

# Fei Liu

## List of Publications by Year in descending order

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59  
papers

2,916  
citations

236833

25  
h-index

189801

50  
g-index

59  
all docs

59  
docs citations

59  
times ranked

4495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Glia-to-Neuron Conversion by CRISPR-CasRx Alleviates Symptoms of Neurological Disease in Mice. <i>Cell</i> , 2020, 181, 590-603.e16.	13.5	306
2	Fluorescent probes for the simultaneous detection of multiple analytes in biology. <i>Chemical Society Reviews</i> , 2018, 47, 195-208.	18.7	281
3	Synthesis of graphene materials by electrochemical exfoliation: Recent progress and future potential. <i>ACS Nano</i> , 2019, 1, 173-199.		213
4	Graphene Materials in Antimicrobial Nanomedicine: Current Status and Future Perspectives. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701406.	3.9	166
5	Intrinsic Activity of Metal Centers in Metal-Decorated Nitrogen-Carbon Single-Atom Catalysts for Hydrogen Peroxide Synthesis. <i>Journal of the American Chemical Society</i> , 2020, 142, 21861-21871.	6.6	163
6	Homogeneous, Heterogeneous, and Biological Catalysts for Electrochemical $N_2$ Reduction toward $NH_3$ under Ambient Conditions. <i>ACS Catalysis</i> , 2019, 9, 5245-5267.	5.5	145
7	Ratiometric Detection of Viscosity Using a Two-Photon Fluorescent Sensor. <i>Chemistry - A European Journal</i> , 2013, 19, 1548-1553.	1.7	113
8	A graphene-covalent organic framework hybrid for high-performance supercapacitors. <i>Energy Storage Materials</i> , 2020, 32, 448-457.	9.5	103
9	A novel fluorescent sensor for detection of highly reactive oxygen species, and for imaging such endogenous hROS in the mitochondria of living cells. <i>Analyst</i> , 2013, 138, 775-778.	1.7	97
10	Natural Products That Target Virulence Factors in Antibiotic-Resistant <i>Staphylococcus aureus</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 13195-13211.	2.4	89
11	One-Dimensional van der Waals Heterostructures as Efficient Metal-Free Oxygen Electrocatalysts. <i>ACS Nano</i> , 2021, 15, 3309-3319.	7.3	79
12	Antibacterial Effect and Mode of Action of Flavonoids From Licorice Against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 2489.	1.5	73
13	A sensitive fluorescent sensor for the detection of endogenous hydroxyl radicals in living cells and bacteria and direct imaging with respect to its ecotoxicity in living zebra fish. <i>Chemical Communications</i> , 2016, 52, 4636-4639.	2.2	67
14	On-site quantitative $Hg^{2+}$ measurements based on selective and sensitive fluorescence biosensor and miniaturized smartphone fluorescence microscope. <i>Biosensors and Bioelectronics</i> , 2019, 132, 238-247.	5.3	67
15	RNA aptamer based electrochemical biosensor for sensitive and selective detection of cAMP. <i>Biosensors and Bioelectronics</i> , 2015, 66, 238-243.	5.3	51
16	Hierarchically porous carbon nanofibers embedded with cobalt nanoparticles for efficient $H_2O_2$ detection on multiple sensor platforms. <i>Sensors and Actuators B: Chemical</i> , 2020, 319, 128243.	4.0	46
17	Graphene oxide laminates intercalated with 2D covalent-organic frameworks as a robust nanofiltration membrane. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9713-9725.	5.2	46
18	Quantitative remote and on-site $Hg^{2+}$ detection using the handheld smartphone based optical fiber fluorescence sensor (SOFFS). <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127168.	4.0	44

