Felipe A Pinheiro

List of Publications by Year
in descending order

81	1,187	361045	454577
papers	citations	20 h-index	30 g-index

82	82	82	861
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Entangled two-plasmon generation in carbon nanotubes and graphene-coated wires. Physical Review B, 2022, 105, .	1.1	0
2	Cavity-enhanced lightâ€“matter interaction in Vogel-spiral devices as a platform for quantum photonics. Applied Physics Letters, 2021, 118, .	1.5	12
3	Enantioselection and chiral sorting of single microspheres using optical pulling forces. Optics Letters, 2021, 46, 1640.	1.7	16
4	Harnessing the photonic local density of states in graphene moirÃ© superlattices. Physical Review B, 2021, 103, .	1.1	1
5	Optical Forces on an Oscillating Dipole Near VO2 Phase Transition. Universe, 2021, 7, 159.	0.9	1
6	Gain-assisted optical tweezing of plasmonic and large refractive index microspheres. Journal of Optics (United Kingdom), 2021, 23, 115004.	1.0	4
7	Probing topological phase transitions via quantum reflection in the graphene family materials. Physical Review B, 2021, 104, .	1.1	7
8	Spontaneous emission in inertial and dissipative nematic liquid crystals: the role of critical phenomena. Journal of Physics Condensed Matter, 2021, 34, .	0.7	0
9	Structural entropy and spatial decay of quasimodes in Vogel spirals. Physical Review B, 2021, 104, .	1.1	4
10	Time scaling and quantum speed limit in non-Hermitian Hamiltonians. Physical Review A, 2021, 104, .	1.0	7
11	Enantioselective optical forces of gain functionalized core-shell chiral nanoparticles. , 2021, , .		0
12	Tailoring optical pulling forces with composite microspheres. Physical Review A, 2020, 102, .	1.0	15
13	Cavity quantum electro-dynamics with solid-state emitters in aperiodic nano-photonic spiral devices. Applied Physics Letters, 2020, 117, .	1.5	13
14	Theory of optical tweezing of dielectric microspheres in chiral host media and its applications. Scientific Reports, 2020, 10, 16481.	1.6	9
15	Enantioselective manipulation of single chiral nanoparticles using optical tweezers. Nanoscale, 2020, 12, 5031-5037.	2.8	34
16	Fast and robust quantum state transfer in a topological Su-Schrieffer-Heeger chain with next-to-nearest-neighbor interactions. Physical Review Research, 2020, 2, .	1.3	46
17	Probing the optical chiral response of single nanoparticles with optical tweezers. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2796.	0.9	10
18	Tunable terahertz absorption in Si/SiO₂-graphene multilayers: disorder and magneto-optical effects. Applied Optics, 2020, 59, 11034.	0.9	15

#	Article	IF	Citations
19	Tuning quantum reflection in graphene with an external magnetic field. Physical Review A, 2019, 100, .	1.0	5
20	Decoherence and collective effects of quantum emitters near a medium at criticality. Physical Review B, 2019, 99, .	1.1	3
21	Localization of scattering resonances in aperiodic Vogel spirals. Physical Review B, 2019, 99, .	1.1	27
22	Controlling spontaneous emission via electronic correlations and temperature in transparent oxides. Physical Review B, 2019, 100, .	1.1	0
23	Hysteresis in the spontaneous emission induced by VO₂ phase change. Journal of the Optical Society of America B: Optical Physics, 2019, 36, C46.	0.9	15
24	Spectral statistics and scattering resonances of complex primes arrays. Physical Review B, 2018, 97, .	1.1	16
25	Fano Resonances in Plasmonic Core-Shell Particles and the Purcell Effect. Springer Series in Optical Sciences, 2018, , 445-472.	0.5	4
26	Nonradiative decay and absorption rates of quantum emitters embedded in metallic systems: Microscopic description and their determination from electronic transport. Physical Review B, 2018, 98, .	1.1	1
27	Photonic spin Hall effect in bilayer graphene moirÃ© superlattices. Physical Review B, 2018, 98, .	1.1	50
28	Optimizing optical tweezing with directional scattering in composite microspheres. Physical Review A, 2018, 98, .	1.0	9
29	Controlling optical memory effects in disordered media with coated metamaterials. Physical Review A, 2018, 98, .	1.0	6
30	Edge modes of scattering chains with aperiodic order. Optics Letters, 2018, 43, 1986.	1.7	21
31	Enhancing and optimizing electronic transport in biphenyl derivative single-molecule junctions attached to carbon nanotubes electrodes. Solid State Communications, 2017, 252, 46-50.	0.9	1
32	Modeling anisotropic magnetoresistance in layered antiferromagnets. Journal of Physics Condensed Matter, 2017, 29, 235302.	0.7	1
33	Spontaneous natural optical activity in disordered media. Physical Review B, 2017, 95, .	1.1	12
34	Characterizing critical phenomena via the Purcell effect. Physical Review B, 2017, 96, .	1.1	6
35	Chirality and natural optical activity in disordered media. , 2017, , .		0
36	Electromagnetic energy stored in inhomogeneous scattering systems. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 1934.	0.8	5

