

Mete Atature

List of Publications by Year in descending order

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101
papers

11,161
citations

50276

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103
all docs

103
docs citations

103
times ranked

10758
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature optically detected magnetic resonance of single defects in hexagonal boron nitride. Nature Communications, 2022, 13, 618.	12.8	97
2	Quantum sensing of a coherent single spin excitation in a nuclear ensemble. Nature Physics, 2021, 17, 585-590.	16.7	33
3	Confinement of long-lived interlayer excitons in WS ₂ /WSe ₂ heterostructures. Communications Physics, 2021, 4, .	5.3	26
4	Multiangle Reconstruction of Domain Morphology with All-Optical Diamond Magnetometry. Physical Review Applied, 2021, 16, .	3.8	4
5	Witnessing quantum correlations in a nuclear ensemble via an electron spin qubit. Nature Physics, 2021, 17, 1247-1253.	16.7	19
6	Quantum Control of the Tin-Vacancy Spin Qubit in Diamond. Physical Review X, 2021, 11, .	8.9	30
7	Optimal quantum feedback algorithm for spin ensemble purification. , 2021, , .		0
8	Witnessing Quantum Correlations in a Nuclear Spin Ensemble via a Proxy Qubit. , 2021, , .		1
9	Nanoscale NMR Spectroscopy Using Nanodiamond Quantum Sensors. Physical Review Applied, 2020, 13, .	3.8	26
10	Transform-Limited Photons From a Coherent Tin-Vacancy Spin in Diamond. Physical Review Letters, 2020, 124, 023602.	7.8	119
11	Coherently driving a single quantum two-level system with dichromatic laser pulses. Nature Physics, 2019, 15, 941-946.	16.7	58
12	Optically Active Defects at the SiC/SiO_2 Interface. Physical Review Applied, 2019, 12, .	7.8	37
13	Collective Quantum Memory Activated by a Driven Central Spin. Physical Review Letters, 2019, 123, 140502.	7.8	37
14	Error corrected spin-state readout in a nanodiamond. Npj Quantum Information, 2019, 5, .	6.7	17
15	Quantum interface of an electron and a nuclear ensemble. Science, 2019, 364, 62-66.	12.6	100
16	Optical spin locking of a solid-state qubit. Npj Quantum Information, 2019, 5, .	6.7	32
17	All-Optical Control of the Silicon-Vacancy Spin in Diamond at Millikelvin Temperatures. Physical Review Letters, 2018, 120, 053603.	7.8	103
18	Material platforms for spin-based photonic quantum technologies. Nature Reviews Materials, 2018, 3, 38-51.	48.7	453

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19	Charge-tuneable biexciton complexes in monolayer WSe ₂ . Nature Communications, 2018, 9, 3721.	12.8	185
20	Strain engineering of the silicon-vacancy center in diamond. Physical Review B, 2018, 97, .	3.2	171
21	Controlling the coherence of a diamond spin qubit through its strain environment. Nature Communications, 2018, 9, 2012.	12.8	120
22	Coherence of a dynamically decoupled quantum-dot hole spin. Physical Review B, 2018, 97, .	3.2	32
23	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
24	Nanodiamond preparation and surface characterization for biological applications. Proceedings of SPIE, 2017, , .	0.8	2
25	Coherent control of the silicon-vacancy spin in diamond. Nature Communications, 2017, 8, 15579.	12.8	131
26	Large-scale quantum-emitter arrays in atomically thin semiconductors. Nature Communications, 2017, 8, 15093.	12.8	406
27	Controlling a nuclear spin in a nanodiamond. Physical Review B, 2017, 96, .	3.2	10
28	Improving a Solid-State Qubit through an Engineered Mesoscopic Environment. Physical Review Letters, 2017, 119, 130503.	7.8	40
29	Phase-Tuned Entangled State Generation between Distant Spin Qubits. Physical Review Letters, 2017, 119, 010503.	7.8	123
30	Protecting The Spin Coherence of Silicon Vacancy Color Centers from Thermal Noise Using Diamond MEMS. , 2017, , .		0
31	Engineering Quantum Emitters for Integrated Quantum Networks. , 2016, , .		0
32	Quantum dot spin coherence governed by a strained nuclear environment. Nature Communications, 2016, 7, 12745.	12.8	72
33	Demonstration of a Coherent Electronic Spin Cluster in Diamond. Physical Review Letters, 2016, 117, 100802.	7.8	26
34	Atomically thin quantum light-emitting diodes. Nature Communications, 2016, 7, 12978.	12.8	242
35	Local Versus Long-Range Diffusion Effects of Photoexcited States on Radiative Recombination in Organic-Inorganic Lead Halide Perovskites. Advanced Science, 2015, 2, 1500136.	11.2	50
36	Dynamically Controlled Resonance Fluorescence Spectra from a Doubly Dressed Single InGaAs Quantum Dot. Physical Review Letters, 2015, 114, 097402.	7.8	47

