

Ning Hu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

146
papers

3,980
citations

32
h-index

59
g-index

162
ext. papers

5,170
ext. citations

8.4
avg, IF

5.59
L-index

#	Paper	IF	Citations
146	Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2293-E2302	11.5	416
145	Extrusion Bioprinting of Shear-Thinning Gelatin Methacryloyl Bioinks. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601451	10.1	233
144	Cell-based biosensors and their application in biomedicine. <i>Chemical Reviews</i> , 2014 , 114, 6423-61	68.1	221
143	Gold Nanocomposite Bioink for Printing 3D Cardiac Constructs. <i>Advanced Functional Materials</i> , 2017 , 27, 1605352	15.6	173
142	Coaxial extrusion bioprinting of 3D microfibrinous constructs with cell-favorable gelatin methacryloyl microenvironments. <i>Biofabrication</i> , 2018 , 10, 024102	10.5	147
141	3D Bioprinting: from Benches to Translational Applications. <i>Small</i> , 2019 , 15, e1805510	11	137
140	Aptamer-Based Microfluidic Electrochemical Biosensor for Monitoring Cell-Secreted Trace Cardiac Biomarkers. <i>Analytical Chemistry</i> , 2016 , 88, 10019-10027	7.8	137
139	Digitally Tunable Microfluidic Bioprinting of Multilayered Cannular Tissues. <i>Advanced Materials</i> , 2018 , 30, e1706913	24	134
138	Recent achievements in electronic tongue and bioelectronic tongue as taste sensors. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 1136-1146	8.5	114
137	Screen-printed gold electrode with gold nanoparticles modification for simultaneous electrochemical determination of lead and copper. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 336-342	8.5	110
136	Label-Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes. <i>Advanced Science</i> , 2017 , 4, 1600522	13.6	80
135	Tuning the Bifunctional Oxygen Electrocatalytic Properties of Core-Shell CoO@NiFe LDH Catalysts for Zn-Air Batteries: Effects of Interfacial Cation Valences. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21506-21514	9.5	71
134	A cardiomyocyte-based biosensor for antiarrhythmic drug evaluation by simultaneously monitoring cell growth and beating. <i>Biosensors and Bioelectronics</i> , 2013 , 49, 9-13	11.8	70
133	An ultrasensitive electrochemical immunosensor for carcinoembryonic antigen detection based on staphylococcal protein A/Au nanoparticle modified gold electrode. <i>Sensors and Actuators B: Chemical</i> , 2014 , 197, 220-227	8.5	69
132	Extracellular potentials recording in intact olfactory epithelium by microelectrode array for a bioelectronic nose. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2212-7	11.8	69
131	Heart-on-a-Chip Model with Integrated Extra- and Intracellular Bioelectronics for Monitoring Cardiac Electrophysiology under Acute Hypoxia. <i>Nano Letters</i> , 2020 , 20, 2585-2593	11.5	68
130	3D cell-based biosensor for cell viability and drug assessment by 3D electric cell/matrigel-substrate impedance sensing. <i>Biosensors and Bioelectronics</i> , 2019 , 130, 344-351	11.8	60

