

Christopher Moraes

List of Publications by Year in Descending Order

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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.

62

papers

1,369

citations

20

h-index

36

g-index

68

ext. papers

1,683

ext. citations

6.4

avg, IF

4.8

L-index

#	Paper	IF	Citations
62	Accessible, large-area, uniform dose photolithography using a moving light source. <i>Journal of Micromechanics and Microengineering</i> , 2022 , 32, 027001	2	1
61	Architectural control of metabolic plasticity in epithelial cancer cells. <i>Communications Biology</i> , 2021 , 4, 371	6.7	4
60	Oxygenation as a driving factor in epithelial differentiation at the air-liquid interface. <i>Integrative Biology (United Kingdom)</i> , 2021 , 13, 61-72	3.7	2
59	Bioprintable, Stiffness-Tunable Collagen-Alginate Microgels for Increased Throughput 3D Cell Culture Studies. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2814-2822	5.5	4
58	Disentangling the fibrous microenvironment: designer culture models for improved drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2021 , 16, 159-171	6.2	9
57	The W-model: a pre-college design pedagogy for solving wicked problems. <i>International Journal of Technology and Design Education</i> , 2021 , 31, 139-164	1.1	
56	Revisiting tissue tensegrity: Biomaterial-based approaches to measure forces across length scales. <i>APL Bioengineering</i> , 2021 , 5, 041501	6.6	3
55	Disease-specific extracellular matrix composition regulates placental trophoblast fusion efficiency. <i>Biomaterials Science</i> , 2021 , 9, 7247-7256	7.4	1
54	Hydrogel Mechanics Influence the Growth and Development of Embedded Brain Organoids.. <i>ACS Applied Bio Materials</i> , 2021 ,	4.1	5
53	The DNMT1 inhibitor GSK-3484862 mediates global demethylation in murine embryonic stem cells.. <i>Epigenetics and Chromatin</i> , 2021 , 14, 56	5.8	2
52	Hydrophilic Mechano-Bactericidal Nanopillars Require External Forces to Rapidly Kill Bacteria. <i>Nano Letters</i> , 2020 , 20, 5720-5727	11.5	22
51	Controlled clustering enhances PDX1 and NKX6.1 expression in pancreatic endoderm cells derived from pluripotent stem cells. <i>Scientific Reports</i> , 2020 , 10, 1190	4.9	19
50	Developmentally-Inspired Biomimetic Culture Models to Produce Functional Islet-Like Cells From Pluripotent Precursors. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 583970	5.8	4
49	Mapping cellular-scale internal mechanics in 3D tissues with thermally responsive hydrogel probes. <i>Nature Communications</i> , 2020 , 11, 4757	17.4	19
48	Mechanobiological regulation of placental trophoblast fusion and function through extracellular matrix rigidity. <i>Scientific Reports</i> , 2020 , 10, 5837	4.9	14
47	Microfluidic Shear Assay to Distinguish between Bacterial Adhesion and Attachment Strength on Stiffness-Tunable Silicone Substrates. <i>Langmuir</i> , 2019 , 35, 8840-8849	4	12
46	Dynamic Bioreactors with Integrated Microfabricated Devices for Mechanobiological Screening. <i>Tissue Engineering - Part C: Methods</i> , 2019 , 25, 581-592	2.9	5

45	Robust and Precise Wounding and Analysis of Engineered Contractile Tissues. <i>Tissue Engineering - Part C: Methods</i> , 2019 , 25, 677-686	2.9	7
44	Micropocket hydrogel devices for all-in-one formation, assembly, and analysis of aggregate-based tissues. <i>Biofabrication</i> , 2019 , 11, 045013	10.5	18
43	Morphodynamic Tissues via Integrated Programmable Shape Memory Actuators. <i>Advanced Functional Materials</i> , 2019 , 29, 1903327	15.6	3
42	Magnetic microboats for floating, stiffness tunable, air-liquid interface epithelial cultures. <i>Lab on A Chip</i> , 2019 , 19, 2786-2798	7.2	8
41	Functional Redundancy between α and β Integrin in Activating the IR/Akt/mTORC1 Signaling Axis to Promote ErbB2-Driven Breast Cancer. <i>Cell Reports</i> , 2019 , 29, 589-602.e6	10.6	17
40	Biomimetic Micropatterned Adhesive Surfaces To Mechanobiologically Regulate Placental Trophoblast Fusion. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47810-47821	9.5	7
39	Dispersible hydrogel force sensors reveal patterns of solid mechanical stress in multicellular spheroid cultures. <i>Nature Communications</i> , 2019 , 10, 144	17.4	52
38	Nanodarts, nanoblades, and nanospikes: Mechano-bactericidal nanostructures and where to find them. <i>Advances in Colloid and Interface Science</i> , 2018 , 252, 55-68	14.3	68
37	KIBRA (WWC1) Is a Metastasis Suppressor Gene Affected by Chromosome 5q Loss in Triple-Negative Breast Cancer. <i>Cell Reports</i> , 2018 , 22, 3191-3205	10.6	25
36	Building an experimental model of the human body with non-physiological parameters. <i>Technology</i> , 2017 , 5, 42-59	3	7
35	Thermal scribing to prototype plastic microfluidic devices, applied to study the formation of neutrophil extracellular traps. <i>Lab on A Chip</i> , 2017 , 17, 2003-2012	7.2	12
34	Dispersible oxygen microsensors map oxygen gradients in three-dimensional cell cultures. <i>Biomaterials Science</i> , 2017 , 5, 2106-2113	7.4	31
33	Microfluidics in microbiology: putting a magnifying glass on microbes. <i>Integrative Biology (United Kingdom)</i> , 2016 , 8, 914-917	3.7	7
32	Gotta catch 'em all: the microscale quest to understand cancer biology. <i>Integrative Biology (United Kingdom)</i> , 2016 , 8, 1203-1207	3.7	1
31	Stem cells: to be born great, achieve greatness, or have greatness thrust upon them?. <i>Integrative Biology (United Kingdom)</i> , 2016 , 8, 737-40	3.7	
30	Thinking big by thinking small: advances in mechanobiology across the length scales. <i>Integrative Biology (United Kingdom)</i> , 2016 , 8, 262-6	3.7	3
29	Supersoft lithography: candy-based fabrication of soft silicone microstructures. <i>Lab on A Chip</i> , 2015 , 15, 3760-5	7.2	28
28	The Discovery Channel: microfluidics and microengineered systems in drug screening. <i>Integrative Biology (United Kingdom)</i> , 2015 , 7, 285-8	3.7	5

