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	Probing Anderson localization of light via decay rate statistics. Physical Review E, 2004, 69, 026605.	0.8	86
2	Active magneto-optical control of spontaneous emission in graphene. Physical Review B, 2015, 92, .	1.1	50
3	Photonic spin Hall effect in bilayer graphene moirÃ© superlattices. Physical Review B, 2018, 98, .	1.1	50
4	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
5	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
6	Tuning the Casimir-Polder interaction via magneto-optical effects in graphene. Physical Review A, 2014, 90, .	1.0	40
7	Suppression of Anderson localization of light and Brewster anomalies in disordered superlattices containing a dispersive metamaterial. Physical Review B, 2010, 82, .	1.1	39
8	Lasing threshold of diffusive random lasers in three dimensions. Physical Review A, 2006, 73, .	1.0	34
9	Tuning Plasmonic Cloaks with an External Magnetic Field. Physical Review Letters, 2013, 111, 215504.	2.9	34
10	Enantioselective manipulation of single chiral nanoparticles using optical tweezers. Nanoscale, 2020, 12, 5031-5037.	2.8	34
11	Unconventional Fano effect and off-resonance field enhancement in plasmonic coated spheres. Physical Review A, 2013, 87, .	1.0	31
12	Light propagation and Anderson localization in disordered superlattices containing dispersive metamaterials: Effects of correlated disorder. Physical Review B, 2011, 84, .	1.1	30
13	Adiabatic charge pumping through quantum dots in the Coulomb blockade regime. Physical Review B, 2009, 80, .	1.1	28
14	Structural and Spectral Properties of Deterministic Aperiodic Optical Structures. Crystals, 2016, 6, 161.	1.0	27
15	Localization of scattering resonances in aperiodic Vogel spirals. Physical Review B, 2019, 99, .	1.1	27
16	Spontaneous emission in the presence of a spherical plasmonic metamaterial. Physical Review A, 2013, 87, .	1.0	26
17	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
18	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

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19	Tunable multiple Fano resonances in magnetic single-layered core-shell particles. Physical Review A, 2015, 92, .	1.0	22
20	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
21	Edge modes of scattering chains with aperiodic order. Optics Letters, 2018, 43, 1986.	1.7	21
22	Electromagnetic energy within coated spheres containing dispersive metamaterials. Journal of Optics (United Kingdom), 2012, 14, 065101.	1.0	20
23	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
24	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
25	Spectral statistics and scattering resonances of complex primes arrays. Physical Review B, 2018, 97, .	1.1	16
26	Enantioselection and chiral sorting of single microspheres using optical pulling forces. Optics Letters, 2021, 46, 1640.	1.7	16
27	Tailoring optical pulling forces with composite microspheres. Physical Review A, 2020, 102, .	1.0	15
28	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
29	Tunable terahertz absorption in Si/SiO₂-graphene multilayers: disorder and magneto-optical effects. Applied Optics, 2020, 59, 11034.	0.9	15
30	Magnetochiral scattering of light: Optical manifestation of chirality. Physical Review E, 2002, 66, 016607.	0.8	14
31	Purcell effect at the percolation transition. Physical Review B, 2016, 94, .	1.1	14
32	Effects of disorder range and electronic energy on the perfect transmission in graphene nanoribbons. Physical Review B, 2012, 86, .	1.1	13
33	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
34	Probing scattering resonances of Vogelâ€™s spirals with the Greenâ€™s matrix spectral method. Optics Letters, 2016, 41, 1933.	1.7	13
35	Cavity quantum electro-dynamics with solid-state emitters in aperiodic nano-photonic spiral devices. Applied Physics Letters, 2020, 117, .	1.5	13
36	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

