

Afshin Moradi

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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	Plasmon hybridization in metallic nanotubes. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 2936-2938	3.3	39
114	Collective excitations in single-walled carbon nanotubes. <i>Physical Review B</i> , 2007 , 76,	3.3	29
113	Surface plasmon oscillations on a quantum plasma half-space. <i>Physics of Plasmas</i> , 2015 , 22, 014501	2.1	25
112	Plasmon dispersion in metallic carbon nanotubes in the presence of low-frequency electromagnetic radiation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 371, 1-6	2.3	25
111	Plasmon hybridization in coated metallic nanowires. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 625	1.7	23
110	Plasmon hybridization in metallic nanotubes with a nonconcentric core. <i>Optics Communications</i> , 2009 , 282, 3368-3370	2	21
109	Electron-ion quantum plasma excitations in single-walled carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 045303	1.8	21
108	Canonical Problems in the Theory of Plasmonics. <i>Springer Series in Optical Sciences</i> , 2020 ,	0.5	18
107	Guided dispersion characteristics of metallic single-walled carbon nanotubes in the presence of dielectric media. <i>Optics Communications</i> , 2010 , 283, 160-163	2	18
106	Comment on: Electromagnetic wave propagation in single-wall carbon nanotubes[[Phys. Lett. A 333 (2004) 303]. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 364, 515-516	2.3	18
105	Quantum ion-acoustic wave oscillations in molecule. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 1338-1339	3	17
104	Electron-hole plasma excitations in single-walled carbon nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 5614-5616	2.3	16
103	Plasmon modes of metallic nanowires including quantum nonlocal effects. <i>Physics of Plasmas</i> , 2015 , 22, 032112	2.1	15
102	Surface plasmon polariton modes of metallic single-walled carbon nanotubes. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2013 , 11, 85-88	2.6	15
101	Quantum nonlocal effects on optical properties of spherical nanoparticles. <i>Physics of Plasmas</i> , 2015 , 22, 022119	2.1	15
100	Quantum effects on propagation of bulk and surface waves in a thin quantum plasma film. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 1139-1143	2.3	15
99	Plasmon hybridization in tubular metallic nanostructures. <i>Physica B: Condensed Matter</i> , 2010 , 405, 2466-2469	2.6	14

98	Energy density and energy flow of magnetoplasmonic waves on graphene. <i>Solid State Communications</i> , 2017 , 253, 63-66	1.6	13
97	Plasmon Spectra of Cylindrical Nanostructures Including Nonlocal Effects. <i>Plasmonics</i> , 2014 , 9, 209-218	2.4	13
96	Extinction properties of an isolated C60 molecule. <i>Solid State Communications</i> , 2014 , 192, 24-26	1.6	13
95	Oblique incidence scattering from single-walled carbon nanotubes. <i>Physics of Plasmas</i> , 2010 , 17, 033504	2.1	13
94	Maxwell-Garnett effective medium theory: Quantum nonlocal effects. <i>Physics of Plasmas</i> , 2015 , 22, 042105	2.5	11
93	Extinction properties of single-walled carbon nanotubes: Two-fluid model. <i>Physics of Plasmas</i> , 2014 , 21, 032106	2.1	10
92	Microwave response of magnetized hydrogen plasma in carbon nanotubes: multiple reflection effects. <i>Applied Optics</i> , 2010 , 49, 1728-33	0.2	10
91	Plasmon hybridization in parallel nano-wire systems. <i>Physics of Plasmas</i> , 2011 , 18, 064508	2.1	10
90	Theory of energy and power flow of plasmonic waves on single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2017 , 122, 133103	2.5	10
89	Energy density and energy flow of plasmonic waves in bilayer graphene. <i>Optics Communications</i> , 2017 , 394, 135-138	2	9
88	Energy density and energy flow of surface waves in a strongly magnetized graphene. <i>Journal of Applied Physics</i> , 2018 , 123, 043103	2.5	9
87	Fast electron beam-plasma interaction in single-walled carbon nanotubes. <i>Applied Physics B: Lasers and Optics</i> , 2013 , 111, 127-130	1.9	9
86	Quantum ion-acoustic wave oscillations on a quantum plasma half-space. <i>Physica Scripta</i> , 2015 , 90, 085601	2.6	8
85	Plasmon modes of spherical nanoparticles: The effects of quantum nonlocality. <i>Surface Science</i> , 2015 , 637-638, 53-57	1.8	8
84	Damping properties of plasmonic waves on graphene. <i>Physics of Plasmas</i> , 2017 , 24, 072114	2.1	8
83	Theory of Carbon Nanotubes as Optical Nano Waveguides. <i>Journal of Electromagnetic Analysis and Applications</i> , 2010 , 02, 672-676	0.3	8
82	Dispersion properties of electrostatic sound wave modes in carbon nanotubes. <i>Physics of Plasmas</i> , 2010 , 17, 014504	2.1	8
81	Electrostatic Dyakonov-like surface waves supported by metallic nanowire-based hyperbolic metamaterials. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 2976	1.7	8