27	Live long and prosper: the enterprise of understanding diseased epithelium. <i>Integrative Biology (United Kingdom)</i> , 2015 , 7, 494-7	3.7	
26	Micro, soft, windows: integrating super-resolution viewing capabilities into soft lithographic devices. <i>Integrative Biology (United Kingdom)</i> , 2015 , 7, 10-3	3.7	1
25	Surface-templated hydrogel patterns prompt matrix-dependent migration of breast cancer cells towards chemokine-secreting cells. <i>Acta Biomaterialia</i> , 2015 , 13, 68-77	10.8	14
24	Media additives to promote spheroid circularity and compactness in hanging drop platform. <i>Biomaterials Science</i> , 2015 , 3, 336-44	7.4	60
23	Making it stick: the role of structural design in implantable technologies. <i>Integrative Biology (United Kingdom)</i> , 2015 , 7, 1335-8	3.7	
22	Between a rock and a soft place: recent progress in understanding matrix mechanics. <i>Integrative Biology (United Kingdom)</i> , 2015 , 7, 736-9	3.7	1
21	Microscale 3D collagen cell culture assays in conventional flat-bottom 384-well plates. <i>Journal of the Association for Laboratory Automation</i> , 2015 , 20, 138-45		17
20	One-dimensional patterning of cells in silicone wells via compression-induced fracture. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1361-9	5.4	4
19	Defined topologically-complex protein matrices to manipulate cell shape via three-dimensional fiber-like patterns. <i>Lab on A Chip</i> , 2014 , 14, 2191-201	7.2	21
18	Fracture-based micro- and nanofabrication for biological applications. <i>Biomaterials Science</i> , 2014 , 2, 288-296	7.4	27
17	Fracture-based fabrication of normally closed, adjustable, and fully reversible microscale fluidic channels. <i>Small</i> , 2014 , 10, 4020-4029	11	25
16	On being the right size: scaling effects in designing a human-on-a-chip. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 1149-61	3.7	107
15	Aqueous two-phase printing of cell-containing contractile collagen microgels. <i>Biomaterials</i> , 2013 , 34, 9623-31	15.6	45
14	Microdevice array-based identification of distinct mechanobiological response profiles in layer-specific valve interstitial cells. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 673-80	3.7	40
13	Guided fracture of films on soft substrates to create micro/nano-feature arrays with controlled periodicity. <i>Scientific Reports</i> , 2013 , 3, 3027	4.9	48
12	Organs-on-a-chip: a focus on compartmentalized microdevices. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 1211-27	4.7	152
11	Single Cell Deposition. <i>Methods in Cell Biology</i> , 2012 , 112, 403-420	1.8	1
10	(Micro)managing the mechanical microenvironment. <i>Integrative Biology (United Kingdom)</i> , 2011 , 3, 959-71	3.7	62

9	Semi-confined compression of microfabricated polymerized biomaterial constructs. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 054014	2	12
8	Single cell deposition and patterning with a robotic system. <i>PLoS ONE</i> , 2010 , 5, e13542	3.7	49
7	A micromanipulation system for single cell deposition 2010 ,		4
6	Microfabricated arrays for high-throughput screening of cellular response to cyclic substrate deformation. <i>Lab on A Chip</i> , 2010 , 10, 227-34	7.2	116
5	Microfabricated platforms for mechanically dynamic cell culture. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	2
4	An Undergraduate Lab (on-a-Chip): Probing Single Cell Mechanics on a Microfluidic Platform. <i>Cellular and Molecular Bioengineering</i> , 2010 , 3, 319-330	3.9	6
3	A microfabricated platform for high-throughput unconfined compression of micropatterned biomaterial arrays. <i>Biomaterials</i> , 2010 , 31, 577-84	15.6	89
2	Integrating polyurethane culture substrates into poly(dimethylsiloxane) microdevices. <i>Biomaterials</i> , 2009 , 30, 5241-50	15.6	21
1	Mapping cellular-scale internal stiffness in 3D tissues with smart material hydrogel probes		1