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19	DEAD-Box Helicases Form Nucleotide-Dependent, Long-Lived Complexes with RNA. <i>Biochemistry</i> , 2014, 53, 423-433.	1.2	43
20	Drying graphene hydrogel fibers for capacitive energy storage. <i>Carbon</i> , 2020, 164, 100-110.	5.4	43
21	Quantitative ciprofloxacin on-site rapid detections using quantum dot microsphere based immunochromatographic test strips. <i>Food Chemistry</i> , 2021, 335, 127596.	4.2	42
22	Novel Strategy for Tracking the Microbial Degradation of Azo Dyes with Different Polarities in Living Cells. <i>Environmental Science &amp; Technology</i> , 2015, 49, 11356-11362.	4.6	41
23	Antimicrobial graphene materials: the interplay of complex materials characteristics and competing mechanisms. <i>Biomaterials Science</i> , 2018, 6, 766-773.	2.6	37
24	Nanocarbon materials in water disinfection: state-of-the-art and future directions. <i>Nanoscale</i> , 2019, 11, 9819-9839.	2.8	35
25	The prevalence of pathogens causing bovine mastitis and their associated risk factors in 15 large dairy farms in China: An observational study. <i>Veterinary Microbiology</i> , 2020, 247, 108757.	0.8	34
26	Undibacterium baiyunense sp. nov., Undibacterium curvum sp. nov., Undibacterium fentianense sp. nov., Undibacterium flavidum sp. nov., Undibacterium griseum sp. nov., Undibacterium hunanense sp. nov., Undibacterium luofuense sp. nov., Undibacterium nitidum sp. nov., Undibacterium rivi sp. nov., Undibacterium rugosum sp. nov. and Undibacterium umbellatum sp. nov., isolated from streams in China. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2021, 71, .	0.8	34
27	A Highly Sensitive Fluorescent Sensor for Palladium and Direct Imaging of Its Ecotoxicity in Living Model Organisms. <i>Chemistry - an Asian Journal</i> , 2016, 11, 43-48.	1.7	28
28	Beneficial impacts of fermented celery ( <i>Apium graveolens</i> L.) juice on obesity prevention and gut microbiota modulation in high-fat diet fed mice. <i>Food and Function</i> , 2021, 12, 9151-9164.	2.1	28
29	The co-chaperone Cdc37 regulates the rabies virus phosphoprotein stability by targeting to Hsp90AA1 machinery. <i>Scientific Reports</i> , 2016, 6, 27123.	1.6	25
30	Monkey Viperin Restricts Porcine Reproductive and Respiratory Syndrome Virus Replication. <i>PLoS ONE</i> , 2016, 11, e0156513.	1.1	25
31	The tripartite role of 2D covalent organic frameworks in graphene-based organic solvent nanofiltration membranes. <i>Matter</i> , 2021, 4, 2953-2969.	5.0	24
32	Assemble 2D redox-active covalent organic framework/graphene hybrids as high-performance capacitive materials. <i>Carbon</i> , 2022, 190, 412-421.	5.4	24
33	Mechanism and Nature of the Different Viscosity Sensitivities of Hemicyanine Dyes with Various Heterocycles. <i>ChemPhysChem</i> , 2013, 14, 1601-1608.	1.0	23
34	Neurog2 directly converts astrocytes into functional neurons in midbrain and spinal cord. <i>Cell Death and Disease</i> , 2021, 12, 225.	2.7	23
35	Chromatin Remodeling Induced by ARID1A Loss in Lung Cancer Promotes Glycolysis and Confers JQ1 Vulnerability. <i>Cancer Research</i> , 2022, 82, 791-804.	0.4	22
36	Carbon dots derived from kanamycin sulfate with antibacterial activity and selectivity for Cr <sup>6+</sup> detection. <i>Analyst</i> , The, 2021, 146, 1965-1972.	1.7	21

