

Lei Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4843522/publications.pdf>

Version: 2024-02-01

84
papers

6,592
citations

109137

35
h-index

62479

80
g-index

84
all docs

84
docs citations

84
times ranked

6114
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic Color Palettes for Photorealistic Printing with Aluminum Nanostructures. <i>Nano Letters</i> , 2014, 14, 4023-4029.	4.5	501
2	A Reconfigurable Active Huygens' Metasurfaces. <i>Advanced Materials</i> , 2017, 29, 1606422.	11.1	470
3	Ultrathin Pancharatnam-Berry Metasurface with Maximal Cross-Polarization Efficiency. <i>Advanced Materials</i> , 2015, 27, 1195-1200.	11.1	431
4	Visible-Frequency Metasurface for Structuring and Spatially Multiplexing Optical Vortices. <i>Advanced Materials</i> , 2016, 28, 2533-2539.	11.1	387
5	Advances in Full Control of Electromagnetic Waves with Metasurfaces. <i>Advanced Optical Materials</i> , 2016, 4, 818-833.	3.6	306
6	Information metamaterials and metasurfaces. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3644-3668.	2.7	297
7	Hybrid bilayer plasmonic metasurface efficiently manipulates visible light. <i>Science Advances</i> , 2016, 2, e1501168.	4.7	278
8	Three-dimensional plasmonic stereoscopic prints in full colour. <i>Nature Communications</i> , 2014, 5, 5361.	5.8	269
9	Color generation via subwavelength plasmonic nanostructures. <i>Nanoscale</i> , 2015, 7, 6409-6419.	2.8	262
10	Giant photoluminescence enhancement in tungsten-diselenide-gold plasmonic hybrid structures. <i>Nature Communications</i> , 2016, 7, 11283.	5.8	244
11	Transmission-Reflection-Integrated Multifunctional Coding Metasurface for Full-Space Controls of Electromagnetic Waves. <i>Advanced Functional Materials</i> , 2018, 28, 1802205.	7.8	221
12	Spin-Controlled Multiple Pencil Beams and Vortex Beams with Different Polarizations Generated by Pancharatnam-Berry Coding Metasurfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36447-36455.	4.0	205
13	Silicon meta-holograms for the broadband visible light. <i>Laser and Photonics Reviews</i> , 2016, 10, 500-509.	4.4	181
14	Anomalous Refraction and Nondiffractive Bessel-Beam Generation of Terahertz Waves through Transmission-Type Coding Metasurfaces. <i>ACS Photonics</i> , 2016, 3, 1968-1977.	3.2	175
15	Dielectric Meta-Holograms Enabled with Dual Magnetic Resonances in Visible Light. <i>ACS Nano</i> , 2017, 11, 9382-9389.	7.3	157
16	Lead Halide Perovskite Nanostructures for Dynamic Color Display. <i>ACS Nano</i> , 2018, 12, 8847-8854.	7.3	142
17	Information Metamaterial Systems. <i>IScience</i> , 2020, 23, 101403.	1.9	132
18	Periodic inversion and phase transition of finite energy Airy beams in a medium with parabolic potential. <i>Optics Express</i> , 2015, 23, 10467.	1.7	128

#	ARTICLE	IF	CITATIONS
19	Digital Metasurface with Phase Code and Reflection-Transmission Amplitude Code for Flexible Full-Space Electromagnetic Manipulations. <i>Advanced Optical Materials</i> , 2019, 7, 1801429.	3.6	104
20	3D Metaphotonic Nanostructures with Intrinsic Chirality. <i>Advanced Functional Materials</i> , 2018, 28, 1803147.	7.8	102
21	Encapsulated Annealing: Enhancing the Plasmon Quality Factor in Lithographically-Defined Nanostructures. <i>Scientific Reports</i> , 2014, 4, 5537.	1.6	96
22	Programmable Controls to Scattering Properties of a Radiation Array. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000449.	4.4	93
23	Spoof Plasmon-Based Slow-Wave Excitation of a Dielectric Resonator Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2016, 64, 2094-2099.	3.1	91
24	Rapid phase transition of a phase-change metamaterial perfect absorber. <i>Optical Materials Express</i> , 2013, 3, 1101.	1.6	86
25	Artificial Metaphotonics Born Naturally in Two Dimensions. <i>Chemical Reviews</i> , 2020, 120, 6197-6246.	23.0	78
26	Multitasking Shared Aperture Enabled with Multiband Digital Coding Metasurface. <i>Advanced Optical Materials</i> , 2018, 6, 1800657.	3.6	76
27	Wavenumber-Splitting Metasurfaces Achieve Multichannel Diffusive Invisibility. <i>Advanced Optical Materials</i> , 2018, 6, 1800010.	3.6	70
28	Unveiling the Correlation between Nanometer-Thick Molecular Monolayer Sensitivity and Near-Field Enhancement and Localization in Coupled Plasmonic Oligomers. <i>ACS Nano</i> , 2014, 8, 9188-9198.	7.3	50
29	Efficient Optical Angular Momentum Manipulation for Compact Multiplexing and Demultiplexing Using a Dielectric Metasurface. <i>Advanced Optical Materials</i> , 2020, 8, 1901666.	3.6	50
30	Design of aluminum nitride metasurfaces for broadband ultraviolet incidence routing. <i>Nanophotonics</i> , 2018, 8, 171-180.	2.9	49
31	Accurate and broadband manipulations of harmonic amplitudes and phases to reach 256 QAM millimeter-wave wireless communications by time-domain digital coding metasurface. <i>National Science Review</i> , 2022, 9, nwab134.	4.6	46
32	Anomalous behavior of nearly-entire visible band manipulated with degenerated image dipole array. <i>Nanoscale</i> , 2014, 6, 12303-12309.	2.8	43
33	Efficient Excitation of Multiple Plasmonic Modes on Three-Dimensional Graphene: An Unexplored Dimension. <i>ACS Photonics</i> , 2016, 3, 1986-1992.	3.2	42
34	Creating double negative index materials using the Babinet principle with one metasurface. <i>Physical Review B</i> , 2013, 87, .	1.1	40
35	Theoretical realization of robust broadband transparency in ultrathin seamless nanostructures by dual blackbodies for near infrared light. <i>Nanoscale</i> , 2013, 5, 3373.	2.8	36
36	Space-Time-Coding Digital Metasurfaces: Principles and Applications. <i>Research</i> , 2021, 2021, 9802673.	2.8	36

