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	Lithium metal anodes for rechargeable batteries. Energy and Environmental Science, 2014, 7, 513-537.	15.6	3,665
2	Dendrite-Free Lithium Deposition via Self-Healing Electrostatic Shield Mechanism. Journal of the American Chemical Society, 2013, 135, 4450-4456.	6.6	1,736
3	Versatile Approach for Integrative and Functionalized Tubes by Strain Engineering of Nanomembranes on Polymers. Advanced Materials, 2008, 20, 4085-4090.	11.1	608
4	Stretchable Graphene: A Close Look at Fundamental Parameters through Biaxial Straining. Nano Letters, 2010, 10, 3453-3458.	4.5	328
5	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
6	Hierarchically Designed SiOx/SiOy Bilayer Nanomembranes as Stable Anodes for Lithium Ion Batteries. Advanced Materials, 2014, 26, 4527-4532.	11.1	141
7	Enhanced performance of graphite anode materials by AlF3 coating for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 12745.	6.7	129
8	Tunable Pseudocapacitance in 3D TiO_{2â˜Î´} Nanomembranes Enabling Superior Lithium Storage Performance. ACS Nano, 2017, 11, 821-830.	7.3	124
9	Highly-efficient extraction of entangled photons from quantum dots using a broadband optical antenna. Nature Communications, 2018, 9, 2994.	5.8	123
10	A light-hole exciton in a quantum dot. Nature Physics, 2014, 10, 46-51.	6.5	111
11	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
12	Rolled-Up Optical Microcavities with Subwavelength Wall Thicknesses for Enhanced Liquid Sensing Applications. ACS Nano, 2010, 4, 3123-3130.	7.3	100
13	Wavelength-tunable entangled photons from silicon-integrated IIIâ€“V quantum dots. Nature Communications, 2016, 7, 10387.	5.8	99
14	Nitrogen Doping Improves the Immobilization and Catalytic Effects of Co₉S₈ in Liâ€S Batteries. Advanced Functional Materials, 2020, 30, 2002462.	7.8	86
15	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
16	Solid-state ensemble of highly entangled photon sources at rubidium atomic transitions. Nature Communications, 2017, 8, 15501.	5.8	82
17	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	1.1	76
18	Gate controlled Aharonov-Bohm-type oscillations from single neutral excitons in quantum rings. Physical Review B, 2010, 82, .	1.1	64

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19	Optical properties of rolled-up tubular microcavities from shaped nanomembranes. Applied Physics Letters, 2009, 94, .	1.5	60
20	Monodisperse Molybdenum Nanoparticles as Highly Efficient Electrocatalysts for Li-S Batteries. ACS Nano, 2021, 15, 15047-15056.	7.3	60
21	Towards deterministically controlled InGaAs/GaAs lateral quantum dot molecules. New Journal of Physics, 2008, 10, 045010.	1.2	56
22	An artificial Rb atom in a semiconductor with lifetime-limited linewidth. Physical Review B, 2015, 92, .	1.1	54
23	Addressable and Colorâ€Tunable Piezophotonic Lightâ€Emitting Stripes. Advanced Materials, 2017, 29, 1605165.	11.1	54
24	Entanglement Swapping with Semiconductor-Generated Photons Violates Bellâ€™s Inequality. Physical Review Letters, 2019, 123, 160502.	2.9	53
25	Telecom wavelength single photon sources. Journal of Semiconductors, 2019, 40, 071901.	2.0	51
26	Scalable single crystalline PMN-PT nanobelts sculpted from bulk for energy harvesting. Nano Energy, 2017, 31, 239-246.	8.2	49
27	Room-temperature on-chip orbital angular momentum single-photon sources. Science Advances, 2022, 8, eabk3075.	4.7	46
28	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
29	Controlling the exciton energy of a nanowire quantum dot by strain fields. Applied Physics Letters, 2016, 108, .	1.5	42
30	Epitaxial quantum dots in stretchable optical microcavities. Optics Express, 2009, 17, 22452.	1.7	41
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	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:mrov Dots on the Applied Uniaxial Stress. Physical Review Letters, 2011, 107, 217402.	2.9	40
33	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
34	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
35	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
36	Single Photons On-Demand from Light-Hole Excitons in Strain-Engineered Quantum Dots. Nano Letters, 2015, 15, 422-427.	4.5	28