129	Multifunctional Ionic Skin with Sensing, UV-Filtering, Water-Retaining, and Anti-Freezing Capabilities. <i>Advanced Functional Materials</i> , 2021 , 31, 2011176	15.6	58
128	A novel microphysiometer based on high sensitivity LAPS and microfluidic system for cellular metabolism study and rapid drug screening. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 167-73	11.8	53
127	Bioprinting: 3D Bioprinting: from Benches to Translational Applications (Small 23/2019). <i>Small</i> , 2019 , 15, 1970126	11	50
126	High-sensitive and high-efficient biochemical analysis method using a bionic electronic eye in combination with a smartphone-based colorimetric reader system. <i>Sensors and Actuators B: Chemical</i> , 2015 , 216, 134-140	8.5	46
125	An improved sensitive assay for the detection of PSP toxins with neuroblastoma cell-based impedance biosensor. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 458-64	11.8	41
124	An improved functional assay for rapid detection of marine toxins, saxitoxin and brevetoxin using a portable cardiomyocyte-based potential biosensor. <i>Biosensors and Bioelectronics</i> , 2015 , 72, 10-7	11.8	40
123	Microfabricated electrochemical cell-based biosensors for analysis of living cells in vitro. <i>Biosensors</i> , 2012 , 2, 127-70	5.9	40
122	The Features and Progress of Electrolyte for Potassium Ion Batteries. <i>Small</i> , 2020 , 16, e2004096	11	37
121	Bioelectronic tongue of taste buds on microelectrode array for salt sensing. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 115-20	11.8	36
120	Environmentally-Friendly and Multifunctional Graphene-Silk Fabric Strain Sensor for Human-Motion Detection. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901507	4.6	36
119	Copper Sulfide Nanoparticle/Cellulose Composite Paper: Room-Temperature Green Fabrication for NIR Laser-Inducible Ablation of Pathogenic Microorganisms. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2648-2655	8.3	35
118	High-performance beating pattern function of human induced pluripotent stem cell-derived cardiomyocyte-based biosensors for hERG inhibition recognition. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 146-53	11.8	33
117	Olfactory mucosa tissue-based biosensor: A bioelectronic nose with receptor cells in intact olfactory epithelium. <i>Sensors and Actuators B: Chemical</i> , 2010 , 146, 527-533	8.5	33
116	Multifunctional Branched Nanostraw-Electroporation Platform for Intracellular Regulation and Monitoring of Circulating Tumor Cells. <i>Nano Letters</i> , 2019 , 19, 7201-7209	11.5	32
115	Olfactory receptor cells respond to odors in a tissue and semiconductor hybrid neuron chip. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1672-8	11.8	32
114	Detection of diarrhetic shellfish poisoning toxins using high-sensitivity human cancer cell-based impedance biosensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 205-212	8.5	29
113	Nanoneedle Platforms: The Many Ways to Pierce the Cell Membrane. <i>Advanced Functional Materials</i> , 2020 , 30, 1909890	15.6	28
112	Intracellular Delivery and Sensing System Based on Electroplated Conductive Nanostraw Arrays. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43936-43948	9.5	28

111	High-Throughput Assessment of Drug Cardiac Safety Using a High-Speed Impedance Detection Technology-Based Heart-on-a-Chip. <i>Micromachines</i> , 2016 , 7,	3.3	28
110	A novel sensitive cell-based Love Wave biosensor for marine toxin detection. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 573-9	11.8	27
109	Synchronized electromechanical integration recording of cardiomyocytes. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 354-365	11.8	26
108	Extracellular potentials recording in intact taste epithelium by microelectrode array for a taste sensor. <i>Biosensors and Bioelectronics</i> , 2013 , 43, 186-92	11.8	26
107	MnO nanosheets as the biomimetic oxidase for rapid and sensitive oxalate detection combining with bionic E-eye. <i>Biosensors and Bioelectronics</i> , 2019 , 130, 254-261	11.8	25
106	A novel bioelectronic tongue in vivo for highly sensitive bitterness detection with brain-machine interface. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 374-380	11.8	25
105	A sensing smartphone and its portable accessory for on-site rapid biochemical detection of marine toxins. <i>Analytical Methods</i> , 2016 , 8, 6895-6902	3.2	24
104	A Fully Integrated Closed-Loop System Based on Mesoporous Microneedles-Iontophoresis for Diabetes Treatment. <i>Advanced Science</i> , 2021 , 8, e2100827	13.6	24
103	A competitive love wave immunosensor for detection of okadaic acid based on immunogold staining method. <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 1173-1180	8.5	23
102	A novel and functional assay for pharmacological effects of marine toxins, saxitoxin and tetrodotoxin by cardiomyocyte-based impedance biosensor. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 828-837	8.5	23
101	Tumor-on-a-chip: from bioinspired design to biomedical application. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 50	7.7	22
100	Detection and classification of natural odors with an in vivo bioelectronic nose. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 694-9	11.8	21
99	A LAPS array with low cross-talk for non-invasive measurement of cellular metabolism. <i>Sensors and Actuators A: Physical</i> , 2012 , 187, 50-56	3.9	21
98	Emerging Roles of 1D Vertical Nanostructures in Orchestrating Immune Cell Functions. <i>Advanced Materials</i> , 2020 , 32, e2001668	24	21
97	Spider-Inspired Ultrasensitive Flexible Vibration Sensor for Multifunctional Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30871-30881	9.5	20
96	Assessment of cadmium-induced hepatotoxicity and protective effects of zinc against it using an improved cell-based biosensor. <i>Sensors and Actuators A: Physical</i> , 2013 , 199, 156-164	3.9	18
95	Detection of bitterness in vitro by a novel male mouse germ cell-based biosensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 461-469	8.5	17
94	Design of Ultrawideband Energy-Selective Surface for High-Power Microwave Protection. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 669-673	3.8	16