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37	Direct Photonic Coupling of a Semiconductor Quantum Dot and a Trapped Ion. Physical Review Letters, 2015, 114, 123001.	7.8	58
38	Quadrature squeezed photons from a two-level system. Nature, 2015, 525, 222-225.	27.8	93
39	Dynamics of a mesoscopic nuclear spin ensemble interacting with an optically driven electron spin. Physical Review B, 2014, 90, .	3.2	23
40	All-Optical Formation of Coherent Dark States of Silicon-Vacancy Spins in Diamond. Physical Review Letters, 2014, 113, 263601.	7.8	121
41	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
42	Optical signatures of silicon-vacancy spins in diamond. Nature Communications, 2014, 5, 3328.	12.8	158
43	High Photoluminescence Efficiency and Optically Pumped Lasing in Solution-Processed Mixed Halide Perovskite Semiconductors. Journal of Physical Chemistry Letters, 2014, 5, 1421-1426.	4.6	1,490
44	Observing bulk diamond spin coherence in high-purity nanodiamonds. Nature Materials, 2014, 13, 21-25.	27.5	135
45	A gem of a quantum teleporter. Science, 2014, 345, 510-511.	12.6	1
46	Environment-assisted quantum control of a solid-state spin via coherent dark states. Nature Physics, 2014, 10, 725-730.	16.7	71
47	Electronic Structure of the Silicon Vacancy Color Center in Diamond. Physical Review Letters, 2014, 112, 036405.	7.8	312
48	Full counting statistics of quantum dot resonance fluorescence. Scientific Reports, 2014, 4, 4911.	3.3	27
49	Observing bulk diamond spin coherence in high-purity nanodiamonds. , 2014, , .		0
50	On-demand semiconductor single-photon source with near-unity indistinguishability. Nature Nanotechnology, 2013, 8, 213-217.	31.5	444
51	Phase-locked indistinguishable photons with synthesized waveforms from a solid-state source. Nature Communications, 2013, 4, 1600.	12.8	83
52	Phonon-induced dephasing of chromium color centers in diamond. Physical Review B, 2012, 86, .	3.2	14
53	Subnatural Linewidth Single Photons from a Quantum Dot. Physical Review Letters, 2012, 108, 093602.	7.8	214
54	Spectral tunability of a plasmonic antenna with a dielectric nanocrystal. Optics Express, 2011, 19, 18175.	3.4	22

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55	Nanoscale Optical Electrometer. Physical Review Letters, 2011, 107, 166802.	7.8	45
56	Coherent light scattering from a buried dipole in a high-aperture optical system. New Journal of Physics, 2011, 13, 053056.	2.9	3
57	Wide-range electrical tunability of single-photon emission from chromium-based colour centres in diamond. New Journal of Physics, 2011, 13, 075001.	2.9	37
58	Observation of spin-dependent quantum jumps via quantum dot resonance fluorescence. Nature, 2010, 467, 297-300.	27.8	133
59	Photons and (artificial) atoms: an overview of optical spectroscopy techniques on quantum dots. Contemporary Physics, 2010, 51, 17-36.	1.8	9
60	Highly polarized self-assembled chains of single layer InP/(In,Ga)P quantum dots. Applied Physics Letters, 2010, 97, 253113.	3.3	11
61	Direct measurement of spin dynamics in InAs/GaAs quantum dots using time-resolved resonance fluorescence. Physical Review B, 2010, 81, .	3.2	58
62	Spectral and angular distribution of Rayleigh scattering from plasmon-coupled nanohole chains. Applied Physics Letters, 2009, 94, 021112.	3.3	11
63	Low-temperature optical characterization of a near-infrared single-photon emitter in nanodiamonds. New Journal of Physics, 2009, 11, 113029.	2.9	47
64	Resonance fluorescence from a quantum dot spin. , 2009, , .		0
65	Spin-resolved quantum-dot resonance fluorescence. Nature Physics, 2009, 5, 198-202.	16.7	251
66	Confluence of resonant laser excitation and bidirectional quantum-dot nuclear-spin polarization. Nature Physics, 2009, 5, 758-763.	16.7	160
67	Strong Electron-Hole Exchange in Coherently Coupled Quantum Dots. Physical Review Letters, 2008, 100, 106401.	7.8	26
68	Conditional Dynamics of Interacting Quantum Dots. Science, 2008, 320, 772-775.	12.6	137
69	Single-dot optical emission from ultralow density well-isolated InP quantum dots. Applied Physics Letters, 2008, 93, 143111.	3.3	30
70	Optical investigations of quantum dot spin dynamics as a function of external electric and magnetic fields. Physical Review B, 2008, 77, .	3.2	79
71	Observation of Faraday rotation from a single quantum-dot spin. , 2007, , .		0
72	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

