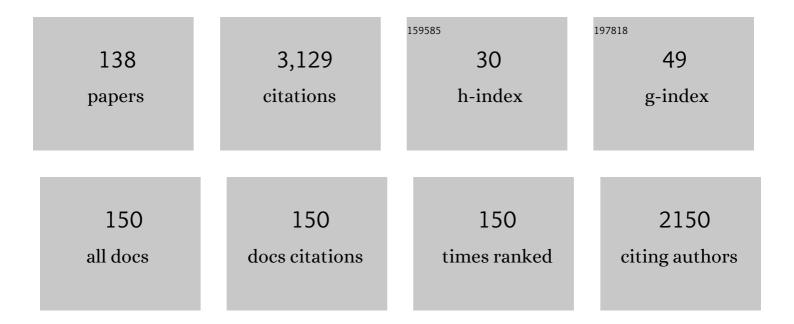
List of Publications by Year in descending order

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RHANIL D IENA

#	Article	IF	CITATIONS
1	Aquaporin 1 regulates GTP-induced rapid gating of water in secretory vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4720-4724.	7.1	147
2	SNAREs in Opposing Bilayers Interact in a Circular Array to Form Conducting Pores. Biophysical Journal, 2002, 83, 2522-2527.	0.5	114
3	Structure and Composition of the Fusion Pore. Biophysical Journal, 2003, 84, 1337-1343.	0.5	113
4	Structure and Dynamics of the Fusion Pores in Live GH-Secreting Cells Revealed Using Atomic Force Microscopy. Endocrinology, 2002, 143, 1144-1144.	2.8	111
5	Reconstituted Fusion Pore. Biophysical Journal, 2003, 85, 2035-2043.	0.5	109
6	STRUCTURE AND DYNAMICS OF THE FUSION PORE IN LIVE CELLS. Cell Biology International, 2002, 26, 35-42.	3.0	92
7	Calcium drives fusion of SNARE-apposed bilayers. Cell Biology International, 2004, 28, 19-31.	3.0	89
8	Structure, isolation, composition and reconstitution of the neuronal fusion pore. Cell Biology International, 2004, 28, 699-708.	3.0	89
9	Vesicle swelling regulates content expulsion during secretion. Cell Biology International, 2004, 28, 709-716.	3.0	80
10	Regulation of the water channel aquaporin-1: isolation and reconstitution of the regulatory complex. Cell Biology International, 2004, 28, 7-17.	3.0	75
11	RAPID ALDOSTERONE-INDUCED CELL VOLUME INCREASE OF ENDOTHELIAL CELLS MEASURED BY THE ATOMIC FORCE MICROSCOPE. Cell Biology International, 1997, 21, 759-768.	3.0	74
12	Involvement of Water Channels in Synaptic Vesicle Swelling. Experimental Biology and Medicine, 2005, 230, 674-680.	2.4	74
13	New Structure Involved in Transient Membrane Fusion and Exocytosis. Annals of the New York Academy of Sciences, 2002, 971, 254-256.	3.8	73
14	Size of Supramolecular SNARE Complex:Â Membrane-Directed Self-Assembly. Journal of the American Chemical Society, 2005, 127, 10156-10157.	13.7	73
15	Discovery of the Porosome: revealing the molecular mechanism of secretion and membrane fusion in cells. Journal of Cellular and Molecular Medicine, 2004, 8, 1-21.	3.6	64
16	Neuronal fusion pore assembly requires membrane cholesterol. Cell Biology International, 2007, 31, 1301-1308.	3.0	59
17	Energy-Dependent Disassembly of Self-Assembled SNARE Complex:Â Observation at Nanometer Resolution Using Atomic Force Microscopy. Journal of the American Chemical Society, 2006, 128, 26-27.	13.7	55
18	THE NUMBER OF SECRETORY VESICLES REMAINS UNCHANGED FOLLOWING EXOCYTOSIS. Cell Biology International, 2002, 26, 29-33.	3.0	42

#	Article	IF	CITATIONS
19	Molecular Machinery and Mechanism of Cell Secretion. Experimental Biology and Medicine, 2005, 230, 307-319.	2.4	42
20	Role of SNAREs in Membrane Fusion. Advances in Experimental Medicine and Biology, 2011, 713, 13-32.	1.6	41
21	Ca ²⁺ –dimethylphosphate complex formation: Providing insight into Ca ²⁺ â€mediated local dehydration and membrane fusion in cells. Cell Biology International, 2008, 32, 361-366.	3.0	40
