

Chao Liu

List of Publications by Year in Descending Order

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Version: 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

1,258
citations

18
h-index

34
g-index

90
ext. papers

1,797
ext. citations

2.2
avg, IF

4.79
L-index

#	Paper	IF	Citations
84	A novel photonic quasi-crystal fiber for transmission of orbital angular momentum modes. <i>Optik</i> , 2022 , 251, 168446	2.5	0
83	A square-lattice D-shaped photonic crystal fiber sensor based on SPR to detect analytes with large refractive indexes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 138, 115106	3	4
82	Thermal tuning of terahertz metamaterial absorber properties based on VO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2022 ,	3.6	40
81	Grating Structure Broadband Absorber Based on Gallium Arsenide and Titanium. <i>Coatings</i> , 2022 , 12, 5882.9		
80	Numerical Analysis of Multifunctional Biosensor with Dual-Channel Photonic Crystal Fibers Based on Localized Surface Plasmon Resonance. <i>Coatings</i> , 2022 , 12, 742	2.9	0
79	Efficient photonic crystal fiber polarization splitters composed of gallium arsenide and nematic liquid crystals. <i>Modern Physics Letters B</i> , 2021 , 35, 2150077	1.6	0
78	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. <i>Optics Express</i> , 2021 , 29, 40734	3.3	9
77	Optimization of photonic crystal fibers for transmission of orbital angular momentum modes. <i>Optical and Quantum Electronics</i> , 2021 , 53, 1	2.4	2
76	Multi-functional gallium arsenide photonic crystal polarization splitter with a gold core. <i>Modern Physics Letters B</i> , 2021 , 35, 2150229	1.6	0
75	A photonic quasi-crystal fiber composed of circular air holes with high birefringence and low confinement loss. <i>Optik</i> , 2021 , 231, 166497	2.5	0
74	Ultra-short dual-core GaAs photonic crystal fiber splitter filled with nematic liquid crystal. <i>Optical Engineering</i> , 2021 , 60,	1.1	4
73	Theoretical Study on the Stability, Electronic, Magnetic and Spectral Properties of GaAg (n = 10) Clusters. <i>Russian Journal of Physical Chemistry B</i> , 2021 , 15, 420-427	1.2	
72	Investigation of a high-sensitivity surface plasmon resonance sensor based on the eccentric core quasi D-shape photonic quasi-crystal fiber. <i>Journal of Modern Optics</i> , 2021 , 68, 555-563	1.1	2
71	Optical Anapole Modes in Gallium Phosphide Nanodisk with Forked Slits for Electric Field Enhancement. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
70	Circular anti-resonance fibre supporting orbital angular momentum modes with flat dispersion, high purity and low confinement loss. <i>Journal of Modern Optics</i> , 2021 , 68, 784-791	1.1	4
69	Ultra-short and dual-core photonic crystal fiber polarization splitter composed of metal and gallium arsenide. <i>Optik</i> , 2021 , 226, 165779	2.5	13
68	Dual-Band Polarization Conversion Metasurface for RCS Reduction. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 3044-3049	4.9	17

67	Overview of refractive index sensors comprising photonic crystal fibers based on the surface plasmon resonance effect [Invited]. <i>Chinese Optics Letters</i> , 2021 , 19, 102202	2.2	13
66	Surface plasmon resonance sensor based on U-shaped photonic quasi-crystal fiber. <i>Applied Optics</i> , 2021 , 60, 1761-1766	1.7	11
65	Design of pure silica-based photonic crystal fiber for supporting 114 OAM modes transmission. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 095701	1.7	3
64	Enhancement of unidirectional forward scattering and suppression of backward scattering in hollow silicon nanoblocks. <i>Applied Optics</i> , 2021 , 60, 8737-8743	1.7	0
63	Combining Pancharatnam-Berry Phase and Conformal Coding Metasurface for Dual-band RCS Reduction. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	1
62	Design of bimetal-coated photonic crystal fiber filter based on surface plasmon resonance. <i>Results in Optics</i> , 2020 , 1, 100027	1	5
61	Reflection-type 1-bit coding metasurface for radar cross section reduction combined diffusion and reflection. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 445107	3	5
60	Surface plasmon resonance sensor based on photonic crystal fiber with indium tin oxide film. <i>Optical Materials</i> , 2020 , 102, 109800	3.3	35
59	Toroidal dipole and magnetic multipole excitations from the same nanostructure with different direction of electric dipole emitters. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	1
58	Surface plasmon resonance (SPR) infrared sensor based on D-shape photonic crystal fibers with ITO coatings. <i>Optics Communications</i> , 2020 , 464, 125496	2	69
57	Near-infrared surface plasmon resonance sensor based on photonic crystal fiber with big open rings. <i>Optik</i> , 2020 , 207, 164466	2.5	20
56	High-sensitivity SPR sensor based on the eightfold eccentric core PQF with locally coated indium tin oxide. <i>Applied Optics</i> , 2020 , 59, 6484-6489	1.7	2
55	Single-polarization photonic crystal fiber filter composed of elliptical gold films. <i>Optical Engineering</i> , 2020 , 59, 1	1.1	2
54	Ultra-sensitive hexagonal PCF-SPR sensor with a broad detection range. <i>Journal of Modern Optics</i> , 2020 , 67, 1545-1554	1.1	1
53	Dual-Bandwidth Linear Polarization Converter Based on Anisotropic Metasurface. <i>IEEE Photonics Journal</i> , 2020 , 12, 1-11	1.8	12
52	Numerical analysis of a high-birefringent photonic quasi-crystal fiber with circular air holes. <i>Optik</i> , 2020 , 207, 163850	2.5	2
51	Surface plasmon resonance sensor based on coupling effects of dual photonic crystal fibers for low refractive indexes detection. <i>Results in Physics</i> , 2020 , 18, 103240	3.7	23
50	A hollow dual-core PCF-SPR sensor with gold layers on the inner and outer surfaces of the thin cladding. <i>Results in Optics</i> , 2020 , 1, 100004	1	11