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37	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
38	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
39	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
40	Spontaneous natural optical activity in disordered media. Physical Review B, 2017, 95, .	1.1	12
41	Cavity-enhanced lightâ€“matter interaction in Vogel-spiral devices as a platform for quantum photonics. Applied Physics Letters, 2021, 118, .	1.5	12
42	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
43	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
44	Enhancing near-field heat transfer in composite media: Effects of the percolation transition. Physical Review B, 2014, 90, .	1.1	9
45	Anderson localization of light in disordered superlattices containing graphene layers. Physical Review B, 2015, 92, .	1.1	9
46	Optimizing optical tweezing with directional scattering in composite microspheres. Physical Review A, 2018, 98, .	1.0	9
47	Theory of optical tweezing of dielectric microspheres in chiral host media and its applications. Scientific Reports, 2020, 10, 16481.	1.6	9
48	Cloaking resonant scatterers and tuning electron flow in graphene. Physical Review B, 2015, 91, .	1.1	8
49	Uniaxial in-plane magnetic anisotropy and exchange bias in Sm/Fe bilayers. Physical Review B, 1999, 60, 68-71.	1.1	7
50	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
51	Probing topological phase transitions via quantum reflection in the graphene family materials. Physical Review B, 2021, 104, .	1.1	7
52	Time scaling and quantum speed limit in non-Hermitian Hamiltonians. Physical Review A, 2021, 104, .	1.0	7
53	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
54	Probing molecular chirality via electronic transport. Physical Review B, 2010, 81, .	1.1	6

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55	Characterizing critical phenomena via the Purcell effect. Physical Review B, 2017, 96, .	1.1	6
56	Controlling optical memory effects in disordered media with coated metamaterials. Physical Review A, 2018, 98, .	1.0	6
57	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
58	Tuning quantum reflection in graphene with an external magnetic field. Physical Review A, 2019, 100, .	1.0	5
59	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
60	Fractal conductance fluctuations in electron billiards: a random matrix theory approach. Brazilian Journal of Physics, 2006, 36, 379-382.	0.7	4
61	Fano Resonances in Plasmonic Core-Shell Particles and the Purcell Effect. Springer Series in Optical Sciences, 2018, , 445-472.	0.5	4
62	Gain-assisted optical tweezing of plasmonic and large refractive index microspheres. Journal of Optics (United Kingdom), 2021, 23, 115004.	1.0	4
63	Structural entropy and spatial decay of quasimodes in Vogel spirals. Physical Review B, 2021, 104, .	1.1	4
64	Electromagnetic scattering by small magnetic particles. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1951-1953.	1.0	3
65	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
66	Decoherence and collective effects of quantum emitters near a medium at criticality. Physical Review B, 2019, 99, .	1.1	3
67	Light Propagation in a Magnetic Field: Random Green Matrix Approach. Acta Physica Polonica A, 2004, 105, 339-347.	0.2	3
68	Enabling focusing around the corner in multiple scattering media. Applied Optics, 2015, 54, 7740.	2.1	2
69	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
70	Modeling anisotropic magnetoresistance in layered antiferromagnets. Journal of Physics Condensed Matter, 2017, 29, 235302.	0.7	1
71	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
72	Harnessing the photonic local density of states in graphene moirÃ© superlattices. Physical Review B, 2021, 103, .	1.1	1

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73	Optical Forces on an Oscillating Dipole Near VO2 Phase Transition. Universe, 2021, 7, 159.	0.9	1
74	<title>Light propagation in chiral and magnetochiral random media: the impact of broken symmetries</title>. , 2004, , .		0
75	Metamaterials can suppress Anderson localization of light in one dimension. Proceedings of SPIE, 2012, , .	0.8	0
76	Achieving invisibility with a tunable cloaking device. , 2013, , .		0
77	Chirality and natural optical activity in disordered media. , 2017, , .		0
78	Controlling spontaneous emission via electronic correlations and temperature in transparent oxides. Physical Review B, 2019, 100, .	1.1	0
79	Spontaneous emission in inertial and dissipative nematic liquid crystals: the role of critical phenomena. Journal of Physics Condensed Matter, 2021, 34, .	0.7	0
80	Enantioselective optical forces of gain functionalized core-shell chiral nanoparticles. , 2021, , .		0
81	Entangled two-plasmon generation in carbon nanotubes and graphene-coated wires. Physical Review B, 2022, 105, .	1.1	0