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37	A Nanomembrane-Based Wavelength-Tunable High-Speed Single-Photon-Emitting Diode. Nano Letters, 2013, 13, 5808-5813.	4.5	27
38	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
39	Monolithically Integrated Microelectromechanical Systems for On-Chip Strain Engineering of Quantum Dots. Nano Letters, 2016, 16, 5785-5791.	4.5	26
40	Thinning and functionalization of few-layer graphene sheets by CF4 plasma treatment. Nanoscale Research Letters, 2012, 7, 268.	3.1	24
41	Strain-induced active tuning of the coherent tunneling in quantum dot molecules. Physical Review B, 2014, 89, .	1.1	22
42	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
43	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
44	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
45	Frequency feedback for two-photon interference from separate quantum dots. Physical Review B, 2018, 98, .	1.1	19
46	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
47	Tungsten Nanoparticles Accelerate Polysulfides Conversion: A Viable Route toward Stable Roomâ€Temperature Sodiumâ€“Sulfur Batteries. Advanced Science, 2022, 9, e2105544.	5.6	18
48	Study of the wetting layer of InAsâ•GaAs nanorings grown by droplet epitaxy. Applied Physics Letters, 2008, 92, .	1.5	17
49	Anomalous anticrossing of neutral exciton states in GaAs/AlGaAs quantum dots. Physical Review B, 2014, 89, .	1.1	17
50	On-demand semiconductor source of 780-nm single photons with controlled temporal wave packets. Physical Review B, 2018, 97, .	1.1	17
51	Carrier channels of multimodal-sized quantum dots: A surface-mediated adatom migration picture. Physical Review B, 2007, 76, .	1.1	16
52	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
53	Integrated vertical microcavity using a nano-scale deformation for strong lateral confinement. Applied Physics Letters, 2013, 103, .	1.5	15
54	Maximally entangled and gigahertz-clocked on-demand photon pair source. Physical Review B, 2021, 103, .	1.1	14

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55	Microphotoluminescence spectroscopy of single CdTe/ZnTe quantum dots grown on Si(001) substrates. Nanotechnology, 2009, 20, 075705.	1.3	13
56	Independent tuning of excitonic emission energy and decay time in single semiconductor quantum dots. Applied Physics Letters, 2017, 110, .	1.5	10
57	Temperature-Dependent Coercive Field Measured by a Quantum Dot Strain Gauge. Nano Letters, 2017, 17, 7864-7868.	4.5	9
58	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
59	Tuning emission energy and fine structure splitting in quantum dots emitting in the telecom O-band. AIP Advances, 2019, 9, .	0.6	7
60	Strain tunable quantum dot based non-classical photon sources. Journal of Semiconductors, 2020, 41, 011901.	2.0	7
61	Heralded preparation of spin qubits in droplet-etched GaAs quantum dots using quasiresonant excitation. Physical Review B, 2021, 104, .	1.1	7
62	Entangled-photons generation with quantum dots. Chinese Physics B, 2018, 27, 020307.	0.7	6
63	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
64	Single photon emission from ODT passivated near-surface GaAs quantum dots. Applied Physics Letters, 2021, 118, 221107.	1.5	3
65	Local droplet etching on InAlAs/InP surfaces with InAl droplets. AIP Advances, 2022, 12, 055302.	0.6	3
66	Energy-tunable single-photon light-emitting diode by strain fields. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	2
67	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
68	Experimental optimization of the fiber coupling efficiency of GaAs quantum dot-based photon sources. Applied Physics Letters, 2021, 119, .	1.5	2
69	Statistical limits for entanglement swapping with semiconductor entangled photon sources. Physical Review B, 2022, 105, .	1.1	2
70	Excitons Confined in Single Semiconductor Quantum Rings: Observation and Manipulation of Aharonov-Bohm-Type Oscillations. Nanoscience and Technology, 2014, , 299-328.	1.5	1
71	Photoneutralization of charges in GaAs quantum dot based entangled photon emitters. Physical Review B, 2022, 105, .	1.1	1
72	Polarization Entangled Photons from Semiconductor Quantum Dots. Nano-optics and Nanophotonics, 2017, , 235-266.	0.2	0