Chao Liu

List of Publications by Year in descending order

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236612 223531 2,434 90 25 46 citations h-index g-index papers 90 90 90 990 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Mid-infrared surface plasmon resonance sensor based on photonic crystal fibers. Optics Express, 2017, 25, 14227.	1.7	222
2	Symmetrical dual D-shape photonic crystal fibers for surface plasmon resonance sensing. Optics Express, 2018, 26, 9039.	1.7	213
3	Thermal tuning of terahertz metamaterial absorber properties based on VO ₂ . Physical Chemistry Chemical Physics, 2022, 24, 8846-8853.	1.3	197
4	Surface plasmon resonance (SPR) infrared sensor based on D-shape photonic crystal fibers with ITO coatings. Optics Communications, 2020, 464, 125496.	1.0	157
5	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
6	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
7	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
8	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
9	Surface plasmon resonance sensor based on photonic crystal fiber with indium tin oxide film. Optical Materials, 2020, 102, 109800.	1.7	70
10	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
11	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
12	Microstructures of Ni–AlN composite coatings prepared by pulse electrodeposition technology. Applied Surface Science, 2013, 271, 7-11.	3.1	60
13	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
14	A highly temperature-sensitive photonic crystal fiber based on surface plasmon resonance. Optics Communications, 2016, 359, 378-382.	1.0	59
15	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
16	Dual-Band Polarization Conversion Metasurface for RCS Reduction. IEEE Transactions on Antennas and Propagation, 2021, 69, 3044-3049.	3.1	50
17	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
18	Near-infrared surface plasmon resonance sensor based on photonic crystal fiber with big open rings. Optik, 2020, 207, 164466.	1.4	41

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19	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
20	Ex-centric core photonic crystal fiber sensor with gold nanowires based on surface plasmon resonance. Optik, 2019, 196, 163173.	1.4	34
21	Design and theoretical analysis of a photonic crystal fiber based on surface plasmon resonance sensing. Journal of Nanophotonics, 2015, 9, 093050.	0.4	33
22	Dual-Bandwidth Linear Polarization Converter Based on Anisotropic Metasurface. IEEE Photonics Journal, 2020, 12, 1-11.	1.0	33
23	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
24	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
25	Surface plasmon resonance sensor based on U-shaped photonic quasi-crystal fiber. Applied Optics, 2021, 60, 1761.	0.9	27
26	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
27	Ultra-short and dual-core photonic crystal fiber polarization splitter composed of metal and gallium arsenide. Optik, 2021, 226, 165779.	1.4	25
28	Combining Pancharatnam–Berry Phase and Conformal Coding Metasurface for Dual-Band RCS Reduction. IEEE Transactions on Antennas and Propagation, 2022, 70, 2352-2357.	3.1	24
29	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
30	Surface plasmon resonance sensor based onÂeccentric core photonic quasi-crystal fiberÂwith indium tin oxide. Applied Optics, 2019, 58, 6848.	0.9	22
31	Synthesis of Ni–TiN composite nanocoatings by magnetic pulse current deposition. Ceramics International, 2015, 41, 11445-11448.	2.3	21
32	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
33	High-Efficiency Dual-Frequency Reflective Linear Polarization Converter Based on Metasurface for Microwave Bands. Applied Sciences (Switzerland), 2019, 9, 1910.	1.3	17
34	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
35	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
36	Highly sensitive PCF-SPR biosensor for hyperthermia temperature monitoring. Journal of Optics (India), 2018, 47, 288-294.	0.8	14

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37	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
38	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
39	Optimization of photonic crystal fibers for transmission of orbital angular momentum modes. Optical and Quantum Electronics, 2021, 53, 1.	1.5	12
40	Transfer matrix method for simulation of the fiber Bragg grating in polarization maintaining fiber. Optics Communications, 2019, 452, 185-188.	1.0	11
41	Theoretical Assessment of Localized Surface Plasmon Resonance Properties of Au-Interlayer-Ag Multilayered Nanoshells. Plasmonics, 2016, 11, 1589-1595.	1.8	10
42	Localized surface plasmon resonance properties of Ag nanorod arrays on graphene-coated Au substrate. Optics Communications, 2017, 402, 216-220.	1.0	10
43	A high-birefringent photonic quasi-crystal fiber with two elliptical air holes. Optik, 2019, 184, 10-15.	1.4	10
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	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
46	Design of bimetal-coated photonic crystal fiber filter based on surface plasmon resonance. Results in Optics, 2020, 1, 100027.	0.9	9
47	Ultra-sensitive hexagonal PCF-SPR sensor with a broad detection range. Journal of Modern Optics, 2020, 67, 1545-1554.	0.6	9
48	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
49	Multi-wavelength unidirectional forward scattering in the visible range in an all-dielectric silicon hollow nanodisk. Applied Optics, 2018, 57, 4771.	0.9	8
50	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
51	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
52	Optical Anapole Modes in Gallium Phosphide Nanodisk with Forked Slits for Electric Field Enhancement. Nanomaterials, 2021, 11, 1490.	1.9	7
53	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
54	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