49	Forward and Backward Unidirectional Scattering by the Core-Shell Nanocube Dimer with Balanced Gain and Loss. <i>Nanomaterials</i> , 2020 , 10,	5.4	1
48	Localized Surface Plasmon Resonance Properties of Concentric Dual-Ring Nanodisk. <i>Nano</i> , 2019 , 14, 1950071	1.1	
47	Asymmetrical photonic crystal fiber based on the surface plasmon resonance sensor and analysis by the lower-birefringence peak method. <i>Optik</i> , 2019 , 189, 121-129	2.5	1
46	High-Efficiency Dual-Frequency Reflective Linear Polarization Converter Based on Metasurface for Microwave Bands. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1910	2.6	8
45	Dual-band unidirectional forward scattering of Au@Bi sliced nanorod in the visible region. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	3
44	Optical diode composed of subwavelength slit-groove arrays with ultrahigh transmission contrast based on surface plasmon polariton. <i>Optik</i> , 2019 , 186, 266-274	2.5	3
43	A high-birefringent photonic quasi-crystal fiber with two elliptical air holes. <i>Optik</i> , 2019 , 184, 10-15	2.5	7
42	Ex-centric core photonic crystal fiber sensor with gold nanowires based on surface plasmon resonance. <i>Optik</i> , 2019 , 196, 163173	2.5	24
41	The single-polarization filter composed of gold-coated photonic crystal fiber. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 3200-3206	2.3	20
40	Transfer matrix method for simulation of the fiber Bragg grating in polarization maintaining fiber. <i>Optics Communications</i> , 2019 , 452, 185-188	2	5
39	Tunable single-polarization bimetal-coated and liquid-filled photonic crystal fiber filter based on surface plasmon resonance. <i>Applied Optics</i> , 2019 , 58, 6308-6314	1.7	16
38	Surface plasmon resonance sensor based on eccentric core photonic quasi-crystal fiber with indium tin oxide. <i>Applied Optics</i> , 2019 , 58, 6848-6853	1.7	16
37	Photonic spin Hall effect: a new window in D-shaped fiber by weak measurements. <i>Optics Express</i> , 2019 , 27, 14064-14074	3.3	2
36	Dual-band directional scattering with all-dielectric trimer in the near-infrared region. <i>Applied Optics</i> , 2019 , 58, 5082-5089	1.7	2
35	Fano resonances in symmetric plasmonic split-ring/ring dimer nanostructures. <i>Applied Optics</i> , 2019 , 58, 8069-8074	1.7	
34	Theoretical assessment of a highly sensitive photonic crystal fibre based on surface plasmon resonance sensor operating in the near-infrared wavelength. <i>Journal of Modern Optics</i> , 2019 , 66, 1-6	1.1	53
33	Discriminating Twisting Direction by Polarization Maintaining Fiber Bragg Grating. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 654-657	2.2	3
32	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). <i>Opto-electronics Review</i> , 2018 , 26, 50-56	2.4	29

