

Xi-Feng Ren

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/746300/publications.pdf>

Version: 2024-02-01

102
papers

2,854
citations

172457

29
h-index

189892

50
g-index

103
all docs

103
docs citations

103
times ranked

3434
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of single layer MoS ₂ flake on the propagated surface plasmons of silver nanowire. Nanotechnology, 2022, 33, 155401.	2.6	2
2	Dynamically controlled nanofocusing metalens based on graphene-loaded aperiodic silica grating arrays. Optics Express, 2022, 30, 5304.	3.4	5
3	Polarization-dependent Bloch oscillations in optical waveguides. Optics Letters, 2022, 47, 617.	3.3	5
4	Transverse Mode-Encoded Quantum Gate on a Silicon Photonic Chip. Physical Review Letters, 2022, 128, 060501.	7.8	10
5	Near-Field Modulation of Differently Oriented Single Photon Emitters with A Plasmonic Probe. Nano Letters, 2022, 22, 2244-2250.	9.1	4
6	Single-Photon Nonreciprocity with an Integrated Magneto-Optical Isolator. Laser and Photonics Reviews, 2022, 16, .	8.7	7
7	All-optical modulation of quantum states by nonlinear metasurface. Light: Science and Applications, 2022, 11, 58.	16.6	21
8	On-chip path encoded photonic quantum Toffoli gate. Photonics Research, 2022, 10, 1533.	7.0	18
9	Multigrating design for integrated single-atom trapping, manipulation, and readout. Physical Review A, 2022, 105, .	2.5	5
10	Polarization Independent Quantum Devices With Ultra-Low Birefringence Glass Waveguides. Journal of Lightwave Technology, 2021, 39, 1451-1457.	4.6	10
11	Double Ag Nanowires on a Bilayer MoS ₂ Flake for Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2021, 125, 1940-1946.	3.1	10
12	Supercompact Photonic Quantum Logic Gate on a Silicon Chip. Physical Review Letters, 2021, 126, 130501.	7.8	25
13	Near-field modulation of single photon emitter with a plasmonic probe. Applied Physics Letters, 2021, 118, .	3.3	9
14	Topologically Protected Valley-Dependent Quantum Photonic Circuits. Physical Review Letters, 2021, 126, 230503.	7.8	78
15	Tight-binding model in optical waveguides: Design principle and transferability for simulation of complex photonics networks. Physical Review A, 2021, 104, .	2.5	12
16	Strongly Enhanced Second Harmonic Generation in a Thin Film Lithium Niobate Heterostructure Cavity. Physical Review Letters, 2021, 127, 153901.	7.8	48
17	Progress on Integrated Quantum Photonic Sources with Silicon. Advanced Quantum Technologies, 2020, 3, 1900058.	3.9	34
18	Femtosecond Laser Direct Writing of Integrated Photonic Quantum Chips for Generating Path-Encoded Bell States. Micromachines, 2020, 11, 1111.	2.9	10

#	ARTICLE	IF	CITATIONS
19	Radial Nanowire Assemblies under Rotating Magnetic Field Enabled Efficient Charge Separation. Nano Letters, 2020, 20, 2763-2769.	9.1	16
20	Metalens-array-based high-dimensional and multiphoton quantum source. Science, 2020, 368, 1487-1490.	12.6	239
21	On-chip generation of the reconfigurable orbital angular momentum with high order. Optics Express, 2020, 28, 17957.	3.4	10
22	Effects of gap thickness and emitter location on the photoluminescence enhancement of monolayer MoS ₂ in a plasmonic nanoparticle-film coupled system. Nanophotonics, 2020, 9, 2097-2105.	6.0	23
23	UV-NIR femtosecond laser hybrid lithography for efficient printing of complex on-chip waveguides. Optics Letters, 2020, 45, 1862.	3.3	6
24	Generation of a frequency-degenerate four-photon entangled state using a silicon nanowire. Npj Quantum Information, 2019, 5, .	6.7	15
25	Ordered Nanostructure Enhances Electrocatalytic Performance by Directional Micro-Electric Field. Journal of the American Chemical Society, 2019, 141, 10729-10735.	13.7	38
26	Generation of multiphoton quantum states on silicon. Light: Science and Applications, 2019, 8, 41.	16.6	41
27	On-Chip Polarization Rotators. Advanced Optical Materials, 2019, 7, 1900129.	7.3	18
28	Excitation and analyzation of different surface plasmon modes on a suspended Ag nanowire. Nanoscale, 2019, 11, 22475-22481.	5.6	9
29	On-chip transverse-mode entangled photon pair source. Npj Quantum Information, 2019, 5, .	6.7	41
30	Femtosecond laser direct writing of an integrated path-encoded CNOT quantum gate. Optical Materials Express, 2019, 9, 2318.	3.0	20
31	Collecting quantum dot fluorescence with a hybrid plasmonic probe. OSA Continuum, 2019, 2, 881.	1.8	2
32	Gap plasmon-enhanced photoluminescence of monolayer MoS ₂ in hybrid nanostructure. Chinese Physics B, 2018, 27, 047302.	1.4	11
33	Enhancement of second-harmonic generation based on the cascaded second- and third-order nonlinear processes in a multimode optical microcavity. Physical Review A, 2018, 98, .	2.5	13
34	Enhanced absorption microscopy with correlated photon pairs. Physical Review A, 2018, 98, .	2.5	11
35	Optoelectronic properties of bottom gate-defined in-plane monolayer WSe ₂ p-n junction. Chinese Physics B, 2018, 27, 087303.	1.4	3
36	Quantum plasmonics: new opportunity in fundamental and applied photonics. Advances in Optics and Photonics, 2018, 10, 703.	25.5	105

