

# Mohammad Abu Sayem Karal

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

737  
citations

566801

15  
h-index

552369

26  
g-index

28  
all docs

28  
docs citations

28  
times ranked

433  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretch-Activated Pore of the Antimicrobial Peptide, Magainin 2. <i>Langmuir</i> , 2015, 31, 3391-3401.	1.6	102
2	The single GUV method for revealing the functions of antimicrobial, pore-forming toxin, and cell-penetrating peptides or proteins. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15752-15767.	1.3	79
3	Mechanism of Initial Stage of Pore Formation Induced by Antimicrobial Peptide Magainin 2. <i>Langmuir</i> , 2018, 34, 3349-3362.	1.6	75
4	Experimental Estimation of Membrane Tension Induced by Osmotic Pressure. <i>Biophysical Journal</i> , 2016, 111, 2190-2201.	0.2	67
5	Effects of Lipid Composition on the Entry of Cell-Penetrating Peptide Oligoarginine into Single Vesicles. <i>Biochemistry</i> , 2016, 55, 4154-4165.	1.2	60
6	Electrostatic interaction effects on tension-induced pore formation in lipid membranes. <i>Physical Review E</i> , 2015, 92, 012708.	0.8	43
7	Communication: Activation energy of tension-induced pore formation in lipid membranes. <i>Journal of Chemical Physics</i> , 2015, 143, 081103.	1.2	43
8	Analysis of constant tension-induced rupture of lipid membranes using activation energy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13487-13495.	1.3	40
9	Effects of electrically-induced constant tension on giant unilamellar vesicles using irreversible electroporation. <i>European Biophysics Journal</i> , 2019, 48, 731-741.	1.2	28
10	Study of molecular transport through a single nanopore in the membrane of a giant unilamellar vesicle using COMSOL simulation. <i>European Biophysics Journal</i> , 2020, 49, 59-69.	1.2	22
11	Low cost non-electromechanical technique for the purification of giant unilamellar vesicles. <i>European Biophysics Journal</i> , 2019, 48, 349-359.	1.2	21
12	Electrostatic interaction effects on the size distribution of self-assembled giant unilamellar vesicles. <i>Physical Review E</i> , 2020, 101, 012404.	0.8	19
13	Deformation and poration of giant unilamellar vesicles induced by anionic nanoparticles. <i>Chemistry and Physics of Lipids</i> , 2020, 230, 104916.	1.5	18
14	A new six-electrode electrical impedance technique for probing deep organs in the human body. <i>European Biophysics Journal</i> , 2019, 48, 711-719.	1.2	17
15	Influence of cholesterol on electroporation in lipid membranes of giant vesicles. <i>European Biophysics Journal</i> , 2020, 49, 361-370.	1.2	16
16	Kinetics of irreversible pore formation under constant electrical tension in giant unilamellar vesicles. <i>European Biophysics Journal</i> , 2020, 49, 371-381.	1.2	14
17	Effects of cholesterol on the size distribution and bending modulus of lipid vesicles. <i>PLoS ONE</i> , 2022, 17, e0263119.	1.1	13
18	Effects of osmotic pressure on the irreversible electroporation in giant lipid vesicles. <i>PLoS ONE</i> , 2021, 16, e0251690.	1.1	12

#	ARTICLE	IF	CITATIONS
19	Electrostatic effects on the electrical tension-induced irreversible pore formation in giant unilamellar vesicles. <i>Chemistry and Physics of Lipids</i> , 2020, 231, 104935.	1.5	11
20	Recent developments in the kinetics of ruptures of giant vesicles under constant tension. <i>RSC Advances</i> , 2021, 11, 29598-29619.	1.7	9
21	Location of Peptide-Induced Submicron Discontinuities in the Membranes of Vesicles Using ImageJ. <i>Journal of Fluorescence</i> , 2020, 30, 735-740.	1.3	8
22	A new purification technique to obtain specific size distribution of giant lipid vesicles using dual filtration. <i>PLoS ONE</i> , 2021, 16, e0254930.	1.1	5
23	Quantification of pulsed electric field for the rupture of giant vesicles with various surface charges, cholesterol and osmotic pressures. <i>PLoS ONE</i> , 2022, 17, e0262555.	1.1	5
24	Analysis of purification of charged giant vesicles in a buffer using their size distribution. <i>European Physical Journal E</i> , 2021, 44, 62.	0.7	4
25	Effects of sugar concentration on the electroporation, size distribution and average size of charged giant unilamellar vesicles. <i>European Biophysics Journal</i> , 2022, 51, 401-412.	1.2	3
26	An investigation into the critical tension of electroporation in anionic lipid vesicles. <i>European Biophysics Journal</i> , 2021, 50, 99-106.	1.2	1
27	Development of an Irreversible Electroporation (IRE) Device for Vesicle Ablation. , 2020, , .		1
28	Effects of hydrocarbon chain on the vesicle size distribution, kinetics of average size, bending modulus, and elastic modulus of lipid membranes. <i>European Physical Journal E</i> , 2022, 45, .	0.7	1