22	Functionalized nanoparticles enable tracking the rapid entry and release of doxorubicin in human pancreatic cancer cells. Micron, 2017, 92, 25-31.	2.2	40
23	CXCR2 Macromolecular Complex in Pancreatic Cancer: A Potential Therapeutic Target in Tumor Growth. Translational Oncology, 2013, 6, 216-225.	3.7	39
24	Effect of tyrosine kinase inhibition on basal and epidermal growth factor-stimulated human Caco-2 enterocyte sheet migration and proliferation. Journal of Cellular Physiology, 1994, 160, 491-501.	4.1	36
25	Direct interaction between SNAP-23 and L-type Ca2+channel. Journal of Cellular and Molecular Medicine, 2005, 9, 380-386.	3.6	36
26	Secretion machinery at the cell plasma membrane. Current Opinion in Structural Biology, 2007, 17, 437-443.	5.7	36
27	Structure and Dynamics of the Fusion Pores in Live GH-Secreting Cells Revealed Using Atomic Force Microscopy. Endocrinology, 2002, 143, 1144-1144.	2.8	35
28	Nanothermometry Measure of Muscle Efficiency. Nano Letters, 2017, 17, 1262-1268.	9.1	34
29	Chapter 13 Nanoâ€6cale Imaging and Dynamics of Amylinâ€Membrane Interactions and Its Implication in Type Il Diabetes Mellitus. Methods in Cell Biology, 2008, 90, 267-286.	1.1	33
30	Porosome: The Secretory Portal in Cells. Biochemistry, 2009, 48, 4009-4018.	2.5	32
31	Neuronal porosome proteome: Molecular dynamics and architecture. Journal of Proteomics, 2012, 75, 3952-3962.	2.4	32
32	Involvement of vH ⁺ â€ATPase in synaptic vesicle swelling. Journal of Neuroscience Research, 2010, 88, 95-101.	2.9	31
33	Fusion pore or porosome: structure and dynamics. Journal of Endocrinology, 2003, 176, 169-174.	2.6	30
34	COPII-Dependent ER Export: A Critical Component of Insulin Biogenesis and β-Cell ER Homeostasis. Molecular Endocrinology, 2015, 29, 1156-1169.	3.7	30
35	Ca ²⁺ Bridging of Apposed Phospholipid Bilayers. Journal of Physical Chemistry B, 2010, 114, 13249-13254.	2.6	29
36	Membraneâ€directed molecular assembly of the neuronal SNARE complex. Journal of Cellular and Molecular Medicine, 2011, 15, 31-37.	3.6	29

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37	Patch clamped single pancreatic zymogen granules: Direct measurements of ion channel activities at the granule membrane. Pancreatology, 2005, 5, 443-449.	1.1	28
38	Nanoscale imaging using differential expansion microscopy. Histochemistry and Cell Biology, 2020, 153, 469-480.	1.7	28
39	THE NATIVE MEMBRANE FUSION MACHINERY IN CELLS. Cell Biology International, 1998, 22, 657-670.	3.0	27
40	Circular dichroism (CD) spectroscopy of the assembly and disassembly of SNAREs: The proteins involved in membrane fusion in cells. Chemical Physics Letters, 2008, 462, 6-9.	2.6	27
41	Structure of membraneâ€associated neuronal SNARE complex: implication in neurotransmitter release. Journal of Cellular and Molecular Medicine, 2009, 13, 4161-4165.	3.6	27
42	Impaired Hepatocyte Glucose Transport Protein (GLUT2) Internalization in Chronic Pancreatitis. Pancreas, 2001, 22, 172-178.	1.1	26
43	Porosome in astrocytes. Journal of Cellular and Molecular Medicine, 2009, 13, 365-372.	3.6	26
44	Membrane Lipids Influence Protein Complex Assemblyâ^'Disassembly. Journal of the American Chemical Society, 2010, 132, 5596-5597.	13.7	26