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55	Discriminating Twisting Direction by Polarization Maintaining Fiber Bragg Grating. IEEE Photonics Technology Letters, 2018, 30, 654-657.	1.3	6
56	A novel photonic quasi-crystal fiber for transmission of orbital angular momentum modes. Optik, 2022, 251, 168446.	1.4	5
57	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
58	Analysis of Local Surface Plasmon Resonance in Multilayered Au/Ag/Graphene Nanoshells. Nano, 2017, 12, 1750062.	0.5	4
59	Localized surface plasmon resonance properties of symmetry-broken Au–ITO–Ag multilayered nanoshells. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	4
60	Dual-band unidirectional forward scattering of Au–Si sliced nanorod in the visible region. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	4
61	Ultra-short dual-core GaAs photonic crystal fiber splitter filled with nematic liquid crystal. Optical Engineering, 2021, 60, .	0.5	4
62	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
63	Single-polarization photonic crystal fiber filter composed of elliptical gold films. Optical Engineering, 2020, 59, 1.	0.5	4
64	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
65	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
66	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
67	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
68	Forward and Backward Unidirectional Scattering by the Core-Shell Nanocube Dimer with Balanced Gain and Loss. Nanomaterials, 2020, 10, 1440.	1.9	3
69	Multi-functional gallium arsenide photonic crystal polarization splitter with a gold core. Modern Physics Letters B, 2021, 35, 2150229.	1.0	3
70	A photonic quasi-crystal fiber composed of circular air holes with high birefringence and low confinement loss. Optik, 2021, 231, 166497.	1.4	3
71	Photonic spin Hall effect: a new window in D-shaped fiber by weak measurements. Optics Express, 2019, 27, 14064.	1.7	3
72	Dual-band directional scattering with all-dielectric trimer in the near-infrared region. Applied Optics, 2019, 58, 5082.	0.9	3

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73	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
74	Numerical Analysis of Multifunctional Biosensor with Dual-Channel Photonic Crystal Fibers Based on Localized Surface Plasmon Resonance. Coatings, 2022, 12, 742.	1.2	3
75	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
76	Numerical analysis of a high-birefringent photonic quasi-crystal fiber with circular air holes. Optik, 2020, 207, 163850.	1.4	2
77	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
78	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
79	Efficient photonic crystal fiber polarization splitters composed of gallium arsenide and nematic liquid crystals. Modern Physics Letters B, 2021, 35, 2150077.	1.0	2
80	Grating Structure Broadband Absorber Based on Gallium Arsenide and Titanium. Coatings, 2022, 12, 588.	1.2	2
81	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
82	Enhancement of unidirectional forward scattering and suppression of backward scattering in hollow silicon nanoblocks. Applied Optics, 2021, 60, 8737.	0.9	1
83	Dual-core photonic crystal fiber polarization beam splitter filled with salt water. Optical Engineering, 2021, 60, .	0.5	1
84	Multiple unidirectional forward scattering of hybrid metal-dielectric nanoantenna in the near-infrared region. Optical Materials Express, 2018, 8, 3410.	1.6	1
85	Analysis of Localized Surface Plasmon Resonance in Ag/ITO/CdS/SiO2 Multilayered Nanostructured Composite. Nano, 2015, 10, 1550117.	0.5	0
86	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
87	Nanoscale Mechanical Properties of Nanoindented Ni48.8Mn27.2Ga24 Ferromagnetic Shape Memory Thin Film. Scanning, 2017, 2017, 1-5.	0.7	0
88	Localized Surface Plasmon Resonance Properties of Concentric Dual-Ring Nanodisk. Nano, 2019, 14, 1950071.	0.5	0
89	Theoretical Study on the Stability, Electronic, Magnetic and Spectral Properties of GanAg (n = $1\hat{a}$ €"7) Clusters. Russian Journal of Physical Chemistry B, 2021, 15, 420-427.	0.2	0
90	Fano resonances in symmetric plasmonic split-ring/ring dimer nanostructures. Applied Optics, 2019, 58, 8069.	0.9	0