

# Fei Ding

## List of Publications by Citations

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114  
papers

6,076  
citations

37  
h-index

77  
g-index

136  
ext. papers

7,354  
ext. citations

7.5  
avg, IF

6.31  
L-index

#	Paper	IF	Citations
114	Ultra-broadband microwave metamaterial absorber. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 103506	3.4	634
113	Versatile Approach for Integrative and Functionalized Tubes by Strain Engineering of Nanomembranes on Polymers. <i>Advanced Materials</i> , <b>2008</b> , 20, 4085-4090	24	537
112	Plasmonic and metamaterial structures as electromagnetic absorbers. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 495-520	8.3	403
111	Broadband high-efficiency half-wave plate: a supercell-based plasmonic metasurface approach. <i>ACS Nano</i> , <b>2015</b> , 9, 4111-9	16.7	311
110	Ultra-broadband terahertz metamaterial absorber. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 021102	3.4	293
109	Stretchable graphene: a close look at fundamental parameters through biaxial straining. <i>Nano Letters</i> , <b>2010</b> , 10, 3453-8	11.5	275
108	Gradient metasurfaces: a review of fundamentals and applications. <i>Reports on Progress in Physics</i> , <b>2018</b> , 81, 026401	14.4	256
107	Broadband near-infrared metamaterial absorbers utilizing highly lossy metals. <i>Scientific Reports</i> , <b>2016</b> , 6, 39445	4.9	175
106	A review of gap-surface plasmon metasurfaces: fundamentals and applications. <i>Nanophotonics</i> , <b>2018</b> , 7, 1129-1156	6.3	155
105	Hierarchically designed SiO <sub>x</sub> /SiO <sub>y</sub> bilayer nanomembranes as stable anodes for lithium ion batteries. <i>Advanced Materials</i> , <b>2014</b> , 26, 4527-32	24	122
104	Enhancement of immunoassay's fluorescence and detection sensitivity using three-dimensional plasmonic nano-antenna-dots array. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 4489-95	7.8	116
103	Vanadium Dioxide Integrated Metasurfaces with Switchable Functionalities at Terahertz Frequencies. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701204	8.1	114
102	Tunable Pseudocapacitance in 3D TiO Nanomembranes Enabling Superior Lithium Storage Performance. <i>ACS Nano</i> , <b>2017</b> , 11, 821-830	16.7	113
101	Active control of anapole states by structuring the phase-change alloy GeSbTe. <i>Nature Communications</i> , <b>2019</b> , 10, 396	17.4	107
100	Bifunctional gap-plasmon metasurfaces for visible light: polarization-controlled unidirectional surface plasmon excitation and beam steering at normal incidence. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 17178	16.7	104
99	Ultrabroadband strong light absorption based on thin multilayered metamaterials. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 946-953	8.3	100
98	MoS <sub>2</sub> nanosheets decorated with gold nanoparticles for rechargeable LiO <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 14562-14566	13	94

97	Highly-efficient extraction of entangled photons from quantum dots using a broadband optical antenna. <i>Nature Communications</i> , <b>2018</b> , 9, 2994	17.4	90
96	High yield and ultrafast sources of electrically triggered entangled-photon pairs based on strain-tunable quantum dots. <i>Nature Communications</i> , <b>2015</b> , 6, 10067	17.4	88
95	Rolled-up optical microcavities with subwavelength wall thicknesses for enhanced liquid sensing applications. <i>ACS Nano</i> , <b>2010</b> , 4, 3123-30	16.7	88
94	Wavelength-tunable entangled photons from silicon-integrated III-V quantum dots. <i>Nature Communications</i> , <b>2016</b> , 7, 10387	17.4	81
93	Dynamic Metasurfaces Using Phase-Change Chalcogenides. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801708	8.1	77
92	Multilayer tungsten-alumina-based broadband light absorbers for high-temperature applications. <i>Optical Materials Express</i> , <b>2016</b> , 6, 2704	2.6	75
91	Beam-Size-Invariant Spectropolarimeters Using Gap-Plasmon Metasurfaces. <i>ACS Photonics</i> , <b>2017</b> , 4, 943-949	6.9	67
90	Solid-state ensemble of highly entangled photon sources at rubidium atomic transitions. <i>Nature Communications</i> , <b>2017</b> , 8, 15501	17.4	65
89	Lithography-free, broadband, omnidirectional, and polarization-insensitive thin optical absorber. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 061108	3.4	57
88	Tungsten based anisotropic metamaterial as an ultra-broadband absorber. <i>Optical Materials Express</i> , <b>2017</b> , 7, 606	2.6	51
87	A Flexible PMN-PT Ribbon-Based Piezoelectric-Pyroelectric Hybrid Generator for Human-Activity Energy Harvesting and Monitoring. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600540	6.4	49
86	Versatile Polarization Generation and Manipulation Using Dielectric Metasurfaces. <i>Laser and Photonics Reviews</i> , <b>2020</b> , 14, 2000116	8.3	49
85	LIGHT ABSORBER WITH AN ULTRA-BROAD FLAT BAND BASED ON MULTI-SIZED SLOW-WAVE HYPERBOLIC METAMATERIAL THIN-FILMS (Invited Paper). <i>Progress in Electromagnetics Research</i> , <b>2014</b> , 147, 69-79	3.8	48
84	Plasmonic nano-arrays for ultrasensitive bio-sensing. <i>Nanophotonics</i> , <b>2018</b> , 7, 1517-1531	6.3	47
83	Nitrogen Doping Improves the Immobilization and Catalytic Effects of Co <sub>9</sub> S <sub>8</sub> in Li-S Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002462	15.6	46
82	Addressable and Color-Tunable Piezophotonic Light-Emitting Stripes. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605145	16.5	44
81	An artificial Rb atom in a semiconductor with lifetime-limited linewidth. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	43
80	Self-assembled quantum dots with tunable thickness of the wetting layer: Role of vertical confinement on interlevel spacing. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	40