45	X-ray solution structure of the native neuronal porosome-synaptic vesicle complex: Implication in neurotransmitter release. Micron, 2014, 56, 37-43.	2.2	26
46	Exosome-enriched fractions from MS B cells induce oligodendrocyte death. Neurology: Neuroimmunology and NeuroInflammation, 2019, 6, e550.	6.0	26
47	Membrane Fusion: Role of SNAREs and Calcium. Protein and Peptide Letters, 2009, 16, 712-717.	0.9	23
48	3D organization and function of the cell: Golgi budding and vesicle biogenesis to docking at the porosome complex. Histochemistry and Cell Biology, 2012, 137, 703-718.	1.7	23
49	Chaperone coâ€inducer BGPâ€15 mitigates early contractile dysfunction of the soleus muscle in a rat ICU model. Acta Physiologica, 2020, 229, e13425.	3.8	23
50	Cell secretion machinery: Studies using the AFM. Ultramicroscopy, 2006, 106, 663-669.	1.9	22
51	Cholesterol is critical to the integrity of neuronal porosome/fusion pore. Ultramicroscopy, 2006, 106, 674-677.	1.9	22
52	Atomic force microscopy: High resolution dynamic imaging of cellular and molecular structure in health and disease. Journal of Cellular Physiology, 2013, 228, 1949-1955.	4.1	21
53	N-ethylmaleimide-Sensitive Factor is a Right-Handed Molecular Motor. Journal of Biomedical Nanotechnology, 2007, 3, 209-211.	1.1	21
54	GÂi3in Pancreatic Zymogen Granules Participates in Vesicular Fusion. Journal of Biochemistry, 2002, 131, 815-820.	1.7	19

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55	The Atomic Force Microscope in the Study of Membrane Fusion and Exocytosis. Methods in Cell Biology, 2002, 68, 33-50.	1.1	19
56	Involvement of cholesterol in synaptic vesicle swelling. Experimental Biology and Medicine, 2010, 235, 470-477.	2.4	19
57	Conformation states of the neuronal porosome complex. Cell Biology International, 2010, 34, 1129-1132.	3.0	18
58	Proteome of the porosome complex in human airway epithelia: Interaction with the cystic fibrosis transmembrane conductance regulator (CFTR). Journal of Proteomics, 2014, 96, 82-91.	2.4	18
59	â€~Porosome' discovered nearly 20Âyears ago provides molecular insights into the kissâ€andâ€run mechanis of cell secretion. Journal of Cellular and Molecular Medicine, 2015, 19, 1427-1440.	ⁿ 3.6	18
60	Secretory vesicles in live cells are not free-floating but tethered to filamentous structures: A study using photonic force microscopy. Ultramicroscopy, 2006, 106, 670-673.	1.9	17
61	Functional Organization of the Porosome Complex and Associated Structures Facilitating Cellular Secretion. Physiology, 2009, 24, 367-376.	3.1	17
62	Aquaporin-assisted and ER-mediated mitochondrial fission: A hypothesis. Micron, 2013, 47, 50-58.	2.2	17
63	Unique Lipid Chemistry of Synaptic Vesicle and Synaptosome Membrane Revealed Using Mass Spectrometry. ACS Chemical Neuroscience, 2017, 8, 1163-1169.	3.5	17
64	Involvement of Î ² -adrenergic receptor in synaptic vesicle swelling and implication in neurotransmitter release. Journal of Cellular and Molecular Medicine, 2011, 15, 572-576.	3.6	15
65	Neuronal porosome lipidome. Journal of Cellular and Molecular Medicine, 2014, 18, 1927-1937.	3.6	15
