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List of Publications by Year in descending order

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201674

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docs citations

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times ranked

3552
citing authors

#	ARTICLE	IF	CITATIONS
1	Naturally Occurring Human Glutathione S-transferase GSTP1 Isoforms with Isoleucine and Valine in Position 104 Differ in Enzymic Properties. <i>FEBS Journal</i> , 1994, 224, 893-899.	0.2	389
2	The roles of annexins and alkaline phosphatase in mineralization process.. <i>Acta Biochimica Polonica</i> , 2003, 50, 1019-1038.	0.5	168
3	Novel Function of Human RLIP76: ATP-Dependent Transport of Glutathione Conjugates and Doxorubicin. <i>Biochemistry</i> , 2000, 39, 9327-9334.	2.5	163
4	Matrix vesicles from chondrocytes and osteoblasts: Their biogenesis, properties, functions and biomimetic models. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 532-546.	2.4	131
5	Peroxidase activity of annexin 1 from <i>Arabidopsis thaliana</i> . <i>Biochemical and Biophysical Research Communications</i> , 2005, 336, 868-875.	2.1	115
6	Inorganic pyrophosphate as a regulator of hydroxyapatite or calcium pyrophosphate dihydrate mineral deposition by matrix vesicles. <i>Osteoarthritis and Cartilage</i> , 2009, 17, 64-72.	1.3	108
7	A comparison of replicative senescence and doxorubicin-induced premature senescence of vascular smooth muscle cells isolated from human aorta. <i>Biogerontology</i> , 2014, 15, 47-64.	3.9	105
8	Proteomic characterization of biogenesis and functions of matrix vesicles released from mineralizing human osteoblast-like cells. <i>Journal of Proteomics</i> , 2011, 74, 1123-1134.	2.4	97
9	Matrix vesicles originate from apical membrane microvilli of mineralizing osteoblast-like Saos-2 cells. <i>Journal of Cellular Biochemistry</i> , 2009, 106, 127-138.	2.6	88
10	Proteome analysis of matrix vesicles isolated from femurs of chicken embryo. <i>Proteomics</i> , 2008, 8, 192-205.	2.2	85
11	Potential Role of Annexin AnnAt1 from <i>Arabidopsis thaliana</i> in pH-Mediated Cellular Response to Environmental Stimuli. <i>Plant and Cell Physiology</i> , 2007, 48, 792-803.	3.1	72
12	Phospholipases of Mineralization Competent Cells and Matrix Vesicles: Roles in Physiological and Pathological Mineralizations. <i>International Journal of Molecular Sciences</i> , 2013, 14, 5036-5129.	4.1	55
13	Phosphodiesterase Activity of Alkaline Phosphatase in ATP-initiated Ca ²⁺ and Phosphate Deposition in Isolated Chicken Matrix Vesicles. <i>Journal of Biological Chemistry</i> , 2005, 280, 37289-37296.	3.4	54
14	ATP-Dependent Human Erythrocyte Glutathione-Conjugate Transporter. II. Functional Reconstitution of Transport Activity. <i>Biochemistry</i> , 1998, 37, 5239-5248.	2.5	51
15	ATP-Dependent Human Erythrocyte Glutathione-Conjugate Transporter. I. Purification, Photoaffinity Labeling, and Kinetic Characteristics of ATPase Activity. <i>Biochemistry</i> , 1998, 37, 5231-5238.	2.5	47
16	Acidic pH-induced folding of annexin VI is a prerequisite for its insertion into lipid bilayers and formation of ion channels by the protein molecules. <i>FASEB Journal</i> , 2001, 15, 1083-1085.	0.5	47
17	Functions of Rho family of small GTPases and Rho-associated coiled-coil kinases in bone cells during differentiation and mineralization. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1009-1023.	2.4	47
18	Annexin-A6 presents two modes of association with phospholipid membranes. A combined QCM-D, AFM and cryo-TEM study. <i>Journal of Structural Biology</i> , 2009, 168, 107-116.	2.8	44

