Shunping Zhang

List of Publications by Year
in descending order

70 papers	4,954 citations	101543 36 h-index	98798 67 g-index
70 all docs	70 docs citations	70 times ranked	5968 citing authors

#	Article	IF	Citations
1	Identification of twist-angle-dependent excitons in WS2/WSe2 heterobilayers. National Science Review, 2022, 9, .	9.5	9
2	Uniform light emission from electrically driven plasmonic grating using multilayer tunneling barriers. Chinese Physics B, 2022, 31, 017803.	1.4	3
3	Revealing the Competition between Defectâ€Trapped Exciton and Bandâ€Edge Exciton Photoluminescence in Monolayer Hexagonal WS₂. Advanced Optical Materials, 2022, 10, .	7.3	8
4	The Universal Growth of Ultrathin Perovskite Single Crystals. Advanced Materials, 2022, 34, e2108396.	21.0	11
5	Merging bound states in the continuum by harnessing higher-order topological charges. Light: Science and Applications, 2022, 11, .	16.6	38
6	Understanding the lineshape of surface-enhanced infrared absorption spectra. National Science Review, 2021, 8, nwaa240.	9.5	2
7	Roles of MACl in Sequentially Deposited Bromineâ€Free Perovskite Absorbers for Efficient Solar Cells. Advanced Materials, 2021, 33, e2007126.	21.0	112
8	Controlling the immobilization process of an optically enhanced protein microarray for highly reproducible immunoassay. Nanoscale, 2021, 13, 4269-4277.	5.6	1
9	Superradiative plasmonic nanoantenna biosensors enable sensitive immunoassay using the naked eye. Nanoscale, 2021, 13, 2429-2435.	5.6	9
10	Merging Bound States in the Continuum at Off-High Symmetry Points. Physical Review Letters, 2021, 126, 117402.	7.8	107
11	Nanocavity mediated directional coupler in plasmonics waveguides. Optics Communications, 2021, , 127160.	2.1	0
12	Self-Constructed Multiple Plasmonic Hotspots on an Individual Fractal to Amplify Broadband Hot Electron Generation. ACS Nano, 2021, 15, 10553-10564.	14.6	37
13	Switchable Electrically Driven Optical Antenna Based on Ultrathin Amorphous Silica. Advanced Optical Materials, 2021, 9, 2100191.	7.3	5
14	Unified treatment of scattering, absorption, and luminescence spectra from a plasmonâ€“exciton hybrid by temporal coupled-mode theory. Journal of Chemical Physics, 2021, 155, 074104.	3.0	6
15	Nonlinear nanophotonics based on surface plasmon polaritons. Applied Physics Letters, 2021, 119, .	3.3	17
16	Strong plasmonâ€“exciton coupling in transition metal dichalcogenides and plasmonic nanostructures. Nanoscale, 2021, 13, 4408-4419.	5.6	44
17	Antenna-coupled vacuum channel nano-diode with high quantum efficiency. Nanoscale, 2020, 12, 1495-1499.	5.6	8
18	Suppressing the Phase Segregation with Potassium for Highly Efficient and Photostable Inverted Wide-Band Gap Halide Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 48458-48466.	8.0	41