66	LOCALIZATION OF SH-PTP1 TO SYNAPTIC VESICLES: A POSSIBLE ROLE IN NEUROTRANSMISSION. Cell Biology International, 1997, 21, 469-476.	3.0	14
67	Proteome of the insulin-secreting Min6 cell porosome complex: Involvement of Hsp90 in its assembly and function. Journal of Proteomics, 2015, 114, 83-92.	2.4	14
68	Regulation of hepatic circadian metabolism by the E3 ubiquitin ligase HRD1-controlled CREBH/PPARα transcriptional program. Molecular Metabolism, 2021, 49, 101192.	6.5	14
69	Secretory vesicles transiently dock and fuse at the porosome to discharge contents during cell secretion. Cell Biology International, 2010, 34, 3-12.	3.0	14
70	Cell secretion and membrane fusion. Domestic Animal Endocrinology, 2005, 29, 145-165.	1.6	13
71	Nanoscale 3D contour map of protein assembly within the astrocyte porosome complex. Cell Biology International, 2009, 33, 224-229.	3.0	13
72	Matriptase activation and shedding through PDGF-D-mediated extracellular acidosis. American Journal of Physiology - Cell Physiology, 2016, 310, C293-C304.	4.6	13

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73	Functional Reconstitution of the Insulin-Secreting Porosome Complex in Live Cells. Endocrinology, 2016, 157, 54-60.	2.8	12
74	Exosomes in Epilepsy of Tuberous Sclerosis Complex: Carriers of Pro-Inflammatory MicroRNAs. Non-coding RNA, 2021, 7, 40.	2.6	12
75	ATOMIC FORCE MICROSCOPE: PROVIDING NEW INSIGHTS ON THE STRUCTURE AND FUNCTION OF LIVING CELLS. Cell Biology International, 1997, 21, 683-684.	3.0	11
76	Nanothermometry Reveals Calcium-Induced Remodeling of Myosin. Nano Letters, 2018, 18, 7021-7029.	9.1	10
77	Porosome: the universal molecular machinery for cell secretion. Molecules and Cells, 2008, 26, 517-29.	2.6	10
78	Pertussis toxin-mediated adp-ribosylation of rabbit luteal Gi uncouples enkephalin inhibition of adenylyl cyclase. International Journal of Biochemistry & Cell Biology, 1990, 22, 31-37.	0.5	9
79	BINDING CONTRIBUTION BETWEEN SYNAPTIC VESICLE MEMBRANE AND PLASMA MEMBRANE PROTEINS IN NEURONS: AN AFM STUDY. Cell Biology International, 1998, 22, 649-655.	3.0	9
80	Tribute to Professor Bhanu P. Jena. Journal of Cellular and Molecular Medicine, 2006, 10, 270-270.	3.6	9
81	Human skeletal muscle cell atlas: Unraveling cellular secrets utilizing â€~muscle-on-a-chip', differential expansion microscopy, mass spectrometry, nanothermometry and machine learning. Micron, 2019, 117, 55-59.	2.2	9
82	Fusion Pore in Live Cells. Physiology, 2002, 17, 219-222.	3.1	9
83	Evidence for a rabbit luteal ADP-ribosyltransferase activity which appears to be capable of activating adenylyl cyclase. International Journal of Biochemistry & Cell Biology, 1991, 23, 549-559.	0.5	8
84	Chapter 2 Intracellular Organelle Dynamics at nm Resolution. Methods in Cell Biology, 2008, 90, 19-37.	1.1	8
85	Water channels in platelet volume regulation. Journal of Cellular and Molecular Medicine, 2012, 16, 945-949.	3.6	8
86	Porosome: the universal secretory portal in cells. Biomedical Reviews, 2014, 21, 1.	0.6	8
87	Porosome: the secretory portal. Experimental Biology and Medicine, 2012, 237, 748-757.	2.4	6
