

Nahid Talebi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

1,076
citations

19
h-index

31
g-index

74
ext. papers

1,299
ext. citations

4.7
avg, IF

5.08
L-index

#	Paper	IF	Citations
65	Toroidal plasmonic eigenmodes in oligomer nanocavities for the visible. <i>Nano Letters</i> , 2012 , 12, 5239-44	11.5	122
64	Tetradymites as Natural Hyperbolic Materials for the Near-Infrared to Visible. <i>ACS Photonics</i> , 2014 , 1, 1285-1289	6.3	95
63	Resonant wedge-plasmon modes in single-crystalline gold nanoplatelets. <i>Physical Review B</i> , 2011 , 83,	3.3	74
62	Theory and applications of toroidal moments in electrodynamics: their emergence, characteristics, and technological relevance. <i>Nanophotonics</i> , 2018 , 7, 93-110	6.3	64
61	Excitation of Mesoscopic Plasmonic Tapers by Relativistic Electrons: Phase Matching versus Eigenmode Resonances. <i>ACS Nano</i> , 2015 , 9, 7641-8	16.7	49
60	Hybridized metal slit eigenmodes as an illustration of Babinet's principle. <i>ACS Nano</i> , 2011 , 5, 6701-6	16.7	48
59	Fuel-Free Nanocap-Like Motors Actuated Under Visible Light. <i>Advanced Functional Materials</i> , 2018 , 28, 1705862	15.6	40
58	Wedge Dyakonov Waves and Dyakonov Plasmons in Topological Insulator Bi ₂ Se ₃ Probed by Electron Beams. <i>ACS Nano</i> , 2016 , 10, 6988-94	16.7	37
57	Interaction of electron beams with optical nanostructures and metamaterials: from coherent photon sources towards shaping the wave function. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 103001	1.7	34
56	Numerical simulations of interference effects in photon-assisted electron energy-loss spectroscopy. <i>New Journal of Physics</i> , 2013 , 15, 053013	2.9	32
55	S spoof surface plasmons propagating along a periodically corrugated coaxial waveguide. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 135302	3	28
54	Breaking the mode degeneracy of surface plasmon resonances in a triangular system. <i>Langmuir</i> , 2012 , 28, 8867-73	4	25
53	Schrödinger electrons interacting with optical gratings: quantum mechanical study of the inverse Smith-Purcell effect. <i>New Journal of Physics</i> , 2016 , 18, 123006	2.9	25
52	A directional, ultrafast and integrated few-photon source utilizing the interaction of electron beams and plasmonic nanoantennas. <i>New Journal of Physics</i> , 2014 , 16, 053021	2.9	24
51	Analysis of plasmon propagation along a chain of metal nanospheres using the generalized multipole technique. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 937	1.7	24
50	Plasmonic ring resonator. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 2116	1.7	24
49	Reflection and Phase Matching in Plasmonic Gold Tapers. <i>Nano Letters</i> , 2016 , 16, 6137-6144	11.5	23

48	APPLICATION OF GENERALIZED MULTIPOLE TECHNIQUE TO THE ANALYSIS OF DISCONTINUITIES IN SUBSTRATE INTEGRATED WAVEGUIDES. <i>Progress in Electromagnetics Research</i> , 2007 , 69, 227-235	3.8	23
47	Plasmonic nanofocusing [grey holes for light. <i>Advances in Physics: X</i> , 2016 , 1, 297-330	5.1	19
46	Merging transformation optics with electron-driven photon sources. <i>Nature Communications</i> , 2019 , 10, 599	17.4	18
45	On the symmetry and topology of plasmonic eigenmodes in heptamer and hexamer nanocavities. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 947-954	2.6	18
44	Radiation of Dynamic Toroidal Moments. <i>ACS Photonics</i> , 2019 , 6, 467-474	6.3	17
43	Analysis of the Propagation of Light Along an Array of Nanorods Using the Generalized Multipole Techniques. <i>Journal of Computational and Theoretical Nanoscience</i> , 2008 , 5, 711-716	0.3	17
42	Plasmonic-Nanofocusing-Based Electron Holography. <i>ACS Photonics</i> , 2018 , 5, 3584-3593	6.3	16
41	Plasmonic grating as a nonlinear converter-coupler. <i>Optics Express</i> , 2012 , 20, 1392-405	3.3	16
40	Optical modes in slab waveguides with magnetoelectric effect. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 055607	1.7	14
39	Electron-light interactions beyond the adiabatic approximation: recoil engineering and spectral interferometry. <i>Advances in Physics: X</i> , 2018 , 3, 1499438	5.1	13
38	Interference between quantum paths in coherent KapitzaDirac effect. <i>New Journal of Physics</i> , 2019 , 21, 093016	2.9	12
37	Near-Field-Mediated PhotonElectron Interactions. <i>Springer Series in Optical Sciences</i> , 2019 ,	0.5	12
36	All-optical wavelength converter based on a heterogeneously integrated GaP on a silicon-on-insulator waveguide. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 2273	1.7	11
35	Strong Interaction of Slow Electrons with Near-Field Light Visited from First Principles. <i>Physical Review Letters</i> , 2020 , 125, 080401	7.4	11
34	Long-Range Coupling of Toroidal Moments for the Visible. <i>ACS Photonics</i> , 2018 , 5, 1326-1333	6.3	10
33	Spectral Interferometry with Electron Microscopes. <i>Scientific Reports</i> , 2016 , 6, 33874	4.9	9
32	Electron-driven photon sources for correlative electron-photon spectroscopy with electron microscopes. <i>Nanophotonics</i> , 2020 , 9, 4381-4406	6.3	9
31	ANALYSIS OF A LOSSY MICRORING USING THE GENERALIZED MULTIPOLE TECHNIQUE. <i>Progress in Electromagnetics Research</i> , 2006 , 66, 287-299	3.8	8