#	ARTICLE	IF	CITATIONS
37	In vivo imaging of the morphology and changes in pH along the gastrointestinal tract of Japanese medaka by photonic band-gap hydrogel microspheres. <i>Analytica Chimica Acta</i> , 2013, 787, 193-202.	2.6	35
38	Phase Control of Eu ³⁺ -Doped YPO ₄ Nano-/Microcrystals. <i>Crystal Growth and Design</i> , 2017, 17, 5935-5944.	1.4	33
39	Dynamically configurable hybridization of plasmon modes in nanoring dimer arrays. <i>Nanoscale</i> , 2015, 7, 12018-12022.	2.8	32
40	Large-Area Graphene Nanodot Array for Plasmon-Enhanced Infrared Spectroscopy. <i>Small</i> , 2016, 12, 1302-1308.	5.2	32
41	Suboptimal Coding Metasurfaces for Terahertz Diffuse Scattering. <i>Scientific Reports</i> , 2018, 8, 11908.	1.6	29
42	Controlled synthesis and tunable luminescence of uniform YPO ₄ ·0.8H ₂ O and YPO ₄ ·0.8H ₂ O·Tb ³⁺ /Eu ³⁺ nanocrystals by a facile approach. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9149-9158.	2.7	28
43	Infrared Nanoimaging Reveals the Surface Metallic Plasmons in Topological Insulator. <i>ACS Photonics</i> , 2017, 4, 3055-3062.	3.2	27
44	Gate-Programmable Electro-Optical Addressing Array of Graphene-Coated Nanowires with Sub-10 nm Resolution. <i>ACS Photonics</i> , 2016, 3, 1847-1853.	3.2	24
45	Anomalous Shift Behaviors in the Photoluminescence of Dolmen-Like Plasmonic Nanostructures. <i>ACS Photonics</i> , 2016, 3, 979-984.	3.2	22
46	Wearable Conformal Metasurfaces for Polarization Division Multiplexing. <i>Advanced Optical Materials</i> , 2020, 8, 2000068.	3.6	21
47	Three-dimensional visible-light capsule enclosing perfect supersized darkness via antiresolution. <i>Laser and Photonics Reviews</i> , 2014, 8, 743-749.	4.4	19
48	Graphene-coated nanowires with a drop-shaped cross section for 10-nm confinement and 1-μm propagation. <i>Optics Letters</i> , 2017, 42, 2078.	1.7	19
49	Realization of Full Control of a Terahertz Wave Using Flexible Metasurfaces. <i>Advanced Optical Materials</i> , 2017, 5, 1700486.	3.6	18
50	Hybrid coupling enhances photoluminescence of monolayer MoS ₂ on plasmonic nanostructures. <i>Optics Letters</i> , 2018, 43, 4128.	1.7	18
51	Integration of Ultrathin Metasurfaces with a Lens for Efficient Polarization Division Multiplexing. <i>Advanced Optical Materials</i> , 2019, 7, 1900116.	3.6	18
52	Gold nanoparticle mediated graphene plasmon for broadband enhanced infrared spectroscopy. <i>Nanotechnology</i> , 2017, 28, 264001.	1.3	17
53	Topological insulator properties of photonic kagome helical waveguide arrays. <i>Results in Physics</i> , 2019, 12, 996-1001.	2.0	17
54	Superscattering, Superabsorption, and Nonreciprocity in Nonlinear Antennas. <i>ACS Photonics</i> , 2021, 8, 585-591.	3.2	17

