Chao Liu

List of Publications by Year
in descending order

90	2,434	236612	223531
papers	citations	25 h-index	46 g-index

90	90	90	990
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new technique to optimize the properties of photonic crystal fibers supporting transmission of multiple orbital angular momentum modes. Journal of Optics (India), 2023, 52, 307-316.	0.8	7
2	Combining Pancharatnamâ€“Berry Phase and Conformal Coding Metasurface for Dual-Band RCS Reduction. IEEE Transactions on Antennas and Propagation, 2022, 70, 2352-2357.	3.1	24
3	Highly Sensitive Dual-core Photonic Crystal Fiber Based on a Surface Plasmon Resonance Sensor with Gold Film. Plasmonics, 2022, 17, 543-550.	1.8	8
4	Photonic fibre crystal sensor with a D-shape based on surface plasma resonance containing microfluidic channels for detection of a wide range of refractive indexes. Journal of Modern Optics, 2022, 69, 1-11.	0.6	2
5	A novel photonic quasi-crystal fiber for transmission of orbital angular momentum modes. Optik, 2022, 251, 168446.	1.4	5
6	A square-lattice D-shaped photonic crystal fiber sensor based on SPR to detect analytes with large refractive indexes. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 138, 115106.	1.3	35
7	Thermal tuning of terahertz metamaterial absorber properties based on VO₂. Physical Chemistry Chemical Physics, 2022, 24, 8846-8853.	1.3	197
8	A highly sensitive D-type photonic crystal fiber infrared sensor with indium tin oxide based on surface plasmon resonance. Modern Physics Letters B, 2022, 36, .	1.0	14
9	Detection of kerosene adulteration in automobile fuel by a low-loss surface plasmon resonance (SPR) chemical sensor. Analytical Methods, 2022, 14, 2153-2160.	1.3	3
10	Grating Structure Broadband Absorber Based on Gallium Arsenide and Titanium. Coatings, 2022, 12, 588.	1.2	2
11	Effects of air holes in the cladding of photonic crystal fibers on dispersion and confinement loss of orbital angular momentum modes. Optical and Quantum Electronics, 2022, 54, .	1.5	8
12	Numerical Analysis of Multifunctional Biosensor with Dual-Channel Photonic Crystal Fibers Based on Localized Surface Plasmon Resonance. Coatings, 2022, 12, 742.	1.2	3
13	HE1,1 mode-excited surface plasmon resonance for refractive index sensing by photonic crystal fibers with high sensitivity and long detection distance. Optik, 2022, 265, 169471.	1.4	10
14	A photonic quasi-crystal fibre supporting stable transmission of 150 OAM modes with high mode quality and flat dispersion. Journal of Modern Optics, 2022, 69, 887-896.	0.6	3
15	Ultra-short and dual-core photonic crystal fiber polarization splitter composed of metal and gallium arsenide. Optik, 2021, 226, 165779.	1.4	25
16	Dual-Band Polarization Conversion Metasurface for RCS Reduction. IEEE Transactions on Antennas and Propagation, 2021, 69, 3044-3049.	3.1	50
17	Overview of refractive index sensors comprising photonic crystal fibers based on the surface plasmon resonance effect [Invited]. Chinese Optics Letters, 2021, 19, 102202.	1.3	65
18	Surface plasmon resonance sensor based on U-shaped photonic quasi-crystal fiber. Applied Optics, 2021, 60, 1761.	0.9	27

