Fu Liu

List of Publications by Year
in descending order

47 papers	2,413 citations	201674 27 h-index	223800 46 g-index
47 all docs	47 docs citations	47 times ranked	2593 citing authors

#	Article	IF	Citations
1	Ultrasensitive plasmonic sensing in air using optical fibre spectral combs. Nature Communications, 2016, 7, 13371.	12.8	183
2	Full Biomass-Derived Solar Stills for Robust and Stable Evaporation To Collect Clean Water from Various Water-Bearing Media. ACS Applied Materials & Interfaces, 2019, 11, 10672-10679.	8.0	176
3	Amide-based covalent organic frameworks materials for efficient and recyclable removal of heavy metal lead (II). Chemical Engineering Journal, 2019, 370, 822-830.	12.7	152
4	Highly sensitive detection of urinary protein variations using tilted fiber grating sensors with plasmonic nanocoatings. Biosensors and Bioelectronics, 2016, 78, 221-228.	10.1	144
5	In situ plasmonic optical fiber detection of the state of charge of supercapacitors for renewable energy storage. Light: Science and Applications, 2018, 7, 34.	16.6	129
6	Catalytic PVDF membrane for continuous reduction and separation of p-nitrophenol and methylene blue in emulsified oil solution. Chemical Engineering Journal, 2018, 334, 579-586.	12.7	127
7	Rapid Detection of Circulating Breast Cancer Cells Using a Multiresonant Optical Fiber Aptasensor with Plasmonic Amplification. ACS Sensors, 2020, 5, 454-463.	7.8	120
8	Highly Efficient Solar Steam Generation from Activated Carbon Fiber Cloth with Matching Water Supply and Durable Fouling Resistance. ACS Applied Energy Materials, 2019, 2, 4354-4361.	5.1	101
9	Prussian blue/PVDF catalytic membrane with exceptional and stable Fenton oxidation performance for organic pollutants removal. Applied Catalysis B: Environmental, 2020, 273, 119047.	20.2	95
10	In-situ detection of density alteration in non-physiological cells with polarimetric tilted fiber grating sensors. Biosensors and Bioelectronics, 2014, 55, 452-458.	10.1	82
11	The effect of membrane surface charges on demulsification and fouling resistance during emulsion separation. Journal of Membrane Science, 2018, 563, 126-133.	8.2	82
12	Omniphobic Nanofibrous Membrane with Pine-Needle-Like Hierarchical Nanostructures: Toward Enhanced Performance for Membrane Distillation. ACS Applied Materials & Interfaces, 2019, 11, 47963-47971.	8.0	80
13	One-step tailoring surface roughness and surface chemistry to prepare superhydrophobic polyvinylidene fluoride (PVDF) membranes for enhanced membrane distillation performances. Journal of Colloid and Interface Science, 2019, 553, 99-107.	9.4	66
14	Operando monitoring of ion activities in aqueous batteries with plasmonic fiber-optic sensors. Nature Communications, 2022, 13, 547.	12.8	66
15	Janus Polyvinylidene Fluoride Membrane with Extremely Opposite Wetting Surfaces via One Single-Step Unidirectional Segregation Strategy. ACS Applied Materials & Interfaces, 2018, 10, 24947-24954.	8.0	64
16	Hydrogen peroxide and glucose concentration measurement using optical fiber grating sensors with corrodible plasmonic nanocoatings. Biomedical Optics Express, 2018, 9, 1735.	2.9	60
17	Monitoring battery electrolyte chemistry via in-operando tilted fiber Bragg grating sensors. Energy and Environmental Science, 2021, 14, 6464-6475.	30.8	51
18	Fast polydopamine coating on reverse osmosis membrane: Process investigation and membrane performance study. Journal of Colloid and Interface Science, 2019, 535, 239-244.	9.4	48

