

# Raya Sorkin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1919601/publications.pdf>

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22  
papers

1,100  
citations

516215

16  
h-index

676716

22  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1551  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electro-chemical and biological properties of carbon nanotube based multi-electrode arrays. <i>Nanotechnology</i> , 2007, 18, 035201.	1.3	202
2	Process entanglement as a neuronal anchorage mechanism to rough surfaces. <i>Nanotechnology</i> , 2009, 20, 015101.	1.3	97
3	Engineered neuronal circuits shaped and interfaced with carbon nanotube microelectrode arrays. <i>Biomedical Microdevices</i> , 2009, 11, 495-501.	1.4	91
4	Compact self-wiring in cultured neural networks. <i>Journal of Neural Engineering</i> , 2006, 3, 95-101.	1.8	83
5	The fluid membrane determines mechanics of erythrocyte extracellular vesicles and is softened in hereditary spherocytosis. <i>Nature Communications</i> , 2018, 9, 4960.	5.8	79
6	Hydration lubrication: exploring a new paradigm. <i>Faraday Discussions</i> , 2012, 156, 217.	1.6	78
7	Origins of extreme boundary lubrication by phosphatidylcholine liposomes. <i>Biomaterials</i> , 2013, 34, 5465-5475.	5.7	73
8	Evaluation of prefractionation methods as a preparatory step for multidimensional based chromatography of serum proteins. <i>Proteomics</i> , 2005, 5, 3367-3375.	1.3	63
9	Nanomechanics of Extracellular Vesicles Reveals Vesiculation Pathways. <i>Small</i> , 2018, 14, e1801650.	5.2	48
10	Hydration lubrication and shear-induced self-healing of lipid bilayer boundary lubricants in phosphatidylcholine dispersions. <i>Soft Matter</i> , 2016, 12, 2773-2784.	1.2	46
11	20S proteasomes secreted by the malaria parasite promote its growth. <i>Nature Communications</i> , 2021, 12, 1172.	5.8	45
12	Mechanical Stability and Lubrication by Phosphatidylcholine Boundary Layers in the Vesicular and in the Extended Lamellar Phases. <i>Langmuir</i> , 2014, 30, 5005-5014.	1.6	38
13	Supported Planar Mammalian Membranes as Models of in Vivo Cell Surface Architectures. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 35526-35538.	4.0	30
14	Probing cellular mechanics with acoustic force spectroscopy. <i>Molecular Biology of the Cell</i> , 2018, 29, 2005-2011.	0.9	27
15	Boundary lubrication by macromolecular layers and its relevance to synovial joints. <i>Polymers for Advanced Technologies</i> , 2014, 25, 468-477.	1.6	20
16	Live cell single molecule tracking and localization microscopy of bioorthogonally labeled plasma membrane proteins. <i>Nanoscale</i> , 2020, 12, 3236-3248.	2.8	18
17	Effect of Cholesterol on the Stability and Lubrication Efficiency of Phosphatidylcholine Surface Layers. <i>Langmuir</i> , 2017, 33, 7459-7467.	1.6	14
18	Synaptotagmin-1 and Doc2b Exhibit Distinct Membrane-Remodeling Mechanisms. <i>Biophysical Journal</i> , 2020, 118, 643-656.	0.2	13

#	ARTICLE	IF	CITATIONS
19	Kinetics of actin networks formation measured by time resolved particle-tracking microrheology. <i>Soft Matter</i> , 2020, 16, 7869-7876.	1.2	11
20	The effect of the serum corona on interactions between a single nano-object and a living cell. <i>Scientific Reports</i> , 2017, 7, 45758.	1.6	8
21	Forces of Change: Optical Tweezers in Membrane Remodeling Studies. <i>Journal of Membrane Biology</i> , 2022, 255, 677-690.	1.0	4
22	Evaluation of prefractionation methods as a preparatory step for multidimensional based chromatography of serum proteins. , 0, , 185-199.		1