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19	Multi-functional gallium arsenide photonic crystal polarization splitter with a gold core. Modern Physics Letters B, 2021, 35, 2150229.	1.0	3
20	A photonic quasi-crystal fiber composed of circular air holes with high birefringence and low confinement loss. Optik, 2021, 231, 166497.	1.4	3
21	Ultra-short dual-core GaAs photonic crystal fiber splitter filled with nematic liquid crystal. Optical Engineering, 2021, 60, .	0.5	4
22	Theoretical Study on the Stability, Electronic, Magnetic and Spectral Properties of GanAg (n = 1â€“7) Clusters. Russian Journal of Physical Chemistry B, 2021, 15, 420-427.	0.2	0
23	Investigation of a high-sensitivity surface plasmon resonance sensor based on the eccentric core quasi D-shape photonic quasi-crystal fiber. Journal of Modern Optics, 2021, 68, 555-563.	0.6	4
24	Optical Anapole Modes in Gallium Phosphide Nanodisk with Forked Slits for Electric Field Enhancement. Nanomaterials, 2021, 11, 1490.	1.9	7
25	Circular anti-resonance fibre supporting orbital angular momentum modes with flat dispersion, high purity and low confinement loss. Journal of Modern Optics, 2021, 68, 784-791.	0.6	17
26	Design of pure silica-based photonic crystal fiber for supporting 114 OAM modes transmission. Journal of Optics (United Kingdom), 2021, 23, 095701.	1.0	15
27	Enhancement of unidirectional forward scattering and suppression of backward scattering in hollow silicon nanoblocks. Applied Optics, 2021, 60, 8737.	0.9	1
28	Design of broadband single-polarization filter based on simple structure photonic crystal fiber with gold-coated air holes. Modern Physics Letters B, 2021, 35, .	1.0	2
29	Dual-core photonic crystal fiber polarization beam splitter filled with salt water. Optical Engineering, 2021, 60, .	0.5	1
30	Optimization of photonic crystal fibers for transmission of orbital angular momentum modes. Optical and Quantum Electronics, 2021, 53, 1.	1.5	12
31	Efficient photonic crystal fiber polarization splitters composed of gallium arsenide and nematic liquid crystals. Modern Physics Letters B, 2021, 35, 2150077.	1.0	2
32	Surface plasmon resonance chemical sensor composed of a microstructured optical fiber for the detection of an ultra-wide refractive index range and gas-liquid pollutants. Optics Express, 2021, 29, 40734.	1.7	68
33	Dual-Bandwidth Linear Polarization Converter Based on Anisotropic Metasurface. IEEE Photonics Journal, 2020, 12, 1-11.	1.0	33
34	Numerical analysis of a high-birefringent photonic quasi-crystal fiber with circular air holes. Optik, 2020, 207, 163850.	1.4	2
35	Surface plasmon resonance sensor based on coupling effects of dual photonic crystal fibers for low refractive indexes detection. Results in Physics, 2020, 18, 103240.	2.0	60
36	A hollow dual-core PCF-SPR sensor with gold layers on the inner and outer surfaces of the thin cladding. Results in Optics, 2020, 1, 100004.	0.9	31

