

Xi-Feng Ren

List of Publications by Year in descending order

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102
papers

2,854
citations

172457

29
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189892

50
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103
all docs

103
docs citations

103
times ranked

3434
citing authors

#	ARTICLE	IF	CITATIONS
1	Metalens-array-based high-dimensional and multiphoton quantum source. <i>Science</i> , 2020, 368, 1487-1490.	12.6	239
2	Second harmonic generation in nano-structured thin-film lithium niobate waveguides. <i>Optics Express</i> , 2017, 25, 6963.	3.4	177
3	Ordering of Disordered Nanowires: Spontaneous Formation of Highly Aligned, Ultralong Ag Nanowire Films at Oil-Water-Air Interface. <i>Advanced Functional Materials</i> , 2010, 20, 958-964.	14.9	139
4	Metasurface-assisted phase-matching-free second harmonic generation in lithium niobate waveguides. <i>Nature Communications</i> , 2017, 8, 2098.	12.8	137
5	Experimental Teleportation of a Quantum Controlled-NOT Gate. <i>Physical Review Letters</i> , 2004, 93, 240501.	7.8	122
6	Quantum plasmonics: new opportunity in fundamental and applied photonics. <i>Advances in Optics and Photonics</i> , 2018, 10, 703.	25.5	105
7	On-chip coherent conversion of photonic quantum entanglement between different degrees of freedom. <i>Nature Communications</i> , 2016, 7, 11985.	12.8	97
8	Ordering Ag nanowire arrays by a glass capillary: A portable, reusable and durable SERS substrate. <i>Scientific Reports</i> , 2012, 2, 987.	3.3	93
9	Transmission of Photonic Quantum Polarization Entanglement in a Nanoscale Hybrid Plasmonic Waveguide. <i>Nano Letters</i> , 2015, 15, 2380-2384.	9.1	88
10	Silver nanowires for photonics applications. <i>Laser and Photonics Reviews</i> , 2013, 7, 901-919.	8.7	87
11	Topologically Protected Valley-Dependent Quantum Photonic Circuits. <i>Physical Review Letters</i> , 2021, 126, 230503.	7.8	78
12	Macroscopic-Scale Alignment of Ultralong Ag Nanowires in Polymer Nanofiber Mat and Their Hierarchical Structures by Magnetic-Field-Assisted Electrospinning. <i>Small</i> , 2012, 8, 2936-2940.	10.0	70
13	One-Pot Colloidal Chemistry Route to Homogeneous and Doped Colloidosomes. <i>Journal of the American Chemical Society</i> , 2013, 135, 12928-12931.	13.7	60
14	Demonstration of one-dimensional quantum random walks using orbital angular momentum of photons. <i>Physical Review A</i> , 2007, 75, .	2.5	55
15	Coupling of light from an optical fiber taper into silver nanowires. <i>Applied Physics Letters</i> , 2009, 95, 221109.	3.3	54
16	High-Visibility On-Chip Quantum Interference of Single Surface Plasmons. <i>Physical Review Applied</i> , 2014, 2, .	3.8	52
17	Strongly Enhanced Second Harmonic Generation in a Thin Film Lithium Niobate Heterostructure Cavity. <i>Physical Review Letters</i> , 2021, 127, 153901.	7.8	48
18	Detecting orbital angular momentum through division-of-amplitude interference with a circular plasmonic lens. <i>Scientific Reports</i> , 2013, 3, 2402.	3.3	47

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19	Generation of multiphoton quantum states on silicon. <i>Light: Science and Applications</i> , 2019, 8, 41.	16.6	41
20	On-chip transverse-mode entangled photon pair source. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	41
21	Experimental Entanglement Distillation of Two-Qubit Mixed States under Local Operations. <i>Physical Review Letters</i> , 2006, 96, 220505.	7.8	39
22	Ordered Nanostructure Enhances Electrocatalytic Performance by Directional Micro-Electric Field. <i>Journal of the American Chemical Society</i> , 2019, 141, 10729-10735.	13.7	38
23	On-chip generation and control of the vortex beam. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	37
24	On-Chip Multiplexed Multiple Entanglement Sources in a Single Silicon Nanowire. <i>Physical Review Applied</i> , 2017, 7, .	3.8	37
25	In-line high efficient fiber polarizer based on surface plasmon. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	35
26	Progress on Integrated Quantum Photonic Sources with Silicon. <i>Advanced Quantum Technologies</i> , 2020, 3, 1900058.	3.9	34
27	Complete Bell-states analysis using hyper-entanglement. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 343, 8-11.	2.1	32
28	Encoding photonic angular momentum information onto surface plasmon polaritons with plasmonic lens. <i>Optics Express</i> , 2012, 20, 24151.	3.4	31
29	Broadband opto-mechanical phase shifter for photonic integrated circuits. <i>Applied Physics Letters</i> , 2012, 101, 071114.	3.3	30
30	The orbital angular momentum of down-converted photons. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, 243-247.	1.4	28
31	Quantum plasmonic NOON state in a silver nanowire and its use for quantum sensing. <i>Optica</i> , 2018, 5, 1229.	9.3	27
32	Supercompact Photonic Quantum Logic Gate on a Silicon Chip. <i>Physical Review Letters</i> , 2021, 126, 130501.	7.8	25
33	Movable Fiber-Integrated Hybrid Plasmonic Waveguide on Metal Film. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 434-436.	2.5	23
34	Effects of gap thickness and emitter location on the photoluminescence enhancement of monolayer MoS ₂ in a plasmonic nanoparticle-film coupled system. <i>Nanophotonics</i> , 2020, 9, 2097-2105.	6.0	23
35	Exciton-plasmon-photon conversion in silver nanowire: Polarization dependence. <i>Applied Physics Letters</i> , 2011, 99, 061103.	3.3	22
36	Quantum bus of metal nanoring with surface plasmon polaritons. <i>Physical Review B</i> , 2010, 82, .	3.2	21

