

Christopher S O'bryan

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,179
citations

471371

17
h-index

610775

24
g-index

24
all docs

24
docs citations

24
times ranked

1541
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-assembled micro-organogels for 3D printing silicone structures. <i>Science Advances</i> , 2017, 3, e1602800.	4.7	195
2	Liquid-like Solids Support Cells in 3D. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1787-1795.	2.6	124
3	Repair of nuclear ruptures requires barrier-to-autointegration factor. <i>Journal of Cell Biology</i> , 2019, 218, 2136-2149.	2.3	121
4	Three-dimensional printing with sacrificial materials for soft matter manufacturing. <i>MRS Bulletin</i> , 2017, 42, 571-577.	1.7	108
5	Photoreversible Covalent Hydrogels for Soft-Matter Additive Manufacturing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16793-16801.	4.0	105
6	Quantitative characterization of 3D bioprinted structural elements under cell generated forces. <i>Nature Communications</i> , 2019, 10, 3029.	5.8	73
7	Anthracene-based mechanophores for compression-activated fluorescence in polymeric networks. <i>Chemical Science</i> , 2019, 10, 7702-7708.	3.7	53
8	Polymer Osmotic Pressure in Hydrogel Contact Mechanics. <i>Biotribology</i> , 2017, 11, 3-7.	0.9	50
9	Polyelectrolyte scaling laws for microgel yielding near jamming. <i>Soft Matter</i> , 2018, 14, 1559-1570.	1.2	42
10	Hierarchical self-assembly and emergent function of densely glycosylated peptide nanofibers. <i>Communications Chemistry</i> , 2019, 2, .	2.0	40
11	Friction-Induced Inflammation. <i>Tribology Letters</i> , 2018, 66, 1.	1.2	37
12	Commercially available microgels for 3D bioprinting. <i>Bioprinting</i> , 2018, 11, e00037.	2.9	36
13	Jammed Polyelectrolyte Microgels for 3D Cell Culture Applications: Rheological Behavior with Added Salts. <i>ACS Applied Bio Materials</i> , 2019, 2, 1509-1517.	2.3	35
14	Hydrogel compression and polymer osmotic pressure. <i>Biotribology</i> , 2020, 22, 100125.	0.9	29
15	In Situ Measurements of Contact Dynamics in Speed-dependent Hydrogel Friction. <i>Biotribology</i> , 2018, 13, 23-29.	0.9	26
16	Eliminating the surface location from soft matter contact mechanics measurements. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2017, 11, 187-192.	0.6	23
17	Mechanical Stabilization of the Glandular Acinus by Linker of Nucleoskeleton and Cytoskeleton Complex. <i>Current Biology</i> , 2019, 29, 2826-2839.e4.	1.8	23
18	Capillary forces drive buckling, plastic deformation, and break-up of 3D printed beams. <i>Soft Matter</i> , 2021, 17, 3886-3894.	1.2	18

#	ARTICLE	IF	CITATIONS
19	Spherically capped membrane probes for low contact pressure tribology. <i>Biotribology</i> , 2017, 11, 69-72.	0.9	16
20	3D aggregation of cells in packed microgel media. <i>Soft Matter</i> , 2020, 16, 6572-6581.	1.2	16
21	Low force, high noise: Isolating indentation forces through autocorrelation analysis. <i>Biotribology</i> , 2019, 20, 100110.	0.9	4
22	Electrochemically deposited molybdenum disulfide surfaces enable polymer adsorption studies using quartz crystal microbalance with dissipation monitoring (QCM-D). <i>Journal of Colloid and Interface Science</i> , 2022, 614, 522-531.	5.0	2
23	Mechanical Characterization of Glandular Acini Using a Micro-indentation Instrument. <i>Bio-protocol</i> , 2020, 10, e3847.	0.2	1