31	Analysis of a Surface Plasmon Resonance Probe Based on Photonic Crystal Fibers for Low Refractive Index Detection. <i>Plasmonics</i> , 2018 , 13, 779-784	2.4	100
30	Symmetrical dual D-shape photonic crystal fibers for surface plasmon resonance sensing. <i>Optics Express</i> , 2018 , 26, 9039-9049	3.3	146
29	A Highly Sensitive SPR Sensors Based on Two Parallel PCFs for Low Refractive Index Detection. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-10	1.8	12
28	Birefringent PCF-Based SPR Sensor for a Broad Range of Low Refractive Index Detection. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 1471-1474	2.2	31
27	Multi-wavelength unidirectional forward scattering in the visible range in an all-dielectric silicon hollow nanodisk. <i>Applied Optics</i> , 2018 , 57, 4771-4776	1.7	7
26	Highly sensitive PCF-SPR biosensor for hyperthermia temperature monitoring. <i>Journal of Optics (India)</i> , 2018 , 47, 288-294	1.3	6
25	Multiple unidirectional forward scattering of hybrid metal-dielectric nanoantenna in the near-infrared region. <i>Optical Materials Express</i> , 2018 , 8, 3410	2.6	1
24	Localized surface plasmon resonance properties of symmetry-broken Au/TiO ₂ /Ag multilayered nanoshells. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	1
23	Localized surface plasmon resonance properties of Ag nanorod arrays on graphene-coated Au substrate. <i>Optics Communications</i> , 2017 , 402, 216-220	2	6
22	Analysis of Local Surface Plasmon Resonance in Multilayered Au/Ag/Graphene Nanoshells. <i>Nano</i> , 2017 , 12, 1750062	1.1	3
21	A Highly Sensitive Dual-Core Photonic Crystal Fiber Based on a Surface Plasmon Resonance Biosensor with Silver-Graphene Layer. <i>Plasmonics</i> , 2017 , 12, 1847-1853	2.4	49
20	Influence of annealing on microstructure and properties of Cr-doped ZnO thin films deposited on glass surface. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 3812-3818	2.1	3
19	Numerical analysis of a photonic crystal fiber based on a surface plasmon resonance sensor with an annular analyte channel. <i>Optics Communications</i> , 2017 , 382, 162-166	2	57
18	Mid-infrared surface plasmon resonance sensor based on photonic crystal fibers. <i>Optics Express</i> , 2017 , 25, 14227-14237	3.3	156
17	Nanoscale Mechanical Properties of Nanoindented NiMnGa Ferromagnetic Shape Memory Thin Film. <i>Scanning</i> , 2017 , 2017, 4630156	1.6	
16	Structural and optical properties of oxygen to argon flow ratio on the Zn _{0.98} Cr _{0.02} O thin films deposited by RF magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 316-321	2.1	
15	Theoretical Assessment of Localized Surface Plasmon Resonance Properties of Au-Interlayer-Ag Multilayered Nanoshells. <i>Plasmonics</i> , 2016 , 11, 1589-1595	2.4	9
14	Analysis of a highly birefringent asymmetric photonic crystal fibre based on a surface plasmon resonance sensor. <i>Journal of Modern Optics</i> , 2016 , 63, 1189-1195	1.1	12

13	A highly temperature-sensitive photonic crystal fiber based on surface plasmon resonance. <i>Optics Communications</i> , 2016 , 359, 378-382	2	47
12	Optical properties of local surface plasmon resonance in Ag/ITO sliced nanosphere by the discrete dipole approximation. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	2
11	Effects of sputtering power on structural, electrical and optical properties of Cr-doped ZnO thin films prepared by magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 493-497	2.1	6
10	Synthesis of Ni ₃ AlN composite nanocoatings by magnetic pulse current deposition. <i>Ceramics International</i> , 2015 , 41, 11445-11448	5.1	14
9	Analysis of Localized Surface Plasmon Resonance in Ag/ITO/CdS/SiO ₂ Multilayered Nanostructured Composite. <i>Nano</i> , 2015 , 10, 1550117	1.1	
8	Design and theoretical analysis of a photonic crystal fiber based on surface plasmon resonance sensing. <i>Journal of Nanophotonics</i> , 2015 , 9, 093050	1.1	24
7	Effects of substrate temperature on the structural and magnetic properties in Cr-doped ZnO films prepared by magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 4139-4144	2.1	3
6	Plasma-target surface interaction during non-equilibrium plasma irradiation at atmospheric pressure: Generation of dusty plasma. <i>Laser and Particle Beams</i> , 2014 , 32, 69-78	0.9	5
5	Microstructures of Ni ₃ AlN composite coatings prepared by pulse electrodeposition technology. <i>Applied Surface Science</i> , 2013 , 271, 7-11	6.7	47
4	Highly Sensitive Dual-core Photonic Crystal Fiber Based on a Surface Plasmon Resonance Sensor with Gold Film. <i>Plasmonics</i> , 1	2.4	0
3	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. <i>Journal of Modern Optics</i> , 1-11	1.1	0
2	Design of broadband single-polarization filter based on simple structure photonic crystal fiber with gold-coated air holes. <i>Modern Physics Letters B</i> , 2150473	1.6	0
1	A new technique to optimize the properties of photonic crystal fibers supporting transmission of multiple orbital angular momentum modes. <i>Journal of Optics (India)</i> , 1	1.3	1