#	Article	IF	Citations
19	Janus Membrane with Unparalleled Forward Osmosis Performance. Environmental Science and Technology Letters, 2019, 6, 79-85.	8.7	47
20	Discrimination of Bulk and Surface Refractive Index Change in Plasmonic Sensors with Narrow Bandwidth Resonance Combs. ACS Sensors, 2021, 6, 3013-3023.	7.8	46
21	Narrow bandwidth fiber-optic spectral combs for renewable hydrogen detection. Science China Information Sciences, 2020, 63, 1.	4.3	45
22	Superhydrophilic and mechanical robust PVDF nanofibrous membrane through facile interfacial Span 80 welding for excellent oil/water separation. Applied Surface Science, 2019, 485, 179-187.	6.1	44
23	Meso-/macro-porous microspheres confining Au nanoparticles based on PDLA/PLLA stereo-complex membrane for continuous flowing catalysis and separation. Chemical Engineering Journal, 2018, 344, 299-310.	12.7	42
24	Mode-division and spatial-division optical fiber sensors. Advances in Optics and Photonics, 2022, 14, 1.	25.5	37
25	Beyond Superwetting Surfaces: Dual-Scale Hyperporous Membrane with Rational Wettability for â€œNonfoulingâ€•Emulsion Separation via Coalescence Demulsification. ACS Applied Materials & Interfaces, 2021, 13, 4731-4739.	8.0	36
26	Designing pH-Responsive Biodegradable Polymer Coatings for Controlled Drug Release via Vapor-Based Route. ACS Applied Materials & Interfaces, 2018, 10, 38449-38458.	8.0	32
27	Liquid Crystal-Embedded Tilted Fiber Grating Electric Field Intensity Sensor. Journal of Lightwave Technology, 2017, 35, 3347-3353.	4.6	28
28	A novel poly (4-methyl-1-pentene)/polypropylene (PMP/PP) thin film composite (TFC) artificial lung membrane for enhanced gas transport and excellent hemo-compatibility. Journal of Membrane Science, 2022, 649, 120359.	8.2	23
29	Fabrication of anti-fouling, anti-bacterial and non-clotting PVDF membranes through one step â€œoutside-inâ€•interface segregation strategy. Journal of Colloid and Interface Science, 2018, 517, 93-103.	9.4	22
30	Tunable adhesion of superoleophilic/superhydrophobic poly (lactic acid) membrane for controlled-release of oil soluble drugs. Journal of Colloid and Interface Science, 2017, 505, 49-58.	9.4	21
31	Enhanced hemocompatibility of flat and hollow fiber membranes via a heparin free surface crosslinking strategy. Reactive and Functional Polymers, 2018, 124, 104-114.	4.1	21
32	In situ determination of the complex permittivity of ultrathin H₂-infused palladium coatings for plasmonic fiber optic sensors in the near infrared. Journal of Materials Chemistry C, 2018, 6, 5161-5170.	5.5	19
33	Plasmonic Fiber-Optic Refractometers Based on a High Q-Factor Amplitude Interrogation. IEEE Sensors Journal, 2016, 16, 5974-5978.	4.7	18
34	Confined Channels Induced Coalescence Demulsification and Slippery Interfaces Constructed Fouling Resist-Release for Long-Lasting Oil/Water Separation. ACS Applied Materials & Interfaces, 2021, 13, 30224-30234.	8.0	17
35	Optical detection of the percolation threshold of nanoscale silver coatings with optical fiber gratings. APL Photonics, 2020, 5, .	5.7	16
36	High-sensitive and temperature-self-calibrated tilted fiber grating biological sensing probe. Science Bulletin, 2013, 58, 2611-2615.	1.7	12

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37	Integrated Differential Area Method for Variable Sensitivity Interrogation of Tilted Fiber Bragg Grating Sensors. Journal of Lightwave Technology, 2019, 37, 4531-4536.	4.6	11
38	40 GHz-rate all-optical cross-modulation of core-guided near infrared light in single mode fiber by surface plasmons on gold-coated tilted fiber Bragg gratings. APL Photonics, 2019, 4, 126104.	5.7	9
39	Orthogonal Polarization Coupling for Transverse Strain Measurement Using a Polarimetric Mirror. IEEE Photonics Technology Letters, 2014, 26, 729-732.	2.5	8
40	In-situ formation of epoxy derived polyethylene glycol crosslinking network on polyamide nanofiltration membrane with enhanced antifouling performance. Journal of Membrane Science, 2022, 658, 120713.	8.2	7
41	Saturable Absorption and Bistable Switching of Single Mode Fiber Coreâ€Guided Light by a 6Ânmâ€thick, Few Layers Graphene Coating on the Cladding Surface. Annalen Der Physik, 2020, 532, 2000157.	2.4	6
42	Hypersensitivity and Applications of Cladding Modes of Optical Fibers Coated with Nanoscale Metal Layers. Sensors, 2018, 18, 1518.	3.8	5
43	Catalytic conversion controlled interfacial polymerization for polyamide membranes. Reactive and Functional Polymers, 2018, 131, 84-88.	4.1	4
44	Vector Magnetometer Based On Localized Scattering Between Optical Fiber Spectral Combs and Magnetic Nanoparticles. Journal of Lightwave Technology, 2021, 39, 6599-6605.	4.6	4
45	Air nanobubbles (ANBs) incorporated sandwich-structured carbon nanotube membranes (CNM) for highly permeable and stable forward osmosis. , 2022, 2, 100026.		3
46	A cosubstantial [0D+2D] CTF membrane with enhanced perm-selectivity and solar cleaning for multiscale molecular separation. Journal of Membrane Science, 2022, 654, 120554.	8.2	3
47	Determining the Orientation of Tilted Fiber Bragg Gratings Using a Planar Substrate. Journal of Lightwave Technology, 2023, 41, 4315-4321.	4.6	1