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37	Highly sensitive and rapid bacteria detection using molecular beacon@Au nanoparticles hybrid nanopores. <i>Biosensors and Bioelectronics</i> , 2014, 57, 133-138.	5.3	20
38	A pH-dependent Antibacterial Peptide Release Nano-system Blocks Tumor Growth in vivo without Toxicity. <i>Scientific Reports</i> , 2017, 7, 11242.	1.6	19
39	Viscosity measurements using a two-photon ratiometric fluorescent sensor with two rotors. <i>Tetrahedron Letters</i> , 2018, 59, 4540-4544.	0.7	19
40	Quantitative and selective DNA detection with portable personal glucose meter using loop-based DNA competitive hybridization strategy. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 197-203.	4.0	15
41	Dynamic Dissection of the Endocytosis of Porcine Epidemic Diarrhea Coronavirus Cooperatively Mediated by Clathrin and Caveolae as Visualized by Single-Virus Tracking. <i>MBio</i> , 2021, 12, .	1.8	15
42	FRET-based fluorescent nanoprobe platform for sorting of active microorganisms by functional properties. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111832.	5.3	12
43	On-site cell concentration and viability detections using smartphone based field-portable cell counter. <i>Analytica Chimica Acta</i> , 2019, 1077, 216-224.	2.6	11
44	Viscosity sensitive near-infrared fluorescent probes based on functionalized single-walled carbon nanotubes. <i>Chemical Communications</i> , 2020, 56, 8301-8304.	2.2	11
45	A label-free and self-assembled electrochemical biosensor for highly sensitive detection of cyclic diguanylate monophosphate (c-di-GMP) based on RNA riboswitch. <i>Analytica Chimica Acta</i> , 2015, 882, 22-26.	2.6	9
46	Quantitative Detection and Real-Time Monitoring of Endogenous mRNA at the Single Live Cell Level Using a Ratiometric Molecular Beacon. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 28752-28761.	4.0	9
47	One-dimensional covalent organic framework@Carbon nanotube heterostructures for efficient capacitive energy storage. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	9
48	Development of Double Antibody Sandwich ELISA for Detection of Duck or Goose Flavivirus. <i>Journal of Integrative Agriculture</i> , 2013, 12, 1638-1643.	1.7	8
49	Phase measurements of erythrocytes affected by metal ions with quantitative interferometric microscopy. <i>Optical Engineering</i> , 2015, 54, 124105.	0.5	8
50	An easy-to-synthesize multi-photoresponse smart sensor for rapidly detecting Zn <sup>2+</sup> and quantifying Fe <sup>3+</sup> based on the enol/keto binding mode. <i>New Journal of Chemistry</i> , 2019, 43, 14179-14189.	1.4	8
51	Effects of Flavin-Goethite Interaction on Goethite Reduction by <i>Shewanella decolorationis</i> S12. <i>Frontiers in Microbiology</i> , 2019, 10, 1623.	1.5	8
52	Quantitative interferometric microscopy with improved full-field phase aberration compensation. <i>Optical Engineering</i> , 2014, 53, 113105.	0.5	7
53	Goethite Hinders Azo Dye Bioreduction by Blocking Terminal Reductive Sites on the Outer Membrane of <i>Shewanella decolorationis</i> S12. <i>Frontiers in Microbiology</i> , 2019, 10, 1452.	1.5	7
54	APPBP2 enhances non-small cell lung cancer proliferation and invasiveness through regulating PPM1D and SPOP. <i>EBioMedicine</i> , 2019, 44, 138-149.	2.7	6

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55	Function-Oriented Graphene Quantum Dots Probe for Single Cell in situ Sorting of Active Microorganisms in Environmental Samples. <i>Frontiers in Microbiology</i> , 2021, 12, 659111.	1.5	4
56	Molecular mechanism of zero valent iron-enhanced microbial azo reduction. <i>Environmental Pollution</i> , 2021, 290, 118046.	3.7	3
57	An AAV vaccine targeting the RBD of the SARS-CoV-2 S protein induces effective neutralizing antibody titers in mice and canines. <i>Vaccine</i> , 2022, 40, 1208-1212.	1.7	3
58	Substrate Determinants for Unwinding Activity of the DExH/D-Box Protein RNA Helicase A. <i>Biochemistry</i> , 2018, 57, 6662-6668.	1.2	2
59	Dynamically probing ATP $\epsilon$ -dependent RNA helicase A $\epsilon$ -assisted RNA structure conversion using single molecule fluorescence resonance energy transfer. <i>Protein Science</i> , 2021, 30, 1157-1168.	3.1	2