Guangyuan Li

List of Publications by Year
in descending order

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88 papers	1,599 citations	361413 20 h-index	315739 38 g-index
91 all docs	91 docs citations	91 times ranked	2259 citing authors

#	Article	IF	Citations
1	Narrowband terahertz metasurface circular polarization beam splitter with large spectral tunability based on lattice-induced chirality. Journal Physics D: Applied Physics, 2022, 55, 105109.	2.8	2
2	Deep Learning Optimized Terahertz Single-Pixel Imaging. IEEE Transactions on Terahertz Science and Technology, 2022, 12, 165-172.	3.1	11
3	Active tuning of resonant lattice Kerker effect. Journal Physics D: Applied Physics, 2022, 55, 185106.	2.8	8
4	Strong Coupling between Plasmonic Surface Lattice Resonance and Photonic Microcavity Modes. Photonics, 2022, 9, 84.	2.0	4
5	Selenium Vacancies and Synergistic Effect of Near- and Far-Field-Enabled Ultrasensitive Surface-Enhanced Raman-Scattering-Active Substrates for Malaria Detection. Journal of Physical Chemistry Letters, 2022, 13, 1453-1463.	4.6	4
6	Terahertz dynamic Ï€-phase modulation with high transmittance using graphene-metal metamaterials. Journal of Optics (United Kingdom), 2022, 24, 044007.	2.2	2
7	Waferâ€Scale Growth of Verticalâ€Structured SnSe₂ Nanosheets for Highly Sensitive, Fastâ€Response UVâ€“Visâ€“NIR Broadband Photodetectors. Advanced Optical Materials, 2022, 10, .	7.3	10
8	Significant Near-Field Enhancement over Large Volumes around Metal Nanorods via Strong Coupling of Surface Lattice Resonances and Fabryâ€“PÃ©rot Resonance. Materials, 2022, 15, 1523.	2.9	3
9	Extremely Narrow and Actively Tunable Mie Surface Lattice Resonances in GeSbTe Metasurfaces: Study. Nanomaterials, 2022, 12, 701.	4.1	7
10	Single Image Super-Resolution Method Based on an Improved Adversarial Generation Network. Applied Sciences (Switzerland), 2022, 12, 6067.	2.5	4
11	Polarization-independent resonant lattice Kerker effect in phase-change metasurface. Journal Physics D: Applied Physics, 2022, 55, 395107.	2.8	6
12	Dynamically Switchable Multispectral Plasmon-Induced Transparency in Stretchable Metamaterials. Plasmonics, 2021, 16, 477-483.	3.4	3
13	Dynamically tunable triple-band terahertz perfect absorber based on graphene metasurface. Superlattices and Microstructures, 2021, 150, 106797.	3.1	21
14	Nonvolatile and reconfigurable tuning of surface lattice resonances using phase-change Ge2Sb2Te5 thin films. Results in Physics, 2021, 22, 103897.	4.1	6
15	Dynamically reversible and strong circular dichroism based on Babinet-invertible chiral metasurfaces. Optics Letters, 2021, 46, 1309.	3.3	35
16	High-Q quadrupolar plasmonic lattice resonances in horizontal metalâ€“insulatorâ€“metal gratings. Optics Letters, 2021, 46, 1546.	3.3	24
17	Ultra-broadband terahertz bandpass filter with dynamically tunable attenuation based on a grapheneâ€“metal hybrid metasurface. Applied Optics, 2021, 60, 6366.	1.8	7
18	Terahertz bandstop-to-bandpass converter based on VO₂ hybrid metasurface. Journal Physics D: Applied Physics, 2021, 54, 435105.	2.8	15

