

Gheorghe Sorin Paraoanu

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.

81
papers

2,229
citations

24
h-index

45
g-index

85
ext. papers

2,624
ext. citations

4.6
avg, IF

5.47
L-index

#	Paper	IF	Citations
81	A tutorial on optimal control and reinforcement learning methods for quantum technologies. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022 , 434, 128054	2.3	3
80	Protocol for temperature sensing using a three-level transmon circuit. <i>Applied Physics Letters</i> , 2021 , 119, 144002	3.4	0
79	Finite-time quantum Stirling heat engine. <i>New Journal of Physics</i> , 2021 , 23, 033034	2.9	11
78	Klein tunneling through the trapezoidal potential barrier in graphene: conductance and shot noise. <i>New Journal of Physics</i> , 2021 , 23, 043027	2.9	0
77	Bath-Induced Collective Phenomena on Superconducting Qubits: Synchronization, Subradiance, and Entanglement Generation. <i>Annalen Der Physik</i> , 2021 , 533, 2100038	2.6	5
76	Benchmarking machine learning algorithms for adaptive quantum phase estimation with noisy intermediate-scale quantum sensors. <i>EPJ Quantum Technology</i> , 2021 , 8,	6.9	1
75	Quantum simulation of parity-time symmetry breaking with a superconducting quantum processor. <i>Communications Physics</i> , 2021 , 4,	5.4	3
74	General solution of the time evolution of two interacting harmonic oscillators. <i>Physical Review A</i> , 2021 , 103,	2.6	4
73	Engineering Dissipation with Resistive Elements in Circuit Quantum Electrodynamics. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2100054	4.3	3
72	Reinforcement learning-enhanced protocols for coherent population-transfer in three-level quantum systems. <i>New Journal of Physics</i> , 2021 , 23, 093035	2.9	3
71	Simulating Spin Chains Using a Superconducting Circuit: Gauge Invariance, Superadiabatic Transport, and Broken Time-Reversal Symmetry. <i>Advanced Quantum Technologies</i> , 2020 , 3, 1900121	4.3	14
70	Majorana representation of adiabatic and superadiabatic processes in three-level systems. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
69	Listening to the quantum vacuum: a perspective on the dynamical Casimir effect. <i>Europhysics News</i> , 2020 , 51, 18-20	0.2	0
68	Photon blockade and the quantum-to-classical transition in the driven-dissipative Josephson pendulum coupled to a resonator. <i>Physical Review A</i> , 2019 , 99,	2.6	14
67	Superadiabatic population transfer in a three-level superconducting circuit. <i>Science Advances</i> , 2019 , 5, eaau5999	14.3	74
66	Roadmap on STIRAP applications. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 202001	1.3	54
65	Quantum metrology with a transmon qutrit. <i>Physical Review A</i> , 2018 , 97,	2.6	16

