

Xu-Lin Zhang

List of Publications by Year in descending order

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89
papers

3,178
citations

126907

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docs citations

91
times ranked

3956
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient and mechanically robust stretchable organic light-emitting devices by a laser-programmable buckling process. <i>Nature Communications</i> , 2016, 7, 11573.	12.8	182
2	Plasmonic-Assisted Graphene Oxide Artificial Muscles. <i>Advanced Materials</i> , 2019, 31, e1806386.	21.0	134
3	Ultrathin Metal Films as the Transparent Electrode in ITO-Free Organic Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2019, 7, 1800778.	7.3	133
4	Dynamically encircling an exceptional point in anti-parity-time symmetric systems: asymmetric mode switching for symmetry-broken modes. <i>Light: Science and Applications</i> , 2019, 8, 88.	16.6	128
5	Optical Tamm states enhanced broad-band absorption of organic solar cells. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	106
6	Dynamically Encircling Exceptional Points: <i>In Situ</i> Control of Encircling Loops and the Role of the Starting Point. <i>Physical Review X</i> , 2018, 8, .	8.9	106
7	Silver-Coated Rose Petal: Green, Facile, Low-Cost and Sustainable Fabrication of a SERS Substrate with Unique Superhydrophobicity and High Efficiency. <i>Advanced Optical Materials</i> , 2013, 1, 56-60.	7.3	102
8	Solving Efficiency-Stability Tradeoff in Top-Emitting Organic Light-Emitting Devices by Employing Periodically Corrugated Metallic Cathode. <i>Advanced Materials</i> , 2012, 24, 1187-1191.	21.0	96
9	S-Tapered Fiber Sensors for Highly Sensitive Measurement of Refractive Index and Axial Strain. <i>Journal of Lightwave Technology</i> , 2012, 30, 3126-3132.	4.6	86
10	Broadband Light Extraction from White Organic Light-Emitting Devices by Employing Corrugated Metallic Electrodes with Dual Periodicity. <i>Advanced Materials</i> , 2013, 25, 6969-6974.	21.0	85
11	Superhydrophobic SERS chip based on a Ag coated natural taro-leaf. <i>Nanoscale</i> , 2016, 8, 11487-11493.	5.6	82
12	Distributed Feedback Lasers Based on Thiophene/Phenylene Co-Oligomer Single Crystals. <i>Advanced Functional Materials</i> , 2012, 22, 33-38.	14.9	81
13	Ultrathin and ultrasmooth Au films as transparent electrodes in ITO-free organic light-emitting devices. <i>Nanoscale</i> , 2016, 8, 10010-10015.	5.6	77
14	Mechanically robust stretchable organic optoelectronic devices built using a simple and universal stencil-pattern transferring technology. <i>Light: Science and Applications</i> , 2018, 7, 35.	16.6	77
15	First-principles calculations of a robust two-dimensional boron honeycomb sandwiching a triangular molybdenum layer. <i>Physical Review B</i> , 2014, 90, .	3.2	70
16	Highly Efficient Three Primary Color Organic Single-Crystal Light-Emitting Devices with Balanced Carrier Injection and Transport. <i>Advanced Functional Materials</i> , 2017, 27, 1604659.	14.9	69
17	Direct laser scribing of AgNPs@RGO biochip as a reusable SERS sensor for DNA detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 500-507.	7.8	58
18	Non-Abelian braiding on photonic chips. <i>Nature Photonics</i> , 2022, 16, 390-395.	31.4	58

