

# Manuel I Marques

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11594083/publications.pdf>

Version: 2024-02-01

40  
papers

821  
citations

687363

13  
h-index

477307

29  
g-index

40  
all docs

40  
docs citations

40  
times ranked

721  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Active Motion Induced by Random Electromagnetic Fields. ACS Photonics, 2022, 9, 1008-1014.  | 6.6  | 1         |
| 2  | A proposal to measure Belinfante's curl of the spin optical force based on the Kerker conditions. European Physical Journal Plus, 2021, 136, 1. | 2.6  | 2         |
| 3  | Modulated flipping torque, spin-induced radiation pressure, and chiral sorting exerted by guided light. Optics Express, 2021, 29, 16969.        | 3.4  | 3         |
| 4  | Multipole Engineering of Attractive and Repulsive and Bending Optical Forces. Advanced Photonics Research, 2021, 2, 2100082.                    | 3.6  | 12        |
| 5  | Nanojet Trapping of a Single Sub-10 nm Upconverting Nanoparticle in the Full Liquid Water Temperature Range. Small, 2021, 17, e2006764.         | 10.0 | 20        |
| 6  | Optical Forces at the Nanoscale: Size and Electrostatic Effects. Nano Letters, 2018, 18, 602-609.   | 9.1  | 35        |
| 7  | Control of the electromagnetic drag using fluctuating light fields. Physical Review A, 2018, 97, .  | 2.5  | 0         |
| 8  | Analysis of the dynamics of electric dipoles in fluctuating electromagnetic fields. , 2018, , .   |      | 1         |
| 9  | Crossover from superdiffusive to diffusive dynamics in fluctuating light fields. Physical Review A, 2016, 93, .                                 | 2.5  | 1         |
| 10 | Arrested Dimer's Diffusion by Self-Induced Back-Action Optical Forces. ACS Photonics, 2016, 3, 1286-1293.                                       | 6.6  | 7         |
| 11 | Dynamics of a small particle in a fluctuating random light field. Optics Letters, 2016, 41, 796.  | 3.3  | 2         |
| 12 | Beam configuration proposal to verify that scattering forces come from the orbital part of the Poynting vector. Optics Letters, 2014, 39, 5122. | 3.3  | 22        |
| 13 | Non-conservative scattering forces on small particles. , 2013, , .  |      | 0         |
| 14 | Marqu s and S enz Reply.. Physical Review Letters, 2013, 111, 059302.   | 7.8  | 18        |
| 15 | Scattering forces and electromagnetic momentum density in crossed circularly polarized standing waves: erratum. Optics Letters, 2012, 37, 4470. | 3.3  | 3         |
| 16 | Scattering forces and electromagnetic momentum density in crossed circularly polarized standing waves. Optics Letters, 2012, 37, 2787.          | 3.3  | 15        |
| 17 | Plasmonic Nanoparticle Chain in a Light Field: A Resonant Optical Sail. Nano Letters, 2011, 11, 4597-4600.                                      | 9.1  | 13        |
| 18 | Light control of silver nanoparticle's diffusion. Optics Express, 2011, 19, 11471.  | 3.4  | 19        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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         |
| 20 | Microscopic model for the formation of nanodomains in relaxor materials. <i>Physical Review B</i> , 2010, 81, .  | 3.2 | 9         |
| 21 | 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         |
| 22 | 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       |
| 23 | Giant Enhanced Diffusion of Gold Nanoparticles in Optical Vortex Fields. <i>Nano Letters</i> , 2009, 9, 3527-3531.   | 9.1 | 54        |
| 24 | 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         |
| 25 | 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         |
| 26 | 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         |
| 27 | Behavior of the Local Mode's Potential in BaTiO <sub>3</sub> Studied by Effective Hamiltonian Numerical Simulations. <i>Ferroelectrics</i> , 2006, 337, 51-57.               | 0.6 | 0         |
| 28 | 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         |
| 29 | Mechanism for proteins destabilization at low temperatures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1487-1490.                      | 1.8 | 8         |
| 30 | Dilution Effects on the Transition Temperature of Ising Monolayers. <i>Ferroelectrics, Letters Section</i> , 2006, 33, 107-111.  | 1.0 | 0         |
| 31 | First-principles study of instantaneous and averaged local potential in BaTiO <sub>3</sub> . <i>Physical Review B</i> , 2005, 71, .  | 3.2 | 15        |
| 32 | Possible Mechanism for Cold Denaturation of Proteins at High Pressure. <i>Physical Review Letters</i> , 2003, 91, 138103.  | 7.8 | 95        |
| 33 | Intramolecular coupling as a mechanism for a liquid-liquid phase transition. <i>Physical Review E</i> , 2003, 67, 011103.  | 2.1 | 105       |
| 34 | 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         |
| 35 | Numerical approach to phase transitions in nanoscopic layered systems. <i>Nanotechnology</i> , 2001, 12, 143-146.  | 2.6 | 10        |
| 36 | Dynamic scaling in diluted systems: Deactivation through thermal dilution. <i>Physical Review E</i> , 2001, 63, 056114.  | 2.1 | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | 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         |
| 38 | Composition dependence of the transition temperature in mixed ferroelectric-ferroelectric systems. <i>Physical Review B</i> , 2000, 62, 8561-8563.                          | 3.2 | 12        |
| 39 | Universality class of thermally diluted Ising systems at criticality. <i>Physical Review E</i> , 2000, 62, 191-196.   | 2.1 | 16        |
| 40 | Self-averaging of random and thermally disordered diluted Ising systems. <i>Physical Review E</i> , 1999, 60, 2394-2397.  | 2.1 | 18        |