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73	Optical transitions in a quantum dot pair with Stark-field induced coupling. , 2007, , .		0
74	Coupling quantum dot spins to a photonic crystal nanocavity. Journal of Applied Physics, 2007, 101, 081602.	2.5	22
75	Strong Extinction of a Far-Field Laser Beam by a Single Quantum Dot. Nano Letters, 2007, 7, 2892-2896.	9.1	98
76	Observation of Faraday rotation from a single confined spin. Nature Physics, 2007, 3, 101-106.	16.7	216
77	Quantum nature of a strongly coupled single quantum dot-cavity system. Nature, 2007, 445, 896-899.	27.8	1,553
78	Quantum-Dot Spin-State Preparation with Near-Unity Fidelity. Science, 2006, 312, 551-553.	12.6	480
79	Quantum-Dot Spins and Cavity QED. , 2006, , .		0
80	Voltage-Controlled Electron-Hole Interaction in a Single Quantum Dot. Journal of Superconductivity and Novel Magnetism, 2005, 18, 245-249.	0.5	3
81	Tuning photonic crystal nanocavity modes by wet chemical digital etching. Applied Physics Letters, 2005, 87, 021108.	3.3	125
82	Spin-selective optical absorption of singly charged excitons in a quantum dot. Applied Physics Letters, 2005, 86, 221905.	3.3	49
83	Deterministic Coupling of Single Quantum Dots to Single Nanocavity Modes. Science, 2005, 308, 1158-1161.	12.6	600
84	Quantum-dot single-photon sources: Prospects for applications in linear optics quantum-information processing. Physical Review A, 2004, 69, .	2.5	320
85	Direct observation of photon pairs at a single output port of a beam-splitter interferometer. Physical Review A, 2003, 68, .	2.5	48
86	Multiparameter entanglement in femtosecond parametric down-conversion. Physical Review A, 2002, 65, .	2.5	27
87	Counterpropagating entangled photons from a waveguide with periodic nonlinearity. Physical Review A, 2002, 66, .	2.5	68
88	Multiparameter entanglement in quantum interferometry. Physical Review A, 2002, 66, .	2.5	39
89	Hyper-entangled states and free-space quantum cryptography. , 2002, , .		0
90	Entangled-photon generation from parametric down-conversion in media with inhomogeneous nonlinearity. Physical Review A, 2002, 66, .	2.5	48

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91	Performance of photon-pair quantum key distribution systems. Journal of Modern Optics, 2001, 48, 2055-2063.	1.3	20
92	Entanglement in Cascaded-Crystal Parametric Down-Conversion. Physical Review Letters, 2001, 86, 4013-4016.	7.8	16
93	Experimental demonstration of the relative phase operator. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 105-112.	1.4	31
94	Complementarity and quantum erasure with entangled-photon states. Physical Review A, 2000, 62, .	2.5	22
95	Experimental Demonstration of Three Mutually Orthogonal Polarization States of Entangled Photons. Physical Review Letters, 2000, 85, 5013-5017.	7.8	45
96	Dispersion-Independent High-Visibility Quantum Interference in Ultrafast Parametric Down-Conversion. Physical Review Letters, 2000, 84, 618-621.	7.8	14
97	Quantum cryptography using femtosecond-pulsed parametric down-conversion. Physical Review A, 1999, 60, R2622-R2625.	2.5	66
98	Partial Distinguishability in Femtosecond Optical Spontaneous Parametric Down-Conversion. Physical Review Letters, 1999, 83, 1323-1326.	7.8	31
99	Hyperentanglement and femtosecond parametric down-conversion. , 0, , .		0
100	Resonance fluorescence from a single quantum dot. , 0, , 86-102.		0
101	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