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37	Forward and Backward Unidirectional Scattering by the Core-Shell Nanocube Dimer with Balanced Gain and Loss. Nanomaterials, 2020, 10, 1440.	1.9	3
38	Design of bimetal-coated photonic crystal fiber filter based on surface plasmon resonance. Results in Optics, 2020, 1, 100027.	0.9	9
39	Reflection-type 1-bit coding metasurface for radar cross section reduction combined diffusion and reflection. Journal Physics D: Applied Physics, 2020, 53, 445107.	1.3	21
40	Surface plasmon resonance sensor based on photonic crystal fiber with indium tin oxide film. Optical Materials, 2020, 102, 109800.	1.7	70
41	Toroidal dipole and magnetic multipole excitations from the same nanostructure with different direction of electric dipole emitters. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	1
42	Surface plasmon resonance (SPR) infrared sensor based on D-shape photonic crystal fibers with ITO coatings. Optics Communications, 2020, 464, 125496.	1.0	157
43	Near-infrared surface plasmon resonance sensor based on photonic crystal fiber with big open rings. Optik, 2020, 207, 164466.	1.4	41
44	High-sensitivity SPR sensor based on the eightfold eccentric core PQF with locally coated indium tin oxide. Applied Optics, 2020, 59, 6484.	0.9	10
45	Single-polarization photonic crystal fiber filter composed of elliptical gold films. Optical Engineering, 2020, 59, 1.	0.5	4
46	Ultra-sensitive hexagonal PCF-SPR sensor with a broad detection range. Journal of Modern Optics, 2020, 67, 1545-1554.	0.6	9
47	Ex-centric core photonic crystal fiber sensor with gold nanowires based on surface plasmon resonance. Optik, 2019, 196, 163173.	1.4	34
48	The single-polarization filter composed of gold-coated photonic crystal fiber. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 3200-3206.	0.9	32
49	Transfer matrix method for simulation of the fiber Bragg grating in polarization maintaining fiber. Optics Communications, 2019, 452, 185-188.	1.0	11
50	Localized Surface Plasmon Resonance Properties of Concentric Dual-Ring Nanodisk. Nano, 2019, 14, 1950071.	0.5	0
51	Asymmetrical photonic crystal fiber based on the surface plasmon resonance sensor and analysis by the lower-birefringence peak method. Optik, 2019, 189, 121-129.	1.4	3
52	High-Efficiency Dual-Frequency Reflective Linear Polarization Converter Based on Metasurface for Microwave Bands. Applied Sciences (Switzerland), 2019, 9, 1910.	1.3	17
53	Dual-band unidirectional forward scattering of Auâ€“Si sliced nanorod in the visible region. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	4
54	Optical diode composed of subwavelength slit-groove arrays with ultrahigh transmission contrast based on surface plasmon polariton. Optik, 2019, 186, 266-274.	1.4	3

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55	A high-birefringent photonic quasi-crystal fiber with two elliptical air holes. Optik, 2019, 184, 10-15.	1.4	10
56	Theoretical assessment of a highly sensitive photonic crystal fibre based on surface plasmon resonance sensor operating in the near-infrared wavelength. Journal of Modern Optics, 2019, 66, 1-6.	0.6	74
57	Tunable single-polarization bimetal-coated and liquid-filled photonic crystal fiber filter based on surface plasmon resonance. Applied Optics, 2019, 58, 6308.	0.9	22
58	Surface plasmon resonance sensor based onÂeccentric core photonic quasi-crystal fiberÂwith indium tin oxide. Applied Optics, 2019, 58, 6848.	0.9	22
59	Photonic spin Hall effect: a new window in D-shaped fiber by weak measurements. Optics Express, 2019, 27, 14064.	1.7	3
60	Dual-band directional scattering with all-dielectric trimer in the near-infrared region. Applied Optics, 2019, 58, 5082.	0.9	3
61	Fano resonances in symmetric plasmonic split-ring/ring dimer nanostructures. Applied Optics, 2019, 58, 8069.	0.9	0
62	Discriminating Twisting Direction by Polarization Maintaining Fiber Bragg Grating. IEEE Photonics Technology Letters, 2018, 30, 654-657.	1.3	6
63	A high-sensitivity photonic crystal fiber (PCF) based on the surface plasmon resonance (SPR) biosensor for detection of density alteration in non-physiological cells (DANCE). Opto-electronics Review, 2018, 26, 50-56.	2.4	44
64	Analysis of a Surface Plasmon Resonance Probe Based on Photonic Crystal Fibers for Low Refractive Index Detection. Plasmonics, 2018, 13, 779-784.	1.8	137
65	Localized surface plasmon resonance properties of symmetry-broken Auâ€"ITOâ€"Ag multilayered nanoshells. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	4
66	Symmetrical dual D-shape photonic crystal fibers for surface plasmon resonance sensing. Optics Express, 2018, 26, 9039.	1.7	213
67	A Highly Sensitive SPR Sensors Based on Two Parallel PCFs for Low Refractive Index Detection. IEEE Photonics Journal, 2018, 10, 1-10.	1.0	25
68	Birefringent PCF-Based SPR Sensor for a Broad Range of Low Refractive Index Detection. IEEE Photonics Technology Letters, 2018, 30, 1471-1474.	1.3	50
69	Multi-wavelength unidirectional forward scattering in the visible range in an all-dielectric silicon hollow nanodisk. Applied Optics, 2018, 57, 4771.	0.9	8
70	Highly sensitive PCF-SPR biosensor for hyperthermia temperature monitoring. Journal of Optics (India), 2018, 47, 288-294.	0.8	14
71	Multiple unidirectional forward scattering of hybrid metal-dielectric nanoantenna in the near-infrared region. Optical Materials Express, 2018, 8, 3410.	1.6	1
72	Localized surface plasmon resonance properties of Ag nanorod arrays on graphene-coated Au substrate. Optics Communications, 2017, 402, 216-220.	1.0	10

