Nahid Talebi

List of Publications by Year
in descending order

70 papers	1,434 citations	279487 23 h-index	329751 37 g-index
74 all docs	74 docs citations	74 times ranked	1495 citing authors

#	Article	IF	Citations
1	Toroidal Plasmonic Eigenmodes in Oligomer Nanocavities for the Visible. Nano Letters, 2012, 12, 5239-5244.	4.5	141
2	Tetradymites as Natural Hyperbolic Materials for the Near-Infrared to Visible. ACS Photonics, 2014, 1, 1285-1289.	3.2	119
3	Theory and applications of toroidal moments in electrodynamics: their emergence, characteristics, and technological relevance. Nanophotonics, 2018, 7, 93-110.	2.9	96
4	Resonant wedge-plasmon modes in single-crystalline gold nanoplatelets. Physical Review B, 2011, 83, .	1.1	81
5	Excitation of Mesoscopic Plasmonic Tapers by Relativistic Electrons: Phase Matching versus Eigenmode Resonances. ACS Nano, 2015, 9, 7641-7648.	7.3	61
6	Interaction of electron beams with optical nanostructures and metamaterials: from coherent photon sources towards shaping the wave function. Journal of Optics (United Kingdom), 2017, 19, 103001.	1.0	60
7	Hybridized Metal Slit Eigenmodes as an Illustration of Babinetâ€™s Principle. ACS Nano, 2011, 5, 6701-6706.	7.3	54
8	Fuelâ€Free Nanocapâ€Like Motors Actuated Under Visible Light. Advanced Functional Materials, 2018, 28, 1705862.	7.8	52
9	Wedge Dyakonov Waves and Dyakonov Plasmons in Topological Insulator Bi₂Se₃ Probed by Electron Beams. ACS Nano, 2016, 10, 6988-6994.	7.3	43
10	SchrÃ¶dinger electrons interacting with optical gratings: quantum mechanical study of the inverse Smithâ€“Purcell effect. New Journal of Physics, 2016, 18, 123006.	1.2	38
11	Strong Interaction of Slow Electrons with Near-Field Light Visited from First Principles. Physical Review Letters, 2020, 125, 080401.	2.9	38
12	Spoof surface plasmons propagating along a periodically corrugated coaxial waveguide. Journal Physics D: Applied Physics, 2010, 43, 135302.	1.3	34
13	Numerical simulations of interference effects in photon-assisted electron energy-loss spectroscopy. New Journal of Physics, 2013, 15, 053013.	1.2	34
14	Plasmonic ring resonator. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 2116.	0.9	31
15	Merging transformation optics with electron-driven photon sources. Nature Communications, 2019, 10, 599.	5.8	31
16	Breaking the Mode Degeneracy of Surface Plasmon Resonances in a Triangular System. Langmuir, 2012, 28, 8867-8873.	1.6	28
17	A directional, ultrafast and integrated few-photon source utilizing the interaction of electron beams and plasmonic nanoantennas. New Journal of Physics, 2014, 16, 053021.	1.2	28
18	Reflection and Phase Matching in Plasmonic Gold Tapers. Nano Letters, 2016, 16, 6137-6144.	4.5	28

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19	APPLICATION OF GENERALIZED MULTIPOLE TECHNIQUE TO THE ANALYSIS OF DISCONTINUITIES IN SUBSTRATE INTEGRATED WAVEGUIDES. Progress in Electromagnetics Research, 2007, 69, 227-235.	1.6	26
20	Analysis of plasmon propagation along a chain of metal nanospheres using the generalized multipole technique. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 937.	0.9	26
21	Electron-light interactions beyond the adiabatic approximation: recoil engineering and spectral interferometry. Advances in Physics: X, 2018, 3, 1499438.	1.5	26
22	Plasmonic-Nanofocusing-Based Electron Holography. ACS Photonics, 2018, 5, 3584-3593.	3.2	24
23	Plasmonic nanofocusing â€“ grey holes for light. Advances in Physics: X, 2016, 1, 297-330.	1.5	23
24	Radiation of Dynamic Toroidal Moments. ACS Photonics, 2019, 6, 467-474.	3.2	22
25	Electron-driven photon sources for correlative electron-photon spectroscopy with electron microscopes. Nanophotonics, 2020, 9, 4381-4406.	2.9	22
26	On the symmetry and topology of plasmonic eigenmodes in heptamer and hexamer nanocavities. Applied Physics A: Materials Science and Processing, 2014, 116, 947-954.	1.1	20
27	Interference between quantum paths in coherent Kapitzaâ€“Dirac effect. New Journal of Physics, 2019, 21, 093016.	1.2	20
28	Analysis of the Propagation of Light Along an Array of Nanorods Using the Generalized Multipole Techniques. Journal of Computational and Theoretical Nanoscience, 2008, 5, 711-716.	0.4	19
29	Electrons Generate Self-Complementary Broadband Vortex Light Beams Using Chiral Photon Sieves. Nano Letters, 2020, 20, 5975-5981.	4.5	18
30	Plasmonic grating as a nonlinear converter-coupler. Optics Express, 2012, 20, 1392.	1.7	17
31	Optical modes in slab waveguides with magnetoelectric effect. Journal of Optics (United Kingdom), 2016, 18, 055607.	1.0	17
32	Near-Field-Mediated Photonâ€“Electron Interactions. Springer Series in Optical Sciences, 2019, , .	0.5	16
33	Spectral Interferometry with Electron Microscopes. Scientific Reports, 2016, 6, 33874.	1.6	14
34	Interaction of edge exciton polaritons with engineered defects in the hyperbolic material Bi2Se3. Communications Materials, 2021, 2, .	2.9	13
35	Plasmonic nanofocusing spectral interferometry. Nanophotonics, 2020, 9, 491-508.	2.9	12
36	ANALYSIS OF A LOSSY MICRORING USING THE GENERALIZED MULTIPOLE TECHNIQUE. Progress in Electromagnetics Research, 2006, 66, 287-299.	1.6	11

