

# 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	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
2	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
3	Using Cuttlefish Ink as an Additive to Produce Non-iridescent Structural Colors of High Color Visibility. <i>Advanced Materials</i> , 2015, 27, 4719-4724.	21.0	215
4	Gate-tunable third-order nonlinear optical response of massless Dirac fermions in graphene. <i>Nature Photonics</i> , 2018, 12, 430-436.	31.4	194
5	Amorphous Photonic Crystals with Only Short-Range Order. <i>Advanced Materials</i> , 2013, 25, 5314-5320.	21.0	171
6	Observation of Polarization Vortices in Momentum Space. <i>Physical Review Letters</i> , 2018, 120, 186103.	7.8	168
7	Circularly Polarized States Spawning from Bound States in the Continuum. <i>Physical Review Letters</i> , 2019, 123, 116104.	7.8	165
8	Additive Mixing and Conformal Coating of Noniridescent Structural Colors with Robust Mechanical Properties Fabricated by Atomization Deposition. <i>ACS Nano</i> , 2018, 12, 3095-3102.	14.6	139
9	Iridescence-controlled and flexibly tunable retroreflective structural color film for smart displays. <i>Science Advances</i> , 2019, 5, eaaw8755.	10.3	116
10	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
11	Facile full-color printing with a single transparent ink. <i>Science Advances</i> , 2021, 7, eabh1992.	10.3	72
12	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
13	Sub-micron silk fibroin film with high humidity sensibility through color changing. <i>RSC Advances</i> , 2017, 7, 17889-17897.	3.6	66
14	Doping-Induced Second-Harmonic Generation in Centrosymmetric Graphene from Quadrupole Response. <i>Physical Review Letters</i> , 2019, 122, 047401.	7.8	64
15	Ultra-fast single-crystal polymerization of large-sized covalent organic frameworks. <i>Nature Communications</i> , 2021, 12, 5077.	12.8	63
16	Routing valley exciton emission of a WS <sub>2</sub> 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
17	Phase characterisation of metalenses. <i>Light: Science and Applications</i> , 2021, 10, 52.	16.6	44
18	Structural Color Fibers Directly Drawn from Colloidal Suspensions with Controllable Optical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 19388-19396.	8.0	43

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19	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
20	Topological polarization singularities in metaphotonics. <i>Nanophotonics</i> , 2021, 10, 1469-1486.	6.0	42
21	Extraordinarily Large Optical Cross Section for Localized Single Nanoresonator. <i>Physical Review Letters</i> , 2015, 115, 023903.	7.8	34
22	Electromagnetic scattering laws in Weyl systems. <i>Nature Communications</i> , 2017, 8, 1388.	12.8	34
23	Vector Exceptional Points with Strong Superchiral Fields. <i>Physical Review Letters</i> , 2020, 124, 083901.	7.8	32
24	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
25	Observing vortex polarization singularities at optical band degeneracies. <i>Physical Review B</i> , 2019, 99, .	3.2	31
26	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
27	Controlling Topology and Polarization State of Lasing Photonic Bound States in Continuum. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	28
28	Shifting beams at normal incidence via controlling momentum-space geometric phases. <i>Nature Communications</i> , 2021, 12, 6046.	12.8	25
29	Lipophilic Magnetic Photonic Nanochains for Practical Anticounterfeiting. <i>Small</i> , 2022, 18, e2200662.	10.0	25
30	Coherent fluorescence emission by using hybrid photonicâ€“plasmonic crystals. <i>Laser and Photonics Reviews</i> , 2014, 8, 717-725.	8.7	24
31	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
32	Interacting plexcitons for designed ultrafast optical nonlinearity in a monolayer semiconductor. <i>Light: Science and Applications</i> , 2022, 11, 94.	16.6	24
33	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
34	Macroporous oxide structures with short-range order and bright structural coloration: a replication from parrot feather barbs. <i>Journal of Materials Chemistry</i> , 2010, 20, 90-93.	6.7	23
35	Gate Switching of Ultrafast Photoluminescence in Graphene. <i>Nano Letters</i> , 2018, 18, 7985-7990.	9.1	23
36	Polarization Singularities of Photonic Quasicrystals in Momentum Space. <i>Physical Review Letters</i> , 2021, 127, 043901.	7.8	22