30	Plasmonic nanofocusing spectral interferometry. <i>Nanophotonics</i> , 2020 , 9, 491-508	6.3	7
29	Effect of β -aminobutyric acid on kidney injury induced by renal ischemia-reperfusion in male and female rats: Gender-related difference. <i>Advanced Biomedical Research</i> , 2015 , 4, 158	1.2	7
28	Interaction of edge exciton polaritons with engineered defects in the hyperbolic material Bi ₂ Se ₃ . <i>Communications Materials</i> , 2021 , 2,	6	7
27	Electrons Generate Self-Complementary Broadband Vortex Light Beams Using Chiral Photon Sieves. <i>Nano Letters</i> , 2020 , 20, 5975-5981	11.5	6
26	Investigating hybridization schemes of coupled split-ring resonators by electron impacts. <i>Optics Express</i> , 2015 , 23, 20721-31	3.3	5
25	Far-Field Radiation of Three-Dimensional Plasmonic Gold Tapers near Apexes. <i>ACS Photonics</i> , 2019 , 6, 2509-2516	6.3	4
24	Phase Engineering of Subwavelength Unidirectional Plasmon Launchers. <i>Advanced Optical Materials</i> , 2013 , 1, 434-437	8.1	4
23	Real-space Imaging of Plasmonic Modes of Gold Tapers by EFTEM and EELS. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2221-2222	0.5	3
22	Charting the Exciton-Polariton Landscape of WSe ₂ Thin Flakes by Cathodoluminescence Spectroscopy. <i>Advanced Photonics Research</i> , 2022 , 3, 2100124	1.9	3
21	Plasmon-Exciton Interactions in Nanometer-Thick Gold-WSe ₂ Multilayer Structures: Implications for Photodetectors, Sensors, and Light-Emitting Devices. <i>ACS Applied Nano Materials</i> , 2021 , 4, 6067-6074 ^{5.6}	5.6	2
20	Toroidal Moments Probed by Electron Beams. <i>Journal of Physics: Conference Series</i> , 2020 , 1461, 012174	0.3	1
19	Interaction of excitons with Cherenkov radiation in WSe ₂ beyond the non-recoil approximation. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 145101	3	1
18	Probing plasmonic excitation mechanisms and far-field radiation of single-crystalline gold tapers with electrons. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190599	3	1
17	Topological Hyperbolic and Dirac Plasmons. <i>International Journal of Behavioral and Consultation Therapy</i> , 2019 , 169-190	0.6	1
16	Characterization Techniques for Nano-optical Excitations. <i>Springer Series in Optical Sciences</i> , 2019 , 19-29	0.5	1
15	Electron-Light Interactions Beyond Adiabatic Approximation. <i>Springer Series in Optical Sciences</i> , 2019 , 195-243	0.5	1
14	Exchange-mediated mutual correlations and dephasing in free-electrons and light interactions. <i>New Journal of Physics</i> , 2021 , 23, 063066	2.9	1
13	Mapping optical Bloch modes of a plasmonic square lattice in real and reciprocal spaces using cathodoluminescence spectroscopy. <i>Optics Express</i> , 2021 , 29, 34328-34340	3.3	0

- 12 Ultrafast optics with slow electrons. *EPJ Web of Conferences*, **2019**, 205, 08017 0.3
- 11 Investigation of Plasmonic Modes of Gold Tapers by EELS **2016**, 889-890
- 10 Plasmons of Hexamer and Pentamer Nanocavities Probed with Swift Electrons. *Microscopy and Microanalysis*, **2014**, 20, 580-581 0.5
- 9 Interaction between Relativistic Electrons and Mesoscopic Plasmonic Tapers. *Microscopy and Microanalysis*, **2017**, 23, 1534-1535 0.5
- 8 Unconventional Surface Plasmon Excitations in Bi₂Se₃. *Microscopy and Microanalysis*, **2015**, 21, 2057-2058.5
- 7 Photon-Induced and Photon-Assisted Domains. *Springer Series in Optical Sciences*, **2019**, 153-194 0.5
- 6 Electron-Light Interactions. *Springer Series in Optical Sciences*, **2019**, 31-57 0.5
- 5 Toroidal Moments Probed by Electron Beams. *Springer Series in Optical Sciences*, **2019**, 81-118 0.5
- 4 Optical Modes of Gold Tapers Probed by Electron Beams. *Springer Series in Optical Sciences*, **2019**, 119-151.5
- 3 Electron-Induced Domain. *Springer Series in Optical Sciences*, **2019**, 59-79 0.5
- 2 Plasmons in Mesoscopic Gold Tapers. *Microscopy and Microanalysis*, **2016**, 22, 294-295 0.5
- 1 Hyperbolic Plasmons in the Topological Insulator Bi₂Se₃ **2016**, 1168-1169