

Manuel I Marques

List of Publications by Year in descending order

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40
papers

821
citations

687363

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477307

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40
all docs

40
docs citations

40
times ranked

721
citing authors

#	ARTICLE	IF	CITATIONS
1	Scattering Forces from the Curl of the Spin Angular Momentum of a Light Field. <i>Physical Review Letters</i> , 2009, 102, 113602.	7.8	279
2	Intramolecular coupling as a mechanism for a liquid-liquid phase transition. <i>Physical Review E</i> , 2003, 67, 011103.	2.1	105
3	Possible Mechanism for Cold Denaturation of Proteins at High Pressure. <i>Physical Review Letters</i> , 2003, 91, 138103.	7.8	95
4	Giant Enhanced Diffusion of Gold Nanoparticles in Optical Vortex Fields. <i>Nano Letters</i> , 2009, 9, 3527-3531.	9.1	54
5	Optical Forces at the Nanoscale: Size and Electrostatic Effects. <i>Nano Letters</i> , 2018, 18, 602-609.	9.1	35
6	Beam configuration proposal to verify that scattering forces come from the orbital part of the Poynting vector. <i>Optics Letters</i> , 2014, 39, 5122.	3.3	22
7	Nanojet Trapping of a Single Sub-10nm Upconverting Nanoparticle in the Full Liquid Water Temperature Range. <i>Small</i> , 2021, 17, e2006764.	10.0	20
8	Light control of silver nanoparticle's diffusion. <i>Optics Express</i> , 2011, 19, 11471.	3.4	19
9	Self-averaging of random and thermally disordered diluted Ising systems. <i>Physical Review E</i> , 1999, 60, 2394-2397.	2.1	18
10	Marques and SÃ¡enz Reply:. <i>Physical Review Letters</i> , 2013, 111, 059302.	7.8	18
11	Universality class of thermally diluted Ising systems at criticality. <i>Physical Review E</i> , 2000, 62, 191-196.	2.1	16
12	First-principles study of instantaneous and averaged local potential in BaTiO ₃ . <i>Physical Review B</i> , 2005, 71, .	3.2	15
13	Scattering forces and electromagnetic momentum density in crossed circularly polarized standing waves. <i>Optics Letters</i> , 2012, 37, 2787.	3.3	15
14	Plasmonic Nanoparticle Chain in a Light Field: A Resonant Optical Sail. <i>Nano Letters</i> , 2011, 11, 4597-4600.	9.1	13
15	Composition dependence of the transition temperature in mixed ferroelectric-ferroelectric systems. <i>Physical Review B</i> , 2000, 62, 8561-8563.	3.2	12
16	Multipole Engineering of Attractive and Repulsive and Bending Optical Forces. <i>Advanced Photonics Research</i> , 2021, 2, 2100082.	3.6	12
17	Numerical approach to phase transitions in nanoscopic layered systems. <i>Nanotechnology</i> , 2001, 12, 143-146.	2.6	10
18	Microscopic model for the formation of nanodomains in relaxor materials. <i>Physical Review B</i> , 2010, 81, .	3.2	9

#	ARTICLE	IF	CITATIONS
19	Mechanism for proteins destabilization at low temperatures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1487-1490.	1.8	8
20	Irrelevance of canonical or grand canonical constraints near a random fixed point in large systems. <i>Physical Review E</i> , 2002, 65, 057104.	2.1	7
21	Arrested Dimer's Diffusion by Self-Induced Back-Action Optical Forces. <i>ACS Photonics</i> , 2016, 3, 1286-1293.	6.6	7
22	Evolution of the universality class in slightly diluted ($1 > p > 0.8$) Ising systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 284, 187-194.	2.6	6
23	Proposed high-pressure calorimetric experiment to probe theoretical predictions on the liquid-liquid critical point hypothesis. <i>Physical Review E</i> , 2007, 76, 021503.	2.1	5
24	Attenuation of the depolarizing field in a thin film model relaxor. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 3955-3961.	2.6	3
25	Scattering forces and electromagnetic momentum density in crossed circularly polarized standing waves: erratum. <i>Optics Letters</i> , 2012, 37, 4470.	3.3	3
26	Modulated flipping torque, spin-induced radiation pressure, and chiral sorting exerted by guided light. <i>Optics Express</i> , 2021, 29, 16969.	3.4	3
27	Test of cold denaturation mechanism for proteins as a function of water's structure. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 375, 37-43.	2.6	2
28	Thermodynamic behavior of a water model with a liquid-liquid critical point. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 386, 708-712.	2.6	2
29	Dynamics of a small particle in a fluctuating random light field. <i>Optics Letters</i> , 2016, 41, 796.	3.3	2
30	A proposal to measure Belinfante's curl of the spin optical force based on the Kerker conditions. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	2
31	Monte Carlo study of the competition between long-range and short-range correlated disorder in a second-order phase transition. <i>Physical Review E</i> , 2009, 79, 052103.	2.1	1
32	Crossover from superdiffusive to diffusive dynamics in fluctuating light fields. <i>Physical Review A</i> , 2016, 93, .	2.5	1
33	Analysis of the dynamics of electric dipoles in fluctuating electromagnetic fields. , 2018, , .		1
34	Active Motion Induced by Random Electromagnetic Fields. <i>ACS Photonics</i> , 2022, 9, 1008-1014.	6.6	1
35	Dynamic scaling in diluted systems: Deactivation through thermal dilution. <i>Physical Review E</i> , 2001, 63, 056114.	2.1	0
36	Behavior of the Local Mode's Potential in BaTiO ₃ Studied by Effective Hamiltonian Numerical Simulations. <i>Ferroelectrics</i> , 2006, 337, 51-57.	0.6	0

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37	Monte Carlo Study of the Composition Dependence of the Curie Temperature in Mixed Ising Systems. <i>Ferroelectrics</i> , 2006, 337, 19-23.	0.6	0
38	Dilution Effects on the Transition Temperature of Ising Monolayers. <i>Ferroelectrics</i> , Letters Section, 2006, 33, 107-111.	1.0	0
39	Non-conservative scattering forces on small particles. , 2013, , .		0
40	Control of the electromagnetic drag using fluctuating light fields. <i>Physical Review A</i> , 2018, 97, .	2.5	0