80	Electrostatic Surface Waves on Semi-Bounded Quantum Electron-Hole Semiconductor Plasmas. <i>Communications in Theoretical Physics</i> , 2017 , 67, 317	2.4	7
79	Propagation of electrostatic energy through a quantum plasma. <i>Contributions To Plasma Physics</i> , 2019 , 59, 173-180	1.4	7
78	Multipole plasmon excitations of C60 dimers. <i>Journal of Chemical Physics</i> , 2014 , 141, 024111	3.9	7
77	Coupled Surface Plasmon-Polariton Modes of Metallic Single-Walled Carbon Nanotubes. <i>Plasmonics</i> , 2013 , 8, 1509-1513	2.4	7
76	Extinction properties of metallic nanowires: Quantum diffraction and retardation effects. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 2379-2383	2.3	7
75	Dust ion-acoustic wave oscillations in single-walled carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 42, 43-45	3	7
74	Electrostatic waves in photonic hypercrystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 387, 127008	2.3	7
73	Optical scattering by a spherical two-dimensional electron gas: Application to the C60 molecule. <i>Optik</i> , 2012 , 123, 325-328	2.5	6
72	Light conduction of metallic two-walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 113, 97-100	2.6	6
71	Plasmonic waves of a semi-infinite random nanocomposite. <i>Physics of Plasmas</i> , 2013 , 20, 104507	2.1	6
70	Microwave absorption of magnetized hydrogen plasma in carbon nanotubes. <i>Physics of Plasmas</i> , 2009 , 16, 113501	2.1	6
69	Comment on "The single-wall carbon nanotube waveguides and excitation of their plasmons by an electron beam" [Phys. Plasmas 16, 022108 (2009)]. <i>Physics of Plasmas</i> , 2009 , 16, 054705	2.1	6
68	Quantum Nonlocal Polarizability of Metallic Nanowires. <i>Plasmonics</i> , 2015 , 10, 1225-1230	2.4	5
67	Plasmonic modes and extinction properties of a random nanocomposite cylinder. <i>Physics of Plasmas</i> , 2014 , 21, 042112	2.1	5
66	Bohm potential and inequality of group and energy transport velocities of plasmonic waves on metal-insulator waveguides. <i>Physics of Plasmas</i> , 2017 , 24, 072104	2.1	5
65	Plasmonic waves of random metal-dielectric nanocomposite films. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2015 , 15, 41-45	2.6	5
64	Surface plasmon modes of a nanoegg above a substrate. <i>Journal of Chemical Physics</i> , 2014 , 141, 124121	3.9	5
63	Geometrical tunability of plasmon excitations of double concentric metallic nanotubes. <i>Physics of Plasmas</i> , 2012 , 19, 062102	2.1	5