#	Article	IF	Citations
19	Efficient Frequency Mixing of Guided Surface Waves by Atomically Thin Nonlinear Crystals. Nano Letters, 2020, 20, 7956-7963.	9.1	17
20	Selectively Depopulating Valley-Polarized Excitons in Monolayer MoS₂ by Local Chirality in Single Plasmonic Nanocavity. Nano Letters, 2020, 20, 4953-4959.	9.1	45
21	Duplicating Plasmonic Hotspots by Matched Nanoantenna Pairs for Remote Nanogap Enhanced Spectroscopy. Nano Letters, 2020, 20, 3499-3505.	9.1	27
22	Temperature-dependent dark-field scattering of single plasmonic nanocavity. Nanophotonics, 2020, 9, 3347-3356.	6.0	13
23	Routing a Chiral Raman Signal Based on Spin-Orbit Interaction of Light. Physical Review Letters, 2019, 123, 183903.	7.8	45
24	Simultaneous Surface-Enhanced Resonant Raman and Fluorescence Spectroscopy of Monolayer MoSe₂: Determination of Ultrafast Decay Rates in Nanometer Dimension. Nano Letters, 2019, 19, 6284-6291.	9.1	71
25	Ultrafast Modulation of Excitonâ€“Plasmon Coupling in a Monolayer WS₂â€“Ag Nanodisk Hybrid System. ACS Photonics, 2019, 6, 2832-2840.	6.6	52
26	Efficient Second Harmonic Generation in a Hybrid Plasmonic Waveguide by Mode Interactions. Nano Letters, 2019, 19, 3838-3845.	9.1	47
27	Analytical analysis of spectral sensitivity of plasmon resonances in a nanocavity. Nanoscale, 2019, 11, 10977-10983.	5.6	15
28	Kagome bands disguised in a coloring-triangle lattice. Physical Review B, 2019, 99, .	3.2	42
29	Closely packed metallic nanocuboid dimer allowing plasmomechanical strong coupling. Physical Review A, 2019, 99, .	2.5	10
30	Electrically Driven Highly Tunable Cavity Plasmons. ACS Photonics, 2019, 6, 823-829.	6.6	26
31	Steering Second-Harmonic Beams in Nanophotonic Waveguides by Gratings. ACS Photonics, 2019, 6, 3142-3149.	6.6	7
32	Light-controlled nanoswitches: from fabrication to photoelectric switching. Nanoscale, 2019, 11, 18496-18500.	5.6	8
33	Electrically Driven Optical Antennas Based on Template Dielectrophoretic Trapping. ACS Nano, 2019, 13, 14041-14047.	14.6	19
34	The novel plasmonics-transition metal dichalcogenides hybrid nanostructures. Scientia Sinica: Physica, Mechanica Et Astronomica, 2019, 49, 124205.	0.4	6
35	Probing of sub-picometer vertical differential resolutions using cavity plasmons. Nature Communications, 2018, 9, 801.	12.8	89
36	Plasmon Waveguiding in Nanowires. Chemical Reviews, 2018, 118, 2882-2926.	47.7	179

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37	Mimicking plasmonic nanolaser emission by selective extraction of electromagnetic near-field from photonic microcavity. Nanoscale, 2018, 10, 7431-7439.	5.6	7
38	Controllable defects implantation in MoS2 grown by chemical vapor deposition for photoluminescence enhancement. Nano Research, 2018, 11, 4123-4132.	10.4	55
39	Ultrasensitive nanosensors based on localized surface plasmon resonances: From theory to applications. Chinese Physics B, 2018, 27, 107403.	1.4	34
40	Light-Emitting Plexciton: Exploiting Plasmonâ€“Exciton Interaction in the Intermediate Coupling Regime. ACS Nano, 2018, 12, 10393-10402.	14.6	151
41	Plasmon-directed polymerization: Regulating polymer growth with light. Nano Research, 2018, 11, 6384-6390.	10.4	47
42	Probing the limits of plasmonic enhancement using a two-dimensional atomic crystal probe. Light: Science and Applications, 2018, 7, 56.	16.6	94
43	A General Method for Large-Scale Fabrication of Semiconducting Oxides with High SERS Sensitivity. ACS Applied Materials & Interfaces, 2017, 9, 14534-14544.	8.0	66
44	Manipulating Coherent Plasmonâ€“Exciton Interaction in a Single Silver Nanorod on Monolayer WSe₂. Nano Letters, 2017, 17, 3809-3814.	9.1	270
45	Transversely Divergent Second Harmonic Generation by Surface Plasmon Polaritons on Single Metallic Nanowires. Nano Letters, 2017, 17, 7803-7808.	9.1	63
46	Farâ€Field Spectroscopy and Nearâ€Field Optical Imaging of Coupled Plasmonâ€“Phonon Polaritons in 2D van der Waals Heterostructures. Advanced Materials, 2016, 28, 2931-2938.	21.0	77
47	Precise Sorting of Gold Nanoparticles in a Flowing System. ACS Photonics, 2016, 3, 2497-2504.	6.6	42
48	Tunable dark plasmons in a metallic nanocube dimer: toward ultimate sensitivity nanoplasmonic sensors. Nanoscale, 2016, 8, 13722-13729.	5.6	54
49	Recent Advances in Plasmonic Sensors. Sensors, 2014, 14, 7959-7973.	3.8	182
50	Ultrasensitive Size-Selection of Plasmonic Nanoparticles by Fano Interference Optical Force. ACS Nano, 2014, 8, 701-708.	14.6	75
51	Single Nanoparticle Couplers for Plasmonic Waveguides. Small, 2014, 10, 4264-4269.	10.0	25
52	Chiral Surface Plasmon Polaritons on One-Dimension Nanowires. , 2014, , 221-237.		0
53	Reduced linewidth multipolar plasmon resonances in metal nanorods and related applications. Nanoscale, 2013, 5, 6985.	5.6	78
54	Optical properties of single coupled plasmonic nanoparticles. Physical Chemistry Chemical Physics, 2013, 15, 4100.	2.8	31

