

Oriol Romero-Isart

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

2,137
citations

23
h-index

46
g-index

59
ext. papers

2,672
ext. citations

5.3
avg, IF

5.28
L-index

#	Paper	IF	Citations
57	Roadmap on Spin-Wave Computing. <i>IEEE Transactions on Magnetics</i> , 2022 , 1-1	2	20
56	Mechanical Squeezing via Unstable Dynamics in a Microcavity.. <i>Physical Review Letters</i> , 2022 , 128, 143601	7.4	0
55	Levitodynamics: Levitation and control of microscopic objects in vacuum. <i>Science</i> , 2021 , 374, eabg3027	33.3	22
54	Remote Individual Addressing of Quantum Emitters with Chirped Pulses. <i>Physical Review Letters</i> , 2021 , 126, 103602	7.4	1
53	Probing Surface-Bound Atoms with Quantum Nanophotonics. <i>Physical Review Letters</i> , 2021 , 126, 163601	7.4	0
52	Effective quantum dynamics induced by a driven two-level-system bath. <i>Physical Review A</i> , 2021 , 103,	2.6	1
51	Large Quantum Delocalization of a Levitated Nanoparticle Using Optimal Control: Applications for Force Sensing and Entangling via Weak Forces. <i>Physical Review Letters</i> , 2021 , 127, 023601	7.4	7
50	Quantum size effects in the magnetic susceptibility of a metallic nanoparticle. <i>Physical Review B</i> , 2021 , 104,	3.3	2
49	Non-Markovian Effects of Two-Level Systems in a Niobium Coaxial Resonator with a Single-Photon Lifetime of 10 milliseconds. <i>Physical Review Applied</i> , 2021 , 16,	4.3	2
48	Acoustic and optical properties of a fast-spinning dielectric nanoparticle. <i>Physical Review B</i> , 2020 , 101,	3.3	7
47	Theory of quantum acoustomagnonics and acoustomechanics with a micromagnet. <i>Physical Review B</i> , 2020 , 101,	3.3	10
46	Quantum Acoustomechanics with a Micromagnet. <i>Physical Review Letters</i> , 2020 , 124, 093602	7.4	15
45	Single-Spin Magnetomechanics with Levitated Micromagnets. <i>Physical Review Letters</i> , 2020 , 124, 163604	7.4	28
44	Hybrid architecture for engineering magnonic quantum networks. <i>Physical Review A</i> , 2019 , 100,	2.6	8
43	Eine Diode für Magnetfelder. <i>Physik in Unserer Zeit</i> , 2019 , 50, 114-115	0.1	
42	Quadratic quantum Hamiltonians: General canonical transformation to a normal form. <i>Physical Review A</i> , 2019 , 99,	2.6	9
41	Cavity-Based 3D Cooling of a Levitated Nanoparticle via Coherent Scattering. <i>Physical Review Letters</i> , 2019 , 122, 123601	7.4	61

40	Theory for cavity cooling of levitated nanoparticles via coherent scattering: Master equation approach. <i>Physical Review A</i> , 2019 , 100,	2.6	28
39	Quantum motional state tomography with nonquadratic potentials and neural networks. <i>Physical Review Research</i> , 2019 , 1,	3.9	8
38	Heating in Nanophotonic Traps for Cold Atoms. <i>Physical Review X</i> , 2019 , 9,	9.1	10
37	Radiation Reaction of a Jiggling Dipole in a Quantum Electromagnetic Field. <i>Physical Review Letters</i> , 2019 , 123, 243603	7.4	0
36	Cooperative Effects in Closely Packed Quantum Emitters with Collective Dephasing. <i>Physical Review Letters</i> , 2018 , 120, 033602	7.4	15
35	On-chip quantum interference of a superconducting microsphere. <i>Quantum Science and Technology</i> , 2018 , 3, 025001	5.5	49
34	Circumventing Magnetostatic Reciprocity: A Diode for Magnetic Fields. <i>Physical Review Letters</i> , 2018 , 121, 213903	7.4	5
33	Internal quantum dynamics of a nanoparticle in a thermal electromagnetic field: A minimal model. <i>Physical Review B</i> , 2018 , 98,	3.3	9
32	Quantum Spin Stabilized Magnetic Levitation. <i>Physical Review Letters</i> , 2017 , 119, 167202	7.4	29
31	Coherent inflation for large quantum superpositions of levitated microspheres. <i>New Journal of Physics</i> , 2017 , 19, 123029	2.9	19
30	Ultrasensitive Inertial and Force Sensors with Diamagnetically Levitated Magnets. <i>Physical Review Applied</i> , 2017 , 8,	4.3	34
29	Ultrafocused Electromagnetic Field Pulses with a Hollow Cylindrical Waveguide. <i>Physical Review Letters</i> , 2017 , 119, 043904	7.4	1
28	Linear stability analysis of a levitated nanomagnet in a static magnetic field: Quantum spin stabilized magnetic levitation. <i>Physical Review B</i> , 2017 , 96,	3.3	10
27	Ultrashort Pulses for Far-Field Nanoscopy. <i>Physical Review Letters</i> , 2016 , 117, 103602	7.4	1
26	Near-field levitated quantum optomechanics with nanodiamonds. <i>Physical Review A</i> , 2016 , 94,	2.6	13
25	Magnetic rigid rotor in the quantum regime: Theoretical toolbox. <i>Physical Review B</i> , 2016 , 93,	3.3	19
24	Strong single-photon coupling in superconducting quantum magnetomechanics. <i>Physical Review Letters</i> , 2015 , 114, 143602	7.4	20
23	Long-distance transfer and routing of static magnetic fields. <i>Physical Review Letters</i> , 2014 , 112, 253901	7.4	47

