Afshin Moradi

List of Publications by Year in Descending Order

115 papers	767 citations	15 h-index	19 g-index
122 ext. papers	831 ext. citations	2 avg, IF	5.73 L-index

#	Paper	IF	Citations
115	Group velocity of bulk magnetoplasmons in electric-gyrotropic thin films: Faraday configuration. *Results in Physics*, **2021**, 31, 104973	3.7	
114	Longitudinal quasi-electrostatic waves in hyperbolic metasurfaces. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2021**, 391, 127103	2.3	2
113	Dispersive electrostatic waves on a cold magnetized electron gas half-space. *Physics of Plasmas*, **2021**, 28, 054501	2.1	3
112	Distribution of electromagnetic energy density in a dispersive and dissipative metamaterial. *Journal of Modern Optics*, **2021**, 68, 634-640	1.1	2
111	Electrostatic waves in photonic hypercrystals. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2021**, 387, 127008	2.3	7
110	Strongly direction-dependent magnetoplasmons in mixed Faraday-Voigt configurations. *Scientific Reports*, **2021**, 11, 18373	4.9	4
109	Electrostatic theory of rectangular waveguides filled with anisotropic media.. *Scientific Reports*, **2021**, 11, 24522	4.9	1
108	Canonical Problems in the Theory of Plasmonics. *Springer Series in Optical Sciences*, **2020**,	0.5	18
107	Electrostatic wave propagation in an array of metallic wires. *Physics of Plasmas*, **2020**, 27, 064502	2.1	3
106	Surface and bulk plasmons in cylindrical electric-gyrotropic wires. *Journal of the Optical Society of America B: Optical Physics*, **2020**, 37, 2947	1.7	3
105	Electrostatic Dyakonov-like surface waves supported by metallic nanowire-based hyperbolic metamaterials. *Journal of the Optical Society of America B: Optical Physics*, **2020**, 37, 2976	1.7	8
104	Basic Concepts and Formalism. *Springer Series in Optical Sciences*, **2020**, 3-29	0.5	
103	Electromagnetic Problems Involving Two-Dimensional Electron Gases in Planar Geometry. *Springer Series in Optical Sciences*, **2020**, 239-270	0.5	0
102	Problems in Electromagnetic Theory: Spatial Nonlocal Effects. *Springer Series in Optical Sciences*, **2020**, 181-205	0.5	
101	Electromagnetic Problems Involving Two-Dimensional Electron Gases in Cylindrical Geometry. *Springer Series in Optical Sciences*, **2020**, 303-323	0.5	
100	Boundary-Value Problems Involving Two-Dimensional Electron Gases in Spherical Geometry. *Springer Series in Optical Sciences*, **2020**, 325-346	0.5	
99	Problems in Electrostatic Approximation. *Springer Series in Optical Sciences*, **2020**, 31-93	0.5	

98	Problems in Electromagnetic Theory. *Springer Series in Optical Sciences*, **2020**, 95-149	0.5	
97	Electrostatic Problems Involving Two-Dimensional Electron Gases in Cylindrical Geometry. *Springer Series in Optical Sciences*, **2020**, 271-301	0.5	
96	Electrostatic Problems Involving Two-Dimensional Electron Gases in Planar Geometry. *Springer Series in Optical Sciences*, **2020**, 209-238	0.5	
95	Problems in Electrostatic Approximation: Spatial Nonlocal Effects. *Springer Series in Optical Sciences* , **2020**, 151-180	0.5	
94	Reflection of Electrostatic Waves on Plane Interface Between Magnetized Plasma and Insulator. *IEEE Transactions on Plasma Science*, **2020**, 48, 2687-2690	1.3	3
93	Optical properties of two-walled carbon nanotubes: quasi-static approximation. *European Physical Journal Plus*, **2020**, 135, 1	3.1	3
92	Electrostatic Wave Propagation in 1-D Magnetized Plasma Periodic Structures. *IEEE Transactions on Plasma Science*, **2020**, 48, 3776-3780	1.3	1
91	Energy relations of plasma waves in planar two-dimensional electron-ion plasmas. *Contributions To Plasma Physics*, **2020**, 60, e202000031	1.4	1
90	Propagation of electrostatic energy through a quantum plasma. *Contributions To Plasma Physics*, **2019**, 59, 173-180	1.4	7
89	Plasmonic waves of graphene on a conducting substrate. *Journal of Modern Optics*, **2019**, 66, 353-357	1.1	5
88	Energy density and energy flow of surface waves in a strongly magnetized graphene. *Journal of Applied Physics*, **2018**, 123, 043103	2.5	9
87	Electromagnetic energy within an isolated C60 molecule. *Optik*, **2018**, 164, 100-104	2.5	
86	Energy behaviour of extraordinary waves in magnetized quantum plasmas. *Physics of Plasmas*, **2018** , 25, 052123	2.1	5
85	Energy density and energy flow of magnetoplasmonic waves on graphene. *Solid State Communications*, **2017**, 253, 63-66	1.6	13
84	Energy density and energy flow of plasmonic waves in bilayer graphene. *Optics Communications*, **2017**, 394, 135-138	2	9
83	Electrostatic Surface Waves on Semi-Bounded Quantum Electron-Hole Semiconductor Plasmas. *Communications in Theoretical Physics*, **2017**, 67, 317	2.4	7
82	Damping properties of plasmonic waves on graphene. *Physics of Plasmas*, **2017**, 24, 072114	2.1	8
81	Bohm potential and inequality of group and energy transport velocities of plasmonic waves on metal-insulator waveguides. *Physics of Plasmas*, **2017**, 24, 072104	2.1	5