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37	All-optical modulation of quantum states by nonlinear metasurface. <i>Light: Science and Applications</i> , 2022, 11, 58.	16.6	21
38	Experimental realization of direct characterization of quantum dynamics. <i>Physical Review A</i> , 2007, 75, .	2.5	20
39	Interference of surface plasmon polaritons from a "point" source. <i>Applied Physics Letters</i> , 2011, 98, 201113.	3.3	20
40	Femtosecond laser direct writing of an integrated path-encoded CNOT quantum gate. <i>Optical Materials Express</i> , 2019, 9, 2318.	3.0	20
41	Entanglement of the Hermite "Gaussian modes states of photons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 341, 81-86.	2.1	19
42	Integrated polarization rotator/converter by stimulated Raman adiabatic passage. <i>Optics Express</i> , 2013, 21, 17097.	3.4	19
43	Spatial mode properties of plasmon-assisted transmission. <i>Optics Letters</i> , 2006, 31, 2792.	3.3	18
44	On-Chip Polarization Rotators. <i>Advanced Optical Materials</i> , 2019, 7, 1900129.	7.3	18
45	On-chip path encoded photonic quantum Toffoli gate. <i>Photonics Research</i> , 2022, 10, 1533.	7.0	18
46	Photoluminescence quenching and enhancement of CdSe/PMMA composite on Au colloids. <i>Chemical Physics Letters</i> , 2010, 492, 71-76.	2.6	16
47	Doubly and Triply Coupled Nanowire Antennas. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23779-23784.	3.1	16
48	Radial Nanowire Assemblies under Rotating Magnetic Field Enabled Efficient Charge Separation. <i>Nano Letters</i> , 2020, 20, 2763-2769.	9.1	16
49	Generation of a frequency-degenerate four-photon entangled state using a silicon nanowire. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	15
50	Experimental entanglement quantification and verification via uncertainty relations. <i>Europhysics Letters</i> , 2007, 78, 40002.	2.0	13
51	Influence of unsymmetrical periodicity on extraordinary transmission through periodic arrays of subwavelength holes. <i>Applied Physics Letters</i> , 2007, 90, 161112.	3.3	13
52	Transmission of doughnut light through a bull's eye structure. <i>Applied Physics Letters</i> , 2009, 95, 111111.	3.3	13
53	The origin of interferometric effect involving surface plasmon polariton in scattering near-field scanning optical microscopy. <i>Optics Express</i> , 2014, 22, 2965.	3.4	13
54	Enhancement of second-harmonic generation based on the cascaded second- and third-order nonlinear processes in a multimode optical microcavity. <i>Physical Review A</i> , 2018, 98, .	2.5	13

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55	Tight-binding model in optical waveguides: Design principle and transferability for simulation of complex photonics networks. <i>Physical Review A</i> , 2021, 104, .	2.5	12
56	Temperature and Excitation Wavelength Dependence of Surface-Plasmon-Mediated Emission from CdSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18435-18438.	3.1	11
57	Broadband Plasmonic Absorber for Photonic Integrated Circuits. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1726-1729.	2.5	11
58	Gap plasmon-enhanced photoluminescence of monolayer MoS ₂ in hybrid nanostructure. <i>Chinese Physics B</i> , 2018, 27, 047302.	1.4	11
59	Enhanced absorption microscopy with correlated photon pairs. <i>Physical Review A</i> , 2018, 98, .	2.5	11
60	Improving the luminescence enhancement of hybrid Au nanoparticle-monolayer MoS ₂ by focusing radially-polarized beams. <i>Optics Express</i> , 2016, 24, 27554.	3.4	10
61	Femtosecond Laser Direct Writing of Integrated Photonic Quantum Chips for Generating Path-Encoded Bell States. <i>Micromachines</i> , 2020, 11, 1111.	2.9	10
62	Polarization Independent Quantum Devices With Ultra-Low Birefringence Glass Waveguides. <i>Journal of Lightwave Technology</i> , 2021, 39, 1451-1457.	4.6	10
63	Double Ag Nanowires on a Bilayer MoS ₂ Flake for Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1940-1946.	3.1	10
64	On-chip generation of the reconfigurable orbital angular momentum with high order. <i>Optics Express</i> , 2020, 28, 17957.	3.4	10
65	Transverse Mode-Encoded Quantum Gate on a Silicon Photonic Chip. <i>Physical Review Letters</i> , 2022, 128, 060501.	7.8	10
66	Observation of two-photon coherence in plasmon-assisted transmission. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 361, 218-222.	2.1	9
67	Linear optical implementation of perfect discrimination between single-bit unitary operations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 195501.	1.5	9
68	Excitation and analyzation of different surface plasmon modes on a suspended Ag nanowire. <i>Nanoscale</i> , 2019, 11, 22475-22481.	5.6	9
69	Near-field modulation of single photon emitter with a plasmonic probe. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	9
70	Excitation of surface plasmons in a single silver nanowire using higher-order-mode light. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1751-1754.	2.7	7
71	Single-Photon Nonreciprocity with an Integrated Magneto-Optical Isolator. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	7
72	UV-NIR femtosecond laser hybrid lithography for efficient printing of complex on-chip waveguides. <i>Optics Letters</i> , 2020, 45, 1862.	3.3	6

