

Lukasz Cywinski

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2472528/lukasz-cywinski-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

61
papers

2,390
citations

26
h-index

48
g-index

68
ext. papers

2,821
ext. citations

4.4
avg, IF

5.17
L-index

#	Paper	IF	Citations
61	Appearance of objectivity for NV centers interacting with dynamically polarized nuclear environment. <i>New Journal of Physics</i> , 2021 , 23, 043036	2.9	3
60	Interplay of charge noise and coupling to phonons in adiabatic electron transfer between quantum dots. <i>Physical Review B</i> , 2021 , 104,	3.3	2
59	Low-frequency spin qubit energy splitting noise in highly purified $^{28}\text{Si}/\text{SiGe}$. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	23
58	Adiabatic electron charge transfer between two quantum dots in presence of $1/f$ noise. <i>Physical Review B</i> , 2020 , 101,	3.3	6
57	Spectroscopy of classical environmental noise with a qubit subjected to projective measurements. <i>Physical Review A</i> , 2020 , 101,	2.6	3
56	Relationship between subjecting the qubit to dynamical decoupling and to a sequence of projective measurements. <i>Physical Review A</i> , 2020 , 101,	2.6	2
55	Influence of nuclear spin polarization on the spin-echo signal of an NV-center qubit. <i>Physical Review B</i> , 2020 , 101,	3.3	3
54	Noise representations of open system dynamics. <i>Scientific Reports</i> , 2020 , 10, 22189	4.9	2
53	Hyperfine interaction for holes in quantum dots: $k\Gamma$ model. <i>Physical Review B</i> , 2019 , 100,	3.3	5
52	Characterization of a quasistatic environment with a qubit. <i>Physical Review A</i> , 2019 , 99,	2.6	2
51	The dynamical-decoupling-based spatiotemporal noise spectroscopy. <i>New Journal of Physics</i> , 2019 , 21, 043034	2.9	9
50	How to detect qubit-environment entanglement generated during qubit dephasing. <i>Physical Review A</i> , 2019 , 100,	2.6	5
49	Accuracy of dynamical-decoupling-based spectroscopy of Gaussian noise. <i>Physical Review A</i> , 2018 , 97,	2.6	8
48	Equivalence of qubit-environment entanglement and discord generation via pure dephasing interactions and the resulting consequences. <i>Physical Review A</i> , 2018 , 97,	2.6	11
47	Mechanisms of optical orientation of an individual Mn ion spin in a II-VI quantum dot. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 055303	1.8	1
46	Decoherence-assisted detection of entanglement of two qubit states. <i>Physical Review A</i> , 2018 , 98,	2.6	1
45	Decoherence of two entangled spin qubits coupled to an interacting sparse nuclear spin bath: Application to nitrogen vacancy centers. <i>Physical Review B</i> , 2018 , 98,	3.3	10

44	Localization of a magnetic moment using a two-qubit probe. <i>Physical Review A</i> , 2017 , 96,	2.6	5
43	Notch filtering the nuclear environment of a spin qubit. <i>Nature Nanotechnology</i> , 2017 , 12, 16-20	28.7	55
42	Spectrum of the Nuclear Environment for GaAs Spin Qubits. <i>Physical Review Letters</i> , 2017 , 118, 177702	7.4	40
41	Environmental noise spectroscopy with qubits subjected to dynamical decoupling. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 333001	1.8	41
40	Conductance oscillations in quantum point contacts of InAs/GaSb heterostructures. <i>Physical Review B</i> , 2016 , 93,	3.3	4
39	Spectroscopy of cross correlations of environmental noises with two qubits. <i>Physical Review A</i> , 2016 , 94,	2.6	23
38	The dynamics of two entangled qubits exposed to classical noise: role of spatial and temporal noise correlations. <i>Quantum Information Processing</i> , 2015 , 14, 3367-3397	1.6	14
37	Characterization and measurement of qubit-environment-entanglement generation during pure dephasing. <i>Physical Review A</i> , 2015 , 92,	2.6	21
36	Dynamics of entanglement of two electron spins interacting with nuclear spin baths in quantum dots. <i>Physical Review B</i> , 2015 , 91,	3.3	12
35	Spin-lattice relaxation of an individual Mn ²⁺ ion in a CdTe/ZnTe quantum dot. <i>Physical Review B</i> , 2015 , 92,	3.3	6
34	The relation between the quantum discord and quantum teleportation: The physical interpretation of the transition point between different quantum discord decay regimes. <i>Europhysics Letters</i> , 2015 , 112, 10002	1.6	7
33	Dynamical-decoupling noise spectroscopy at an optimal working point of a qubit. <i>Physical Review A</i> , 2014 , 90,	2.6	39
32	Absence of nonlocal resistance in microstructures of PbTe quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 37-47	1.3	9
31	Hyperfine interaction induced dephasing of coupled spin qubits in semiconductor double quantum dots. <i>Physical Review B</i> , 2013 , 88,	3.3	16
30	Influence of exciton spin relaxation on the photoluminescence spectra of semimagnetic quantum dots. <i>Physical Review B</i> , 2013 , 87,	3.3	12
29	Nonlocal resistance and its fluctuations in microstructures of band-inverted HgTe/(Hg,Cd)Te quantum wells. <i>Physical Review B</i> , 2013 , 88,	3.3	40
28	Nonperturbative master equation solution of central spin dephasing dynamics. <i>Physical Review Letters</i> , 2012 , 109, 140403	7.4	70
27	Quantum decoherence of the central spin in a sparse system of dipolar coupled spins. <i>Physical Review B</i> , 2012 , 86,	3.3	56

