

Lei Shi

List of Publications by Year in descending order

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70
papers

3,085
citations

186265

28
h-index

161849

54
g-index

75
all docs

75
docs citations

75
times ranked

3408
citing authors

#	ARTICLE	IF	CITATIONS
1	Realization of ultrawide-angle high transmission and its applications in 5G millimeter-wave communications. <i>Optics Express</i> , 2022, 30, 14002.	3.4	4
2	Edible Amorphous Structural Color. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	7
3	Unfolded band structures of photonic quasicrystals and moiré superlattices. <i>Physical Review B</i> , 2022, 105, .	3.2	3
4	Interacting plexitons for designed ultrafast optical nonlinearity in a monolayer semiconductor. <i>Light: Science and Applications</i> , 2022, 11, 94.	16.6	24
5	Lipophilic Magnetic Photonic Nanochains for Practical Anticounterfeiting. <i>Small</i> , 2022, 18, e2200662.	10.0	25
6	Controlling Topology and Polarization State of Lasing Photonic Bound States in Continuum. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	28
7	Optical microfibers integrated with evanescent field triggered self-growing polymer nanofilms. <i>Optics Express</i> , 2022, 30, 18044.	3.4	3
8	Momentum-space imaging spectroscopy for the study of nanophotonic materials. <i>Science Bulletin</i> , 2021, 66, 824-838.	9.0	18
9	Topological polarization singularities in metaphotonics. <i>Nanophotonics</i> , 2021, 10, 1469-1486.	6.0	42
10	Phase characterisation of metalenses. <i>Light: Science and Applications</i> , 2021, 10, 52.	16.6	44
11	Diffusionless transformation of soft cubic superstructure from amorphous to simple cubic and body-centered cubic phases. <i>Nature Communications</i> , 2021, 12, 3477.	12.8	24
12	Photonic-dispersion neural networks for inverse scattering problems. <i>Light: Science and Applications</i> , 2021, 10, 154.	16.6	12
13	Polarization Singularities of Photonic Quasicrystals in Momentum Space. <i>Physical Review Letters</i> , 2021, 127, 043901.	7.8	22
14	Ultra-fast single-crystal polymerization of large-sized covalent organic frameworks. <i>Nature Communications</i> , 2021, 12, 5077.	12.8	63
15	Ways to achieve efficient non-local vortex beam generation. <i>Nanophotonics</i> , 2021, 10, 4297-4304.	6.0	7
16	There is plenty of room at the top: generation of hot charge carriers and their applications in perovskite and other semiconductor-based optoelectronic devices. <i>Light: Science and Applications</i> , 2021, 10, 174.	16.6	32
17	Facile full-color printing with a single transparent ink. <i>Science Advances</i> , 2021, 7, eabh1992.	10.3	72
18	Structural-colored silk based on Ti/Si bilayer. <i>Chinese Optics Letters</i> , 2021, 19, 051601.	2.9	4