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19	A SERS-Active microfluidic device with tunable surface plasmon resonances. <i>Electrophoresis</i> , 2011, 32, 3378-3384.	2.4	53
20	Surface-plasmon enhanced absorption in organic solar cells by employing a periodically corrugated metallic electrode. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	53
21	Surface-Plasmon-Mediated Programmable Optical Nanofabrication of an Oriented Silver Nanoplate. <i>ACS Nano</i> , 2014, 8, 6682-6692.	14.6	49
22	Dynamically encircling exceptional points in a three-mode waveguide system. <i>Communications Physics</i> , 2019, 2, .	5.3	47
23	Hybrid Tamm plasmon-polariton/microcavity modes for white top-emitting organic light-emitting devices. <i>Optica</i> , 2015, 2, 579.	9.3	45
24	Grating amplitude effect on electroluminescence enhancement of corrugated organic light-emitting devices. <i>Optics Letters</i> , 2011, 36, 3915.	3.3	44
25	Hamiltonian Hopping for Efficient Chiral Mode Switching in Encircling Exceptional Points. <i>Physical Review Letters</i> , 2020, 125, 187403.	7.8	44
26	High-Throughput Screening for Phase-Change Memory Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2009803.	14.9	43
27	Highly transparent and flexible fabric-based organic light emitting devices for unnoticeable wearable displays. <i>Organic Electronics</i> , 2020, 76, 105494.	2.6	42
28	Matching Photocurrents of Subcells in Double-Junction Organic Solar Cells via Coupling Between Surface Plasmon Polaritons and Microcavity Modes. <i>Advanced Optical Materials</i> , 2013, 1, 809-813.	7.3	40
29	Compact Long-Period Fiber Gratings With Resonance at Second-Order Diffraction. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1393-1395.	2.5	39
30	Optical force on toroidal nanostructures: Toroidal dipole versus renormalized electric dipole. <i>Physical Review A</i> , 2015, 92, .	2.5	37
31	Study of Electron-Phonon Coupling Dynamics in Au Nanorods by Transient Depolarization Measurements. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2913-2917.	3.1	35
32	Surface Plasmon-Polariton Mediated Red Emission from Organic Light-Emitting Devices Based on Metallic Electrodes Integrated with Dual-Periodic Corrugation. <i>Scientific Reports</i> , 2014, 4, 7108.	3.3	35
33	Anti-reflection resonance in distributed Bragg reflectors-based ultrathin highly absorbing dielectric and its application in solar cells. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	33
34	Intrinsic Polarization and Tunable Color of Electroluminescence from Organic Single Crystal-based Light-Emitting Devices. <i>Scientific Reports</i> , 2015, 5, 12445.	3.3	33
35	Gold nanorods-silica Janus nanoparticles for theranostics. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	33
36	Nanostructures induced light harvesting enhancement in organic photovoltaics. <i>Nanophotonics</i> , 2017, 7, 371-391.	6.0	32

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37	Fabrication and Characterization of Organic Single Crystal-Based Light-Emitting Devices with Improved Contact Between the Metallic Electrodes and Crystal. <i>Advanced Functional Materials</i> , 2014, 24, 7085-7092.	14.9	31
38	Spectral engineering by flexible tunings of optical Tamm states and Fabry-Pérot cavity resonance. <i>Optics Letters</i> , 2013, 38, 4382.	3.3	28
39	As-grown graphene/copper nanoparticles hybrid nanostructures for enhanced intensity and stability of surface plasmon resonance. <i>Scientific Reports</i> , 2016, 6, 37190.	3.3	28
40	Dual-periodic-corrugation-induced broadband light absorption enhancement in organic solar cells. <i>Organic Electronics</i> , 2015, 27, 167-172.	2.6	27
41	General Rules Governing the Dynamical Encircling of an Arbitrary Number of Exceptional Points. <i>Physical Review Letters</i> , 2021, 127, 253901.	7.8	27
42	Flexible lasers based on the microstructured single-crystalline ultrathin films. <i>Journal of Materials Chemistry</i> , 2012, 22, 24139.	6.7	24
43	Nanoporous TiO ₂ /Polyion Thin-Film-Coated Long-Period Grating Sensors for the Direct Measurement of Low-Molecular-Weight Analytes. <i>Langmuir</i> , 2012, 28, 8814-8821.	3.5	24
44	Light trapping schemes in organic solar cells: A comparison between optical Tamm states and Fabry-Pérot cavity modes. <i>Organic Electronics</i> , 2013, 14, 1577-1585.	2.6	23
45	Tunable surface plasmon-polariton resonance in organic light-emitting devices based on corrugated alloy electrodes. <i>Opto-Electronic Advances</i> , 2021, 4, 200024-200024.	13.3	23
46	Enhanced efficiency of organic light-emitting devices with corrugated nanostructures based on soft nano-imprinting lithography. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	22
47	Hybrid exceptional point and its dynamical encircling in a two-state system. <i>Physical Review A</i> , 2018, 98, .	2.5	22
48	Unidirectional Lasing From a Spiral-Shaped Microcavity of Dye-Doped Polymers. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 311-314.	2.5	21
49	An Ultrasensitive Long-Period Fiber Grating-Based Refractive Index Sensor with Long Wavelengths. <i>Sensors</i> , 2016, 16, 2205.	3.8	21
50	Roller-Assisted Adhesion Imprinting for High-Throughput Manufacturing of Wearable and Stretchable Organic Light-Emitting Devices. <i>Advanced Optical Materials</i> , 2020, 8, 1901525.	7.3	20
51	Highly Flexible Fabric-Based Organic Light-Emitting Devices for Conformal Wearable Displays. <i>Advanced Materials Technologies</i> , 2020, 5, 1900942.	5.8	20
52	Recent progress in post treatment of silver nanowire electrodes for optoelectronic device applications. <i>Nanoscale</i> , 2021, 13, 12423-12437.	5.6	18
53	Viewing-angle independence of white emission from microcavity top-emitting organic light-emitting devices with periodically and gradually changed cavity length. <i>Organic Electronics</i> , 2013, 14, 1597-1601.	2.6	16
54	Stability Improved Stretchable Metallic Gratings With Tunable Grating Period in Submicron Scale. <i>Journal of Lightwave Technology</i> , 2015, 33, 3327-3331.	4.6	14

