

Mete Atature

List of Publications by Year in descending order

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101
papers

11,161
citations

50276

46
h-index

46799

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103
all docs

103
docs citations

103
times ranked

10758
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum nature of a strongly coupled single quantum dot-cavity system. <i>Nature</i> , 2007, 445, 896-899.	27.8	1,553
2	High Photoluminescence Efficiency and Optically Pumped Lasing in Solution-Processed Mixed Halide Perovskite Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1421-1426.	4.6	1,490
3	Deterministic Coupling of Single Quantum Dots to Single Nanocavity Modes. <i>Science</i> , 2005, 308, 1158-1161.	12.6	600
4	Quantum-Dot Spin-State Preparation with Near-Unity Fidelity. <i>Science</i> , 2006, 312, 551-553.	12.6	480
5	Material platforms for spin-based photonic quantum technologies. <i>Nature Reviews Materials</i> , 2018, 3, 38-51.	48.7	453
6	On-demand semiconductor single-photon source with near-unity indistinguishability. <i>Nature Nanotechnology</i> , 2013, 8, 213-217.	31.5	444
7	Large-scale quantum-emitter arrays in atomically thin semiconductors. <i>Nature Communications</i> , 2017, 8, 15093.	12.8	406
8	Quantum-dot single-photon sources: Prospects for applications in linear optics quantum-information processing. <i>Physical Review A</i> , 2004, 69, .	2.5	320
9	Electronic Structure of the Silicon Vacancy Color Center in Diamond. <i>Physical Review Letters</i> , 2014, 112, 036405.	7.8	312
10	Spin-resolved quantum-dot resonance fluorescence. <i>Nature Physics</i> , 2009, 5, 198-202.	16.7	251
11	Atomically thin quantum light-emitting diodes. <i>Nature Communications</i> , 2016, 7, 12978.	12.8	242
12	Observation of Faraday rotation from a single confined spin. <i>Nature Physics</i> , 2007, 3, 101-106.	16.7	216
13	Subnatural Linewidth Single Photons from a Quantum Dot. <i>Physical Review Letters</i> , 2012, 108, 093602.	7.8	214
14	Charge-tuneable biexciton complexes in monolayer WSe ₂ . <i>Nature Communications</i> , 2018, 9, 3721.	12.8	185
15	Strain engineering of the silicon-vacancy center in diamond. <i>Physical Review B</i> , 2018, 97, .	3.2	171
16	Confluence of resonant laser excitation and bidirectional quantum-dot nuclear-spin polarization. <i>Nature Physics</i> , 2009, 5, 758-763.	16.7	160
17	Optical signatures of silicon-vacancy spins in diamond. <i>Nature Communications</i> , 2014, 5, 3328.	12.8	158
18	Conditional Dynamics of Interacting Quantum Dots. <i>Science</i> , 2008, 320, 772-775.	12.6	137

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19	Observing bulk diamond spin coherence in high-purity nanodiamonds. Nature Materials, 2014, 13, 21-25.	27.5	135
20	Observation of spin-dependent quantum jumps via quantum dot resonance fluorescence. Nature, 2010, 467, 297-300.	27.8	133
21	Coherent control of the silicon-vacancy spin in diamond. Nature Communications, 2017, 8, 15579.	12.8	131
22	Tuning photonic crystal nanocavity modes by wet chemical digital etching. Applied Physics Letters, 2005, 87, 021108.	3.3	125
23	Phase-Tuned Entangled State Generation between Distant Spin Qubits. Physical Review Letters, 2017, 119, 010503.	7.8	123
24	All-Optical Formation of Coherent Dark States of Silicon-Vacancy Spins in Diamond. Physical Review Letters, 2014, 113, 263601.	7.8	121
25	Controlling the coherence of a diamond spin qubit through its strain environment. Nature Communications, 2018, 9, 2012.	12.8	120
26	Transform-Limited Photons From a Coherent Tin-Vacancy Spin in Diamond. Physical Review Letters, 2020, 124, 023602.	7.8	119
27	All-Optical Control of the Silicon-Vacancy Spin in Diamond at Millikelvin Temperatures. Physical Review Letters, 2018, 120, 053603.	7.8	103
28	Quantum interface of an electron and a nuclear ensemble. Science, 2019, 364, 62-66.	12.6	100
29	Strong Extinction of a Far-Field Laser Beam by a Single Quantum Dot. Nano Letters, 2007, 7, 2892-2896.	9.1	98
30	Room-temperature optically detected magnetic resonance of single defects in hexagonal boron nitride. Nature Communications, 2022, 13, 618.	12.8	97
31	Quadrature squeezed photons from a two-level system. Nature, 2015, 525, 222-225.	27.8	93
32	Phase-locked indistinguishable photons with synthesized waveforms from a solid-state source. Nature Communications, 2013, 4, 1600.	12.8	83
33	Optical investigations of quantum dot spin dynamics as a function of external electric and magnetic fields. Physical Review B, 2008, 77, .	3.2	79
34	Quantum dot spin coherence governed by a strained nuclear environment. Nature Communications, 2016, 7, 12745.	12.8	72
35	Environment-assisted quantum control of a solid-state spin via coherent dark states. Nature Physics, 2014, 10, 725-730.	16.7	71
36	Counterpropagating entangled photons from a waveguide with periodic nonlinearity. Physical Review A, 2002, 66, .	2.5	68