93	Specific recognition of ion channel blocker by high-content cardiomyocyte electromechanical integrated correlation. <i>Biosensors and Bioelectronics</i> , 2020 , 162, 112273	11.8	16
92	Cellular impedance sensing combined with LAPS as a new means for real-time monitoring cell growth and metabolism. <i>Sensors and Actuators A: Physical</i> , 2013 , 199, 136-142	3.9	16
91	Extracellular recording of spatiotemporal patterning in response to odors in the olfactory epithelium by microelectrode arrays. <i>Biosensors and Bioelectronics</i> , 2011 , 27, 12-7	11.8	16
90	Comparison between ECIS and LAPS for establishing a cardiomyocyte-based biosensor. <i>Sensors and Actuators B: Chemical</i> , 2013 , 185, 238-244	8.5	15
89	Efficacy and cardiotoxicity integrated assessment of anticancer drugs by a dual functional cell-based biosensor. <i>Sensors and Actuators B: Chemical</i> , 2019 , 283, 881-889	8.5	15
88	Design of a miniaturized multisensor chip with nanoband electrode array and light addressable potentiometric sensor for ion sensing. <i>Analytical Methods</i> , 2015 , 7, 9190-9197	3.2	14
87	Photo-cross-linkable, insulating silk fibroin for bioelectronics with enhanced cell affinity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15482-15489	11.5	14
86	Multifunctional Slippery Polydimethylsiloxane/Carbon Nanotube Composite Strain Sensor with Excellent Liquid Repellence and Anti-Icing/Deicing Performance.. <i>Polymers</i> , 2022 , 14,	4.5	14
85	Integrated multifunctional cell-based biosensor system for monitoring extracellular acidification and cellular growth. <i>Sensors and Actuators A: Physical</i> , 2014 , 220, 144-152	3.9	13
84	Synthesis and properties of poly(1,3-dioxolane) quasi-solid-state electrolytes a rare-earth triflate catalyst. <i>Chemical Communications</i> , 2021 , 57, 7934-7937	5.8	13
83	A bioinspired in vitro bioelectronic tongue with human T2R38 receptor for high-specificity detection of N=C=S-containing compounds. <i>Talanta</i> , 2019 , 199, 131-139	6.2	12
82	ZrB-Based "Brick-and-Mortar" Composites Achieving the Synergy of Superior Damage Tolerance and Ablation Resistance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33246-33255	9.5	12
81	A Novel Quantum Dot Fluorescence Immunosensor Based on Magnetic Beads and Portable Flow Cytometry for Detection of Okadaic Acid. <i>Procedia Technology</i> , 2017 , 27, 214-216		12
80	Olfactory epithelium biosensor: odor discrimination of receptor neurons from a bio-hybrid sensing system. <i>Biomedical Microdevices</i> , 2012 , 14, 1055-61	3.7	12
79	Bionic 3D spheroids biosensor chips for high-throughput and dynamic drug screening. <i>Biomedical Microdevices</i> , 2018 , 20, 82	3.7	12
78	Preparation of Nanocomposite Polymer Electrolyte via In Situ Synthesis of SiO Nanoparticles in PEO. <i>Nanomaterials</i> , 2020 , 10,	5.4	11
77	The zero-frequency component of bulk waves in solids with randomly distributed micro-cracks. <i>Ultrasonics</i> , 2020 , 107, 106172	3.5	11
76	Vertical nanowire array-based biosensors: device design strategies and biomedical applications. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 7609-7632	7.3	11