#	ARTICLE	IF	CITATIONS
55	Temporal behavior of dark spatial solitons in closed-circuit photovoltaic media. <i>Optics Communications</i> , 2008, 281, 2913-2917.	1.0	16
56	Rational design of high performance surface plasmon resonance sensors based on two-dimensional metallic hole arrays. <i>Optics Express</i> , 2012, 20, 12610.	1.7	16
57	Highly efficient plasmon excitation in graphene-Bi ₂ Te ₃ heterostructure. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 1842.	0.9	16
58	Manipulation of a ring-shaped beam via spatial self- and cross-phase modulation at lower intensity. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7618-7622.	1.3	14
59	Interplay between absorption and radiative decay rates of surface plasmon polaritons for field enhancement in periodic arrays. <i>Optics Letters</i> , 2014, 39, 501.	1.7	13
60	Temporal development of spatial solitons in biased photorefractive-photovoltaic materials. <i>Journal of Modern Optics</i> , 2008, 55, 1571-1585.	0.6	12
61	One-dimensional steady-state bright photovoltaic solitons in LiNbO ₃ :Fe crystal with background illumination. <i>Optik</i> , 2010, 121, 575-580.	1.4	9
62	Unveiling the relationship between optical bistability and vacuum Rabi splitting. <i>Europhysics Letters</i> , 2017, 117, 53001.	0.7	9
63	Polarization-enabled tunable focusing by visible-light metalenses with geometric and propagation phase. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 115102.	1.0	7
64	Metallic Waveguide Arrays for Metasurface-Like Control with High Simplicity in Design. <i>Advanced Optical Materials</i> , 2020, 8, 2000605.	3.6	7
65	Rational design of colorimetric sensing for a customer-oriented index range using plasmonic substrates. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 3168.	0.9	7
66	Superior third-order nonlinearity in inorganic fullerene-like WS ₂ nanoparticles. <i>Photonics Research</i> , 2020, 8, 1881.	3.4	7
67	Synthetic Plasmonic Nanocircuits and the Evolution of Their Correlated Spatial Arrangement and Resonance Spectrum. <i>ACS Photonics</i> , 2021, 8, 166-174.	3.2	6
68	Dynamically Tunable Plasmon-Induced Transparency Based on Radiative-Radiative-Coupling in a Terahertz Metal-Graphene Metamaterial. <i>Crystals</i> , 2019, 9, 146.	1.0	5
69	Extrinsic Polarization-Enabled Covert Plasmonic Colors Using Aluminum Nanostructures. <i>Annalen Der Physik</i> , 2019, 531, 1900073.	0.9	5
70	Superior Deep-Ultraviolet Source Pumped by an Electron Beam for NLOS Communication. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 3391-3394.	1.6	5
71	Curved 2D WS ₂ nanostructures: nanocasting and silent phonon mode. <i>Nanoscale</i> , 2020, 12, 9038-9047.	2.8	5
72	Single-layer dielectric metasurface with giant chiroptical effects combining geometric and propagation phase. <i>Optics Communications</i> , 2021, 478, 126405.	1.0	5

#	ARTICLE	IF	CITATIONS
73	Simultaneous and independent control of phase and polarization in terahertz band for functional integration of multiple devices. <i>Optics and Laser Technology</i> , 2022, 151, 108064.	2.2	5
74	Surface Plasmon Polariton Cross-Coupling Enhanced Forward Emission from Insulatorâ€“Metal-Capped ZnO Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23496-23500.	4.0	4
75	Graphene Plasmon Resonances for Electrically-Tunable Sub-Femtometer Dimensional Resolution. <i>Nanomaterials</i> , 2020, 10, 1381.	1.9	3
76	Fully deterministic analysis on photonic whispering-gallery modes of irregular polygonal microcavities with testing in hexagons. <i>Physical Review A</i> , 2021, 103, .	1.0	3
77	Graphene Nanoribbon Gap Waveguides for Dispersionless and Low-Loss Propagation with Deep-Subwavelength Confinement. <i>Nanomaterials</i> , 2021, 11, 1302.	1.9	3
78	Waveguides induced by steady-state gray solitons in biased photorefractiveâ€“photovoltaic crystals. <i>Optics Communications</i> , 2008, 281, 49-54.	1.0	2
79	Modulation of the High-order Laguerre-Gaussian beam in Dressing Four-wave Mixing. <i>IEEE Journal of Quantum Electronics</i> , 2018, , 1-1.	1.0	2
80	Casted MoS ₂ nanostructures and their Raman properties. <i>Nanoscale</i> , 2022, 14, 10449-10455.	2.8	2
81	Grey screening-photovoltaic soliton-induced waveguides. <i>Chinese Physics B</i> , 2007, 16, 3423-3428.	1.3	1
82	Robust Conformal Perfect Absorber Involving Lossy Ultrathin Film. <i>Photonics</i> , 2020, 7, 57.	0.9	1
83	The preparation, characterization and application of ultra-smooth, low-loss plasmonics noble metal films. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2019, 49, 124206.	0.2	1
84	Light modulation based on the enhanced Kerr effect in molybdenum disulfide nanostructures with curved features. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12208-12213.	1.3	1