#	ARTICLE	IF	CITATIONS
37	Quantum plasmonic NOON state in a silver nanowire and its use for quantum sensing. <i>Optica</i> , 2018, 5, 1229.	9.3	27
38	Broadband frequency conversion and β -area law in tapered waveguides. <i>OSA Continuum</i> , 2018, 1, 1349.	1.8	5
39	Generation of multiphoton entangled quantum states in a single silicon nanowire. , 2018, , .		0
40	Quantum Entanglement of Surface Plasmons. , 2018, , .		0
41	Reconfigurable vortex beam generator based on the Fourier transformation principle. <i>Optics Express</i> , 2018, 26, 31880.	3.4	3
42	Quantum plasmonics: new opportunity in fundamental and applied photonics: publisher's note. <i>Advances in Optics and Photonics</i> , 2018, 10, 939.	25.5	1
43	On-Chip Multiplexed Multiple Entanglement Sources in a Single Silicon Nanowire. <i>Physical Review Applied</i> , 2017, 7, .	3.8	37
44	Metasurface-assisted phase-matching-free second harmonic generation in lithium niobate waveguides. <i>Nature Communications</i> , 2017, 8, 2098.	12.8	137
45	On-chip coherent conversion of quantum entanglement. , 2017, , .		0
46	Second harmonic generation in nano-structured thin-film lithium niobate waveguides. <i>Optics Express</i> , 2017, 25, 6963.	3.4	177
47	Integrated Lithium Niobate Platform for Nonlinear Optics and Electro-Optic Applications. , 2017, , .		0
48	Experimental investigation of quantum plasmonics in subwavelength waveguide. , 2017, , .		1
49	On-chip coherent conversion of photonic quantum entanglement between different degrees of freedom. , 2017, , .		0
50	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
51	On-chip coherent conversion of photonic quantum entanglement between different degrees of freedom. <i>Nature Communications</i> , 2016, 7, 11985.	12.8	97
52	On-chip generation and control of the vortex beam. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	37
53	Quasi-phase matching in periodically-grooved thin-film lithium niobate waveguides. , 2016, , .		0
54	Waveguide Mode Splitter Based on Multi-mode Dielectric-Loaded Surface Plasmon Polariton Waveguide. <i>Chinese Physics Letters</i> , 2015, 32, 107305.	3.3	4

#	ARTICLE	IF	CITATIONS
55	High visibility on-chip quantum interference of single surface plasmons. , 2015, , .		0
56	Transmission of Photonic Quantum Polarization Entanglement in a Nanoscale Hybrid Plasmonic Waveguide. Nano Letters, 2015, 15, 2380-2384.	9.1	88
57	Propagation of quantum signal in plasmonic waveguides. , 2015, , .		0
58	The origin of interferometric effect involving surface plasmon polariton in scattering near-field scanning optical microscopy. Optics Express, 2014, 22, 2965.	3.4	13
59	Independently analyzing different surface plasmon polariton modes on silver nanowire. Optics Express, 2014, 22, 23372.	3.4	5
60	Broadband Plasmonic Absorber for Photonic Integrated Circuits. IEEE Photonics Technology Letters, 2014, 26, 1726-1729.	2.5	11
61	High-Visibility On-Chip Quantum Interference of Single Surface Plasmons. Physical Review Applied, 2014, 2, .	3.8	52
62	The origin of interferometric effect in scattering near-field scanning optical microscopy (presentation video). Proceedings of SPIE, 2014, , .	0.8	0
63	One-Pot Colloidal Chemistry Route to Homogeneous and Doped Colloidosomes. Journal of the American Chemical Society, 2013, 135, 12928-12931.	13.7	60
64	Silver nanowires for photonics applications. Laser and Photonics Reviews, 2013, 7, 901-919.	8.7	87
65	Efficient coupling between dielectric waveguide modes and exterior plasmon whispering gallery modes. Optics Express, 2013, 21, 31253.	3.4	4
66	Integrated polarization rotator/converter by stimulated Raman adiabatic passage. Optics Express, 2013, 21, 17097.	3.4	19
67	Detecting orbital angular momentum through division-of-amplitude interference with a circular plasmonic lens. Scientific Reports, 2013, 3, 2402.	3.3	47
68	Encoding photonic angular momentum information onto surface plasmon polaritons with plasmonic lens. Optics Express, 2012, 20, 24151.	3.4	31
69	Broadband opto-mechanical phase shifter for photonic integrated circuits. Applied Physics Letters, 2012, 101, 071114.	3.3	30
70	Ordering Ag nanowire arrays by a glass capillary: A portable, reusable and durable SERS substrate. Scientific Reports, 2012, 2, 987.	3.3	93
71	Doubly and Triply Coupled Nanowire Antennas. Journal of Physical Chemistry C, 2012, 116, 23779-23784.	3.1	16
72	In-line high efficient fiber polarizer based on surface plasmon. Applied Physics Letters, 2012, 100, .	3.3	35