79	Scalable single crystalline PMN-PT nanobelts sculpted from bulk for energy harvesting. <i>Nano Energy</i> , <b>2017</b> , 31, 239-246	17.1	39
78	Epitaxial quantum dots in stretchable optical microcavities. <i>Optics Express</i> , <b>2009</b> , 17, 22452-61	3.3	37
77	Metasurface-Enabled Generation of Circularly Polarized Single Photons. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907832	24	36
76	Random-phase metasurfaces at optical wavelengths. <i>Scientific Reports</i> , <b>2016</b> , 6, 28448	4.9	36
75	Controlling the exciton energy of a nanowire quantum dot by strain fields. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 182103	3.4	36
74	Switchable multifunctional terahertz metasurfaces employing vanadium dioxide. <i>Scientific Reports</i> , <b>2019</b> , 9, 5454	4.9	35
73	Entanglement Swapping with Semiconductor-Generated Photons Violates Bell's Inequality. <i>Physical Review Letters</i> , <b>2019</b> , 123, 160502	7.4	35
72	Gap-Surface Plasmon Metasurfaces for Broadband Circular-to-Linear Polarization Conversion and Vector Vortex Beam Generation. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801414	8.1	32
71	High-efficiency broadband vortex beam generator based on transmissive metasurface. <i>Optics Express</i> , <b>2019</b> , 27, 4281-4291	3.3	30
70	Rationally engineered amorphous TiO <sub>x</sub> /Si/TiO <sub>x</sub> nanomembrane as an anode material for high energy lithium ion battery. <i>Energy Storage Materials</i> , <b>2018</b> , 12, 23-29	19.4	29
69	Gap-surface plasmon metasurfaces for linear-polarization conversion, focusing, and beam splitting. <i>Photonics Research</i> , <b>2020</b> , 8, 707	6	29
68	Focused vortex-beam generation using gap-surface plasmon metasurfaces. <i>Nanophotonics</i> , <b>2020</b> , 9, 371-378	6.3	28
67	Vertical microcavities with high Q and strong lateral mode confinement. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	27
66	A Review of Unidirectional Surface Plasmon Polariton Metacouplers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2019</b> , 25, 1-11	3.8	26
65	Direct Characterization of Near-Field Coupling in Gap Plasmon-Based Metasurfaces. <i>Nano Letters</i> , <b>2018</b> , 18, 6265-6270	11.5	26
64	A nanomembrane-based wavelength-tunable high-speed single-photon-emitting diode. <i>Nano Letters</i> , <b>2013</b> , 13, 5808-13	11.5	24
63	Dynamic piezoelectric MEMS-based optical metasurfaces. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	24
62	Single photons on-demand from light-hole excitons in strain-engineered quantum dots. <i>Nano Letters</i> , <b>2015</b> , 15, 422-7	11.5	23