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19	Broadband switchable terahertz half-/quarter-wave plate based on VO₂-metal hybrid metasurface with over/underdamped transition. Journal Physics D: Applied Physics, 2021, 54, 505111.	2.8	15
20	Ultrasensitive and Tunable Sensor Based on Plasmon-Induced Transparency in a Black Phosphorus Metasurface. Plasmonics, 2021, 16, 1071-1077.	3.4	7
21	Full 360Â° Terahertz Dynamic Phase Modulation Based on Doubly Resonant Grapheneâ€“Metal Hybrid Metasurfaces. Nanomaterials, 2021, 11, 3157.	4.1	12
22	Mirror-backed dielectric metasurface sensor with ultrahigh figure of merit based on a super-narrow Rayleigh anomaly. Applied Optics, 2021, 60, 11205.	1.8	3
23	Nonvolatile, Reconfigurable and Narrowband Mid-Infrared Filter Based on Surface Lattice Resonance in Phase-Change Ge2Sb2Te5. Nanomaterials, 2020, 10, 2530.	4.1	21
24	Ultra-broadband reflectors covering the entire visible regime based on cascaded high-index-contrast gratings. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	1
25	Exceptionally narrow plasmonic surface lattice resonances in gold nanohemisphere array. Journal Physics D: Applied Physics, 2020, 53, 465109.	2.8	17
26	Gain enhancement of terahertz patch antennas by coating epsilon-near-zero metamaterials. Superlattices and Microstructures, 2020, 139, 106390.	3.1	23
27	Terahertz Single-Pixel Imaging Improved by Using Silicon Wafer with SiO2 Passivation. Applied Sciences (Switzerland), 2020, 10, 2427.	2.5	4
28	Switchable broadband and wide-angular terahertz asymmetric transmission based on a hybrid metal-VO₂ metasurface. Optics Express, 2020, 28, 30675.	3.4	41
29	Broadband switchable terahertz half-/quarter-wave plate based on metal-VO₂ metamaterials. Optics Express, 2020, 28, 30861.	3.4	36
30	Design of broadband highly reflective subwavelength high-index-contrast gratings in the visible regime. OSA Continuum, 2020, 3, 1232.	1.8	5
31	Tunable 3D light trapping architectures based on self-assembled SnSe₂nanoplate arrays for ultrasensitive SERS detection. Journal of Materials Chemistry C, 2019, 7, 10179-10186.	5.5	36
32	Fourier single-pixel imaging in the terahertz regime. Applied Physics Letters, 2019, 115, .	3.3	27
33	Unidirectional plasmonic Bragg reflector based on longitudinally asymmetric nanostructures. Chinese Physics B, 2019, 28, 074208.	1.4	2
34	Two-dimensional plasmonic waveguides for nanolasing and four-wave mixing. New Journal of Physics, 2019, 21, 103004.	2.9	2
35	Large Near-Field Enhancement in Terahertz Antennas by Using Hyperbolic Metamaterials with Hole Arrays. Applied Sciences (Switzerland), 2019, 9, 2524.	2.5	6
36	Classification of Genetically Identical Left and Right Irises Using a Convolutional Neural Network. Electronics (Switzerland), 2019, 8, 1109.	3.1	8

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37	Thermal Analysis of Cornea Heated with Terahertz Radiation. Applied Sciences (Switzerland), 2019, 9, 917.	2.5	6
38	Narrow plasmonic surface lattice resonances with preference to asymmetric dielectric environment. Optics Express, 2019, 27, 25384.	3.4	36
39	Necessary conditions for out-of-plane lattice plasmons in nanoparticle arrays. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 805.	2.1	14
40	Fundamental Limitations to the Ultimate Kerr Nonlinear Performance of Plasmonic Waveguides. ACS Photonics, 2018, 5, 1034-1040.	6.6	19
41	Greatly enhanced Kerr nonlinearity in hyperbolic slot waveguides. , 2018, , .		0
42	A theory of waveguide design for plasmonic nanolasers. Nanoscale, 2018, 10, 21434-21440.	5.6	3
43	Doubly Enhanced Second Harmonic Generation through Structural and Epsilon-near-Zero Resonances in TiN Nanostructures. ACS Photonics, 2018, 5, 2087-2093.	6.6	49
44	Plasmonic waveguides for nano-lasing and four-wave mixing. , 2018, , .		0
45	Broadband slow-light enhancement of nonlinear effects with plasmonic structures. , 2017, , .		0
46	Relative performance of one-dimensional nonlinear plasmonic structures. , 2017, , .		0
47	General analytic expression and numerical approach for the Kerr nonlinear coefficient of optical waveguides. Optics Letters, 2017, 42, 1329.	3.3	13
48	Ultimate Performance Of Kerr Nonlinear Plasmonics Waveguides. , 2017, , .		0
49	Figure of merit for Kerr nonlinear plasmonic waveguides. Laser and Photonics Reviews, 2016, 10, 639-646.	8.7	40
50	Kerr nonlinear characteristics of plasmonic waveguide devices. , 2016, , .		0
51	Kerr effect in hybrid plasmonic waveguides. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 957.	2.1	11
52	Purified plasmonic lasing with strong polarization selectivity by reflection. Optics Express, 2015, 23, 15657.	3.4	4
53	Scattering by abrupt discontinuities on photonic nanowires: closed-form expressions for domain reduction. Optics Express, 2014, 22, 25137.	3.4	5
54	Transparent free-standing metamaterials and their applications in surface-enhanced Raman scattering. Nanoscale, 2014, 6, 132-139.	5.6	48