80	Comment on "Effects of electron exchange-correlation potential on electrostatic oscillations in single-walled carbon nanotubes" [J. Appl. Phys. 115, 204304 (2014)]. *Journal of Applied Physics*, **2017**, 121, 176101	2.5	2
79	Theory of Goos-Hänchen shift in graphene: Energy-flux method. *Europhysics Letters*, **2017**, 120, 67002	1.6	4
78	Theory of energy and power flow of plasmonic waves on single-walled carbon nanotubes. *Journal of Applied Physics*, **2017**, 122, 133103	2.5	10
77	High-Frequency Waves in a Random Distribution of Metallic Nanoparticles in an External Magnetic Field. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2016**, 71, 849-854	1.4	1
76	Comment on "Propagation of a TE surface mode in a relativistic electron beam-quantum plasma system" [Phys. Lett. A 376 (2012) 169]. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2016**, 380, 2580-2581	2.3	3
75	Quantum nonlocal polarizability of spherical metal nanoparticles. *International Journal of Modern Physics B*, **2016**, 30, 1650048	1.1	3
74	Comment on "Surface electromagnetic wave equations in a warm magnetized quantum plasma" [Phys. Plasmas 21, 072114 (2014)]. *Physics of Plasmas*, **2016**, 23, 074701	2.1	3
73	Low-frequency surface waves on semi-bounded magnetized quantum plasma. *Physics of Plasmas*, **2016**, 23, 084501	2.1	3
72	Surface and bulk plasmons of electron-hole plasma in semiconductor nanowires. *Physics of Plasmas*, **2016**, 23, 114503	2.1	5
71	Comment on "Propagation of surface waves on a semi-bounded quantum magnetized collisional plasma" [Phys. Plasmas 20, 122106 (2013)]. *Physics of Plasmas*, **2016**, 23, 044701	2.1	2
70	Effective medium theory for a system of C60 molecules. *Physics of Plasmas*, **2016**, 23, 062120	2.1	3
69	Electrostatic surface waves on a magnetized quantum plasma half-space. *Physics of Plasmas*, **2016**, 23, 034501	2.1	5
68	Collective excitations of spherical semiconductor nanoparticles. *Physica Scripta*, **2016**, 91, 105802	2.6	4
67	Surface polaritons of a metal-insulator-metal curved slab. *Superlattices and Microstructures*, **2016**, 97, 335-340	2.8	2
66	Surface plasmon oscillations on a quantum plasma half-space. *Physics of Plasmas*, **2015**, 22, 014501	2.1	25
65	Maxwell-Garnett effective medium theory: Quantum nonlocal effects. *Physics of Plasmas*, **2015**, 22, 042105	2.1	11
64	Quantum ion-acoustic wave oscillations on a quantum plasma half-space. *Physica Scripta*, **2015**, 90, 085601	2.6	8
63	Plasmon modes of metallic nanowires including quantum nonlocal effects. *Physics of Plasmas*, **2015**, 22, 032112	2.1	15