26	PbTe/PbSnTe heterostructures as analogs of topological insulators. <i>Physical Review B</i> , 2012 , 85,	3-3	24
25	Scaling of dynamical decoupling for spin qubits. <i>Physical Review Letters</i> , 2012 , 108, 086802	7-4	115
24	In-plane radiative recombination channel of a dark exciton in self-assembled quantum dots. <i>Physical Review B</i> , 2012 , 86,	3-3	38
23	Master equation approach to the central spin decoherence problem: Uniform coupling model and role of projection operators. <i>Physical Review B</i> , 2011 , 84,	3-3	24
22	Magnetic polaron formation and exciton spin relaxation in single Cd _{1-x} MnxTe quantum dots. <i>Physical Review B</i> , 2011 , 83,	3-3	40
21	Exchange coupling in silicon quantum dots: Theoretical considerations for quantum computation. <i>Physical Review B</i> , 2010 , 81,	3-3	64
20	Optical orientation of a single Mn spin in a quantum dot: Role of carrier spin relaxation. <i>Physical Review B</i> , 2010 , 82,	3-3	14
19	Spin echo decay at low magnetic fields in a nuclear spin bath. <i>Physical Review B</i> , 2010 , 82,	3-3	27
18	Electron spin decoherence in isotope-enriched silicon. <i>Physical Review Letters</i> , 2010 , 105, 187602	7-4	99
17	Quantum dot spin qubits in silicon: Multivalley physics. <i>Physical Review B</i> , 2010 , 82,	3-3	53
16	Realizing singlet-triplet qubits in multivalley Si quantum dots. <i>Physical Review B</i> , 2009 , 80,	3-3	51
15	Electron spin dephasing due to hyperfine interactions with a nuclear spin bath. <i>Physical Review Letters</i> , 2009 , 102, 057601	7-4	145
14	Pure quantum dephasing of a solid-state electron spin qubit in a large nuclear spin bath coupled by long-range hyperfine-mediated interactions. <i>Physical Review B</i> , 2009 , 79,	3-3	114
13	Femtosecond demagnetization and hot-hole relaxation in ferromagnetic Ga _{1-x} MnxAs. <i>Physical Review B</i> , 2008 , 77,	3-3	34
12	How to enhance dephasing time in superconducting qubits. <i>Physical Review B</i> , 2008 , 77,	3-3	304
11	Quantum decoherence of a charge qubit in a spin-fermion model. <i>Physical Review B</i> , 2008 , 78,	3-3	34
10	Spin-based logic in semiconductors for reconfigurable large-scale circuits. <i>Nature</i> , 2007 , 447, 573-6	50-4	326
9	ELECTRICAL EXPRESSION OF SPIN ACCUMULATION IN FERROMAGNET/SEMICONDUCTOR STRUCTURES. <i>Modern Physics Letters B</i> , 2007 , 21, 1509-1529	1-6	

8	Ultrafast demagnetization in the $sp\bar{d}$ model: A theoretical study. <i>Physical Review B</i> , 2007 , 76,	3-3	69
7	Spin transference and magnetoresistance amplification in a transistor. <i>Physical Review B</i> , 2006 , 73,	3-3	28
6	Electric readout of magnetization dynamics in a ferromagnet-semiconductor system. <i>Applied Physics Letters</i> , 2006 , 89, 042105	3-4	11
5	Spintronics for electrical measurement of light polarization. <i>Journal of Applied Physics</i> , 2006 , 100, 063713.	3-5	7
4	Lateral diffusive spin transport in layered structures. <i>Physical Review B</i> , 2006 , 73,	3-3	38
3	Ultrafast magneto-optics in ferromagnetic III-V semiconductors. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, R501-R530	1-8	77
2	Influence of disorder on the optical absorption in semiconductors: Application to epitaxially grown III-V compounds. <i>Physical Review B</i> , 2006 , 73,	3-3	1
1	Ultrafast quenching of ferromagnetism in InMnAs induced by intense laser irradiation. <i>Physical Review Letters</i> , 2005 , 95, 167401	7-4	85