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73	Removal of surface plasmon polariton eigenmodes degeneracy. Applied Physics B: Lasers and Optics, 2007, 89, 257-260.	2.2	5
74	Remote control of extraordinary transmission through subwavelength hole arrays. Europhysics Letters, 2008, 84, 30005.	2.0	5
75	Independently analyzing different surface plasmon polariton modes on silver nanowire. Optics Express, 2014, 22, 23372.	3.4	5
76	Broadband frequency conversion and π -area law in tapered waveguides. OSA Continuum, 2018, 1, 1349.	1.8	5
77	Dynamically controlled nanofocusing metalens based on graphene-loaded aperiodic silica grating arrays. Optics Express, 2022, 30, 5304.	3.4	5
78	Polarization-dependent Bloch oscillations in optical waveguides. Optics Letters, 2022, 47, 617.	3.3	5
79	Multigrating design for integrated single-atom trapping, manipulation, and readout. Physical Review A, 2022, 105, .	2.5	5
80	Efficient coupling between dielectric waveguide modes and exterior plasmon whispering gallery modes. Optics Express, 2013, 21, 31253.	3.4	4
81	Waveguide Mode Splitter Based on Multi-mode Dielectric-Loaded Surface Plasmon Polariton Waveguide. Chinese Physics Letters, 2015, 32, 107305.	3.3	4
82	Near-Field Modulation of Differently Oriented Single Photon Emitters with A Plasmonic Probe. Nano Letters, 2022, 22, 2244-2250.	9.1	4
83	Linear optical implementation of a quantum network for quantum estimation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 106-109.	2.1	3
84	Optoelectronic properties of bottom gate-defined in-plane monolayer WSe_2 p-n junction. Chinese Physics B, 2018, 27, 087303.	1.4	3
85	Reconfigurable vortex beam generator based on the Fourier transformation principle. Optics Express, 2018, 26, 31880.	3.4	3
86	Manipulating quantum states with aspheric lenses. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 344, 346-350.	2.1	2
87	Plasmon assisted transmission of single photon wavepacket. Metamaterials, 2007, 1, 106-109.	2.2	2
88	Interference of surface plasmon polaritons controlled by the phase of incident light. Applied Physics Letters, 2008, 92, 171106.	3.3	2
89	Collecting quantum dot fluorescence with a hybrid plasmonic probe. OSA Continuum, 2019, 2, 881.	1.8	2
90	The influence of single layer MoS_2 flake on the propagated surface plasmons of silver nanowire. Nanotechnology, 2022, 33, 155401.	2.6	2

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91	Experimental investigation of quantum plasmonics in subwavelength waveguide. , 2017, , .		1
92	Quantum plasmonics: new opportunity in fundamental and applied photonics: publisher's note. Advances in Optics and Photonics, 2018, 10, 939.	25.5	1
93	Entanglement witness measurement for two-qubit states by optical interference. Europhysics Letters, 2008, 82, 60003.	2.0	0
94	The origin of interferometric effect in scattering near-field scanning optical microscopy (presentation video). Proceedings of SPIE, 2014, , .	0.8	0
95	High visibility on-chip quantum interference of single surface plasmons. , 2015, , .		0
96	Propagation of quantum signal in plasmonic waveguides. , 2015, , .		0
97	Quasi-phase matching in periodically-grooved thin-film lithium niobate waveguides. , 2016, , .		0
98	On-chip coherent conversion of quantum entanglement. , 2017, , .		0
99	Integrated Lithium Niobate Platform for Nonlinear Optics and Electro-Optic Applications. , 2017, , .		0
100	On-chip coherent conversion of photonic quantum entanglement between different degrees of freedom. , 2017, , .		0
101	Generation of multiphoton entangled quantum states in a single silicon nanowire. , 2018, , .		0
102	Quantum Entanglement of Surface Plasmons. , 2018, , .		0