62	Quantum ion-acoustic wave oscillations in metallic nanowires. *Physics of Plasmas*, **2015**, 22, 054502	2.1	3
61	Infrared absorption spectra of a spatially dispersive polar semiconductor nanowire. *Solid State Communications*, **2015**, 212, 10-13	1.6	2
60	Quantum Nonlocal Polarizability of Metallic Nanowires. *Plasmonics*, **2015**, 10, 1225-1230	2.4	5
59	Plasmon modes of spherical nanoparticles: The effects of quantum nonlocality. *Surface Science*, **2015**, 637-638, 53-57	1.8	8
58	Optical properties of random metal-dielectric nanocomposite films: nanoparticle size effects. *Physica Scripta*, **2015**, 90, 095803	2.6	4
57	Comment on: A theoretical model to explain the mechanism of light wave propagation through non-metallic nanowires [Opt. Commun. 283 (2010) 4085]. *Optics Communications*, **2015**, 357, 193-194	2	2
56	Effective permittivity of single-walled carbon nanotube composites: Two-fluid model. *Physics of Plasmas*, **2015**, 22, 122104	2.1	3
55	Extinction properties of metallic nanowires: Quantum diffraction and retardation effects. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2015**, 379, 2379-2383	2.3	7
54	Spatial nonlocality in the infrared absorption spectra of polar semiconductor nanospheres. *Semiconductor Science and Technology*, **2015**, 30, 115003	1.8	2
53	Dispersion Properties of High- and Low-Frequency Electrostatic Oscillations of Plasma Spheres: Application to the Metallic Nanoparticles. *Communications in Theoretical Physics*, **2015**, 64, 571-575	2.4	3
52	Plasmon Hybridization in a Symmetry-Broken Metallic Nanotube Above a Substrate. *Plasmonics*, **2015**, 10, 999-1003	2.4	
51	Quantum nonlocal effects on optical properties of spherical nanoparticles. *Physics of Plasmas*, **2015**, 22, 022119	2.1	15
50	Quantum effects on propagation of bulk and surface waves in a thin quantum plasma film. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2015**, 379, 1139-1143	2.3	15
49	Plasmonic waves of random metal-dielectric nanocomposite films. *Photonics and Nanostructures - Fundamentals and Applications*, **2015**, 15, 41-45	2.6	5
48	Plasmonic modes and extinction properties of a random nanocomposite cylinder. *Physics of Plasmas*, **2014**, 21, 042112	2.1	5
47	Plasmon Spectra of Cylindrical Nanostructures Including Nonlocal Effects. *Plasmonics*, **2014**, 9, 209-218	2.4	13
46	Multipole plasmon excitations of C60 dimers. *Journal of Chemical Physics*, **2014**, 141, 024111	3.9	7
45	Extinction properties of an isolated C60 molecule. *Solid State Communications*, **2014**, 192, 24-26	1.6	13

44	Electromagnetic wave propagation in a random distribution of C60 molecules. *Physics of Plasmas*, **2014**, 21, 104508	2.1	4
43	Surface plasmon modes of a nanoegg above a substrate. *Journal of Chemical Physics*, **2014**, 141, 124121	3.9	5
42	Extinction properties of single-walled carbon nanotubes: Two-fluid model. *Physics of Plasmas*, **2014**, 21, 032106	2.1	10
41	Fast electron beam-plasma interaction in single-walled carbon nanotubes. *Applied Physics B: Lasers and Optics*, **2013**, 111, 127-130	1.9	9
40	Coupled Surface Plasmon-Polariton Modes of Metallic Single-Walled Carbon Nanotubes. *Plasmonics* , **2013**, 8, 1509-1513	2.4	7
39	Light conduction of metallic two-walled carbon nanotubes. *Applied Physics A: Materials Science and Processing*, **2013**, 113, 97-100	2.6	6
38	Scattering by an array of parallel metallic carbon nanotubes. *Chinese Physics B*, **2013**, 22, 064201	1.2	3
37	Plasmonic waves of a semi-infinite random nanocomposite. *Physics of Plasmas*, **2013**, 20, 104507	2.1	6
36	Surface plasmon-polariton modes of metallic single-walled carbon nanotubes. *Photonics and Nanostructures - Fundamentals and Applications*, **2013**, 11, 85-88	2.6	15
35	A Theoretical Model to Explain the Mechanism of Electromagnetic Wave Propagation Along Cylindrical Micelles. *Communications in Theoretical Physics*, **2013**, 60, 136-138	2.4	1
34	Plasmon-optical phonon hybridization in polar semiconductor nano-wires. *Semiconductor Science and Technology*, **2013**, 28, 125005	1.8	5
33	Optical scattering by a spherical two-dimensional electron gas: Application to the C60 molecule. *Optik*, **2012**, 123, 325-328	2.5	6
32	Transverse magnetic wave propagation along flat biological membranes. *Optik*, **2012**, 123, 1343-1345	2.5	
31	Guided waves characteristics of multi-walled carbon nanotubes. *Optics Communications*, **2012**, 285, 1163–1166		1
30	Geometrical tunability of plasmon excitations of double concentric metallic nanotubes. *Physics of Plasmas*, **2012**, 19, 062102	2.1	5
29	Plasmon hybridization in coated metallic nanowires. *Journal of the Optical Society of America B: Optical Physics*, **2012**, 29, 625	1.7	23
28	Line-source scattering properties of metallic carbon nanotubes. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2011**, 28, 1920	1.8	1
27	Electrostatic oscillations along cylindrical micelles. *Journal of Membrane Biology*, **2011**, 242, 105-7	2.3	2