#	Article	IF	Citations
37	Organic Nano-Devices Composed by Carbon NanoTube/Oligophenylenes/Carbon NanoTube Junctions: Transition-Voltage Spectroscopy, Applications and Chirality versus Geometry. Journal of Nanoscience and Nanotechnology, 2016, 16, 9771-9778.	0.9	3
38	Structural and Spectral Properties of Deterministic Aperiodic Optical Structures. Crystals, 2016, 6, 161.	1.0	27
39	Probing scattering resonances of Vogelâ€™s spirals with the Greenâ€™s matrix spectral method. Optics Letters, 2016, 41, 1933.	1.7	13
40	Electromagnetic energy and negative asymmetry parameters in coated magneto-optical cylinders: Applications to tunable light transport in disordered systems. Physical Review A, 2016, 94, .	1.0	23
41	Purcell effect at the percolation transition. Physical Review B, 2016, 94, .	1.1	14
42	A 50/50 electronic beam splitter in graphene nanoribbons as a building block for electron optics. Journal of Physics Condensed Matter, 2016, 28, 505303.	0.7	5
43	Cloaking resonant scatterers and tuning electron flow in graphene. Physical Review B, 2015, 91, .	1.1	8
44	Anderson localization of light in disordered superlattices containing graphene layers. Physical Review B, 2015, 92, .	1.1	9
45	Active magneto-optical control of spontaneous emission in graphene. Physical Review B, 2015, 92, .	1.1	50
46	Tunable multiple Fano resonances in magnetic single-layered core-shell particles. Physical Review A, 2015, 92, .	1.0	22
47	Omnidirectional absorption and off-resonance field enhancement in dielectric cylinders coated with graphene layers. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 943.	0.8	12
48	Enabling focusing around the corner in multiple scattering media. Applied Optics, 2015, 54, 7740.	2.1	2
49	Electromagnetic energy within coated cylinders at oblique incidence and applications to graphene coatings. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1811.	0.8	13
50	Tuning the Casimir-Polder interaction via magneto-optical effects in graphene. Physical Review A, 2014, 90, .	1.0	40
51	Enhancing near-field heat transfer in composite media: Effects of the percolation transition. Physical Review B, 2014, 90, .	1.1	9
52	Electronic transport, transition-voltage spectroscopy, and the Fano effect in single molecule junctions composed of a biphenyl molecule attached to metallic and semiconducting carbon nanotube electrodes. Physical Chemistry Chemical Physics, 2014, 16, 19602-19607.	1.3	7
53	Molding the flow of light with a magnetic field: plasmonic cloaking and directional scattering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1969.	0.8	19
54	Unconventional Fano effect and off-resonance field enhancement in plasmonic coated spheres. Physical Review A, 2013, 87, .	1.0	31