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55	Simultaneous Measurement of Refractive Index and Temperature Based on Surface Plasmon Resonance Sensors. Journal of Lightwave Technology, 2014, 32, 4169-4173.	4.6	43
56	A room temperature low-threshold ultraviolet plasmonic nanolaser. Nature Communications, 2014, 5, 4953.	12.8	278
57	Ultra-broadband and efficient surface plasmon polariton launching through metallic nanoslits of subwavelength period. Scientific Reports, 2014, 4, 5914.	3.3	16
58	Vertically Aligned Gold Nanorod Monolayer on Arbitrary Substrates: Self-Assembly and Femtomolar Detection of Food Contaminants. ACS Nano, 2013, 7, 5993-6000.	14.6	218
59	Multiple Magnetic Mode-Based Fano Resonance in Split-Ring Resonator/Disk Nanocavities. ACS Nano, 2013, 7, 11071-11078.	14.6	97
60	Unidirectionally optical coupling from free space into silicon waveguide with wide flat-top angular efficiency. Optics Express, 2012, 20, 18545.	3.4	8
61	Fabryâ€“PÃ©rot-based surface plasmon resonance sensors. Optics Letters, 2012, 37, 4582.	3.3	55
62	Compact Bidirectional Polarization Splitting Antenna. IEEE Photonics Journal, 2012, 4, 1744-1751.	2.0	15
63	Compact, Broadband, and Wide-Angle Optical Coupling for Silicon Waveguide. IEEE Photonics Journal, 2012, 4, 2116-2125.	2.0	3
64	Theory, Figures of Merit, and Design Recipe of the Plasmonic Structure Composed of a Nano-Slit Aperture Surrounded by Surface Corrugations. Journal of Lightwave Technology, 2012, 30, 2405-2414.	4.6	8
65	A compact wavelength demultiplexing structure based on arrayed MIM plasmonic nano-disk cavities. Optics Communications, 2012, 285, 5519-5523.	2.1	17
66	Ultra-broadband, Efficient and Unidirectional Random-Nanoslits Coupler for Metal-Insulator-Metal Plasmons. , 2012, , .		0
67	Theory of the scattering of light and surface plasmon polaritons by finite-size subwavelength metallic defects via field decomposition. New Journal of Physics, 2011, 13, 073045.	2.9	19
68	Compact surface wave polarization splitter based on the metallic-dielectric-air waveguide. Proceedings of SPIE, 2011, , .	0.8	0
69	Plasmonic critical angle in optical transmission through subwavelength metallic gratings. Optics Letters, 2011, 36, 4584.	3.3	15
70	Enhanced optical transmission through a metallic slit covered with a nanostrip and surrounded by corrugations. Proceedings of SPIE, 2011, , .	0.8	0
71	Novel subwavelength optical signal access via a plasmonic concentrator and a dielectric microring. , 2011, , .		0
72	Efficient free-space optical coupler into dielectric waveguide with great field enhancement. , 2011, , .		0

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73	Novel subwavelength optical signal access via a plasmonic concentrator and a dielectric microring. , 2011, , .		0
74	Enhanced optical transmission through a metallic slit covered with a nanostrip and surrounded by corrugations. , 2011, , .		0
75	Compact surface wave polarization splitter based on the metallic-dielectric-air waveguide. , 2011, , .		0
76	A quantitative theory and the generalized Bragg condition for surface plasmon Bragg reflectors. Optics Express, 2010, 18, 10487.	3.4	17
77	Theory of enhanced optical transmission through a metallic nano-slit surrounded with asymmetric grooves under oblique incidence. Optics Express, 2010, 18, 19495.	3.4	22
78	Interference and horizontal Fabry-Perot resonance on extraordinary transmission through a metallic nanoslit surrounded by grooves. Optics Letters, 2010, 35, 127.	3.3	29
79	Theoretical reexamination of the cross conversion between surface plasmon polaritons and quasi-cylindrical waves. Optics Letters, 2010, 35, 3162.	3.3	2
80	Recent progress in wide field-of-view optical receivers. Science Bulletin, 2009, 54, 3618-3622.	1.7	1
81	Cascade arrangement of irregular optical phased arrays. Optics Communications, 2008, 281, 1945-1949.	2.1	3
82	Phase shift of plasmons excited by slits in a metal film illuminated by oblique incident TM plane wave. Proceedings of SPIE, 2008, , .	0.8	4
83	Analysis of the ${m TE}$-Pass or ${m TM}$-Pass Metal-Clad Polarizer With a Resonant Buffer Layer. Journal of Lightwave Technology, 2008, 26, 1234-1241.	4.6	26
84	Resonance between free space light and waveguide TM mode via surface plasmon wave. , 2008, , .		0
85	Modeling and design of irregularly arrayed waveguide gratings. Optics Express, 2007, 15, 3888.	3.4	4
86	Quality factor enhancement of plasmonic surface lattice resonance by using asymmetric periods. Chinese Physics B, 0, , .	1.4	2
87	Narrow quadrupolar surface lattice resonances and band reversal in vertical metal-insulator-metal gratings. Journal Physics D: Applied Physics, 0, , .	2.8	7
88	Terahertz dynamic Ï€-phase modulation with high transmittance using graphene-metal metamaterials. Journal of Optics (United Kingdom), 0, , .	2.2	0