26	Scattering cross section of metallic two-walled carbon nanotubes. *Optics Communications*, **2011**, 284, 2629-2632	2	5
25	Microwave shielding of HiPco carbon nanotube films. *Journal of Plasma Physics*, **2011**, 77, 639-651	2.7	1
24	Ionic electrostatic excitations along biological membranes. *Physics of Plasmas*, **2011**, 18, 022112	2.1	4
23	Plasmon hybridization in parallel nano-wire systems. *Physics of Plasmas*, **2011**, 18, 064508	2.1	10
22	Scattering properties of metallic carbon nanotubes in the presence of dielectric media. *Journal of Modern Optics*, **2011**, 58, 1566-1571	1.1	3
21	Theory of Carbon Nanotubes as Optical Nano Waveguides. *Journal of Electromagnetic Analysis and Applications*, **2010**, 02, 672-676	0.3	8
20	Investigation of high- and low-frequency electrostatic oscillations in multishell fullerenes. *Physica Scripta*, **2010**, 81, 055701	2.6	3
19	Oblique incidence scattering from single-walled carbon nanotubes. *Physics of Plasmas*, **2010**, 17, 033504	2.1	13
18	Microwave response of magnetized hydrogen plasma in carbon nanotubes: multiple reflection effects. *Applied Optics*, **2010**, 49, 1728-33	0.2	10
17	Dispersion properties of electrostatic sound wave modes in carbon nanotubes. *Physics of Plasmas*, **2010**, 17, 014504	2.1	8
16	Guided dispersion characteristics of metallic single-walled carbon nanotubes in the presence of dielectric media. *Optics Communications*, **2010**, 283, 160-163	2	18
15	Plasmon hybridization in tubular metallic nanostructures. *Physica B: Condensed Matter*, **2010**, 405, 2466-2469	2.8	14
14	Microwave absorption of magnetized hydrogen plasma in carbon nanotubes. *Physics of Plasmas*, **2009**, 16, 113501	2.1	6
13	Comment on The single-wall carbon nanotube waveguides and excitation of their plasmons by an electron beam [Phys. Plasmas 16, 022108 (2009)]. *Physics of Plasmas*, **2009**, 16, 054705	2.1	6
12	Comment on Study of geometrical effects on the characteristics of metallic double-walled carbon nanotube waveguides through quantum hydrodynamics [Phys. Plasmas 16, 063501 (2009)]. *Physics of Plasmas*, **2009**, 16, 084703	2.1	
11	Magnetostatic modes hybridization in left-handed cylindrical shells. *Physica Scripta*, **2009**, 79, 045801	2.6	1
10	Plasmon hybridization in metallic nanotubes with a nonconcentric core. *Optics Communications*, **2009**, 282, 3368-3370	2	21
9	Quantum ion-acoustic wave oscillations in molecule. *Physica E: Low-Dimensional Systems and Nanostructures*, **2009**, 41, 1338-1339	3	17

8	Dust ion-acoustic wave oscillations in single-walled carbon nanotubes. *Physica E: Low-Dimensional Systems and Nanostructures*, **2009**, 42, 43-45	3	7
7	Electron-ion quantum plasma excitations in single-walled carbon nanotubes. *Journal of Physics Condensed Matter*, **2009**, 21, 045303	1.8	21
6	Electronhole plasma excitations in single-walled carbon nanotubes. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2008**, 372, 5614-5616	2.3	16
5	Plasmon hybridization in metallic nanotubes. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 2936-2938	3.9	39
4	Collective excitations in single-walled carbon nanotubes. *Physical Review B*, **2007**, 76,	3.3	29
3	Comment on: Electromagnetic wave propagation in single-wall carbon nanotubes[Phys. Lett. A 333 (2004) 303]. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2007**, 364, 515-516	2.3	18
2	Plasmon dispersion in metallic carbon nanotubes in the presence of low-frequency electromagnetic radiation. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2007**, 371, 1-6	2.3	25
1	Electrostatic bulk waves propagation in a slab delay line of metallic nanowire-based hyperbolic metamaterials. *Waves in Random and Complex Media*,1-13	1.9	1