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19	Conformational states of annexin VI in solution induced by acidic pH. <i>FEBS Letters</i> , 2001, 496, 49-54.	2.8	40
20	TNAP stimulates vascular smooth muscle cell trans-differentiation into chondrocytes through calcium deposition and BMP-2 activation: Possible implication in atherosclerotic plaque stability. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 643-653.	3.8	38
21	Do annexins participate in lipid messenger mediated intracellular signaling? A question revisited. <i>Molecular Membrane Biology</i> , 2012, 29, 229-242.	2.0	36
22	Biochemical characterization and expression analysis of a novel EF-hand Ca ²⁺ binding protein calmyrin2 (Cib2) in brain indicates its function in NMDA receptor mediated Ca ²⁺ signaling. <i>Archives of Biochemistry and Biophysics</i> , 2009, 487, 66-78.	3.0	33
23	TNAP as a therapeutic target for cardiovascular calcification: a discussion of its pleiotropic functions in the body. <i>Cardiovascular Research</i> , 2022, 118, 84-96.	3.8	33
24	Annexins IV (p32) and VI (p68) interact with erythrocyte membrane in a calcium-dependent manner. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992, 1105, 201-206.	2.6	31
25	A comparative analysis of strategies for isolation of matrix vesicles. <i>Analytical Biochemistry</i> , 2007, 361, 176-182.	2.4	31
26	Annexins as nucleotide-binding proteins: Facts and speculations. <i>BioEssays</i> , 2001, 23, 170-178.	2.5	28
27	GTP-Induced Membrane Binding and Ion Channel Activity of Annexin VI: Is Annexin VI a GTP Biosensor?. <i>Biophysical Journal</i> , 2002, 82, 2737-2745.	0.5	28
28	Matrix vesicles isolated from mineralization-competent Saos-2 cells are selectively enriched with annexins and S100 proteins. <i>Biochemical and Biophysical Research Communications</i> , 2011, 412, 683-687.	2.1	28
29	Temperature dependence of ligand-protein complex formation as reflected by saturation transfer difference NMR experiments. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, 745-748.	1.9	27
30	Interaction of annexin A6 with cholesterol rich membranes is pH-dependent and mediated by the sterol OH. <i>Journal of Colloid and Interface Science</i> , 2010, 346, 436-441.	9.4	25
31	Cholesterol as a factor regulating intracellular localization of annexin A6 in Niemann-Pick type C human skin fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , 2010, 493, 221-233.	3.0	25
32	Quantitative atomic force microscopy provides new insight into matrix vesicle mineralization. <i>Archives of Biochemistry and Biophysics</i> , 2019, 667, 14-21.	3.0	25
33	A Putative Consensus Sequence for the Nucleotide-Binding Site of Annexin A6. <i>Biochemistry</i> , 2003, 42, 9137-9146.	2.5	24
34	Downregulation of PMCA2 or PMCA3 reorganizes Ca ²⁺ handling systems in differentiating PC12 cells. <i>Cell Calcium</i> , 2012, 52, 433-444.	2.4	24
35	Annexins as organizers of cholesterol- and sphingomyelin-enriched membrane microdomains in Niemann-Pick type C disease. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 1773-1785.	5.4	23
36	Isolation and Characteristics of Matrix Vesicles. <i>Methods in Molecular Biology</i> , 2013, 1053, 115-124.	0.9	23

