

Fenni Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Room Temperature VOCs Sensing with Termination-Modified Ti ₃ C ₂ T _x MXene for Wearable Exhaled Breath Monitoring. <i>Advanced Materials Technologies</i> , 2022, 7, 2100872.	5.8	32
2	Bioelectronic modulation of single-wavelength localized surface plasmon resonance (LSPR) for the detection of electroactive biomolecules. <i>Chinese Chemical Letters</i> , 2022, 33, 3144-3150.	9.0	9
3	Bio-electron transfer modulated localized surface plasmon resonance biosensing with charge density monitoring. <i>Biosensors and Bioelectronics</i> , 2022, 201, 113956.	10.1	9
4	Smartphone-based label-free photoelectrochemical sensing of cysteine with cadmium ion chelation. <i>Analyst</i> , 2022, 147, 1403-1409.	3.5	9
5	Elimination of oxygen interference in the photoelectrochemical sensor with ferricyanide shield oxygen reduction for point of care testing. <i>Analytica Chimica Acta</i> , 2022, 1206, 339796.	5.4	3
6	Imaging Single Bacterial Cells with Electro-optical Impedance Microscopy. <i>ACS Sensors</i> , 2021, 6, 348-354.	7.8	6
7	Gradient-Based Rapid Digital Immunoassay for High-Sensitivity Cardiac Troponin T (hs-cTnT) Detection in 1 μ L Plasma. <i>ACS Sensors</i> , 2021, 6, 399-407.	7.8	12
8	Colorimetric Sensor for Online Accurate Detection of Breath Acetone. <i>ACS Sensors</i> , 2021, 6, 450-453.	7.8	43
9	Battery-Free and Wireless Smart Wound Dressing for Wound Infection Monitoring and Electrically Controlled On-Demand Drug Delivery. <i>Advanced Functional Materials</i> , 2021, 31, 2100852.	14.9	135
10	Rapid Antimicrobial Susceptibility Testing on Clinical Urine Samples by Video-Based Object Scattering Intensity Detection. <i>Analytical Chemistry</i> , 2021, 93, 7011-7021.	6.5	14
11	Simultaneous Quantification of Protein Binding Kinetics in Whole Cells with Surface Plasmon Resonance Imaging and Edge Deformation Tracking. <i>Membranes</i> , 2020, 10, 247.	3.0	8
12	Direct Antimicrobial Susceptibility Testing on Clinical Urine Samples by Optical Tracking of Single Cell Division Events. <i>Small</i> , 2020, 16, e2004148.	10.0	14
13	Optical Tracking of Nanometer-Scale Cellular Membrane Deformation Associated with Single Vesicle Release. <i>ACS Sensors</i> , 2019, 4, 2205-2212.	7.8	8
14	Rapid Antimicrobial Susceptibility Testing of Patient Urine Samples Using Large Volume Free-Solution Light Scattering Microscopy. <i>Analytical Chemistry</i> , 2019, 91, 10164-10171.	6.5	29
15	Optical Imaging of Charges with Atomically Thin Molybdenum Disulfide. <i>ACS Nano</i> , 2019, 13, 2298-2306.	14.6	9
16	Tracking fast cellular membrane dynamics with sub-nm accuracy in the normal direction. <i>Nanoscale</i> , 2018, 10, 5133-5139.	5.6	13
17	Label-Free Quantification of Small-Molecule Binding to Membrane Proteins on Single Cells by Tracking Nanometer-Scale Cellular Membrane Deformation. <i>ACS Nano</i> , 2018, 12, 2056-2064.	14.6	16
18	Kinetics of small molecule interactions with membrane proteins in single cells measured with mechanical amplification. <i>Science Advances</i> , 2015, 1, e1500633.	10.3	39

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19	Quantification of Epidermal Growth Factor Receptor Expression Level and Binding Kinetics on Cell Surfaces by Surface Plasmon Resonance Imaging. <i>Analytical Chemistry</i> , 2015, 87, 9960-9965.	6.5	161
20	How does fluorescent labeling affect the binding kinetics of proteins with intact cells?. <i>Biosensors and Bioelectronics</i> , 2015, 66, 412-416.	10.1	56
21	Biosensor analysis of natural and artificial sweeteners in intact taste epithelium. <i>Biosensors and Bioelectronics</i> , 2014, 54, 385-392.	10.1	29
22	Biosensor recording of extracellular potentials in the taste epithelium for bitter detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 497-504.	7.8	37
23	Extracellular potentials recording in intact taste epithelium by microelectrode array for a taste sensor. <i>Biosensors and Bioelectronics</i> , 2013, 43, 186-192.	10.1	36
24	Umami evaluation in taste epithelium on microelectrode array by extracellular electrophysiological recording. <i>Biochemical and Biophysical Research Communications</i> , 2013, 438, 334-339.	2.1	14
25	Bioelectronic tongue of taste buds on microelectrode array for salt sensing. <i>Biosensors and Bioelectronics</i> , 2013, 40, 115-120.	10.1	42
26	Impedance sensing and molecular modeling of an olfactory biosensor based on chemosensory proteins of honeybee. <i>Biosensors and Bioelectronics</i> , 2013, 40, 174-179.	10.1	61
27	Microelectrode recording of tissue neural oscillations for a bionic olfactory biosensor. <i>Journal of Bionic Engineering</i> , 2012, 9, 494-500.	5.0	5
28	Olfactory epithelium biosensor: odor discrimination of receptor neurons from a bio-hybrid sensing system. <i>Biomedical Microdevices</i> , 2012, 14, 1055-1061.	2.8	17
29	Neurosecretory cell-based biosensor: Monitoring secretion of adrenal chromaffin cells by local extracellular acidification using light-addressable potentiometric sensor. <i>Biosensors and Bioelectronics</i> , 2012, 35, 421-424.	10.1	9
30	Extracellular recording of spatiotemporal patterning in response to odors in the olfactory epithelium by microelectrode arrays. <i>Biosensors and Bioelectronics</i> , 2011, 27, 12-17.	10.1	19
31	Odors Discrimination by Olfactory Epithelium Biosensor. , 2011, , .		0
32	Label-Free Quantification of Molecular Interaction in Live Red Blood Cells by Tracking Nanometer Scale Membrane Fluctuations. <i>Small</i> , 0, , 2201623.	10.0	5