61	Metasurface-Based Polarimeters. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 594	2.6	23
60	Optical Gap-Surface Plasmon Metasurfaces for Spin-Controlled Surface Plasmon Excitation and Anomalous Beam Steering. <i>ACS Photonics</i> , <b>2020</b> , 7, 1849-1856	6.3	21
59	TERAHERTZ METAMATERIAL MODULATORS BASED ON ABSORPTION. <i>Progress in Electromagnetics Research</i> , <b>2011</b> , 119, 449-460	3.8	21
58	Metasurface-enabled broadband beam splitters integrated with quarter-wave plate functionality. <i>Nanoscale</i> , <b>2020</b> , 12, 14106-14111	7.7	20
57	Monolithically Integrated Microelectromechanical Systems for On-Chip Strain Engineering of Quantum Dots. <i>Nano Letters</i> , <b>2016</b> , 16, 5785-91	11.5	20
56	Telecom wavelength single photon sources. <i>Journal of Semiconductors</i> , <b>2019</b> , 40, 071901	2.3	20
55	Thinning and functionalization of few-layer graphene sheets by CF4 plasma treatment. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 268	5	20
54	Electric-Field-Induced Energy Tuning of On-Demand Entangled-Photon Emission from Self-Assembled Quantum Dots. <i>Nano Letters</i> , <b>2017</b> , 17, 501-507	11.5	17
53	Unveiling the morphology of buried In(Ga)As nanostructures by selective wet chemical etching: From quantum dots to quantum rings. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 173104	3.4	17
52	Carrier channels of multimodal-sized quantum dots: A surface-mediated adatom migration picture. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	16
51	Frequency feedback for two-photon interference from separate quantum dots. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	16
50	Ultrabroadband super-Planckian radiative heat transfer with artificial continuum cavity states in patterned hyperbolic metamaterials. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	14
49	Multifunctional Metamirrors for Broadband Focused Vector-Beam Generation. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900724	8.1	14
48	Recent Advances in Polarization-Encoded Optical Metasurfaces. <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2000173	1.9	13
47	Dual-Band Metasurfaces Using Multiple Gap-Surface Plasmon Resonances. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 1250-1256	9.5	12
46	High-Capacity, Dendrite-Free, and Ultrahigh-Rate Lithium-Metal Anodes Based on Monodisperse N-Doped Hollow Carbon Nanospheres. <i>Small</i> , <b>2020</b> , 16, e2004770	11	12
45	SpinOrbit Controlled Excitation of Quantum Emitters in Hybrid Plasmonic Nanocircuits. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000854	8.1	12
44	Deterministic Approach to Achieve Full-Polarization Cloak. <i>Research</i> , <b>2021</b> , 2021, 6382172	7.8	12

43	Bendable, ultra-black absorber based on a graphite nanocone nanowire composite structure. <i>Optics Express</i> , <b>2015</b> , 23, 20115-23	3.3	11
42	Integrated vertical microcavity using a nano-scale deformation for strong lateral confinement. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 243305	3.4	11
41	Significantly enhanced second-harmonic generations with all-dielectric antenna array working in the quasi-bound states in the continuum and excited by linearly polarized plane waves. <i>Nanophotonics</i> , <b>2021</b> , 10, 1189-1196	6.3	11
40	On-Chip Spectropolarimetry by Fingerprinting with Random Surface Arrays of Nanoparticles. <i>ACS Photonics</i> , <b>2018</b> , 5, 1703-1710	6.3	10
39	On-demand semiconductor source of 780-nm single photons with controlled temporal wave packets. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	10
38	Detection of internal fields in double-metal terahertz resonators. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 061109	3.1	9
37	Confined Growth of ZIF-8 Nanocrystals with Tunable Structural Colors. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701270	4.6	9
36	Room-temperature on-chip orbital angular momentum single-photon sources.. <i>Science Advances</i> , <b>2022</b> , 8, eabk3075	14.3	8
35	Polarization-selective dual-wavelength gap-surface plasmon metasurfaces. <i>Optics Express</i> , <b>2018</b> , 26, 23760-23769	3.9	8
34	Full-range birefringence control with piezoelectric MEMS-based metasurfaces.. <i>Nature Communications</i> , <b>2022</b> , 13, 2071	17.4	8
33	Large-area, lithography-free, low-cost SERS sensor with good flexibility and high performance. <i>Nanotechnology</i> , <b>2016</b> , 27, 385205	3.4	7
32	A Biomass-Based Integral Approach Enables Li-S Full Pouch Cells with Exceptional Power Density and Energy Density. <i>Advanced Science</i> , <b>2021</b> , 8, e2101182	13.6	7
31	Band-Emission Evolutions from Magic-sized Clusters to Nanosized Quantum Dots of Cd <sub>3</sub> As <sub>2</sub> in the Hot-Bubbling Synthesis. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 16390-16395	3.8	6
30	Quantum dot-based broadband optical antenna for efficient extraction of single photons in the telecom O-band. <i>Optics Express</i> , <b>2020</b> , 28, 19457-19468	3.3	6
29	Demonstration of > 2 $\pi$ reflection phase range in optical metasurfaces based on detuned gap-surface plasmon resonators. <i>Scientific Reports</i> , <b>2020</b> , 10, 19031	4.9	6
28	Fundamentals and applications of spin-decoupled Pancharatnam-Berry metasurfaces. <i>Frontiers of Optoelectronics</i> , <b>2021</b> , 14, 134-147	2.8	6
27	Strain tunable quantum dot based non-classical photon sources. <i>Journal of Semiconductors</i> , <b>2020</b> , 41, 011901	2.3	5
26	Temperature-Dependent Coercive Field Measured by a Quantum Dot Strain Gauge. <i>Nano Letters</i> , <b>2017</b> , 17, 7864-7868	11.5	5