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37	Characteristics of minerals in vesicles produced by human osteoblasts hFOB 1.19 and osteosarcoma Saos-2 cells stimulated for mineralization. <i>Journal of Inorganic Biochemistry</i> , 2017, 171, 100-107.	3.5	22
38	Fluorescence Spectroscopic Studies on Interactions between Liver Annexin VI and Nucleotides. A Possible Role for a Tryptophan Residue. <i>FEBS Journal</i> , 1997, 248, 238-244.	0.2	21
39	Structure of Human Annexin A6 at the Air-Water Interface and in a Membrane-Bound State. <i>Biophysical Journal</i> , 2004, 87, 1215-1226.	0.5	21
40	Ankylosing Spondylitis, Late Osteoarthritis, Vascular Calcification, Chondrocalcinosis and Pseudo Gout: Toward a Possible Drug Therapy. <i>Current Medicinal Chemistry</i> , 2011, 18, 2196-2203.	2.4	21
41	Effects of Mutagenesis of W343 in Human Annexin A6 Isoform 1 on Its Interaction with GTP: Nucleotide-Induced Oligomer Formation and Ion Channel Activity. <i>Biochemistry</i> , 2006, 45, 4965-4973.	2.5	20
42	Role of annexin A6 isoforms in catecholamine secretion by PC12 cells: Distinct influence on calcium response. <i>Journal of Cellular Biochemistry</i> , 2010, 111, 168-178.	2.6	20
43	Impaired dynamics of the late endosome/lysosome compartment in human Niemann-Pick type C skin fibroblasts carrying mutation in NPC1 gene. <i>Molecular BioSystems</i> , 2012, 8, 1197.	2.9	20
44	Localization of Annexin A6 in Matrix Vesicles During Physiological Mineralization. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1367.	4.1	20
45	A Glutathione S-transferases Isozyme (bGST 5.8) Involved in the Metabolism of 4-Hydroxy-2-trans-nonenal is Localized in Bovine Lens Epithelium. <i>Experimental Eye Research</i> , 1996, 63, 329-337.	2.6	19
46	ATP-Binding Site of Annexin VI Characterized by Photochemical Release of Nucleotide and Infrared Difference Spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 1999, 263, 775-779.	2.1	19
47	Calcium- and pH-dependent localization of annexin A6 isoforms in Balb/3T3 fibroblasts reflecting their potential participation in vesicular transport. <i>Journal of Cellular Biochemistry</i> , 2008, 104, 418-434.	2.6	19
48	N- and C-Terminal Halves of Human Annexin VI Differ in Ability to Form Low pH-Induced Ion Channels. <i>Biochemical and Biophysical Research Communications</i> , 2001, 284, 785-791.	2.1	18
49	Annexin A6 is recruited into lipid rafts of Niemann-Pick type C disease fibroblasts in a Ca ²⁺ -dependent manner. <i>Biochemical and Biophysical Research Communications</i> , 2011, 405, 192-196.	2.1	17
50	Interaction of plasma membrane Ca ²⁺ -ATPase isoform 4 with calcineurin A: Implications for catecholamine secretion by PC12 cells. <i>Biochemical and Biophysical Research Communications</i> , 2011, 411, 235-240.	2.1	16
51	Collagen promotes matrix vesicle-mediated mineralization by vascular smooth muscle cells. <i>Journal of Inorganic Biochemistry</i> , 2018, 186, 1-9.	3.5	16
52	Whole-body clearing, staining and screening of calcium deposits in the mdx mouse model of Duchenne muscular dystrophy. <i>Skeletal Muscle</i> , 2018, 8, 21.	4.2	16
53	Mechanisms for xenobiotic transport in biological membranes. <i>Toxicology Letters</i> , 1999, 106, 107-118.	0.8	15
54	Direct Determination of Phosphatase Activity from Physiological Substrates in Cells. <i>PLoS ONE</i> , 2015, 10, e0120087.	2.5	15