#	Article	IF	Citations
55	Tuning Plasmonic Cloaks with an External Magnetic Field. Physical Review Letters, 2013, 111, 215504.	2.9	34
56	Achieving invisibility with a tunable cloaking device. , 2013, , .		0
57	Spontaneous emission in the presence of a spherical plasmonic metamaterial. Physical Review A, 2013, 87, .	1.0	26
58	Electromagnetic energy within single-resonance chiral metamaterial spheres. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1205.	0.8	9
59	Metamaterials can suppress Anderson localization of light in one dimension. Proceedings of SPIE, 2012, , .	0.8	0
60	Effects of disorder range and electronic energy on the perfect transmission in graphene nanoribbons. Physical Review B, 2012, 86, .	1.1	13
61	Electromagnetic energy within coated spheres containing dispersive metamaterials. Journal of Optics (United Kingdom), 2012, 14, 065101.	1.0	20
62	Light propagation and Anderson localization in disordered superlattices containing dispersive metamaterials: Effects of correlated disorder. Physical Review B, 2011, 84, .	1.1	30
63	Electronic transport in oligo-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="italic">para</mml:mi></mml:mrow></mml:math>-phenylene junctions attached to carbon nanotube electrodes: Transition-voltage spectroscopy and chirality. Physical Review B, 2011, 83, .	1.1	12
64	Suppression of Anderson localization of light and Brewster anomalies in disordered superlattices containing a dispersive metamaterial. Physical Review B, 2010, 82, .	1.1	39
65	Electronic transport in biphenyl single-molecule junctions with carbon nanotubes electrodes: The role of molecular conformation and chirality. Physical Review B, 2010, 82, .	1.1	12
66	Probing molecular chirality via electronic transport. Physical Review B, 2010, 81, .	1.1	6
67	Adiabatic charge pumping through quantum dots in the Coulomb blockade regime. Physical Review B, 2009, 80, .	1.1	28
68	Statistics of quality factors in three-dimensional disordered magneto-optical systems and its applications to random lasers. Physical Review A, 2008, 78, .	1.0	22
69	Quantum electronic transport: Linear and nonlinear conductance from the Keldysh approach. Physica A: Statistical Mechanics and Its Applications, 2007, 385, 148-160.	1.2	12
70	Lasing threshold of diffusive random lasers in three dimensions. Physical Review A, 2006, 73, .	1.0	34
71	Fractal conductance fluctuations in electron billiards: a random matrix theory approach. Brazilian Journal of Physics, 2006, 36, 379-382.	0.7	4
72	Probing Anderson localization of light via decay rate statistics. Physical Review E, 2004, 69, 026605.	0.8	86

#	Article	IF	Citations
73	<title>Light propagation in chiral and magnetochiral random media: the impact of broken symmetries</title>. , 2004, , .		0
74	Light Propagation in a Magnetic Field: Random Green Matrix Approach. Acta Physica Polonica A, 2004, 105, 339-347.	0.2	3
75	Light transport in chiral and magnetochiral random media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 99.	0.8	17
76	Magnetochiral scattering of light: Optical manifestation of chirality. Physical Review E, 2002, 66, 016607.	0.8	14
77	Multiple scattering of electromagnetic waves in disordered magnetic media: localization parameter, energy transport velocity and diffusion constant. Brazilian Journal of Physics, 2001, 31, 65-70.	0.7	6
78	Electromagnetic scattering by small magnetic particles. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1951-1953.	1.0	3
79	Vanishing of Energy Transport Velocity and Diffusion Constant of Electromagnetic Waves in Disordered Magnetic Media. Physical Review Letters, 2000, 85, 5563-5566.	2.9	21
80	New Effects in Light Scattering in Disordered Media and Coherent Backscattering Cone: Systems of Magnetic Particles. Physical Review Letters, 2000, 84, 1435-1438.	2.9	46
81	Uniaxial in-plane magnetic anisotropy and exchange bias in Sm/Fe bilayers. Physical Review B, 1999, 60, 68-71.	1.1	7