25	Functional Metasurface Quarter-Wave Plates for Simultaneous Polarization Conversion and Beam Steering. <i>ACS Nano</i> , <b>2021</b> ,	16.7	5
24	High-efficiency focused optical vortex generation with geometric gap-surface plasmon metalenses. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 011103	3.4	5
23	Dual-Functional Optical Waveplates Based on Gap-Surface Plasmon Metasurfaces. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2002253	8.1	5
22	Directional off-Normal Photon Streaming from Hybrid Plasmon-Emitter Coupled Metasurfaces. <i>ACS Photonics</i> , <b>2020</b> , 7, 1111-1116	6.3	5
21	Strain-modulated photoelectric properties of self-rolled GaAs/Al <sub>0.26</sub> Ga <sub>0.74</sub> As quantum well nanomembrane. <i>Applied Physics Express</i> , <b>2019</b> , 12, 065003	2.4	4
20	Electrical Tuning of Fresnel Lens in Reflection. <i>ACS Photonics</i> , <b>2021</b> , 8, 1576-1581	6.3	4
19	Ultra-broadband microwave metasurfaces for polarizer and beam splitting. <i>Europhysics Letters</i> , <b>2019</b> , 128, 47003	1.6	4
18	Angle-insensitive narrowband optical absorption based on high-Q localized resonance. <i>Scientific Reports</i> , <b>2018</b> , 8, 15240	4.9	4
17	Spectrally selective emitters based on 3D Mo nanopillars for thermophotovoltaic energy harvesting. <i>Materials Today Physics</i> , <b>2021</b> , 21, 100503	8	4
16	Maximally entangled and gigahertz-clocked on-demand photon pair source. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	3
15	Entangled-photons generation with quantum dots. <i>Chinese Physics B</i> , <b>2018</b> , 27, 020307	1.2	2
14	Energy-tunable single-photon light-emitting diode by strain fields. <i>Applied Physics B: Lasers and Optics</i> , <b>2016</b> , 122, 1	1.9	2
13	Phase-change metasurface for switchable vector vortex beam generation. <i>Optics Express</i> , <b>2021</b> , 29, 427623	3.3	2
12	Ultra-broadband near-infrared metamaterial absorber <b>2012</b> ,		2
11	Plasmon Metasurfaces: Gap-Surface Plasmon Metasurfaces for Broadband Circular-to-Linear Polarization Conversion and Vector Vortex Beam Generation (Advanced Optical Materials 9/2019). <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1970033	8.1	1
10	Patterning of graphite nanocones for broadband solar spectrum absorption. <i>AIP Advances</i> , <b>2015</b> , 5, 067139	1.9	1
9	Energy band modulation of GaAs/Al <sub>0.26</sub> Ga <sub>0.74</sub> As quantum well in 3D self-assembled nanomembranes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2019</b> , 383, 2938-2942	2.3	1
8	Helicity-dependent continuous varifocal metalens based on bilayer dielectric metasurfaces. <i>Optics Express</i> , <b>2021</b> , 29, 39461-39472	3.3	1

7	Near-field phase characterization of gradient gap plasmon-based metasurfaces <b>2018</b> ,		1
6	Upconversion photoluminescence of epitaxial Yb <sup>3+</sup> /Er <sup>3+</sup> codoped ferroelectric Pb(Zr,Ti)O <sub>3</sub> films on silicon substrates. <i>Thin Solid Films</i> , <b>2016</b> , 607, 32-35	2.2	1
5	Heralded preparation of spin qubits in droplet-etched GaAs quantum dots using quasiresonant excitation. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
4	Multifunctional all-dielectric metasurface quarter-wave plates for polarization conversion and wavefront shaping.. <i>Optics Letters</i> , <b>2022</b> , 47, 2478-2481	3	1
3	Single photon emission from ODT passivated near-surface GaAs quantum dots. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 221107	3.4	0
2	Quantum Hybrid Plasmonic Nanocircuits for Versatile Polarized Photon Generation. <i>Advanced Optical Materials</i> , 2101596	8.1	
1	Polarization Entangled Photons from Semiconductor Quantum Dots. <i>Nano-optics and Nanophotonics</i> , <b>2017</b> , 235-266	0	