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37	Quantum cryptography using femtosecond-pulsed parametric down-conversion. <i>Physical Review A</i> , 1999, 60, R2622-R2625.	2.5	66
38	Direct measurement of spin dynamics in InAs/GaAs quantum dots using time-resolved resonance fluorescence. <i>Physical Review B</i> , 2010, 81, .	3.2	58
39	Direct Photonic Coupling of a Semiconductor Quantum Dot and a Trapped Ion. <i>Physical Review Letters</i> , 2015, 114, 123001.	7.8	58
40	Coherently driving a single quantum two-level system with dichromatic laser pulses. <i>Nature Physics</i> , 2019, 15, 941-946.	16.7	58
41	Local Versus Long-Range Diffusion Effects of Photoexcited States on Radiative Recombination in Organic-Inorganic Lead Halide Perovskites. <i>Advanced Science</i> , 2015, 2, 1500136.	11.2	50
42	Spin-selective optical absorption of singly charged excitons in a quantum dot. <i>Applied Physics Letters</i> , 2005, 86, 221905.	3.3	49
43	Entangled-photon generation from parametric down-conversion in media with inhomogeneous nonlinearity. <i>Physical Review A</i> , 2002, 66, .	2.5	48
44	Direct observation of photon pairs at a single output port of a beam-splitter interferometer. <i>Physical Review A</i> , 2003, 68, .	2.5	48
45	Low-temperature optical characterization of a near-infrared single-photon emitter in nanodiamonds. <i>New Journal of Physics</i> , 2009, 11, 113029.	2.9	47
46	Dynamically Controlled Resonance Fluorescence Spectra from a Doubly Dressed Single InGaAs Quantum Dot. <i>Physical Review Letters</i> , 2015, 114, 097402.	7.8	47
47	Experimental Demonstration of Three Mutually Orthogonal Polarization States of Entangled Photons. <i>Physical Review Letters</i> , 2000, 85, 5013-5017.	7.8	45
48	Nanoscale Optical Electrometer. <i>Physical Review Letters</i> , 2011, 107, 166802.	7.8	45
49	Improving a Solid-State Qubit through an Engineered Mesoscopic Environment. <i>Physical Review Letters</i> , 2017, 119, 130503.	7.8	40
50	Multiparameter entanglement in quantum interferometry. <i>Physical Review A</i> , 2002, 66, .	2.5	39
51	Wide-range electrical tunability of single-photon emission from chromium-based colour centres in diamond. <i>New Journal of Physics</i> , 2011, 13, 075001.	2.9	37
52	Collective Quantum Memory Activated by a Driven Central Spin. <i>Physical Review Letters</i> , 2019, 123, 140502.	7.8	37
53	Quantum sensing of a coherent single spin excitation in a nuclear ensemble. <i>Nature Physics</i> , 2021, 17, 585-590.	16.7	33
54	Coherence of a dynamically decoupled quantum-dot hole spin. <i>Physical Review B</i> , 2018, 97, .	3.2	32

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55	Optical spin locking of a solid-state qubit. Npj Quantum Information, 2019, 5, .	6.7	32
56	Partial Distinguishability in Femtosecond Optical Spontaneous Parametric Down-Conversion. Physical Review Letters, 1999, 83, 1323-1326.	7.8	31
57	Experimental demonstration of the relative phase operator. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 105-112.	1.4	31
58	Single-dot optical emission from ultralow density well-isolated InP quantum dots. Applied Physics Letters, 2008, 93, 143111.	3.3	30
59	Frequency stabilization of the zero-phonon line of a quantum dot via phonon-assisted active feedback. Applied Physics Letters, 2014, 105, 172107.	3.3	30
60	Quantum Control of the Tin-Vacancy Spin Qubit in Diamond. Physical Review X, 2021, 11, .	8.9	30
61	Multiparameter entanglement in femtosecond parametric down-conversion. Physical Review A, 2002, 65, .	2.5	27
62	Full counting statistics of quantum dot resonance fluorescence. Scientific Reports, 2014, 4, 4911.	3.3	27
63	Strong Electron-Hole Exchange in Coherently Coupled Quantum Dots. Physical Review Letters, 2008, 100, 106401.	7.8	26
64	Demonstration of a Coherent Electronic Spin Cluster in Diamond. Physical Review Letters, 2016, 117, 100802.	7.8	26
65	Nanoscale NMR Spectroscopy Using Nanodiamond Quantum Sensors. Physical Review Applied, 2020, 13, .	3.8	26
66	Confinement of long-lived interlayer excitons in WS ₂ /WSe ₂ heterostructures. Communications Physics, 2021, 4, .	5.3	26
67	Dynamics of a mesoscopic nuclear spin ensemble interacting with an optically driven electron spin. Physical Review B, 2014, 90, .	3.2	23
68	Complementarity and quantum erasure with entangled-photon states. Physical Review A, 2000, 62, .	2.5	22
69	Coupling quantum dot spins to a photonic crystal nanocavity. Journal of Applied Physics, 2007, 101, 081602.	2.5	22
70	Spectral tunability of a plasmonic antenna with a dielectric nanocrystal. Optics Express, 2011, 19, 18175.	3.4	22
71	Performance of photon-pair quantum key distribution systems. Journal of Modern Optics, 2001, 48, 2055-2063.	1.3	20
72	Optically Active Defects at the SiC/SiO ₂ Interface. Physical Review Applied, 2019, 12, .	1.8	20