75	Multifunctional Polypropylene Separator via Cooperative Modification and Its Application in the Lithium-Sulfur Battery. <i>Langmuir</i> , 2020 , 36, 11147-11153	4	11
74	Pt and Te codoped ultrathin MoS ₂ nanosheets for enhanced hydrogen evolution reaction with wide pH range. <i>Rare Metals</i> , ¹	5.5	11
73	Design of a Multilayer Broadband Switchable Absorber Based on Semiconductor Switch. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 373-377	3.8	10
72	A whole animal-based biosensor for fast detection of bitter compounds using extracellular potentials in rat gustatory cortex. <i>Sensors and Actuators B: Chemical</i> , 2017 , 239, 746-753	8.5	10
71	Bioinspired Color-Changeable Organogel Tactile Sensor with Excellent Overall Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49866-49875	9.5	10
70	Intracellular recording of cardiomyocyte action potentials by nanobranched microelectrode array. <i>Biosensors and Bioelectronics</i> , 2020 , 169, 112588	11.8	10
69	In-Cell Nanoelectronics: Opening the Door to Intracellular Electrophysiology. <i>Nano-Micro Letters</i> , 2021 , 13, 127	19.5	10
68	Activating the hydrogen evolution activity of Pt electrode via synergistic interaction with NiS. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 591-597	9.3	10
67	Detection of 5-hydroxytryptamine (5-HT) in vitro using a hippocampal neuronal network-based biosensor with extracellular potential analysis of neurons. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 572-8	11.8	9
66	An integrated label-free cell-based biosensor for simultaneously monitoring of cellular physiology multiparameter in vitro. <i>Biomedical Microdevices</i> , 2013 , 15, 473-80	3.7	9
65	4D Printing of Glass Fiber-Regulated Shape Shifting Structures with High Stiffness. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 12797-12804	9.5	9
64	Composite Hybrid Quasi-Solid Electrolyte for High-Energy Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7973-7982	6.1	9
63	An Inverse Approach of Damage Identification Using Lamb Wave Tomography. <i>Sensors</i> , 2019 , 19,	3.8	8
62	Detection of cardiovascular drugs and marine toxins using a multifunctional cell-based impedance biosensor system. <i>Analytical Methods</i> , 2015 , 7, 7715-7723	3.2	8
61	A magnetic beads-based portable flow cytometry immunosensor for in-situ detection of marine biotoxin. <i>Biomedical Microdevices</i> , 2018 , 20, 60	3.7	8
60	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	11.8	8
59	A high sensitive in vivo biosensing detection for odors by multiunit in rat olfactory bulb. <i>Sensors and Actuators B: Chemical</i> , 2013 , 186, 308-314	8.5	8
58	High-sensitive and high-efficient biochemical analysis method using a bionic electronic eye in combination with a smartphone-based colorimetric reader system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7720-2	0.9	8

57	Anti-biofouling NH gas sensor based on reentrant thorny ZnO/graphene hybrid nanowalls. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 41	7.7	8
56	A Dual Functional Cardiomyocyte-based Hybrid-biosensor for the Detection of Diarrhetic Shellfish Poisoning and Paralytic Shellfish Poisoning Toxins. <i>Analytical Sciences</i> , 2018 , 34, 893-900	1.7	7
55	Recent Achievements in Cellular Behavior Investigation Using Cell-Based Impedance Biosensors. <i>Sensor Letters</i> , 2015 , 13, 1-12	0.9	7
54	High-efficient and high-content cytotoxic recording via dynamic and continuous cell-based impedance biosensor technology. <i>Biomedical Microdevices</i> , 2016 , 18, 94	3.7	7
53	A facile method for the synthesis of a sintering dense nano-grained NaZrSiPO Na-ion solid-state electrolyte. <i>Chemical Communications</i> , 2021 , 57, 4023-4026	5.8	7
52	Wearable and Implantable Intraocular Pressure Biosensors: Recent Progress and Future Prospects. <i>Advanced Science</i> , 2021 , 8, 2002971	13.6	7
51	LLZO@EmimFSI@PEO derived hybrid solid electrolyte for high-energy lithium metal batteries. <i>Materials Technology</i> , 2020 , 35, 618-624	2.1	6
50	Multi-odor discrimination by a novel bio-hybrid sensing preserving rat's intact smell perception in vivo. <i>Sensors and Actuators B: Chemical</i> , 2016 , 225, 34-41	8.5	6
49	Sensor-free and Sensor-based Heart-on-a-chip Platform: A Review of Design and Applications. <i>Current Pharmaceutical Design</i> , 2018 , 24, 5375-5385	3.3	6
48	Advances in Multidimensional Cardiac Biosensing Technologies: From Electrophysiology to Mechanical Motion and Contractile Force. <i>Small</i> , 2020 , 16, e2005828	11	6
47	A phase linearisation-based modulation signal bispectrum for analysing cyclostationary bearing signals. <i>Structural Health Monitoring</i> , 2021 , 20, 1231-1246	4.4	6
46	Synchronized intracellular and extracellular recording of action potentials by three-dimensional nanoroded electroporation. <i>Biosensors and Bioelectronics</i> , 2021 , 192, 113501	11.8	6
45	Antibody-free isolation and regulation of adherent cancer cells via hybrid branched microtube-sandwiched hydrodynamic system. <i>Nanoscale</i> , 2020 , 12, 5103-5113	7.7	5
44	A high-sensitive detection method for carvone odor by implanted electrodes in rat olfactory bulb. <i>Science Bulletin</i> , 2014 , 59, 29-37		5
43	Flexible, non-contact and multifunctional humidity sensors based on two-dimensional phytic acid doped co-metal organic frameworks nanosheets. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 2018-2018 ⁵	0.3	5
42	Characterization of Microcrack Orientation Using the Directivity of Secondary Sound Source Induced by an Incident Ultrasonic Transverse Wave. <i>Materials</i> , 2020 , 13,	3.5	5
41	Liquid-like Polymer Coating as a Promising Candidate for Reducing Electrode Contamination and Noise in Complex Biofluids. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4450-4462	9.5	5
40	An Ultrasensitive Gold Nanoband Aptasensor for Mercury(II) Detection in Aquatic Environment. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B793-B798	3.9	4