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73	Analysis of Local Surface Plasmon Resonance in Multilayered Au/Ag/Graphene Nanoshells. Nano, 2017, 12, 1750062.	0.5	4
74	A Highly Sensitive Dual-Core Photonic Crystal Fiber Based on a Surface Plasmon Resonance Biosensor with Silver-Graphene Layer. Plasmonics, 2017, 12, 1847-1853.	1.8	70
75	Influence of annealing on microstructure and properties of Cr-doped ZnO thin films deposited on glass surface. Journal of Materials Science: Materials in Electronics, 2017, 28, 3812-3818.	1.1	3
76	Numerical analysis of a photonic crystal fiber based on a surface plasmon resonance sensor with an annular analyte channel. Optics Communications, 2017, 382, 162-166.	1.0	91
77	Mid-infrared surface plasmon resonance sensor based on photonic crystal fibers. Optics Express, 2017, 25, 14227.	1.7	222
78	Nanoscale Mechanical Properties of Nanoindented Ni48.8Mn27.2Ga24 Ferromagnetic Shape Memory Thin Film. Scanning, 2017, 2017, 1-5.	0.7	0
79	Optical properties of local surface plasmon resonance in Ag/ITO sliced nanosphere by the discrete dipole approximation. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	3
80	Theoretical Assessment of Localized Surface Plasmon Resonance Properties of Au-Interlayer-Ag Multilayered Nanoshells. Plasmonics, 2016, 11, 1589-1595.	1.8	10
81	Analysis of a highly birefringent asymmetric photonic crystal fibre based on a surface plasmon resonance sensor. Journal of Modern Optics, 2016, 63, 1189-1195.	0.6	12
82	A highly temperature-sensitive photonic crystal fiber based on surface plasmon resonance. Optics Communications, 2016, 359, 378-382.	1.0	59
83	Structural and optical properties of oxygen to argon flow ratio on the Zn0.98Cr0.02O thin films deposited by RF magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2016, 27, 316-321.	1.1	0
84	Effects of sputtering power on structural, electrical and optical properties of Cr-doped ZnO thin films prepared by magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2015, 26, 493-497.	1.1	8
85	Synthesis of Niâ€“TiN composite nanocoatings by magnetic pulse current deposition. Ceramics International, 2015, 41, 11445-11448.	2.3	21
86	Analysis of Localized Surface Plasmon Resonance in Ag/ITO/CdS/SiO2 Multilayered Nanostructured Composite. Nano, 2015, 10, 1550117.	0.5	0
87	Design and theoretical analysis of a photonic crystal fiber based on surface plasmon resonance sensing. Journal of Nanophotonics, 2015, 9, 093050.	0.4	33
88	Plasma-target surface interaction during non-equilibrium plasma irradiation at atmospheric pressure: Generation of dusty plasma. Laser and Particle Beams, 2014, 32, 69-78.	0.4	6
89	Effects of substrate temperature on the structural and magnetic properties in Cr-doped ZnO films prepared by magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2014, 25, 4139-4144.	1.1	4
90	Microstructures of Niâ€“AlN composite coatings prepared by pulse electrodeposition technology. Applied Surface Science, 2013, 271, 7-11.	3.1	60