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55	Distributed feedback lasing from thin organic crystal based on active waveguide grating structures. <i>Organic Electronics</i> , 2012, 13, 1602-1605.	2.6	13
56	Time-Resolved Fluorescence Anisotropy of Surface Plasmon Coupled Emission on Metallic Gratings. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26734-26739.	3.1	13
57	Organic Crystals: Fabrication and Characterization of Organic Single Crystal-Based Light-Emitting Devices with Improved Contact Between the Metallic Electrodes and Crystal (<i>Adv. Funct. Mater.</i>) Tj ETQq1 1 0.7843149rgBT /C/overlock	1.0	13
58	Strong coupling in hybrid plasmon-modulated nanostructured cavities. <i>Applied Physics Letters</i> , 2014, 105, 191117.	3.3	13
59	Highly polarized emission from organic single-crystal light-emitting devices with a polarization ratio of 176. <i>Optica</i> , 2022, 9, 121.	9.3	13
60	Distinct outcomes by dynamically encircling an exceptional point along homotopic loops. <i>Physical Review A</i> , 2019, 99, .	2.5	12
61	Improved detecting sensitivity of long period fiber gratings by polyelectrolyte multilayers: The effect of film structures. <i>Optics Communications</i> , 2014, 331, 39-44.	2.1	11
62	Exceptional points and symmetry recovery in a two-state system. <i>Physical Review A</i> , 2017, 96, .	2.5	11
63	In Situ Integration of SERS Sensors for On-Chip Catalytic Reactions. <i>Advanced Materials Technologies</i> , 2020, 5, 1900963.	5.8	11
64	Strongly Localized Evanescent Optical Tamm States at Metal-DBR Interface. <i>Journal of Lightwave Technology</i> , 2013, 31, 1654-1659.	4.6	10
65	PFSa-passivated silver nanowire transparent electrodes for highly flexible organic-light-emitting devices with improved stability. <i>Organic Electronics</i> , 2020, 84, 105727.	2.6	10
66	Non-uniform annular rings-based metasurfaces for high-efficient and polarization-independent focusing. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	9
67	Surface Plasmon-Modulated Fluorescence on 2D Metallic Silver Gratings. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 821-823.	2.5	9
68	Switching Terahertz Waves using Exceptional Points. <i>Physical Review Applied</i> , 2018, 10, .	3.8	9
69	Plasmonic ultrathin metal grid electrode induced optical outcoupling enhancement in flexible organic light-emitting device. <i>Organic Electronics</i> , 2020, 87, 105960.	2.6	9
70	Directly Imprinted Periodic Corrugation on Ultrathin Metallic Electrode for Enhanced Light Extraction in Organic Light-Emitting Devices. <i>IEEE Nanotechnology Magazine</i> , 2019, 18, 1057-1062.	2.0	8
71	Improved light extraction in all-inorganic perovskite light-emitting devices with periodic nanostructures by nanoimprinting lithography. <i>Optics Letters</i> , 2020, 45, 5156.	3.3	8
72	Highly transparent and conductive metal oxide/metal/polymer composite electrodes for high-efficiency flexible organic light-emitting devices. <i>Nanophotonics</i> , 2020, 9, 3567-3573.	6.0	8

