

M Zahirul Alam

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

2,139
citations

759233

12
h-index

888059

17
g-index

28
all docs

28
docs citations

28
times ranked

1993
citing authors

#	ARTICLE	IF	CITATIONS
1	Large optical nonlinearity of indium tin oxide in its epsilon-near-zero region. Science, 2016, 352, 795-797.	12.6	796
2	Nonlinear optical effects in epsilon-near-zero media. Nature Reviews Materials, 2019, 4, 535-551.	48.7	345
3	Large optical nonlinearity of nanoantennas coupled to an epsilon-near-zero material. Nature Photonics, 2018, 12, 79-83.	31.4	276
4	Ultra-high-Q resonances in plasmonic metasurfaces. Nature Communications, 2021, 12, 974.	12.8	212
5	Broadband frequency translation through time refraction in an epsilon-near-zero material. Nature Communications, 2020, 11, 2180.	12.8	121
6	Beyond the perturbative description of the nonlinear optical response of low-index materials. Optics Letters, 2017, 42, 3225.	3.3	71
7	Selective Excitation of Radially and Azimuthally Polarized Optical Fiber Cladding Modes. Journal of Lightwave Technology, 2013, 31, 3167-3175.	4.6	66
8	Optical response of dipole antennas on an epsilon-near-zero substrate. Physical Review A, 2016, 93, .	2.5	63
9	Enhanced Nonlinear Optical Responses of Layered Epsilon-near-Zero Metamaterials at Visible Frequencies. ACS Photonics, 2021, 8, 125-129.	6.6	51
10	Fundamental Radiative Processes in Near-Zero-Index Media of Various Dimensionalities. ACS Photonics, 2020, 7, 1965-1970.	6.6	32
11	Adiabatic Frequency Conversion Using a Time-Varying Epsilon-Near-Zero Metasurface. Nano Letters, 2021, 21, 5907-5913.	9.1	30
12	Photon Acceleration Using a Time-Varying Epsilon-near-Zero Metasurface. ACS Photonics, 2021, 8, 716-720.	6.6	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. Applied Physics Letters, 2021, 118, .	3.3	13
14	Relaxed Phase-Matching Constraints in Zero-Index Waveguides. Physical Review Letters, 2022, 128, .	7.8	11
15	Dynamically controlling local field enhancement at an epsilon-near-zero/dielectric interface via nonlinearities of an epsilon-near-zero medium. Nanophotonics, 2020, 9, 4831-4837.	6.0	10
16	Weak superradiance in arrays of plasmonic nanoantennas. Physical Review A, 2019, 100, .	2.5	6
17	Tunable Doppler shift using a time-varying epsilon-near-zero thin film near 1550 nm. Optics Letters, 2021, 46, 3444.	3.3	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