Fei Ding

List of Publications by Year
in descending order

72 papers	9,099 citations	109137 35 h-index	82410 72 g-index
74 all docs	74 docs citations	74 times ranked	10312 citing authors

#	Article	IF	Citations
1	Room-temperature on-chip orbital angular momentum single-photon sources. Science Advances, 2022, 8, eabk3075.	4.7	46
2	Tungsten Nanoparticles Accelerate Polysulfides Conversion: A Viable Route toward Stable Roomâ€Temperature Sodiumâ€“Sulfur Batteries. Advanced Science, 2022, 9, e2105544.	5.6	18
3	Photoneutralization of charges in GaAs quantum dot based entangled photon emitters. Physical Review B, 2022, 105, .	1.1	1
4	Local droplet etching on InAlAs/InP surfaces with InAl droplets. AIP Advances, 2022, 12, 055302.	0.6	3
5	Statistical limits for entanglement swapping with semiconductor entangled photon sources. Physical Review B, 2022, 105, .	1.1	2
6	Maximally entangled and gigahertz-clocked on-demand photon pair source. Physical Review B, 2021, 103, .	1.1	14
7	Single photon emission from ODT passivated near-surface GaAs quantum dots. Applied Physics Letters, 2021, 118, 221107.	1.5	3
8	A Biomassâ€Based Integral Approach Enables Liâ€S Full Pouch Cells with Exceptional Power Density and Energy Density. Advanced Science, 2021, 8, e2101182.	5.6	21
9	Heralded preparation of spin qubits in droplet-etched GaAs quantum dots using quasiresonant excitation. Physical Review B, 2021, 104, .	1.1	7
10	Monodisperse Molybdenum Nanoparticles as Highly Efficient Electrocatalysts for Li-S Batteries. ACS Nano, 2021, 15, 15047-15056.	7.3	60
11	Experimental optimization of the fiber coupling efficiency of GaAs quantum dot-based photon sources. Applied Physics Letters, 2021, 119, .	1.5	2
12	Highâ€Capacity, Dendriteâ€Free, and Ultrahighâ€Rate Lithiumâ€Metal Anodes Based on Monodisperse Nâ€Doped Hollow Carbon Nanospheres. Small, 2020, 16, e2004770.	5.2	27
13	Nitrogen Doping Improves the Immobilization and Catalytic Effects of Co₉S₈ in Liâ€S Batteries. Advanced Functional Materials, 2020, 30, 2002462.	7.8	86
14	Strain tunable quantum dot based non-classical photon sources. Journal of Semiconductors, 2020, 41, 011901.	2.0	7
15	Quantum dot-based broadband optical antenna for efficient extraction of single photons in the telecom O-band. Optics Express, 2020, 28, 19457.	1.7	16
16	Telecom wavelength single photon sources. Journal of Semiconductors, 2019, 40, 071901.	2.0	51
17	Energy band modulation of GaAs/Al0.26Ga0.74As quantum well in 3D self-assembled nanomembranes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2938-2942.	0.9	2
18	Entanglement Swapping with Semiconductor-Generated Photons Violates Bellâ€™s Inequality. Physical Review Letters, 2019, 123, 160502.	2.9	53