62	Plasmon-optical phonon hybridization in polar semiconductor nano-wires. <i>Semiconductor Science and Technology</i> , 2013 , 28, 125005	1.8	5
61	Scattering cross section of metallic two-walled carbon nanotubes. <i>Optics Communications</i> , 2011 , 284, 2629-2632	2	5
60	Surface and bulk plasmons of electron-hole plasma in semiconductor nanowires. <i>Physics of Plasmas</i> , 2016 , 23, 114503	2.1	5
59	Electrostatic surface waves on a magnetized quantum plasma half-space. <i>Physics of Plasmas</i> , 2016 , 23, 034501	2.1	5
58	Plasmonic waves of graphene on a conducting substrate. <i>Journal of Modern Optics</i> , 2019 , 66, 353-357	1.1	5
57	Energy behaviour of extraordinary waves in magnetized quantum plasmas. <i>Physics of Plasmas</i> , 2018 , 25, 052123	2.1	5
56	Optical properties of random metal-dielectric nanocomposite films: nanoparticle size effects. <i>Physica Scripta</i> , 2015 , 90, 095803	2.6	4
55	Theory of Goos-Hänchen shift in graphene: Energy-flux method. <i>Europhysics Letters</i> , 2017 , 120, 67002	1.6	4
54	Electromagnetic wave propagation in a random distribution of C60 molecules. <i>Physics of Plasmas</i> , 2014 , 21, 104508	2.1	4
53	Ionic electrostatic excitations along biological membranes. <i>Physics of Plasmas</i> , 2011 , 18, 022112	2.1	4
52	Collective excitations of spherical semiconductor nanoparticles. <i>Physica Scripta</i> , 2016 , 91, 105802	2.6	4
51	Strongly direction-dependent magnetoplasmons in mixed Faraday-Voigt configurations. <i>Scientific Reports</i> , 2021 , 11, 18373	4.9	4
50	Quantum ion-acoustic wave oscillations in metallic nanowires. <i>Physics of Plasmas</i> , 2015 , 22, 054502	2.1	3
49	Electrostatic wave propagation in an array of metallic wires. <i>Physics of Plasmas</i> , 2020 , 27, 064502	2.1	3
48	Comment on Propagation of a TE surface mode in a relativistic electron beam-quantum plasma system [Phys. Lett. A 376 (2012) 169]. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 2580-2581	2.3	3
47	Quantum nonlocal polarizability of spherical metal nanoparticles. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1650048	1.1	3
46	Scattering by an array of parallel metallic carbon nanotubes. <i>Chinese Physics B</i> , 2013 , 22, 064201	1.2	3
45	Effective permittivity of single-walled carbon nanotube composites: Two-fluid model. <i>Physics of Plasmas</i> , 2015 , 22, 122104	2.1	3

44	Dispersion Properties of High- and Low-Frequency Electrostatic Oscillations of Plasma Spheres: Application to the Metallic Nanoparticles. <i>Communications in Theoretical Physics</i> , 2015 , 64, 571-575	2.4	3
43	Investigation of high- and low-frequency electrostatic oscillations in multishell fullerenes. <i>Physica Scripta</i> , 2010 , 81, 055701	2.6	3
42	Scattering properties of metallic carbon nanotubes in the presence of dielectric media. <i>Journal of Modern Optics</i> , 2011 , 58, 1566-1571	1.1	3
41	Surface and bulk plasmons in cylindrical electric-gyrotropic wires. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 2947	1.7	3
40	Reflection of Electrostatic Waves on Plane Interface Between Magnetized Plasma and Insulator. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 2687-2690	1.3	3
39	Optical properties of two-walled carbon nanotubes: quasi-static approximation. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	3
38	Dispersive electrostatic waves on a cold magnetized electron gas half-space. <i>Physics of Plasmas</i> , 2021 , 28, 054501	2.1	3
37	Comment on Surface electromagnetic wave equations in a warm magnetized quantum plasma [Phys. Plasmas 21, 072114 (2014)]. <i>Physics of Plasmas</i> , 2016 , 23, 074701	2.1	3
36	Low-frequency surface waves on semi-bounded magnetized quantum plasma. <i>Physics of Plasmas</i> , 2016 , 23, 084501	2.1	3
35	Effective medium theory for a system of C60 molecules. <i>Physics of Plasmas</i> , 2016 , 23, 062120	2.1	3
34	Infrared absorption spectra of a spatially dispersive polar semiconductor nanowire. <i>Solid State Communications</i> , 2015 , 212, 10-13	1.6	2
33	Comment on: A theoretical model to explain the mechanism of light wave propagation through non-metallic nanowires [Opt. Commun. 283 (2010) 4085]. <i>Optics Communications</i> , 2015 , 357, 193-194	2	2
32	Comment on Effects of electron exchange-correlation potential on electrostatic oscillations in single-walled carbon nanotubes [J. Appl. Phys. 115, 204304 (2014)]. <i>Journal of Applied Physics</i> , 2017 , 121, 176101	2.5	2
31	Spatial nonlocality in the infrared absorption spectra of polar semiconductor nanospheres. <i>Semiconductor Science and Technology</i> , 2015 , 30, 115003	1.8	2
30	Electrostatic oscillations along cylindrical micelles. <i>Journal of Membrane Biology</i> , 2011 , 242, 105-7	2.3	2
29	Longitudinal quasi-electrostatic waves in hyperbolic metasurfaces. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 391, 127103	2.3	2
28	Distribution of electromagnetic energy density in a dispersive and dissipative metamaterial. <i>Journal of Modern Optics</i> , 2021 , 68, 634-640	1.1	2
27	Comment on Propagation of surface waves on a semi-bounded quantum magnetized collisional plasma [Phys. Plasmas 20, 122106 (2013)]. <i>Physics of Plasmas</i> , 2016 , 23, 044701	2.1	2