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37	Intracellular and <i>in Vivo</i> Cyanide Mapping via Surface Plasmon Spectroscopy of Single Au@Ag Nanoboxes. <i>Analytical Chemistry</i> , 2017, 89, 2583-2591.	6.5	20
38	Reconfigurable lateral optical force achieved by selectively exciting plasmonic dark modes near Fano resonance. <i>Physical Review A</i> , 2017, 96, .	2.5	19
39	Amplified Spontaneous Emission Realized by Cogrowing Large/Small Grains with Self-Passivating Defects and Aligning Transition Dipoles. <i>Advanced Optical Materials</i> , 2019, 7, 1900345.	7.3	19
40	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
41	Ultrafast Response of a Hybrid Device Based on Strongly Coupled Monolayer WS <sub>2</sub> and Photonic Crystals: The Effect of Photoinduced Coulombic Screening. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900419.	8.7	18
42	Momentum-space imaging spectroscopy for the study of nanophotonic materials. <i>Science Bulletin</i> , 2021, 66, 824-838.	9.0	18
43	Photonic crystal boosted chemiluminescence reaction. <i>Laser and Photonics Reviews</i> , 2013, 7, L39-L43.	8.7	16
44	Gel-Based Artificial Photonic Skin to Sense a Gentle Touch by Reflection. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15195-15200.	8.0	15
45	Dynamical Tuning of Graphene Plasmonic Resonances by Ultraviolet Illuminations. <i>Advanced Optical Materials</i> , 2018, 6, 1701081.	7.3	14
46	Using active gain to maximize light absorption. <i>Physical Review B</i> , 2017, 96, .	3.2	13
47	Angle-Dependent Quality Factor of Mie Resonances in Silicon-Colloid-Based Microcavities. <i>ACS Photonics</i> , 2014, 1, 408-412.	6.6	12
48	Full-color tunable photoluminescent carbon dots based on oil/water interfacial synthesis and their applications. <i>RSC Advances</i> , 2018, 8, 24002-24012.	3.6	12
49	Silk Fluorescence Collimator for Ultrasensitive Humidity Sensing and Light Harvesting in Semitransparent Dye-Sensitized Solar Cells. <i>Small</i> , 2019, 15, 1804171.	10.0	12
50	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
51	Photonic-dispersion neural networks for inverse scattering problems. <i>Light: Science and Applications</i> , 2021, 10, 154.	16.6	12
52	Symmetry breaking induced excitations of dark plasmonic modes in multilayer graphene ribbons. <i>Optics Express</i> , 2016, 24, 20021.	3.4	11
53	Polarization dependent plasmonic modes in elliptical graphene disk arrays. <i>Optics Express</i> , 2019, 27, 1080.	3.4	11
54	Realizing Generalized Brewster Effect by Generalized Kerker Effect. <i>Physical Review Applied</i> , 2021, 16, .	3.8	11

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55	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
56	Simultaneous synthesis/assembly of anisotropic cake-shaped porphyrin particles toward colloidal microcrystals. <i>Chemical Communications</i> , 2016, 52, 3619-3622.	4.1	7
57	Ways to achieve efficient non-local vortex beam generation. <i>Nanophotonics</i> , 2021, 10, 4297-4304.	6.0	7
58	Edible Amorphous Structural Color. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	7
59	Fast photo-induced color changes of Ag particles deposited on single-crystalline $TiO_2$ surface. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	4
60	Atrase B, a novel metalloprotease with anti-complement and anti-coagulant activity, significantly delays discordant cardiac xenograft rejection. <i>Xenotransplantation</i> , 2020, 27, e12616.	2.8	4
61	Structural-colored silk based on $TiSi$ bilayer. <i>Chinese Optics Letters</i> , 2021, 19, 051601.	2.9	4
62	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
63	Realization of ultrawide-angle high transmission and its applications in 5G millimeter-wave communications. <i>Optics Express</i> , 2022, 30, 14002.	3.4	4
64	Unfolded band structures of photonic quasicrystals and moiré superlattices. <i>Physical Review B</i> , 2022, 105, .	3.2	3
65	Optical microfibers integrated with evanescent field triggered self-growing polymer nanofilms. <i>Optics Express</i> , 2022, 30, 18044.	3.4	3
66	Photonics: Using Cuttlefish Ink as an Additive to Produce Non-Iridescent Structural Colors of High Color Visibility ( <i>Adv. Mater.</i> 32/2015). <i>Advanced Materials</i> , 2015, 27, 4666-4666.	21.0	2
67	Ultrawideband, Wide Scanning Stripline-Fed Tightly Coupled Array Antenna Based on Parallel-Dipole Elements. <i>Sensors</i> , 2020, 20, 5065.	3.8	2
68	Graphene Plasmonic Resonances: Dynamical Tuning of Graphene Plasmonic Resonances by Ultraviolet Illuminations ( <i>Advanced Optical Materials</i> 6/2018). <i>Advanced Optical Materials</i> , 2018, 6, 1870023.	7.3	1
69	Fluorescence: Silk Fluorescence Collimator for Ultrasensitive Humidity Sensing and Light Harvesting in Semitransparent Dye-Sensitized Solar Cells ( <i>Small</i> 13/2019). <i>Small</i> , 2019, 15, 1970069.	10.0	0
70	Effect of Ni loading and impregnation method on the hydrodenitrogenation of coal tar over $Ni-Mo/\gamma-Al_2O_3$ . <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, , 1-13.	2.3	0