39	A wearable wireless system for olfactory neural recording in freely moving rats based on Wi-Fi technology. <i>Sensors and Actuators B: Chemical</i> , 2015 , 213, 457-464	8.5	4
38	Microelectrode recording of tissue neural oscillations for a bionic olfactory biosensor. <i>Journal of Bionic Engineering</i> , 2012 , 9, 494-500	2.7	4
37	High Performance Energy Selective Surface based on Equivalent Circuit Design Approach. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	4
36	Cardiomyocyte electrical-mechanical synchronized model for high-content, dose-quantitative and time-dependent drug assessment. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 26	7.7	4
35	Biosensors: Label-Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes (Adv. Sci. 5/2017). <i>Advanced Science</i> , 2017 , 4,	13.6	3
34	Degradable porous nanoflower substrate-embedded microfluidic device for capture, release and in situ manipulation of cancer cells. <i>Applied Materials Today</i> , 2020 , 19, 100617	6.6	3
33	Bioprinting: Extrusion Bioprinting of Shear-Thinning Gelatin Methacryloyl Bioinks (Adv. Healthcare Mater. 12/2017). <i>Advanced Healthcare Materials</i> , 2017 , 6,	10.1	3
32	DESIGN OF MICROPHYSIOMETER BASED ON MULTIPARAMETER CELL-BASED BIOSENSORS FOR QUICK DRUG ANALYSIS. <i>Journal of Innovative Optical Health Sciences</i> , 2012 , 05, 1150005	1.2	3
31	Neurochip based on light-addressable potentiometric sensor with wavelet transform de-noising. <i>Journal of Zhejiang University: Science B</i> , 2010 , 11, 323-31	4.5	3
30	Interlaminar mechanical properties of nano- and short-aramid fiber reinforced glass fiber-aluminum laminates: a comparative study. <i>Journal of Materials Science</i> , 2021 , 56, 12198-12211	4.3	3
29	Liquid-like polymer-based self-cleaning coating for effective prevention of liquid foods contaminations. <i>Journal of Colloid and Interface Science</i> , 2021 , 589, 327-335	9.3	3
28	Experimental observation of static component generation by Lamb wave propagation in an elastic plate. <i>Ultrasonics</i> , 2021 , 117, 106537	3.5	3
27	Tissue Engineering: Gold Nanocomposite Bioink for Printing 3D Cardiac Constructs (Adv. Funct. Mater. 12/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	2
26	Human Motion Detection: Environmentally-Friendly and Multifunctional Graphene-Silk Fabric Strain Sensor for Human-Motion Detection (Adv. Mater. Interfaces 1/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070006	4.6	2
25	Detection and classification of tastants in vivo using a novel bioelectronic tongue in combination with brain-machine interface. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7550-3	0.9	2
24	Research progress of organoids-on-chips in biomedical application. <i>Chinese Science Bulletin</i> , 2019 , 64, 902-910	2.9	2
23	Recognition of high-specificity hERG K ⁺ channel inhibitor-induced arrhythmia in cardiomyocytes by automated template matching. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 24	7.7	2
22	Liquid-like layer coated intraocular lens for posterior capsular opacification prevention. <i>Applied Materials Today</i> , 2021 , 23, 100981	6.6	2