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19	Shifting beams at normal incidence via controlling momentum-space geometric phases. <i>Nature Communications</i> , 2021, 12, 6046.	12.8	25
20	Realizing Generalized Brewster Effect by Generalized Kerker Effect. <i>Physical Review Applied</i> , 2021, 16, .	3.8	11
21	Discovery of 1,2,4-triazine-based derivatives as novel neddylation inhibitors and anticancer activity studies against gastric cancer MGC-803 cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 126791.	2.2	19
22	Effect of Ni loading and impregnation method on the hydrodenitrogenation of coal tar over Ni-Mo/ γ -Al ₂ O ₃ . <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, , 1-13.	2.3	0
23	Ultrawideband, Wide Scanning Stripline-Fed Tightly Coupled Array Antenna Based on Parallel-Dipole Elements. <i>Sensors</i> , 2020, 20, 5065.	3.8	2
24	Routing valley exciton emission of a WS ₂ monolayer via delocalized Bloch modes of in-plane inversion-symmetry-broken photonic crystal slabs. <i>Light: Science and Applications</i> , 2020, 9, 148.	16.6	54
25	Atrase B, a novel metalloprotease with anti- ϵ complement and anti- ϵ coagulant activity, significantly delays discordant cardiac xenograft rejection. <i>Xenotransplantation</i> , 2020, 27, e12616.	2.8	4
26	Transmission-Type Optical Modulator Based on Graphene Plasmonic Resonator Integrated with Off-Resonant Au Structure. <i>Advanced Optical Materials</i> , 2020, 8, 2000264.	7.3	12
27	Ultrafast Response of a Hybrid Device Based on Strongly Coupled Monolayer WS ₂ and Photonic Crystals: The Effect of Photoinduced Coulombic Screening. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900419.	8.7	18
28	Generating optical vortex beams by momentum-space polarization vortices centred at bound states in the continuum. <i>Nature Photonics</i> , 2020, 14, 623-628.	31.4	244
29	Vector Exceptional Points with Strong Superchiral Fields. <i>Physical Review Letters</i> , 2020, 124, 083901.	7.8	32
30	Enhanced directional emission of monolayer tungsten disulfide (WS ₂) with robust linear polarization via one-dimensional photonic crystal (PhC) slab. <i>Nanophotonics</i> , 2020, 9, 4337-4345.	6.0	10
31	A Programmable Nanofabrication Method for Complex 3D Meta-Atom Array Based on Focused-Ion-Beam Stress-Induced Deformation Effect. <i>Micromachines</i> , 2020, 11, 95.	2.9	4
32	Manipulating bandwidth of light absorption at critical coupling: An example of graphene integrated with dielectric photonic structure. <i>Physical Review B</i> , 2019, 100, .	3.2	42
33	Iridescence-controlled and flexibly tunable retroreflective structural color film for smart displays. <i>Science Advances</i> , 2019, 5, eaaw8755.	10.3	116
34	Circularly Polarized States Spawning from Bound States in the Continuum. <i>Physical Review Letters</i> , 2019, 123, 116104.	7.8	165
35	Novel tertiary sulfonamide derivatives containing benzimidazole moiety as potent anti-gastric cancer agents: Design, synthesis and SAR studies. <i>European Journal of Medicinal Chemistry</i> , 2019, 183, 111731.	5.5	28
36	Doping-Induced Second-Harmonic Generation in Centrosymmetric Graphene from Quadrupole Response. <i>Physical Review Letters</i> , 2019, 122, 047401.	7.8	64

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37	Structural Color Fibers Directly Drawn from Colloidal Suspensions with Controllable Optical Properties. ACS Applied Materials & Interfaces, 2019, 11, 19388-19396.	8.0	43
38	Observing vortex polarization singularities at optical band degeneracies. Physical Review B, 2019, 99, .	3.2	31
39	Amplified Spontaneous Emission Realized by Cogrowing Large/Small Grains with Self-Passivating Defects and Aligning Transition Dipoles. Advanced Optical Materials, 2019, 7, 1900345.	7.3	19
40	Gel-Based Artificial Photonic Skin to Sense a Gentle Touch by Reflection. ACS Applied Materials & Interfaces, 2019, 11, 15195-15200.	8.0	15
41	Fluorescence: Silk Fluorescence Collimator for Ultrasensitive Humidity Sensing and Light Harvesting in Semitransparent Dye-Sensitized Solar Cells (Small 13/2019). Small, 2019, 15, 1970069.	10.0	0
42	Silk Fluorescence Collimator for Ultrasensitive Humidity Sensing and Light Harvesting in Semitransparent Dye-Sensitized Solar Cells. Small, 2019, 15, 1804171.	10.0	12
43	Polarization dependent plasmonic modes in elliptical graphene disk arrays. Optics Express, 2019, 27, 1080.	3.4	11
44	Graphene Plasmonic Resonances: Dynamical Tuning of Graphene Plasmonic Resonances by Ultraviolet Illuminations (Advanced Optical Materials 6/2018). Advanced Optical Materials, 2018, 6, 1870023.	7.3	1
45	Additive Mixing and Conformal Coating of Noniridescent Structural Colors with Robust Mechanical Properties Fabricated by Atomization Deposition. ACS Nano, 2018, 12, 3095-3102.	14.6	139
46	Dynamical Tuning of Graphene Plasmonic Resonances by Ultraviolet Illuminations. Advanced Optical Materials, 2018, 6, 1701081.	7.3	14
47	Observation of Polarization Vortices in Momentum Space. Physical Review Letters, 2018, 120, 186103.	7.8	168
48	Gate Switching of Ultrafast Photoluminescence in Graphene. Nano Letters, 2018, 18, 7985-7990.	9.1	23
49	Gate-tunable third-order nonlinear optical response of massless Dirac fermions in graphene. Nature Photonics, 2018, 12, 430-436.	31.4	194
50	Fast photo-induced color changes of Ag particles deposited on single-crystalline TiO ₂ surface. Applied Physics Letters, 2018, 112, .	3.3	4
51	Full-color tunable photoluminescent carbon dots based on oil/water interfacial synthesis and their applications. RSC Advances, 2018, 8, 24002-24012.	3.6	12
52	Intracellular and <i>in Vivo</i> Cyanide Mapping via Surface Plasmon Spectroscopy of Single Au@Ag Nanoboxes. Analytical Chemistry, 2017, 89, 2583-2591.	6.5	20
53	Sub-micron silk fibroin film with high humidity sensibility through color changing. RSC Advances, 2017, 7, 17889-17897.	3.6	66
54	Reconfigurable lateral optical force achieved by selectively exciting plasmonic dark modes near Fano resonance. Physical Review A, 2017, 96, .	2.5	19