88	Lysophosphatidylcholine inhibits membraneâ€associated SNARE complex disassembly. Journal of Cellular and Molecular Medicine, 2012, 16, 1701-1708.	3.6	6
89	Porosome: The Secretory NanoMachine in Cells. Methods in Molecular Biology, 2012, 931, 345-365.	0.9	6
90	Neuronal porosome – The secretory portal at the nerve terminal: Its structure–function, composition, and reconstitution. Journal of Molecular Structure, 2014, 1073, 187-195.	3.6	6

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91	Gd-Doped Superparamagnetic Magnetite Nanoparticles for Potential Cancer Theranostics. , 0, , .		6
92	Atomic Force Microscopy in the Study of Macromolecular Interactions in Hemostasis and Thrombosis: Utility for Investigation of the Antiphospholipid Syndrome. , 0, , 267-286.		5
93	Chapter 9 Understanding Membrane Fusion. Methods in Cell Biology, 2008, 90, 183-198.	1.1	5
94	Nanometric features of myosin filaments extracted from a single muscle fiber to uncover the mechanisms underlying organized motility. Archives of Biochemistry and Biophysics, 2015, 583, 1-8.	3.0	5
95	The neuronal porosome complex in health and disease. Experimental Biology and Medicine, 2016, 241, 115-130.	2.4	5
96	High-Speed Atomic Force Microscopy of Biomolecules in Motion. , 0, , 221-247.		4
97	Human Platelet Vesicles Exhibit Distinct Size and Proteome. Journal of Proteome Research, 2017, 16, 2333-2338.	3.7	4
98	Valproate inhibits glucose-stimulated insulin secretion in beta cells. Histochemistry and Cell Biology, 2018, 150, 395-401.	1.7	4
99	INSIGHTS ON MEMBRANE FUSION. Cell Biology International, 2000, 24, 769-771.	3.0	3
100	Molecular architecture of mouse and human pancreatic zymogen granules: protein components and their copy numbers. Biophysics Reports, 2018, 4, 94-103.	0.8	3
101	Secretion induces cell pH dynamics impacting assembly-disassembly of the fusion protein complex: A combined fluorescence and atomic force microscopy study. Seminars in Cell and Developmental Biology, 2018, 73, 57-63.	5.0	3
102	Self-Assembly and Biogenesis of the Cellular Membrane are Dictated by Membrane Stretch and Composition. Journal of Physical Chemistry B, 2019, 123, 6997-7005.	2.6	3
103	Human Skeletal Muscle Cells on Engineered 3D Platform Express Key Growth and Developmental Proteins. ACS Biomaterials Science and Engineering, 2019, 5, 970-976.	5.2	3
104	Res-CR-Net, a residual network with a novel architecture optimized for the semantic segmentation of microscopy images. Machine Learning: Science and Technology, 2020, 1, 045004.	5.0	3
105	Cellular Interactions of Nano Drug Delivery Systems. , 0, , 113-136.		2
106	Chapter 8 Assembly and Disassembly of SNAREs in Membrane Fusion. Methods in Cell Biology, 2008, 90, 157-182.	1.1	2
107	Atomic force microscopy: Unraveling the fundamental principles governing secretion and membrane fusion in cells. Ultramicroscopy, 2009, 109, 1094-1104.	1.9	2
108	Myosin: Cellular Molecular Motor. , 2020, , 79-89.		2

Myosin: Cellular Molecular Motor. , 2020, , 79-89. 108

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109	Porosome in Cystic Fibrosis. Discoveries, 2014, 2, e24.	2.3	2