22	Optomechanics assisted by a qubit: From dissipative state preparation to many-partite systems. <i>Physical Review A</i> , 2013 , 88,	2.6	24
21	Superconducting vortex lattices for ultracold atoms. <i>Physical Review Letters</i> , 2013 , 111, 145304	7.4	63
20	Macroscopic quantum resonators (MAQRO). <i>Experimental Astronomy</i> , 2012 , 34, 123-164	1.3	60
19	Master-equation approach to optomechanics with arbitrary dielectrics. <i>Physical Review A</i> , 2012 , 86,	2.6	36
18	Quantum magnetomechanics with levitating superconducting microspheres. <i>Physical Review Letters</i> , 2012 , 109, 147205	7.4	69
17	Quantum memory assisted probing of dynamical spin correlations. <i>Physical Review Letters</i> , 2012 , 108, 065302	7.4	7
16	Optically levitating dielectrics in the quantum regime: Theory and protocols. <i>Physical Review A</i> , 2011 , 83,	2.6	155
15	Quantum superposition of massive objects and collapse models. <i>Physical Review A</i> , 2011 , 84,	2.6	141
14	Probing magnetic order in ultracold lattice gases. <i>Physical Review A</i> , 2011 , 83,	2.6	19
13	Large quantum superpositions and interference of massive nanometer-sized objects. <i>Physical Review Letters</i> , 2011 , 107, 020405	7.4	305
12	Toward quantum superposition of living organisms. <i>New Journal of Physics</i> , 2010 , 12, 033015	2.9	287
11	Preparation of decoherence-free cluster states with optical superlattices. <i>Physical Review A</i> , 2009 , 79,	2.6	19
10	Quantum polarization spectroscopy of correlations in attractive fermionic gases. <i>New Journal of Physics</i> , 2009 , 11, 055041	2.9	39
9	Quantum non-demolition detection of strongly correlated systems. <i>Nature Physics</i> , 2008 , 4, 50-54	16.2	131
8	Efficiency in Quantum Key Distribution Protocols with Entangled Gaussian States. <i>Open Systems and Information Dynamics</i> , 2007 , 14, 69-80	0.4	7
7	Efficient quantum state transfer in spin chains via adiabatic passage. <i>New Journal of Physics</i> , 2007 , 9, 155-155	2.9	44
6	Transport and entanglement generation in the Bose-Hubbard model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007 , 40, 8019-8031	2	12
5	Quantum state transfer in spin-1 chains. <i>Physical Review A</i> , 2007 , 75,	2.6	38

4	Quantum ratchets for quantum communication with optical superlattices. <i>Physical Review A</i> , 2007 , 76,	2.6	41
3	Separable measurement estimation of density matrices and its fidelity gap with collective protocols. <i>Physical Review Letters</i> , 2006 , 97, 130501	7.4	30
2	Purity estimation with separable measurements. <i>Physical Review Letters</i> , 2005 , 95, 110504	7.4	21
1	Prediction of protein-protein interactions using distant conservation of sequence patterns and structure relationships. <i>Bioinformatics</i> , 2005 , 21, 3360-8	7.2	79