64	Experimental state control by fast non-Abelian holonomic gates with a superconducting qutrit. <i>Physica Scripta</i> , 2018 , 93, 055101	2.6	21
63	Optimal superadiabatic population transfer and gates by dynamical phase corrections. <i>Quantum Science and Technology</i> , 2018 , 3, 024006	5.5	24
62	Multilevel Effects in a Driven Generalized Rabi Model. <i>Journal of Low Temperature Physics</i> , 2018 , 191, 354-364	1.3	10
61	Revealing Hidden Quantum Correlations in an Electromechanical Measurement. <i>Physical Review Letters</i> , 2018 , 121, 243601	7.4	15
60	Non-Local Parity Measurements and the Quantum Pigeonhole Effect. <i>Entropy</i> , 2018 , 20,	2.8	3
59	Quantum-enhanced magnetometry by phase estimation algorithms with a single artificial atom. <i>Npj Quantum Information</i> , 2018 , 4,	8.6	27
58	Quantum systems under frequency modulation. <i>Reports on Progress in Physics</i> , 2017 , 80, 056002	14.4	79
57	Observation of the Bloch-Siegert shift in a driven quantum-to-classical transition. <i>Physical Review B</i> , 2017 , 96,	3.3	24
56	Entanglement, coherence, and redistribution of quantum resources in double spontaneous down-conversion processes. <i>Physical Review A</i> , 2017 , 95,	2.6	15
55	Advances in quantum control of three-level superconducting circuit architectures. <i>Fortschritte Der Physik</i> , 2017 , 65, 1600077	5.7	22
54	Contact doping, Klein tunneling, and asymmetry of shot noise in suspended graphene. <i>Physical Review B</i> , 2016 , 93,	3.3	20
53	Stimulated Raman adiabatic passage in a three-level superconducting circuit. <i>Nature Communications</i> , 2016 , 7, 10628	17.4	97
52	Coherence and multimode correlations from vacuum fluctuations in a microwave superconducting cavity. <i>Nature Communications</i> , 2016 , 7, 12548	17.4	31
51	Quantum Control in Qutrit Systems Using Hybrid Rabi-STIRAP Pulses. <i>Photonics</i> , 2016 , 3, 62	2.2	14
50	Stokelberg interference in a superconducting qubit under periodic latching modulation. <i>New Journal of Physics</i> , 2015 , 17, 043058	2.9	40
49	Advanced Concepts in Josephson Junction Reflection Amplifiers. <i>Journal of Low Temperature Physics</i> , 2014 , 175, 868-876	1.3	12
48	Recent Progress in Quantum Simulation Using Superconducting Circuits. <i>Journal of Low Temperature Physics</i> , 2014 , 175, 633-654	1.3	48
47	Ferromagnetic resonance in γ -Co magnetic composites. <i>Nanotechnology</i> , 2014 , 25, 485707	3.4	8

46	Hybrid circuit cavity quantum electrodynamics with a micromechanical resonator. <i>Nature</i> , 2013 , 494, 211-5	50.4	188
45	Self-organized origami structures via ion-induced plastic strain. <i>Advanced Materials</i> , 2013 , 25, 91-5	24	62
44	Dynamical Casimir effect in a Josephson metamaterial. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4234-4238	11.5	221
43	Motional averaging in a superconducting qubit. <i>Nature Communications</i> , 2013 , 4, 1420	17.4	94
42	Measuring the Microwave Magnetic Permeability of Small Samples Using the Short-Circuit Transmission Line Method. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013 , 62, 2503-2510	5.2	15
41	Dielectric losses in multi-layer Josephson junction qubits. <i>Superconductor Science and Technology</i> , 2013 , 26, 085010	3.1	14
40	Dynamical decoupling of superconducting qubits. <i>Journal of Physics: Conference Series</i> , 2012 , 338, 012010.3	10.3	1
39	Nonlocal Appearance of a Macroscopic Angular Momentum. <i>International Journal of Theoretical Physics</i> , 2012 , 51, 1783-1791	1.1	1
38	Dynamical Autler-Townes control of a phase qubit. <i>Scientific Reports</i> , 2012 , 2, 645	4.9	39
37	Designing quantum gates using the genetic algorithm. <i>Journal of Physics: Conference Series</i> , 2012 , 400, 022101	0.3	
36	Interferometers from single-atom mirrors. <i>Journal of Physics: Conference Series</i> , 2012 , 400, 042050	0.3	
35	Pure dephasing in a superconducting three-level system. <i>Journal of Physics: Conference Series</i> , 2012 , 400, 042039	0.3	2
34	Decoherence, Autler-Townes effect, and dark states in two-tone driving of a three-level superconducting system. <i>Physical Review B</i> , 2011 , 84,	3.3	44
33	A quantum no-reflection theorem and the speeding up of Grover's search algorithm. <i>Europhysics Letters</i> , 2011 , 93, 20005	1.6	4
32	Realism and Single-Quanta Nonlocality. <i>Foundations of Physics</i> , 2011 , 41, 734-743	1.2	8
31	Partial Measurements and the Realization of Quantum-Mechanical Counterfactuals. <i>Foundations of Physics</i> , 2011 , 41, 1214-1235	1.2	15
30	Quantum Computing: Theoretical versus Practical Possibility. <i>Physics in Perspective</i> , 2011 , 13, 359-372	0.3	3
29	Generalized partial measurements. <i>Europhysics Letters</i> , 2011 , 93, 64002	1.6	16