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37	All-optical wavelength converter based on a heterogeneously integrated GaP on a silicon-on-insulator waveguide. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2273.	0.9	11
38	Long-Range Coupling of Toroidal Moments for the Visible. ACS Photonics, 2018, 5, 1326-1333.	3.2	11
39	Charting the Excitonâ€“Polariton Landscape of WSe₂ Thin Flakes by Cathodoluminescence Spectroscopy. Advanced Photonics Research, 2022, 3, 2100124.	1.7	10
40	Investigating hybridization schemes of coupled split-ring resonators by electron impacts. Optics Express, 2015, 23, 20721.	1.7	7
41	Plasmonâ€“Exciton Interactions in Nanometer-Thick Gold-WSe₂ Multilayer Structures: Implications for Photodetectors, Sensors, and Light-Emitting Devices. ACS Applied Nano Materials, 2021, 4, 6067-6074.	2.4	7
42	Effect of Î“-aminobutyric acid on kidney injury induced by renal ischemia-reperfusion in male and female rats: Gender-related difference. Advanced Biomedical Research, 2015, 4, 158.	0.2	7
43	Tailoring the Band Structure of Plexcitonic Crystals by Strong Coupling. ACS Photonics, 2022, 9, 2473-2482.	3.2	7
44	Phase Engineering of Subwavelength Unidirectional Plasmon Launchers. Advanced Optical Materials, 2013, 1, 434-437.	3.6	5
45	Far-Field Radiation of Three-Dimensional Plasmonic Gold Tapers near Apexes. ACS Photonics, 2019, 6, 2509-2516.	3.2	4
46	Exchange-mediated mutual correlations and dephasing in free-electrons and light interactions. New Journal of Physics, 2021, 23, 063066.	1.2	4
47	Interaction of excitons with Cherenkov radiation in WSe₂ beyond the non-recoil approximation. Journal Physics D: Applied Physics, 2022, 55, 145101.	1.3	4
48	Real-space Imaging of Plasmonic Modes of Gold Tapers by EFTEM and EELS. Microscopy and Microanalysis, 2015, 21, 2221-2222.	0.2	3
49	Mapping optical Bloch modes of a plasmonic square lattice in real and reciprocal spaces using cathodoluminescence spectroscopy. Optics Express, 2021, 29, 34328-34340.	1.7	3
50	Topological Hyperbolic and Dirac Plasmons. International Journal of Behavioral and Consultation Therapy, 2019, , 169-190.	0.4	2
51	Probing plasmonic excitation mechanisms and far-field radiation of single-crystalline gold tapers with electrons. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190599.	1.6	2
52	Toroidal Moments Probed by Electron Beams. Journal of Physics: Conference Series, 2020, 1461, 012174.	0.3	1
53	Characterization Techniques for Nanooptical Excitations. Springer Series in Optical Sciences, 2019, , 19-29.	0.5	1
54	Electron-Light Interactions Beyond Adiabatic Approximation. Springer Series in Optical Sciences, 2019, , 195-243.	0.5	1

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55	Photonâ€“Induced and Photonâ€”Assisted Domains. Springer Series in Optical Sciences, 2019, , 153-194.	0.5	1
56	Analysis of the Propagation of Light Along an Array of Nanorods Using the Generalized Multipole Techniques (J. Comput. Theor. Nanosci. Vol.5, pp.711â€“716 (2008)). Journal of Computational and Theoretical Nanoscience, 2008, 5, 1463-1463.	0.4	0
57	Electron impact investigation of hybridization scheme in coupled split-ring resonators. , 2014, , .		0
58	Plasmons of Hexamer and Pentamer Nanocavities Probed with Swift Electrons. Microscopy and Microanalysis, 2014, 20, 580-581.	0.2	0
59	Unconventional Surface Plasmon Excitations in Bi2Se3. Microscopy and Microanalysis, 2015, 21, 2057-2058.	0.2	0
60	Plasmons in Mesoscopic Gold Tapers. Microscopy and Microanalysis, 2016, 22, 294-295.	0.2	0
61	Interaction between Relativistic Electrons and Mesoscopic Plasmonic Tapers. Microscopy and Microanalysis, 2017, 23, 1534-1535.	0.2	0
62	Ultrafast optics with slow electrons. EPJ Web of Conferences, 2019, 205, 08017.	0.1	0
63	Quantum Coherent Control of Slow Electron Wave Packets with Light. , 2019, , .		0
64	Strong Exciton-Photon Interactions in the van der Waals Materials Probed by Electron Beams. , 2021, , .		0
65	Quantum optics with swift electrons. Light: Science and Applications, 2021, 10, 90.	7.7	0
66	Electron-Light Interactions. Springer Series in Optical Sciences, 2019, , 31-57.	0.5	0
67	Toroidal Moments Probed by Electron Beams. Springer Series in Optical Sciences, 2019, , 81-118.	0.5	0
68	Optical Modes of Gold Tapers Probed by Electron Beams. Springer Series in Optical Sciences, 2019, , 119-151.	0.5	0
69	Electronâ€“Induced Domain. Springer Series in Optical Sciences, 2019, , 59-79.	0.5	0
70	A fast push to photon pairs. Nature Physics, 2022, 18, 11-12.	6.5	0