear plasmonic metasurfaces using multiresonant surface lattice resonances. , 2020, , .		1
21	Non-linear Metasurfaces Based on Epsilon-Near-Zero Thin Films. , 2018, , .		0
22	Tuning the Dielectric Constant Zero Crossing of Vanadium Dioxide (VO ₂). , 2019, , .		0
23	Demonstration of Wavelength Conversion by FWM Near 1550-nm in a Sub-Wavelength Antenna-ENZ Metasurface. , 2021, , .		0
24	Interaction Between a Nanoantenna Array and an Epsilon- Near-Zero Thin Film: Ultrastrong Coupling and Resonance Pinning for Engineered Highly Nonlinear Metasurface. , 2020, , .		0
25	Generation of Pulses with Dynamic Polarization Evolution Using Time-Varying Epsilon-Near-Zero Metasurface. , 2020, , .		0
26	Nonlinear Response of ENZ Plasmon Modes near 1550 nm. , 2020, , .		0
27	Manipulation of Ultrafast Pulses Using Epsilon-Near-Zero Based Plasmonic Nonlinear Metasurface. , 2021, , .		0
28	Enhanced Nonlinear Response in ENZ Metamaterials Realized Using Metal-Dielectric Multilayer Stacks. , 2021, , .		0