Eric C Freeman

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7760128/publications.pdf

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25	283	840776 11	940533 16
papers	citations	h-index	g-index

25	25	25	278
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Studying the Mechanics of Membrane Permeabilization through Mechanoelectricity. ACS Applied Materials & Interfaces, 2022, 14, 6120-6130.	8.0	3
2	Enhancing membrane-based soft materials with magnetic reconfiguration events. Scientific Reports, 2022, 12, 1703.	3.3	3
3	Droplet-Based Membranous Soft Materials. Langmuir, 2021, 37, 3231-3247.	3.5	12
4	Characterizing the Structure and Interactions of Model Lipid Membranes Using Electrophysiology. Membranes, 2021, 11, 319.	3.0	10
5	A skin-inspired soft material with directional mechanosensation. Bioinspiration and Biomimetics, 2021, 16, 046014.	2.9	5
6	Electrophysiological interrogation of asymmetric droplet interface bilayers reveals surface-bound alamethicin induces lipid flip-flop. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 335-343.	2.6	35
7	Photopolymerized microdomains in both lipid leaflets establish diffusive transport pathways across biomimetic membranes. Soft Matter, 2019, 15, 8718-8727.	2.7	6
8	A new approach for investigating the response of lipid membranes to electrocompression by coupling droplet mechanics and membrane biophysics. Journal of the Royal Society Interface, 2019, 16, 20190652.	3.4	22
9	Photo-Triggered Soft Materials With Differentiated Diffusive Pathways. , 2019, , .		1
10	Hydrogel Microelectrodes for the Rapid, Reliable, and Repeatable Characterization of Lipid Membranes. Langmuir, 2018, 34, 15166-15173.	3.5	7
11	Encapsulating Networks of Droplet Interface Bilayers in a Thermoreversible Organogel. Scientific Reports, 2018, 8, 6494.	3.3	19
12	Reconfiguring droplet interface bilayer networks through sacrificial membranes. Biomicrofluidics, 2018, 12, 034112.	2.4	9
13	A 3D printing method for droplet-based biomolecular materials. , 2017, , .		2
14	Mechanics of Droplet Interface Bilayer â€œUnzippingâ€•Defines the Bandwidth for the Mechanotransduction Response of Reconstituted MscL. Advanced Materials Interfaces, 2017, 4, 1600805.	3.7	16
15	Ferrofluid-Based Droplet Interface Bilayer Networks. Langmuir, 2017, 33, 13000-13007.	3.5	11
16	Ferrofluid Droplet Based Micro-Magnetic Sensors and Actuators. , 2017, , .		1
17	Chain Failure Events in Microfluidic Membrane Networks. , 2016, , .		1
18	Local retention of antibodies in vivo with an injectable film embedded with a fluorogen-activating protein. Journal of Controlled Release, 2016, 230, 1-12.	9.9	16

#	Article	IF	Citations
19	A comprehensive flexoelectric model for droplet interface bilayers acting as sensors and energy harvesters. Smart Materials and Structures, 2016, 25, 104007.	3.5	11
20	The Gating Mechanism of Mechanosensitive Channels in Droplet Interface Bilayers. Materials Research Society Symposia Proceedings, 2015, 1722, 32.	0.1	0
21	Multiscale modeling of droplet interface bilayer membrane networks. Biomicrofluidics, 2015, 9, 064101.	2.4	13
22	Multifunctional, Micropipette-based Method for Incorporation And Stimulation of Bacterial Mechanosensitive Ion Channels in Droplet Interface Bilayers. Journal of Visualized Experiments, 2015, , .	0.3	5
23	Activation of bacterial channel MscL in mechanically stimulated droplet interface bilayers. Scientific Reports, 2015, 5, 13726.	3.3	43
24	Sensitivity and directionality of lipid bilayer mechanotransduction studied using a revised, highly durable membrane-based hair cell sensor. Smart Materials and Structures, 2015, 24, 065014.	3.5	22
25	Deterministic model of biomolecular networks with stimuli-responsive properties. Journal of Intelligent Material Systems and Structures, 2015, 26, 921-930.	2.5	10