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55	Structural and functional characterization of annexin 1 from <i>Medicago truncatula</i> . <i>Plant Physiology and Biochemistry</i> , 2013, 73, 56-62.	5.8	14
56	Neutralization of cholera toxin by Rosaceae family plant extracts. <i>BMC Complementary and Alternative Medicine</i> , 2019, 19, 140.	3.7	13
57	Effect of calcium on the interactions between Ca ²⁺ -ATPase molecules in sarcoplasmic reticulum. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989, 984, 326-338.	2.6	12
58	Phosphorylation-dependent phospholipase D activity of matrix vesicles. <i>FEBS Letters</i> , 2006, 580, 5676-5680.	2.8	12
59	Annexins A2, A6 and Fetuin-A Affect the Process of Mineralization in Vesicles Derived from Human Osteoblastic hFOB 1.19 and Osteosarcoma Saos-2 Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3993.	4.1	12
60	Tryptophan phosphorescence of the Ca ²⁺ -ATPase of sarcoplasmic reticulum. <i>BBA - Proteins and Proteomics</i> , 1988, 957, 230-236.	2.1	11
61	Gene expression pattern in PC12 cells with reduced PMCA2 or PMCA3 isoform: selective up-regulation of calmodulin and neuromodulin. <i>Molecular and Cellular Biochemistry</i> , 2012, 360, 89-102.	3.1	11
62	Calcineurin/NFAT Signaling Represses Genes Vamp1 and Vamp2 via PMCA-Dependent Mechanism during Dopamine Secretion by Pheochromocytoma Cells. <i>PLoS ONE</i> , 2014, 9, e92176.	2.5	11
63	NFAT1 and NFAT3 Cooperate with HDAC4 during Regulation of Alternative Splicing of PMCA Isoforms in PC12 Cells. <i>PLoS ONE</i> , 2014, 9, e99118.	2.5	11
64	Active creatine kinase is present in matrix vesicles isolated from femurs of chicken embryo: Implications for bone mineralization. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 1432-1436.	2.1	10
65	Direct determination of phospholipase D activity by infrared spectroscopy. <i>Analytical Biochemistry</i> , 2012, 430, 32-38.	2.4	10
66	Stimulators of Mineralization Limit the Invasive Phenotype of Human Osteosarcoma Cells by a Mechanism Involving Impaired Invadopodia Formation. <i>PLoS ONE</i> , 2014, 9, e109938.	2.5	9
67	Two-Step Membrane Binding of NDPK-B Induces Membrane Fluidity Decrease and Changes in Lipid Lateral Organization and Protein Cluster Formation. <i>Langmuir</i> , 2016, 32, 12923-12933.	3.5	9
68	Lipid metabolism as a target for potassium channel effectors. <i>Biochemical Pharmacology</i> , 2000, 60, 607-614.	4.4	8
69	Calcium- and proton-dependent relocation of annexin A6 in Jurkat T cells stimulated for interleukin-2 secretion. <i>Acta Biochimica Polonica</i> , 2007, 54, 261-271.	0.5	8
70	Interaction of AnxA6 with isolated and artificial lipid microdomains; importance of lipid composition and calcium content. <i>Molecular BioSystems</i> , 2013, 9, 668.	2.9	7
71	Influence of the 524-VAAEIL-529 sequence of annexins A6 in their interfacial behavior and interaction with lipid monolayers. <i>Journal of Colloid and Interface Science</i> , 2013, 403, 99-104.	9.4	7
72	Acidic pH-Induced folding of annexin VI is a prerequisite for its insertion into lipid bilayers and formation of ion channels by the protein molecules. <i>FASEB Journal</i> , 2001, 15, 1083-1085.	0.5	7

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73	Src and ROCK Kinases Differentially Regulate Mineralization of Human Osteosarcoma Saos-2 Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2872.	4.1	6
74	Recent Advances in NMR Studies of Lipids. <i>Annual Reports on NMR Spectroscopy</i> , 2015, 85, 195-246.	1.5	4
75	Membranes and pathophysiological mineralization. <i>Postępy Biochemii</i> , 2016, 62, 511-517.	0.2	4
76	Analysis of Minerals Produced by hFOB 1.19 and Saos-2 Cells Using Transmission Electron Microscopy with Energy Dispersive X-ray Microanalysis. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	3
77	Activation of mammalian target of rapamycin kinase and glycogen synthase kinase β 2 accompanies abnormal accumulation of cholesterol in fibroblasts from Niemann-Pick type C patients. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 6580-6588.	2.6	3
78	NMR of lipids. <i>Nuclear Magnetic Resonance</i> , 2013, , 362-382.	0.2	3
79	UDP hydrolase activity associated with the porcine liver annexin fraction. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2001, 1526, 70-76.	2.4	2
80	Probing nucleotide binding site of annexin A6. <i>Vibrational Spectroscopy</i> , 2004, 36, 233-236.	2.2	2
81	A novel retinoid binding property of human annexin A6. <i>FEBS Letters</i> , 2006, 580, 3065-3069.	2.8	2
82	Characterization of caged compounds binding to proteins by NMR spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2010, 400, 447-451.	2.1	2
83	Chapter 9. NMR of lipids. <i>Nuclear Magnetic Resonance</i> , 2014, , 378-400.	0.2	2
84	NMR of lipids. <i>Nuclear Magnetic Resonance</i> , 2015, , 385-406.	0.2	2
85	Fluorescence evidence of annexin A6 translocation across membrane in model matrix vesicles during apatite formation. , 2022, 1, .		2
86	Acidic pH-Induced Ion Channels Formed by Annexin A6: Transformation of the Molecule from Soluble to Membrane Integral Protein. <i>Molecular Biology Intelligence Unit</i> , 2003, , 182-195.	0.2	1