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55	Highly tunable propagating surface plasmons on supported silver nanowires. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4494-4499.	7.1	117
56	From gold nanorods to nanodumbbells: a different way to tailor surface plasmon resonances by a chemical route. Journal of Materials Chemistry, 2012, 22, 24006.	6.7	22
57	Optimizing Substrate-Mediated Plasmon Coupling toward High-Performance Plasmonic Nanowire Waveguides. ACS Nano, 2012, 6, 8128-8135.	14.6	116
58	Plasmonic Properties of Gold Nanoparticles Separated from a Gold Mirror by an Ultrathin Oxide. Nano Letters, 2012, 12, 2088-2094.	9.1	256
59	Relationship between Length and Surface-Enhanced Raman Spectroscopy Signal Strength in Metal Nanoparticle Chains: Ideal Models versus Nanofabrication. Journal of Nanotechnology, 2012, 2012, 1-7.	3.4	7
60	Quantum Dot-Based Local Field Imaging Reveals Plasmon-Based Interferometric Logic in Silver Nanowire Networks. Nano Letters, 2011, 11, 471-475.	9.1	267
61	Substrate-Induced Fano Resonances of a Plasmonic Nanocube: A Route to Increased-Sensitivity Localized Surface Plasmon Resonance Sensors Revealed. Nano Letters, 2011, 11, 1657-1663.	9.1	649
62	Chiral Surface Plasmon Polaritons on Metallic Nanowires. Physical Review Letters, 2011, 107, 096801.	7.8	225
63	Coherent Modulation of Propagating Plasmons in Silverâ€Nanowireâ€Based Structures. Small, 2011, 7, 593-596.	10.0	74
64	Controlled Synthesis of Uniform Silver Nanospheres. Journal of Physical Chemistry C, 2010, 114, 7427-7431.	3.1	116
65	Near-field coupling and SERS effects of palladium nanoparticle dimers. Science Bulletin, 2010, 55, 2930-2936.	1.7	6
66	Tunable SERS in Gold Nanorod Dimers through Strain Control on an Elastomeric Substrate. Nano Letters, 2010, 10, 4488-4493.	9.1	186
67	Branched Silver Nanowires as Controllable Plasmon Routers. Nano Letters, 2010, 10, 1950-1954.	9.1	264
68	A highâ€throughput method for controlled hotâ€spot fabrication in SERSâ€active gold nanoparticle dimer arrays. Journal of Raman Spectroscopy, 2009, 40, 2171-2175.	2.5	91
69	Near- and Deep-Ultraviolet Resonance Raman Spectroscopy of Pyrazineâ^'Al₄ Complex and Al₃â^'Pyrazineâ^'Al₃ Junction. Journal of Physical Chemistry C, 2009, 113, 19328-19334.	3.1	21
70	Band alignment and interlayer hybridization in monolayer organic/WSe2 heterojunction. Nano Research, 0, , 1.	10.4	10