

Xiaolong Luo

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,187
citations

430442

18
h-index

377514

34
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43
all docs

43
docs citations

43
times ranked

1221
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ quantitative visualization and characterization of chitosan electrodeposition with paired sidewall electrodes. <i>Soft Matter</i> , 2010, 6, 3177.	1.2	150
2	Mechanism of anodic electrodeposition of calcium alginate. <i>Soft Matter</i> , 2011, 7, 5677.	1.2	103
3	Biofabrication: programmable assembly of polysaccharide hydrogels in microfluidics as biocompatible scaffolds. <i>Journal of Materials Chemistry</i> , 2012, 22, 7659.	6.7	75
4	Chitosan-mediated in situ biomolecule assembly in completely packaged microfluidic devices. <i>Lab on A Chip</i> , 2006, 6, 1315.	3.1	68
5	Biocompatible multi-address 3D cell assembly in microfluidic devices using spatially programmable gel formation. <i>Lab on A Chip</i> , 2011, 11, 2316.	3.1	68
6	Electroaddressing Functionalized Polysaccharides as Model Biofilms for Interrogating Cell Signaling. <i>Advanced Functional Materials</i> , 2012, 22, 519-528.	7.8	61
7	In situ generation of pH gradients in microfluidic devices for biofabrication of freestanding, semi-permeable chitosan membranes. <i>Lab on A Chip</i> , 2010, 10, 59-65.	3.1	57
8	Programmable assembly of a metabolic pathway enzyme in a pre-packaged reusable bioMEMS device. <i>Lab on A Chip</i> , 2008, 8, 420.	3.1	53
9	Anisotropic, Mesoporous Microfluidic Frameworks with Scalable, Aligned Cellulose Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7362-7370.	4.0	49
10	Biofabrication of stratified biofilm mimics for observation and control of bacterial signaling. <i>Biomaterials</i> , 2012, 33, 5136-5143.	5.7	46
11	Oral mucosa-on-a-chip to assess layer-specific responses to bacteria and dental materials. <i>Biomicrofluidics</i> , 2018, 12, 054106.	1.2	41
12	Optically clear alginate hydrogels for spatially controlled cell entrapment and culture at microfluidic electrode surfaces. <i>Lab on A Chip</i> , 2013, 13, 1854.	3.1	39
13	Biological nanofactories facilitate spatially selective capture and manipulation of quorum sensing bacteria in a bioMEMS device. <i>Lab on A Chip</i> , 2010, 10, 1128.	3.1	35
14	Distal modulation of bacterial cell-cell signalling in a synthetic ecosystem using partitioned microfluidics. <i>Lab on A Chip</i> , 2015, 15, 1842-1851.	3.1	34
15	Protein assembly onto patterned microfabricated devices through enzymatic activation of fusion pro-tag. <i>Biotechnology and Bioengineering</i> , 2008, 99, 499-507.	1.7	32
16	Air bubble-initiated biofabrication of freestanding, semi-permeable biopolymer membranes in PDMS microfluidics. <i>Biochemical Engineering Journal</i> , 2014, 89, 2-9.	1.8	24
17	Steering air bubbles with an add-on vacuum layer for biopolymer membrane biofabrication in PDMS microfluidics. <i>Lab on A Chip</i> , 2017, 17, 248-255.	3.1	22
18	An Oral-mucosa-on-a-chip sensitively evaluates cell responses to dental monomers. <i>Biomedical Microdevices</i> , 2021, 23, 7.	1.4	22

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19	Conferring biological activity to native spider silk: A biofunctionalized protein-based microfiber. <i>Biotechnology and Bioengineering</i> , 2017, 114, 83-95.	1.7	20
20	Perspectives in flow-based microfluidic gradient generators for characterizing bacterial chemotaxis. <i>Biomicrofluidics</i> , 2016, 10, 061301.	1.2	19
21	Microfluidic partition with in situ biofabricated semipermeable biopolymer membranes for static gradient generation. <i>Lab on A Chip</i> , 2016, 16, 3815-3823.	3.1	18
22	Modulating the properties of flow-assembled chitosan membranes in microfluidics with glutaraldehyde crosslinking. <i>Journal of Materials Chemistry B</i> , 2020, 8, 2519-2529.	2.9	18
23	Tuning the porosity of biofabricated chitosan membranes in microfluidics with co-assembled nanoparticles as templates. <i>Materials Advances</i> , 2020, 1, 34-44.	2.6	14
24	Integrated biofabrication for electro-addressed in-film bioprocessing. <i>Biotechnology Journal</i> , 2012, 7, 428-439.	1.8	13
25	Flow-assembled chitosan membranes in microfluidics: recent advances and applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 3258-3283.	2.9	13
26	Design optimization for bioMEMS studies of enzyme-controlled metabolic pathways. <i>Biomedical Microdevices</i> , 2008, 10, 899-908.	1.4	12
27	Magnetic nanoparticle-loaded alginate beads for local micro-actuation of in vitro tissue constructs. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 945-955.	2.5	12
28	Constructing Synthetic Ecosystems with Biopolymer Fluitrodes. <i>Advanced Biology</i> , 2018, 2, 1700180.	3.0	12
29	A simple capillary viscometer based on the ideal gas law. <i>RSC Advances</i> , 2018, 8, 30441-30447.	1.7	10
30	Interfacial Electrofabrication of Freestanding Biopolymer Membranes with Distal Electrodes. <i>Langmuir</i> , 2020, 36, 11034-11043.	1.6	9
31	Chemotropism among populations of yeast cells with spatiotemporal resolution in a biofabricated microfluidic platform. <i>Biomicrofluidics</i> , 2020, 14, 014108.	1.2	9
32	Microfluidic fabrication of stable collagen microgels with aligned microstructure using flow-driven co-deposition and ionic gelation. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 085002.	1.5	7
33	Microstructural densification and alignment by aspiration-ejection influence cancer cell interactions with three-dimensional collagen networks. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1826-1838.	1.7	7
34	A simple and reusable bilayer membrane-based microfluidic device for the study of gradient-mediated bacterial behaviors. <i>Biomicrofluidics</i> , 2017, 11, 044114.	1.2	6
35	Dual-modality digital holographic and polarization microscope to quantify phase and birefringence signals in biospecimens with a complex microstructure. <i>Biomedical Optics Express</i> , 2022, 13, 805.	1.5	5
36	Biofabrication in Microfluidics: A Converging Fabrication Paradigm to Exploit Biology in Microsystems. <i>Journal of Bioengineering & Biomedical Science</i> , 2012, 02, .	0.2	3

#	ARTICLE	IF	CITATIONS
37	Bridging the Bio-Electronic Interface with Biofabrication. Journal of Visualized Experiments, 2012, , e4231.	0.2	1
38	PIV measurement of fluid flow inside a human uterus model for cryoablation. , 0, , .		0
39	In situ Biomolecule Assembly and Activity within Completely Packaged Microfluidic Devices. , 2006, , .		0
40	Fabrication and Characterization of Porous Flow-Assembled Chitosan Membranes in Microfluidics. IFMBE Proceedings, 2022, , 383-392.	0.2	0
41	Integration of Diverse Biological Materials in Micro/Nano Devices. NATO Science for Peace and Security Series B: Physics and Biophysics, 2010, , 275-285.	0.2	0