

Xiang Ren

List of Publications by Year in descending order

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32
papers

576
citations

858243

12
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759306

22
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33
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docs citations

33
times ranked

826
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically conductive 3D printed Ti3C2T MXene-PEG composite constructs for cardiac tissue engineering. <i>Acta Biomaterialia</i> , 2022, 139, 179-189.	4.1	70
2	Human Heart Anoxia and Reperfusion Tissue (HEART) Model for the Rapid Study of Exosome Bound miRNA Expression As Biomarkers for Myocardial Infarction. <i>Small</i> , 2022, 18, .	5.2	13
3	Cardiac Muscle Cell-Based Coupled Oscillator Network for Collective Computing. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000253.	3.3	4
4	A multiplexed ion-exchange membrane-based miRNA (MIXA-miR) detection platform for rapid diagnosis of myocardial infarction. <i>Lab on A Chip</i> , 2021, 21, 3876-3887.	3.1	11
5	Plasmonically Calibrated Label-Free Surface-Enhanced Raman Spectroscopy for Improved Multivariate Analysis of Living Cells in Cancer Subtyping and Drug Testing. <i>Analytical Chemistry</i> , 2021, 93, 4601-4610.	3.2	24
6	Cardiac Muscle Cell-Based Coupled Oscillator Network for Collective Computing. <i>Advanced Intelligent Systems</i> , 2021, 3, 2170043.	3.3	0
7	Plasmonic Calibration in Label-free Surface-enhanced Raman Spectroscopy for Improved Multivariate Analysis of Living Cells. , 2021, , .		0
8	Cardiac Cell Patterning on Customized Microelectrode Arrays for Electrophysiological Recordings. <i>Micromachines</i> , 2021, 12, 1351.	1.4	6
9	Post-enrichment circulating tumor cell detection and enumeration via deformability impedance cytometry. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111868.	5.3	27
10	Constant-potential environment for activating and synchronizing cardiomyocyte colonies with on-chip ion-depleting perm-selective membranes. <i>Lab on A Chip</i> , 2020, 20, 4273-4284.	3.1	5
11	Scalable nanolaminated SERS multiwell cell culture assay. <i>Microsystems and Nanoengineering</i> , 2020, 6, 47.	3.4	17
12	Comparative study of prostate cancer biophysical and migratory characteristics via iterative mechano-electrical properties (iMEP) and standard migration assays. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128522.	4.0	4
13	Breast cancer models: Engineering the tumor microenvironment. <i>Acta Biomaterialia</i> , 2020, 106, 1-21.	4.1	112
14	Electronic Raman Scattering Calibration for Quantitative Surface-enhanced Raman Spectroscopy and Improved Biostatistical Analysis. , 2020, , .		0
15	RI-Insensitive Surface-enhanced Raman Spectroscopy (SERS) for Label-free Profiling and Classification of Living Cancer Cells. , 2020, , .		0
16	Biophysical phenotyping of cells via impedance spectroscopy in parallel cyclic deformability channels. <i>Biomicrofluidics</i> , 2019, 13, 044103.	1.2	26
17	Refractive-Index-Insensitive Nanolaminated SERS Substrates for Label-Free Raman Profiling and Classification of Living Cancer Cells. <i>Nano Letters</i> , 2019, 19, 7273-7281.	4.5	63
18	A Monolithic Dielectrophoresis Chip With Impedimetric Sensing for Assessment of Pathogen Viability. <i>Journal of Microelectromechanical Systems</i> , 2018, 27, 810-817.	1.7	8

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19	Entrapment of Prostate Cancer Circulating Tumor Cells with a Sequential Size-Based Microfluidic Chip. <i>Analytical Chemistry</i> , 2018, 90, 7526-7534.	3.2	33
20	Kernel-Based Microfluidic Constriction Assay for Tumor Sample Identification. <i>ACS Sensors</i> , 2018, 3, 1510-1521.	4.0	15
21	Single-Cell Mechanical Characteristics Analyzed by Multiconstriction Microfluidic Channels. <i>ACS Sensors</i> , 2017, 2, 290-299.	4.0	48
22	Porous Polydimethylsiloxane as a Gas-Liquid Interface for Microfluidic Applications. <i>Journal of Microelectromechanical Systems</i> , 2017, 26, 120-126.	1.7	11
23	An embedded single-cell impedametric positioning tracker in microfluidic deformability assays. , 2017, , .		0
24	Cell-free artificial photosynthesis system. , 2017, , .		0
25	Stability of free-standing tetraether planar membranes in microchips. <i>Journal of Membrane Science</i> , 2017, 540, 27-34.	4.1	8
26	Abstract 3924: Single-cell mechanical characteristics of human breast cell lines analyzed by multi-constriction microfluidic channels. , 2017, , .		1
27	Archaeal Tetraether Free Standing Lipid Membranes in a PDMS and PCB based Fluidic Platform. <i>Biophysical Journal</i> , 2015, 108, 485a-486a.	0.2	0
28	Direct inkjet printing of micro-scale silver electrodes on polydimethylsiloxane (PDMS) microchip. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 115010.	1.5	40
29	Modeling of pneumatic valve dispenser for printing viscous biomaterials in additive manufacturing. <i>Rapid Prototyping Journal</i> , 2014, 20, 434-443.	1.6	13
30	Design, Fabrication, and Characterization of Archaeal Tetraether Free-Standing Planar Membranes in a PDMS- and PCB-Based Fluidic Platform. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12618-12628.	4.0	15
31	Fabrication of Chitosan Porous Structure and Applications on Artificial Photosynthesis Device. , 2013, , .		2
32	Micro and Nano Design and Fabrication of a Novel Artificial Photosynthesis Device. , 2012, , .		0