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55	Electromagnetic scattering laws in Weyl systems. <i>Nature Communications</i> , 2017, 8, 1388.	12.8	34
56	Using active gain to maximize light absorption. <i>Physical Review B</i> , 2017, 96, .	3.2	13
57	Symmetry breaking induced excitations of dark plasmonic modes in multilayer graphene ribbons. <i>Optics Express</i> , 2016, 24, 20021.	3.4	11
58	Simultaneous synthesis/assembly of anisotropic cake-shaped porphyrin particles toward colloidal microcrystals. <i>Chemical Communications</i> , 2016, 52, 3619-3622.	4.1	7
59	Bio-inspired sensors based on photonic structures of Morpho butterfly wings: a review. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1752-1763.	5.5	77
60	Photonics: Using Cuttlefish Ink as an Additive to Produce ÆNonÆIridescent Structural Colors of High Color Visibility (Adv. Mater. 32/2015). <i>Advanced Materials</i> , 2015, 27, 4666-4666.	21.0	2
61	Using Cuttlefish Ink as an Additive to Produce ÆNonÆIridescent Structural Colors of High Color Visibility. <i>Advanced Materials</i> , 2015, 27, 4719-4724.	21.0	215
62	Extraordinarily Large Optical Cross Section for Localized Single Nanoresonator. <i>Physical Review Letters</i> , 2015, 115, 023903.	7.8	34
63	Angle-Dependent Quality Factor of Mie Resonances in Silicon-Colloid-Based Microcavities. <i>ACS Photonics</i> , 2014, 1, 408-412.	6.6	12
64	Coherent fluorescence emission by using hybrid photonicÆplasmonic crystals. <i>Laser and Photonics Reviews</i> , 2014, 8, 717-725.	8.7	24
65	Photonic crystal boosted chemiluminescence reaction. <i>Laser and Photonics Reviews</i> , 2013, 7, L39-L43.	8.7	16
66	Amorphous Photonic Crystals with Only ShortÆRange Order. <i>Advanced Materials</i> , 2013, 25, 5314-5320.	21.0	171
67	Colloidal Photonic Crystals with Narrow Stopbands Assembled from Low-Adhesive Superhydrophobic Substrates. <i>Journal of the American Chemical Society</i> , 2012, 134, 17053-17058.	13.7	215
68	A mechanically tunable plasmonic structure composed of a monolayer array of metal-capped colloidal spheres on an elastomeric substrate. <i>Nano Research</i> , 2010, 3, 807-812.	10.4	66
69	Macroporous oxide structures with short-range order and bright structural coloration: a replication from parrot feather barb. <i>Journal of Materials Chemistry</i> , 2010, 20, 90-93.	6.7	23
70	Magneto-optical Kerr effect in perpendicularly magnetized Co/Pt films on two-dimensional colloidal crystals. <i>Applied Physics Letters</i> , 2009, 95, 032502.	3.3	23