28	Extraction of information from a single quantum. <i>Physical Review A</i> , 2011 , 83,	2.6	14
27	Spin-asymmetric Josephson effect. <i>Physical Review Letters</i> , 2010 , 105, 225301	7.4	6
26	Decay of entanglement in coupled, driven systems with bipartite decoherence. <i>European Physical Journal D</i> , 2010 , 56, 255-264	1.3	10
25	Fluorescence interferometry. <i>Physical Review A</i> , 2010 , 82,	2.6	5
24	Autler-Townes effect in a superconducting three-level system. <i>Physical Review Letters</i> , 2009 , 103, 193604	7.4	121
23	Generation and propagation of entanglement in driven coupled-qubit systems. <i>New Journal of Physics</i> , 2009 , 11, 113020	2.9	41
22	Wideband Reference-Plane Invariant Method for Measuring Electromagnetic Parameters of Materials. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 2257-2267	4.1	86
21	Measurement-induced entanglement of two superconducting qubits. <i>Journal of Physics: Conference Series</i> , 2009 , 150, 022051	0.3	7
20	High-speed memory from carbon nanotube field-effect transistors with high-kappa gate dielectric. <i>Nano Letters</i> , 2009 , 9, 643-7	11.5	70
19	Method for finding the critical temperature of the island in a SET structure. <i>Journal of Physics: Conference Series</i> , 2009 , 150, 022088	0.3	1
18	Evolution of fragmented states. <i>Journal of Physics: Conference Series</i> , 2009 , 150, 032079	0.3	
17	Entanglement of superconducting qubits via microwave fields: Classical and quantum regimes. <i>Physical Review B</i> , 2008 , 78,	3.3	41
16	Phase coherence and fragmentation in weakly interacting bosonic gases. <i>Physical Review A</i> , 2008 , 77,	2.6	17
15	Localization of the Relative Phase via Measurements. <i>Journal of Low Temperature Physics</i> , 2008 , 153, 285-293	1.3	9
14	Enhancement of Sudden Death of Entanglement for Driven Qubits. <i>Journal of Low Temperature Physics</i> , 2008 , 153, 294-303	1.3	14
13	Dye-sensitized nanostructured TiO ₂ film based photoconductor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 195, 352-356	4.7	7
12	How do Schrödinger Cats Die?. <i>Journal of Low Temperature Physics</i> , 2007 , 146, 263-273	1.3	5
11	Cooper-pair resonances and subgap Coulomb blockade in a superconducting single-electron transistor. <i>Physical Review B</i> , 2007 , 76,	3.3	20

10	Microwave-induced coupling of superconducting qubits. <i>Physical Review B</i> , 2006 , 74,	3.3	88
9	Interaction-free measurements with superconducting qubits. <i>Physical Review Letters</i> , 2006 , 97, 180406	7.4	37
8	Suspended single-electron transistors: Fabrication and measurement. <i>Applied Physics Letters</i> , 2005 , 86, 093101	3.4	12
7	Running-phase state in a Josephson washboard potential. <i>Physical Review B</i> , 2005 , 72,	3.3	15
6	The Josephson plasmon as a Bogoliubov quasiparticle. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001 , 34, 4689-4696	1.3	66
5	Cooper pair coherence in a superfluid Fermi gas of atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001 , 34, 4763-4773	1.3	4
4	Vortices in trapped superfluid fermi gases. <i>Physical Review Letters</i> , 2001 , 87, 100402	7.4	18
3	Selection of squeezed states via decoherence. <i>Europhysics Letters</i> , 1999 , 47, 279-284	1.6	4
2	Bures distance between two displaced thermal states. <i>Physical Review A</i> , 1998 , 58, 869-871	2.6	40
1	Solving Large-Scale Linear Systems of Equations by a Quantum Hybrid Algorithm. <i>Annalen Der Physik</i> , 2200082	2.6	1