

Fu Liu

List of Publications by Year in descending order

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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	Determining the Orientation of Tilted Fiber Bragg Gratings Using a Planar Substrate. Journal of Lightwave Technology, 2023, 41, 4315-4321.	4.6	1
2	Air nanobubbles (ANBs) incorporated sandwich-structured carbon nanotube membranes (CNM) for highly permeable and stable forward osmosis. , 2022, 2, 100026.		3
3	Mode-division and spatial-division optical fiber sensors. Advances in Optics and Photonics, 2022, 14, 1.	25.5	37
4	Operando monitoring of ion activities in aqueous batteries with plasmonic fiber-optic sensors. Nature Communications, 2022, 13, 547.	12.8	66
5	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
6	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
7	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
8	Beyond Superwetting Surfaces: Dual-Scale Hyperporous Membrane with Rational Wettability for "Nonfouling" Emulsion Separation via Coalescence Demulsification. ACS Applied Materials & Interfaces, 2021, 13, 4731-4739.	8.0	36
9	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
10	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
11	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
12	Monitoring battery electrolyte chemistry <i>in-operando</i> tilted fiber Bragg grating sensors. Energy and Environmental Science, 2021, 14, 6464-6475.	30.8	51
13	Narrow bandwidth fiber-optic spectral combs for renewable hydrogen detection. Science China Information Sciences, 2020, 63, 1.	4.3	45
14	Saturable Absorption and Bistable Switching of Single Mode Fiber Core-Guided Light by a 6 nm-thick, Few Layers Graphene Coating on the Cladding Surface. Annalen Der Physik, 2020, 532, 2000157.	2.4	6
15	Optical detection of the percolation threshold of nanoscale silver coatings with optical fiber gratings. APL Photonics, 2020, 5, .	5.7	16
16	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
17	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
18	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

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19	One-step tailoring surface roughness and surface chemistry to prepare superhydrophobic polyvinylidene fluoride (PVDF) membranes for enhanced membrane distillation performances. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 99-107.	9.4	66
20	Superhydrophilic and mechanical robust PVDF nanofibrous membrane through facile interfacial Span 80 welding for excellent oil/water separation. <i>Applied Surface Science</i> , 2019, 485, 179-187.	6.1	44
21	Amide-based covalent organic frameworks materials for efficient and recyclable removal of heavy metal lead (II). <i>Chemical Engineering Journal</i> , 2019, 370, 822-830.	12.7	152
22	Integrated Differential Area Method for Variable Sensitivity Interrogation of Tilted Fiber Bragg Grating Sensors. <i>Journal of Lightwave Technology</i> , 2019, 37, 4531-4536.	4.6	11
23	Full Biomass-Derived Solar Stills for Robust and Stable Evaporation To Collect Clean Water from Various Water-Bearing Media. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10672-10679.	8.0	176
24	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. <i>APL Photonics</i> , 2019, 4, 126104.	5.7	9
25	Omniphobic Nanofibrous Membrane with Pine-Needle-Like Hierarchical Nanostructures: Toward Enhanced Performance for Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47963-47971.	8.0	80
26	Janus Membrane with Unparalleled Forward Osmosis Performance. <i>Environmental Science and Technology Letters</i> , 2019, 6, 79-85.	8.7	47
27	Fast polydopamine coating on reverse osmosis membrane: Process investigation and membrane performance study. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 239-244.	9.4	48
28	<i>In situ</i> determination of the complex permittivity of ultrathin H ₂ -infused palladium coatings for plasmonic fiber optic sensors in the near infrared. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5161-5170.	5.5	19
29	Fabrication of anti-fouling, anti-bacterial and non-clotting PVDF membranes through one step outside-in interface segregation strategy. <i>Journal of Colloid and Interface Science</i> , 2018, 517, 93-103.	9.4	22
30	Enhanced hemocompatibility of flat and hollow fiber membranes via a heparin free surface crosslinking strategy. <i>Reactive and Functional Polymers</i> , 2018, 124, 104-114.	4.1	21
31	Meso-/macro-porous microspheres confining Au nanoparticles based on PDLA/PLLA stereo-complex membrane for continuous flowing catalysis and separation. <i>Chemical Engineering Journal</i> , 2018, 344, 299-310.	12.7	42
32	Catalytic PVDF membrane for continuous reduction and separation of p-nitrophenol and methylene blue in emulsified oil solution. <i>Chemical Engineering Journal</i> , 2018, 334, 579-586.	12.7	127
33	Designing pH-Responsive Biodegradable Polymer Coatings for Controlled Drug Release via Vapor-Based Route. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38449-38458.	8.0	32
34	Hydrogen peroxide and glucose concentration measurement using optical fiber grating sensors with corrodeable plasmonic nanocoatings. <i>Biomedical Optics Express</i> , 2018, 9, 1735.	2.9	60
35	Janus Polyvinylidene Fluoride Membrane with Extremely Opposite Wetting Surfaces via One Single-Step Unidirectional Segregation Strategy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24947-24954.	8.0	64
36	Hypersensitivity and Applications of Cladding Modes of Optical Fibers Coated with Nanoscale Metal Layers. <i>Sensors</i> , 2018, 18, 1518.	3.8	5

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37	Catalytic conversion controlled interfacial polymerization for polyamide membranes. <i>Reactive and Functional Polymers</i> , 2018, 131, 84-88.	4.1	4
38	The effect of membrane surface charges on demulsification and fouling resistance during emulsion separation. <i>Journal of Membrane Science</i> , 2018, 563, 126-133.	8.2	82
39	In situ plasmonic optical fiber detection of the state of charge of supercapacitors for renewable energy storage. <i>Light: Science and Applications</i> , 2018, 7, 34.	16.6	129
40	Tunable adhesion of superoleophilic/superhydrophobic poly (lactic acid) membrane for controlled-release of oil soluble drugs. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 49-58.	9.4	21
41	Liquid Crystal-Embedded Tilted Fiber Grating Electric Field Intensity Sensor. <i>Journal of Lightwave Technology</i> , 2017, 35, 3347-3353.	4.6	28
42	Ultrasensitive plasmonic sensing in air using optical fibre spectral combs. <i>Nature Communications</i> , 2016, 7, 13371.	12.8	183
43	Plasmonic Fiber-Optic Refractometers Based on a High Q-Factor Amplitude Interrogation. <i>IEEE Sensors Journal</i> , 2016, 16, 5974-5978.	4.7	18
44	Highly sensitive detection of urinary protein variations using tilted fiber grating sensors with plasmonic nanocoatings. <i>Biosensors and Bioelectronics</i> , 2016, 78, 221-228.	10.1	144
45	Orthogonal Polarization Coupling for Transverse Strain Measurement Using a Polarimetric Mirror. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 729-732.	2.5	8
46	In-situ detection of density alteration in non-physiological cells with polarimetric tilted fiber grating sensors. <i>Biosensors and Bioelectronics</i> , 2014, 55, 452-458.	10.1	82
47	High-sensitive and temperature-self-calibrated tilted fiber grating biological sensing probe. <i>Science Bulletin</i> , 2013, 58, 2611-2615.	1.7	12