#	Article	IF	Citations
19	Tuning emission energy and fine structure splitting in quantum dots emitting in the telecom O-band. AIP Advances, 2019, 9, .	0.6	7
20	Strain-modulated photoelectric properties of self-rolled GaAs/Al_{0.26}Ga_{0.74}As quantum well nanomembrane. Applied Physics Express, 2019, 12, 065003.	1.1	5
21	Rationally engineered amorphous TiOx/Si/TiOx nanomembrane as an anode material for high energy lithium ion battery. Energy Storage Materials, 2018, 12, 23-29.	9.5	38
22	Entangled-photons generation with quantum dots. Chinese Physics B, 2018, 27, 020307.	0.7	6
23	Frequency feedback for two-photon interference from separate quantum dots. Physical Review B, 2018, 98, .	1.1	19
24	On-demand semiconductor source of 780-nm single photons with controlled temporal wave packets. Physical Review B, 2018, 97, .	1.1	17
25	Highly-efficient extraction of entangled photons from quantum dots using a broadband optical antenna. Nature Communications, 2018, 9, 2994.	5.8	123
26	Independent tuning of excitonic emission energy and decay time in single semiconductor quantum dots. Applied Physics Letters, 2017, 110, .	1.5	10
27	Solid-state ensemble of highly entangled photon sources at rubidium atomic transitions. Nature Communications, 2017, 8, 15501.	5.8	82
28	Addressable and Colorâ€Tunable Piezophotonic Lightâ€Emitting Stripes. Advanced Materials, 2017, 29, 1605165.	11.1	54
29	Tunable Pseudocapacitance in 3D TiO_{2â¯Î´} Nanomembranes Enabling Superior Lithium Storage Performance. ACS Nano, 2017, 11, 821-830.	7.3	124
30	Electric-Field-Induced Energy Tuning of On-Demand Entangled-Photon Emission from Self-Assembled Quantum Dots. Nano Letters, 2017, 17, 501-507.	4.5	21
31	Measurement of the spin temperature of optically cooled nuclei and GaAs hyperfine constants in GaAs/AlGaAs quantum dots. Nature Materials, 2017, 16, 982-986.	13.3	41
32	Temperature-Dependent Coercive Field Measured by a Quantum Dot Strain Gauge. Nano Letters, 2017, 17, 7864-7868.	4.5	9
33	Scalable single crystalline PMN-PT nanobelts sculpted from bulk for energy harvesting. Nano Energy, 2017, 31, 239-246.	8.2	49
34	Polarization Entangled Photons from Semiconductor Quantum Dots. Nano-optics and Nanophotonics, 2017, , 235-266.	0.2	0
35	Controlling the exciton energy of a nanowire quantum dot by strain fields. Applied Physics Letters, 2016, 108, .	1.5	42
36	Monolithically Integrated Microelectromechanical Systems for On-Chip Strain Engineering of Quantum Dots. Nano Letters, 2016, 16, 5785-5791.	4.5	26

#	Article	IF	Citations
37	Vanishing electrongfactor and long-lived nuclear spin polarization in weakly strained nanohole-filled GaAs/AlGaAs quantum dots. Physical Review B, 2016, 93, .	1.1	22
38	Wavelength-tunable entangled photons from silicon-integrated IIIâ€“V quantum dots. Nature Communications, 2016, 7, 10387.	5.8	99
39	Energy-tunable single-photon light-emitting diode by strain fields. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	2
40	An artificial Rb atom in a semiconductor with lifetime-limited linewidth. Physical Review B, 2015, 92, .	1.1	54
41	High yield and ultrafast sources of electrically triggered entangled-photon pairs based on strain-tunable quantum dots. Nature Communications, 2015, 6, 10067.	5.8	106
42	Single Photons On-Demand from Light-Hole Excitons in Strain-Engineered Quantum Dots. Nano Letters, 2015, 15, 422-427.	4.5	28
43	Anomalous anticrossing of neutral exciton states in GaAs/AlGaAs quantum dots. Physical Review B, 2014, 89, .	1.1	17
44	Strain-induced active tuning of the coherent tunneling in quantum dot molecules. Physical Review B, 2014, 89, .	1.1	22
45	Excitons Confined in Single Semiconductor Quantum Rings: Observation and Manipulation of Aharonov-Bohm-Type Oscillations. Nanoscience and Technology, 2014, , 299-328.	1.5	1
46	Hierarchically Designed SiOx/SiOy Bilayer Nanomembranes as Stable Anodes for Lithium Ion Batteries. Advanced Materials, 2014, 26, 4527-4532.	11.1	141
47	A light-hole exciton in a quantum dot. Nature Physics, 2014, 10, 46-51.	6.5	111
48	Mixed salts of LiTFSI and LiBOB for stable LiFePO4-based batteries at elevated temperatures. Journal of Materials Chemistry A, 2014, 2, 2346.	5.2	85
49	Lithium metal anodes for rechargeable batteries. Energy and Environmental Science, 2014, 7, 513-537.	15.6	3,665
50	Dendrite-Free Lithium Deposition via Self-Healing Electrostatic Shield Mechanism. Journal of the American Chemical Society, 2013, 135, 4450-4456.	6.6	1,736
51	A Nanomembrane-Based Wavelength-Tunable High-Speed Single-Photon-Emitting Diode. Nano Letters, 2013, 13, 5808-5813.	4.5	27
52	Vertical microcavities with high<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>and strong lateral mode confinement. Physical Review B, 2013, 87, .	1.1	37
53	Integrated vertical microcavity using a nano-scale deformation for strong lateral confinement. Applied Physics Letters, 2013, 103, .	1.5	15
54	Thinning and functionalization of few-layer graphene sheets by CF4 plasma treatment. Nanoscale Research Letters, 2012, 7, 268.	3.1	24