110	Introduction to use of atomic force microscopy and optical tweezers in biology. Microscopy Research and Technique, 1999, 44, 311-311.	2.2	1
111	Addendum to "Regulation of the water channel aquaporin-1: isolation and reconstitution of the regulatory complex―[Cell Biol. Int. 28(1) (2004) 7–17]1. Cell Biology International, 2004, 28, 421.	3.0	1
112	Properties of Microbial Cell Surfaces Examined by Atomic Force Microscopy. , 0, , 69-93.		1
113	Scanning Probe Microscopy of Plant Cell Wall and Its Constituents. , 0, , 95-112.		1
114	Adapting AFM Techniques for Studies on Living Cells. , 0, , 137-158.		1
115	Preface. Methods in Cell Biology, 2008, 90, xvii-xix.	1.1	1
116	Aquaporin regulation: Lessons from secretory vesicles. Vitamins and Hormones, 2020, 112, 147-162.	1.7	1
117	vH+-ATPase-induced intracellular acidification is critical to glucose-stimulated insulin secretion in beta cells. Histochemistry and Cell Biology, 2020, 153, 279-285.	1.7	1
118	Porosome. Methods in Molecular Biology, 2006, 319, 295-316.	0.9	1
119	Cellular Nanomachines. , 2020, , .		1
120	The optimized quantum dot mediated thermometry reveals isoform specific differences in efficiency of myosin extracted from muscle mini bundles. Archives of Biochemistry and Biophysics, 2022, 722, 109212.	3.0	1
121	Mechanisms of Avidity Modulation in Leukocyte Adhesion Studied by AFM. , O, , 169-180.		0
122	Resolving the Thickness and Micromechanical Properties of Lipid Bilayers and Vesicles Using AFM. , 0, , 181-200.		0
123	Imaging Soft Surfaces by SFM. , 0, , 201-219.		0
124	Atomic Force Microscopy in Cytogenetics. , 0, , 249-266.		0
125	Intermolecular Forces of Leukocyte Adhesion Molecules. , 0, , 159-168.		0
126	Chapter 1 Extracellular Dynamics at nm Resolution in Live Cells. Methods in Cell Biology, 2008, 90, 1-18.	1.1	0

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127	Understanding Cell Secretion and Membrane Fusion Processes on the Nanoscale Using the Atomic Force Microscope. , 2011, , 99-115.		0
128	Unraveling the Membrane Fusion in Secretory Cells at the NM-Level: A Nanobioengineering Approach. , 2012, , 27-43.		0
129	Porosomes—The Universal Secretory Portals in Cells. , 2014, , 1-16.		0
130	Mechanism of Membrane Biogenesis. FASEB Journal, 2018, 32, 671.11.	0.5	0
131	Valproate Prevents a Cytosolic vH + ATPase Subunit Insertion on Insulin Granule Membrane and Compromises Insulin Release in Min6 Cells. FASEB Journal, 2018, 32, lb191.	0.5	0
132	Human Skeletal Muscleâ€onâ€aâ€Chip. FASEB Journal, 2019, 33, lb645.	0.5	0
133	Sodium Acrylateâ€Induced Differential Expansion of Cellular Organelles. FASEB Journal, 2019, 33, 610.12.	0.5	0
134	Porosome: Cells Secretory Nanomachine. , 2020, , 1-39.		0
135	Assembly of Cellular Nanomachines. , 2020, , 91-104.		0
136	Chaperonin: Protein Folding Machinery in Cells. , 2020, , 49-56.		0
137	Porosomes: Supramolecular Structures at the Synaptosome Membrane Involved in Vesicle Docking, Fusion, and Neurotransmitter Release. Neuromethods, 2018, , 209-225.	0.3	0
138	The Optimized Quantum Dots Mediated Thermometry Reveals the Efficiency of Myosin Extracted from Muscle Mini Bundles. FASEB Journal, 2022, 36, .	0.5	0