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73	Witnessing quantum correlations in a nuclear ensemble via an electron spin qubit. Nature Physics, 2021, 17, 1247-1253.	16.7	19
74	Graphitic and oxidised high pressure high temperature (HPHT) nanodiamonds induce differential biological responses in breast cancer cell lines. Nanoscale, 2018, 10, 12169-12179.	5.6	17
75	Error corrected spin-state readout in a nanodiamond. Npj Quantum Information, 2019, 5, .	6.7	17
76	Multidimensional cluster states using a single spin-photon interface coupled strongly to an intrinsic nuclear register. Quantum - the Open Journal for Quantum Science, 0, 5, 565.	0.0	17
77	Entanglement in Cascaded-Crystal Parametric Down-Conversion. Physical Review Letters, 2001, 86, 4013-4016.	7.8	16
78	Dispersion-Independent High-Visibility Quantum Interference in Ultrafast Parametric Down-Conversion. Physical Review Letters, 2000, 84, 618-621.	7.8	14
79	Phonon-induced dephasing of chromium color centers in diamond. Physical Review B, 2012, 86, .	3.2	14
80	Spectral and angular distribution of Rayleigh scattering from plasmon-coupled nanohole chains. Applied Physics Letters, 2009, 94, 021112.	3.3	11
81	Highly polarized self-assembled chains of single layer InP/(In,Ga)P quantum dots. Applied Physics Letters, 2010, 97, 253113.	3.3	11
82	Controlling a nuclear spin in a nanodiamond. Physical Review B, 2017, 96, .	3.2	10
83	Photons and (artificial) atoms: an overview of optical spectroscopy techniques on quantum dots. Contemporary Physics, 2010, 51, 17-36.	1.8	9
84	Multiangle Reconstruction of Domain Morphology with All-Optical Diamond Magnetometry. Physical Review Applied, 2021, 16, .	3.8	4
85	Voltage-Controlled Electron-Hole Interaction in a Single Quantum Dot. Journal of Superconductivity and Novel Magnetism, 2005, 18, 245-249.	0.5	3
86	Coherent light scattering from a buried dipole in a high-aperture optical system. New Journal of Physics, 2011, 13, 053056.	2.9	3
87	Nanodiamond preparation and surface characterization for biological applications. Proceedings of SPIE, 2017, , .	0.8	2
88	A gem of a quantum teleporter. Science, 2014, 345, 510-511.	12.6	1
89	Witnessing Quantum Correlations in a Nuclear Spin Ensemble via a Proxy Qubit. , 2021, , .		1
90	Hyperentanglement and femtosecond parametric down-conversion. , 0, , .		0

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91	Hyper-entangled states and free-space quantum cryptography. , 2002, , .		0
92	Quantum-Dot Spins and Cavity QED. , 2006, , .		0
93	Observation of Faraday rotation from a single quantum-dot spin. , 2007, , .		0
94	Solid immersion lens assisted resonant light scattering from a single quantum dot. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
95	Optical transitions in a quantum dot pair with Stark-field induced coupling. , 2007, , .		0
96	Resonance fluorescence from a quantum dot spin. , 2009, , .		0
97	Resonance fluorescence from a single quantum dot. , 0, , 86-102.		0
98	Engineering Quantum Emitters for Integrated Quantum Networks. , 2016, , .		0
99	Observing bulk diamond spin coherence in high-purity nanodiamonds. , 2014, , .		0
100	Protecting The Spin Coherence of Silicon Vacancy Color Centers from Thermal Noise Using Diamond MEMS. , 2017, , .		0
101	Optimal quantum feedback algorithm for spin ensemble purification. , 2021, , .		0