21	Hybrid Integrated Cardiomyocyte Biosensors for Bitter Detection and Cardiotoxicity Assessment. <i>ACS Sensors</i> , 2021 , 6, 2593-2604	9.2	2
20	A novel Love Wave biosensor for rapid and sensitive detection of marine toxins. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 3181-4	0.9	1
19	Asynchronous Synergistic Damage Effect of Atomic Oxygen and Space Micro Debris on Kapton Film. <i>Coatings</i> , 2022 , 12, 179	2.9	1
18	Microfluidic Bioprinting: Digitally Tunable Microfluidic Bioprinting of Multilayered Cannular Tissues (Adv. Mater. 43/2018). <i>Advanced Materials</i> , 2018 , 30, 1870322	24	1
17	Accurate and efficient intracellular delivery biosensing system by nanostrawed electroporation array. <i>Biosensors and Bioelectronics</i> , 2021 , 194, 113583	11.8	1
16	A universal, multimodal cell-based biosensing platform for optimal intracellular action potential recording.. <i>Biosensors and Bioelectronics</i> , 2022 , 206, 114122	11.8	1
15	Integrated Au-Nanoroded Biosensing and Regulating Platform for Photothermal Therapy of Bradyarrhythmia.. <i>Research</i> , 2022 , 2022, 9854342	7.8	0
14	Wearable Multifunctional Graphene-Based Aerogel/Spacer Fabric Composites for Sensing and Impact Protection. <i>Advanced Materials Technologies</i> , 2200010	6.8	0
13	Multi-labeled neural network model for automatically processing cardiomyocyte mechanical beating signals in drug assessment.. <i>Biosensors and Bioelectronics</i> , 2022 , 209, 114261	11.8	0
12	Novel Self-Adaptive Electrolyte for High-Energy Solid-State Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2022 , 5, 862-869	6.1	0
11	A biosensing system using a multiparameter nonlinear dynamic analysis of cardiomyocyte beating for drug-induced arrhythmia recognition.. <i>Microsystems and Nanoengineering</i> , 2022 , 8, 49	7.7	0
10	Electromechanical integrated recording of single cardiomyocyte in situ by multimodal microelectrode biosensing system. <i>Biosensors and Bioelectronics</i> , 2022 , 212, 114387	11.8	0
9	Evolution Profile for Assessing Drug-Induced Arrhythmia Using Multifunctional Cardiomyocyte-Based Biosensor. <i>Advanced Materials Research</i> , 2014 , 1058, 339-343	0.5	
8	A dynamic and quantitative biosensing assessment for electroporated membrane evolution of cardiomyocytes.. <i>Biosensors and Bioelectronics</i> , 2022 , 202, 114016	11.8	
7	Micro/Nano Biosensors for Living Cell and Molecule Analysis 2016 , 19-44		
6	Micro/Nano Cell Potential Biosensors 2016 , 97-123		
5	Future Trends of Micro/Nano Cell and Molecule-Based Biosensors 2016 , 229-240		
4	High-throughput rhythmic regulation of cardiomyocytes by integrated electrical stimulation and video-based automated analysis biosensing platform.. <i>Biosensors and Bioelectronics</i> , 2022 , 209, 114252	11.8	

- 3 Intracellular Recording of Cardiomyocytes by Integrated Electrical Signal Recording and Electrical Pulse Regulating System.. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 799312 5.8
- 2 Mechanical Properties Evolution and Damage Mechanism of Kevlar Fiber under Ozone Exposure in Near-Space Simulation. *Coatings*, **2022**, 12, 584 2.9
- 1 Waveform covariance imaging for Lamb wave phased array. *Structural Health Monitoring*, 147592172210985 1.85