#	ARTICLE	IF	CITATIONS
73	Movable Fiber-Integrated Hybrid Plasmonic Waveguide on Metal Film. IEEE Photonics Technology Letters, 2012, 24, 434-436.	2.5	23
74	Macroscopic-Scale Alignment of Ultralong Ag Nanowires in Polymer Nanofiber Mat and Their Hierarchical Structures by Magnetic-Field-Assisted Electrospinning. Small, 2012, 8, 2936-2940.	10.0	70
75	Exciton-plasmon-photon conversion in silver nanowire: Polarization dependence. Applied Physics Letters, 2011, 99, 061103.	3.3	22
76	Interference of surface plasmon polaritons from a "point-source". Applied Physics Letters, 2011, 98, 201113.	3.3	20
77	Photoluminescence quenching and enhancement of CdSe/PMMA composite on Au colloids. Chemical Physics Letters, 2010, 492, 71-76.	2.6	16
78	Ordering of Disordered Nanowires: Spontaneous Formation of Highly Aligned, Ultralong Ag Nanowire Films at Oil-Water-Air Interface. Advanced Functional Materials, 2010, 20, 958-964.	14.9	139
79	Excitation of surface plasmons in a single silver nanowire using higher-order-mode light. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1751-1754.	2.7	7
80	Quantum bus of metal nanoring with surface plasmon polaritons. Physical Review B, 2010, 82, .	3.2	21
81	Temperature and Excitation Wavelength Dependence of Surface-Plasmon-Mediated Emission from CdSe Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 18435-18438.	3.1	11
82	Transmission of doughnut light through a bull's eye structure. Applied Physics Letters, 2009, 95, 111111.	3.3	13
83	Coupling of light from an optical fiber taper into silver nanowires. Applied Physics Letters, 2009, 95, 221109.	3.3	54
84	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
85	Linear optical implementation of perfect discrimination between single-bit unitary operations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 195501.	1.5	9
86	Entanglement witness measurement for two-qubit states by optical interference. Europhysics Letters, 2008, 82, 60003.	2.0	0
87	Remote control of extraordinary transmission through subwavelength hole arrays. Europhysics Letters, 2008, 84, 30005.	2.0	5
88	Interference of surface plasmon polaritons controlled by the phase of incident light. Applied Physics Letters, 2008, 92, 171106.	3.3	2
89	Experimental entanglement quantification and verification via uncertainty relations. Europhysics Letters, 2007, 78, 40002.	2.0	13
90	Influence of unsymmetrical periodicity on extraordinary transmission through periodic arrays of subwavelength holes. Applied Physics Letters, 2007, 90, 161112.	3.3	13

#	ARTICLE	IF	CITATIONS
91	Demonstration of one-dimensional quantum random walks using orbital angular momentum of photons. <i>Physical Review A</i> , 2007, 75, .	2.5	55
92	Experimental realization of direct characterization of quantum dynamics. <i>Physical Review A</i> , 2007, 75, .	2.5	20
93	Plasmon assisted transmission of single photon wavepacket. <i>Metamaterials</i> , 2007, 1, 106-109.	2.2	2
94	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
95	Removal of surface plasmon polariton eigenmodes degeneracy. <i>Applied Physics B: Lasers and Optics</i> , 2007, 89, 257-260.	2.2	5
96	Spatial mode properties of plasmon-assisted transmission. <i>Optics Letters</i> , 2006, 31, 2792.	3.3	18
97	Experimental Entanglement Distillation of Two-Qubit Mixed States under Local Operations. <i>Physical Review Letters</i> , 2006, 96, 220505.	7.8	39
98	Entanglement of the Hermiteâ€“Gaussian modes states of photons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 341, 81-86.	2.1	19
99	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
100	Manipulating quantum states with aspheric lenses. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 344, 346-350.	2.1	2
101	Experimental Teleportation of a Quantum Controlled-NOT Gate. <i>Physical Review Letters</i> , 2004, 93, 240501.	7.8	122
102	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