#	Article	IF	Citations
55	Controlling quantum dot emission by integration of semiconductor nanomembranes onto piezoelectric actuators. Physica Status Solidi (B): Basic Research, 2012, 249, 687-696.	0.7	36
56	Enhanced performance of graphite anode materials by AlF3 coating for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 12745.	6.7	129
57	Dependence of the Redshifted and Blueshifted Photoluminescence Spectra of Single<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>In</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Ga</mml:mi><mml:mi> Strain-induced anticrossing of bright exciton levels in single self-assembled GaAs/Al<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>Ga<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’ Dots on the Applied Uniaxial Stress. Physical Review Letters, 2011, 107, 217402.	2.9	40
58		1.1	76
59	Single Neutral Excitons Confined in AsBr₃ <I>In Situ</I> Etched InGaAs Quantum Rings. Journal of Nanoelectronics and Optoelectronics, 2011, 6, 51-57.	0.1	8
60	Rolled-Up Optical Microcavities with Subwavelength Wall Thicknesses for Enhanced Liquid Sensing Applications. ACS Nano, 2010, 4, 3123-3130.	7.3	100
61	Tuning the Exciton Binding Energies in Single Self-Assembled<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>InGaAs</mml:mi><mml:mo>/</mml:mo><mml:mi>GaAs</mml:mi></mml:math>Quantum Dots by Piezoelectric-Induced Biaxial Stress. Physical Review Letters, 2010, 104, 067405.	2.9	160
62	Gate controlled Aharonov-Bohm-type oscillations from single neutral excitons in quantum rings. Physical Review B, 2010, 82, .	1.1	64
63	Stretchable Graphene: A Close Look at Fundamental Parameters through Biaxial Straining. Nano Letters, 2010, 10, 3453-3458.	4.5	328
64	Microphotoluminescence spectroscopy of single CdTe/ZnTe quantum dots grown on Si(001) substrates. Nanotechnology, 2009, 20, 075705.	1.3	13
65	Optical properties of rolled-up tubular microcavities from shaped nanomembranes. Applied Physics Letters, 2009, 94, .	1.5	60
66	Self-assembled quantum dots with tunable thickness of the wetting layer: Role of vertical confinement on interlevel spacing. Physical Review B, 2009, 80, .	1.1	44
67	Epitaxial quantum dots in stretchable optical microcavities. Optics Express, 2009, 17, 22452.	1.7	41
68	Versatile Approach for Integrative and Functionalized Tubes by Strain Engineering of Nanomembranes on Polymers. Advanced Materials, 2008, 20, 4085-4090.	11.1	608
69	Towards deterministically controlled InGaAs/GaAs lateral quantum dot molecules. New Journal of Physics, 2008, 10, 045010.	1.2	56
70	Study of the wetting layer of InAsâ•GaAs nanorings grown by droplet epitaxy. Applied Physics Letters, 2008, 92, .	1.5	17
71	Carrier channels of multimodal-sized quantum dots: A surface-mediated adatom migration picture. Physical Review B, 2007, 76, .	1.1	16
72	Unveiling the morphology of buried In(Ga)As nanostructures by selective wet chemical etching: From quantum dots to quantum rings. Applied Physics Letters, 2007, 90, 173104.	1.5	18