26	Surface polaritons of a metal-insulator-metal curved slab. <i>Superlattices and Microstructures</i> , 2016 , 97, 335-340	2.8	2
25	High-Frequency Waves in a Random Distribution of Metallic Nanoparticles in an External Magnetic Field. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2016 , 71, 849-854	1.4	1
24	Guided waves characteristics of multi-walled carbon nanotubes. <i>Optics Communications</i> , 2012 , 285, 1163-1166	1	1
23	A Theoretical Model to Explain the Mechanism of Electromagnetic Wave Propagation Along Cylindrical Micelles. <i>Communications in Theoretical Physics</i> , 2013 , 60, 136-138	2.4	1
22	Line-source scattering properties of metallic carbon nanotubes. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011 , 28, 1920	1.8	1
21	Magnetostatic modes hybridization in left-handed cylindrical shells. <i>Physica Scripta</i> , 2009 , 79, 045801	2.6	1
20	Microwave shielding of HiPco carbon nanotube films. <i>Journal of Plasma Physics</i> , 2011 , 77, 639-651	2.7	1
19	Electrostatic Wave Propagation in 1-D Magnetized Plasma Periodic Structures. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 3776-3780	1.3	1
18	Energy relations of plasma waves in planar two-dimensional electron-ion plasmas. <i>Contributions To Plasma Physics</i> , 2020 , 60, e202000031	1.4	1
17	Electrostatic theory of rectangular waveguides filled with anisotropic media.. <i>Scientific Reports</i> , 2021 , 11, 24522	4.9	1
16	Electrostatic bulk waves propagation in a slab delay line of metallic nanowire-based hyperbolic metamaterials. <i>Waves in Random and Complex Media</i> , 1-13	1.9	1
15	Electromagnetic Problems Involving Two-Dimensional Electron Gases in Planar Geometry. <i>Springer Series in Optical Sciences</i> , 2020 , 239-270	0.5	0
14	Electromagnetic energy within an isolated C60 molecule. <i>Optik</i> , 2018 , 164, 100-104	2.5	
13	Transverse magnetic wave propagation along flat biological membranes. <i>Optik</i> , 2012 , 123, 1343-1345	2.5	
12	Plasmon Hybridization in a Symmetry-Broken Metallic Nanotube Above a Substrate. <i>Plasmonics</i> , 2015 , 10, 999-1003	2.4	
11	Comment on Study of geometrical effects on the characteristics of metallic double-walled carbon nanotube waveguides through quantum hydrodynamics[Phys. Plasmas 16, 063501 (2009)]. <i>Physics of Plasmas</i> , 2009 , 16, 084703	2.1	
10	Basic Concepts and Formalism. <i>Springer Series in Optical Sciences</i> , 2020 , 3-29	0.5	
9	Problems in Electromagnetic Theory: Spatial Nonlocal Effects. <i>Springer Series in Optical Sciences</i> , 2020 , 181-205	0.5	

8	Electromagnetic Problems Involving Two-Dimensional Electron Gases in Cylindrical Geometry. <i>Springer Series in Optical Sciences</i> , 2020 , 303-323	0.5
7	Boundary-Value Problems Involving Two-Dimensional Electron Gases in Spherical Geometry. <i>Springer Series in Optical Sciences</i> , 2020 , 325-346	0.5
6	Problems in Electrostatic Approximation. <i>Springer Series in Optical Sciences</i> , 2020 , 31-93	0.5
5	Group velocity of bulk magnetoplasmons in electric-gyrotropic thin films: Faraday configuration. <i>Results in Physics</i> , 2021 , 31, 104973	3.7
4	Problems in Electromagnetic Theory. <i>Springer Series in Optical Sciences</i> , 2020 , 95-149	0.5
3	Electrostatic Problems Involving Two-Dimensional Electron Gases in Cylindrical Geometry. <i>Springer Series in Optical Sciences</i> , 2020 , 271-301	0.5
2	Electrostatic Problems Involving Two-Dimensional Electron Gases in Planar Geometry. <i>Springer Series in Optical Sciences</i> , 2020 , 209-238	0.5
1	Problems in Electrostatic Approximation: Spatial Nonlocal Effects. <i>Springer Series in Optical Sciences</i> , 2020 , 151-180	0.5