

# Eric C Freeman

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

283  
citations

840776

11  
h-index

940533

16  
g-index

25  
all docs

25  
docs citations

25  
times ranked

278  
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation of bacterial channel MscL in mechanically stimulated droplet interface bilayers. <i>Scientific Reports</i> , 2015, 5, 13726.	3.3	43
2	Electrophysiological interrogation of asymmetric droplet interface bilayers reveals surface-bound alamethicin induces lipid flip-flop. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 335-343.	2.6	35
3	Sensitivity and directionality of lipid bilayer mechanotransduction studied using a revised, highly durable membrane-based hair cell sensor. <i>Smart Materials and Structures</i> , 2015, 24, 065014.	3.5	22
4	A new approach for investigating the response of lipid membranes to electrocompression by coupling droplet mechanics and membrane biophysics. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190652.	3.4	22
5	Encapsulating Networks of Droplet Interface Bilayers in a Thermoreversible Organogel. <i>Scientific Reports</i> , 2018, 8, 6494.	3.3	19
6	Local retention of antibodies in vivo with an injectable film embedded with a fluorogen-activating protein. <i>Journal of Controlled Release</i> , 2016, 230, 1-12.	9.9	16
7	Mechanics of Droplet Interface Bilayer "Unzipping" Defines the Bandwidth for the Mechanotransduction Response of Reconstituted MscL. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600805.	3.7	16
8	Multiscale modeling of droplet interface bilayer membrane networks. <i>Biomicrofluidics</i> , 2015, 9, 064101.	2.4	13
9	Droplet-Based Membranous Soft Materials. <i>Langmuir</i> , 2021, 37, 3231-3247.	3.5	12
10	A comprehensive flexoelectric model for droplet interface bilayers acting as sensors and energy harvesters. <i>Smart Materials and Structures</i> , 2016, 25, 104007.	3.5	11
11	Ferrofluid-Based Droplet Interface Bilayer Networks. <i>Langmuir</i> , 2017, 33, 13000-13007.	3.5	11
12	Deterministic model of biomolecular networks with stimuli-responsive properties. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 921-930.	2.5	10
13	Characterizing the Structure and Interactions of Model Lipid Membranes Using Electrophysiology. <i>Membranes</i> , 2021, 11, 319.	3.0	10
14	Reconfiguring droplet interface bilayer networks through sacrificial membranes. <i>Biomicrofluidics</i> , 2018, 12, 034112.	2.4	9
15	Hydrogel Microelectrodes for the Rapid, Reliable, and Repeatable Characterization of Lipid Membranes. <i>Langmuir</i> , 2018, 34, 15166-15173.	3.5	7
16	Photopolymerized microdomains in both lipid leaflets establish diffusive transport pathways across biomimetic membranes. <i>Soft Matter</i> , 2019, 15, 8718-8727.	2.7	6
17	Multifunctional, Micropipette-based Method for Incorporation And Stimulation of Bacterial Mechanosensitive Ion Channels in Droplet Interface Bilayers. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	5
18	A skin-inspired soft material with directional mechanosensation. <i>Bioinspiration and Biomimetics</i> , 2021, 16, 046014.	2.9	5

#	ARTICLE	IF	CITATIONS
19	Studying the Mechanics of Membrane Permeabilization through Mechanoelectricity. ACS Applied Materials & Interfaces, 2022, 14, 6120-6130.	8.0	3
20	Enhancing membrane-based soft materials with magnetic reconfiguration events. Scientific Reports, 2022, 12, 1703.	3.3	3
21	A 3D printing method for droplet-based biomolecular materials. , 2017, , .		2
22	Chain Failure Events in Microfluidic Membrane Networks. , 2016, , .		1
23	Ferrofluid Droplet Based Micro-Magnetic Sensors and Actuators. , 2017, , .		1
24	Photo-Triggered Soft Materials With Differentiated Diffusive Pathways. , 2019, , .		1
25	The Gating Mechanism of Mechanosensitive Channels in Droplet Interface Bilayers. Materials Research Society Symposia Proceedings, 2015, 1722, 32.	0.1	0