

Robert M Raphael

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,328
citations

279798

23
h-index

315739

38
g-index

42
all docs

42
docs citations

42
times ranked

3456
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional tissue culture based on magnetic cell levitation. <i>Nature Nanotechnology</i> , 2010, 5, 291-296.	31.5	551
2	Regulated non-viral gene delivery from coaxial electrospun fiber mesh scaffolds. <i>Journal of Controlled Release</i> , 2010, 143, 95-103.	9.9	180
3	A Membrane Bending Model of Outer Hair Cell Electromotility. <i>Biophysical Journal</i> , 2000, 78, 2844-2862.	0.5	148
4	NSAID injury to the gastrointestinal tract: evidence that NSAIDs interact with phospholipids to weaken the hydrophobic surface barrier and induce the formation of unstable pores in membranes. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 58, 1421-1428.	2.4	126
5	Solution pH Alters Mechanical and Electrical Properties of Phosphatidylcholine Membranes: Relation between Interfacial Electrostatics, Intramembrane Potential, and Bending Elasticity. <i>Biophysical Journal</i> , 2007, 92, 2451-2462.	0.5	118
6	A spheroid toxicity assay using magnetic 3D bioprinting and real-time mobile device-based imaging. <i>Scientific Reports</i> , 2015, 5, 13987.	3.3	114
7	Assembly of a Three-Dimensional Multitype Bronchiole Coculture Model Using Magnetic Levitation. <i>Tissue Engineering - Part C: Methods</i> , 2013, 19, 665-675.	2.1	103
8	Tuning of the Outer Hair Cell Motor by Membrane Cholesterol. <i>Journal of Biological Chemistry</i> , 2007, 282, 36659-36670.	3.4	95
9	A three-dimensional co-culture model of the aortic valve using magnetic levitation. <i>Acta Biomaterialia</i> , 2014, 10, 173-182.	8.3	88
10	Effect of Salicylate on the Elasticity, Bending Stiffness, and Strength of SOPC Membranes. <i>Biophysical Journal</i> , 2005, 89, 1789-1801.	0.5	78
11	A high-throughput three-dimensional cell migration assay for toxicity screening with mobile device-based macroscopic image analysis. <i>Scientific Reports</i> , 2013, 3, 3000.	3.3	75
12	Interactions of Ibuprofen with Hybrid Lipid Bilayers Probed by Complementary Surface-Enhanced Vibrational Spectroscopies. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14168-14175.	2.6	70
13	The F-BAR protein CIP4 promotes GLUT4 endocytosis through bidirectional interactions with N-WASp and Dynamin-2. <i>Journal of Cell Science</i> , 2009, 122, 2283-2291.	2.0	57
14	Fabrication of Nonwoven Coaxial Fiber Meshes by Electrospinning. <i>Tissue Engineering - Part C: Methods</i> , 2009, 15, 333-344.	2.1	57
15	Peroxidation of polyunsaturated phosphatidyl-choline lipids during electroformation. <i>Biomaterials</i> , 2007, 28, 1298-1306.	11.4	44
16	Excess plasma membrane and effects of ionic amphipaths on mechanics of outer hair cell lateral wall. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 282, C1076-C1086.	4.6	42
17	Transverse and lateral mobility in outer hair cell lateral wall membranes. <i>Hearing Research</i> , 1999, 135, 19-28.	2.0	37
18	Assessment of prestin self-association using fluorescence resonance energy transfer. <i>Brain Research</i> , 2006, 1091, 140-150.	2.2	37

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19	Changes in Electroporation Thresholds of Lipid Membranes by Surfactants and Peptides. <i>Annals of the New York Academy of Sciences</i> , 1999, 888, 249-265.	3.8	30
20	Fractional occurrence of defects in membranes and mechanically driven interleaflet phospholipid transport. <i>Physical Review E</i> , 2001, 64, 051913.	2.1	30
21	Amphipath-Induced Nanoscale Changes in Outer Hair Cell Plasma Membrane Curvature. <i>Biophysical Journal</i> , 2009, 96, 510-520.	0.5	28
22	Generation of the Endocochlear Potential: A Biophysical Model. <i>Biophysical Journal</i> , 2008, 94, L64-L66.	0.5	26
23	The Effects of Gramicidin on Electroporation of Lipid Bilayers. <i>Biophysical Journal</i> , 1999, 76, 3150-3157.	0.5	25
24	Glycosylation Regulates Prestin Cellular Activity. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2010, 11, 39-51.	1.8	23
25	Biodegradable Branched Polycationic Polymers with Varying Hydrophilic Spacers for Nonviral Gene Delivery. <i>Biomacromolecules</i> , 2009, 10, 2436-2445.	5.4	20
26	Altering Amine Basicities in Biodegradable Branched Polycationic Polymers for Nonviral Gene Delivery. <i>Biomacromolecules</i> , 2010, 11, 600-609.	5.4	20
27	Lipid Lateral Mobility in Cochlear Outer Hair Cells: Regional Differences and Regulation by Cholesterol. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2009, 10, 383-396.	1.8	16
28	Application of fluorescence recovery after photobleaching to study prestin lateral mobility in the human embryonic kidney cell. <i>Journal of Biomedical Optics</i> , 2007, 12, 021003.	2.6	12
29	Application of fluorescence polarization microscopy to measure fluorophore orientation in the outer hair cell plasma membrane. <i>Journal of Biomedical Optics</i> , 2007, 12, 021002.	2.6	12
30	Computational model of vectorial potassium transport by cochlear marginal cells and vestibular dark cells. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C591-C602.	4.6	10
31	Cysteine Mutagenesis Reveals Transmembrane Residues Associated with Charge Translocation in Prestin. <i>Journal of Biological Chemistry</i> , 2010, 285, 3103-3113.	3.4	10
32	3D Ultrastructure of the Cochlear Outer Hair Cell Lateral Wall Revealed By Electron Tomography. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 560.	3.7	10
33	<sc>SDF</sc> stiffens myeloma bone marrow mesenchymal stromal cells through the activation of <sc>R</sc>A</sc> ROCK</sc>M</sc>yosin <sc>Il</sc>. <i>International Journal of Cancer</i> , 2015, 136, E219-29.	5.1	9
34	Diflunisal inhibits prestin by chloride-dependent mechanism. <i>PLoS ONE</i> , 2017, 12, e0183046.	2.5	8
35	Supporting Equity and Inclusion of Deaf and Hard-of-Hearing Individuals in Professional Organizations. <i>Frontiers in Education</i> , 2021, 6, .	2.1	7
36	Influence of Thermally Driven Surface Undulations on Tethers Formed from Bilayer Membranes. <i>Biophysical Journal</i> , 2006, 91, 619-625.	0.5	6

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37	Orientation of membrane probes in giant unilamellar vesicles. , 2005, , .		2
38	AN ORIENTATIONAL MOTOR MODEL OF OUTER HAIR CELL ELECTROMOTILITY. , 2000, , .		2
39	Selective cell-surface labeling of the molecular motor protein prestin. Biochemical and Biophysical Research Communications, 2011, 410, 134-139.	2.1	1
40	Outer hair cell electromechanics as a problem in soft matter physics: Prestin, the membrane and the cytoskeleton. Hearing Research, 2022, 423, 108426.	2.0	1
41	Early Education of the Deaf. Science, 1998, 279, 1611-1611.	12.6	0