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73	Design of a non-Hermitian on-chip mode converter using phase change materials. Optics Letters, 2020, 45, 4630.	3.3	8
74	FDTD Study on the Invisibility Performance of Two-Dimensional Cylindrical Cloak With Off-Plane Incidence. Journal of Lightwave Technology, 2012, 30, 1835-1842.	4.6	7
75	Silver nano islands enhanced Raman scattering on large area grating substrates fabricated by two beam laser interference. Chemical Research in Chinese Universities, 2013, 29, 1006-1010.	2.6	7
76	Enhanced efficiency of organic light-emitting devices by using a directly imprinted nanopillared ultrathin metallic electrode. Optics Letters, 2020, 45, 4879.	3.3	6
77	Enhanced efficiency of all-inorganic perovskite light-emitting diodes by using F4-TCNQ-doped PTAA as a hole-transport layer. Optics Letters, 2019, 44, 4817.	3.3	6
78	Highly Flexible and Mechanically Robust Ultrathin Au Grid as Electrodes for Flexible Organic Light-Emitting Devices. IEEE Nanotechnology Magazine, 2019, 18, 776-780.	2.0	5
79	Capillary Force-Induced Printing of Stretchable and Mechanically Stable Silver Nanowire Electrodes With Highly Ordered Alignment For Ultra-Flexible Organic Light-Emitting Devices. IEEE Nanotechnology Magazine, 2021, 20, 99-103.	2.0	5
80	Protein-Based Multi-Mode Interference Optical Micro-Splitters. IEEE Photonics Technology Letters, 2016, 28, 629-632.	2.5	4
81	Exceptional point protected robust on-chip optical logic gates. Exploration, 2022, 2, .	11.0	4
82	Extremely sensitive multi-order mode refractive index sensor using TiO ₂ nanograin film and weakly bounded waveguide modes. Optics Express, 2021, 29, 13520.	3.4	2
83	Omnidirectional light absorption enhancement of perovskite solar cells by an antireflection film with holographic lithography microstructures. Optics Letters, 2021, 46, 4781.	3.3	2
84	Encircling exceptional points in non-Hermitian systems with quasidegenerate energy levels. Physical Review A, 2022, 105, .	2.5	2
85	Organic Single Crystalline Lasers: Distributed Feedback Lasers Based on Thiophene/Phenylene Co-Oligomer Single Crystals (Adv. Funct. Mater. 1/2012). Advanced Functional Materials, 2012, 22, 32-32.	14.9	1
86	Lowered threshold of polymer distributed feedback laser by hybridizing waveguide and surface-plasmon polariton modes. Optics and Laser Technology, 2013, 45, 246-249.	4.6	1
87	Eliminating Angular Dispersion in Microcavity by Employing Metamaterials With Hyperbolic Dispersion as Reflectors. IEEE Journal of Quantum Electronics, 2014, 50, 348-353.	1.9	1
88	Plasmon-Photon Coupled Modes Lasing in a Silver-Coated Hemisphere. IEEE Photonics Technology Letters, 2016, 28, 351-354.	2.5	1
89	Enhanced transmittance of metallic film with nanoaperture array. Optical Engineering, 2016, 55, 097107.	1.0	0