SÅ‚awomir PikuÅ‚a, Slawomir Pikula, Sl

List of Publications by Year
in descending order

86 papers	2,943 citations	201674 27 h-index	182427 51 g-index
86 all docs	86 docs citations	86 times ranked	3552 citing authors

#	Article	IF	Citations
1	TNAP as a therapeutic target for cardiovascular calcification: a discussion of its pleiotropic functions in the body. Cardiovascular Research, 2022, 118, 84-96.	3.8	33
2	Fluorescence evidence of annexin A6 translocation across membrane in model matrix vesicles during apatite formation. , 2022, 1, .		2
3	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. International Journal of Molecular Sciences, 2021, 22, 3993.	4.1	12
4	Localization of Annexin A6 in Matrix Vesicles During Physiological Mineralization. International Journal of Molecular Sciences, 2020, 21, 1367.	4.1	20
5	Src and ROCK Kinases Differentially Regulate Mineralization of Human Osteosarcoma Saos-2 Cells. International Journal of Molecular Sciences, 2019, 20, 2872.	4.1	6
6	Neutralization of cholera toxin by Rosaceae family plant extracts. BMC Complementary and Alternative Medicine, 2019, 19, 140.	3.7	13
7	Quantitative atomic force microscopy provides new insight into matrix vesicle mineralization. Archives of Biochemistry and Biophysics, 2019, 667, 14-21.	3.0	25
8	Activation of mammalian terget of rapamycin kinase and glycogen synthase kinaseâ€3Î² accompanies abnormal accumulation of cholesterol in fibroblasts from Niemannâ€Pick type C patients. Journal of Cellular Biochemistry, 2019, 120, 6580-6588.	2.6	3
9	Matrix vesicles from chondrocytes and osteoblasts: Their biogenesis, properties, functions and biomimetic models. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 532-546.	2.4	131
10	Collagen promotes matrix vesicle-mediated mineralization by vascular smooth muscle cells. Journal of Inorganic Biochemistry, 2018, 186, 1-9.	3.5	16
11	Analysis of Minerals Produced by hFOB 1.19 and Saos-2 Cells Using Transmission Electron Microscopy with Energy Dispersive X-ray Microanalysis. Journal of Visualized Experiments, 2018, , .	0.3	3
12	Whole-body clearing, staining and screening of calcium deposits in the mdx mouse model of Duchenne muscular dystrophy. Skeletal Muscle, 2018, 8, 21.	4.2	16
13	Functions of Rho family of small GTPases and Rho-associated coiled-coil kinases in bone cells during differentiation and mineralization. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1009-1023.	2.4	47
14	Characteristics of minerals in vesicles produced by human osteoblasts hFOB 1.19 and osteosarcoma Saos-2 cells stimulated for mineralization. Journal of Inorganic Biochemistry, 2017, 171, 100-107.	3.5	22
15	TNAP stimulates vascular smooth muscle cell trans-differentiation into chondrocytes through calcium deposition and BMP-2 activation: Possible implication in atherosclerotic plaque stability. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 643-653.	3.8	38
16	Two-Step Membrane Binding of NDPK-B Induces Membrane Fluidity Decrease and Changes in Lipid Lateral Organization and Protein Cluster Formation. Langmuir, 2016, 32, 12923-12933.	3.5	9
17	Membranes and pathophysiological mineralization. Postepy Biochemii, 2016, 62, 511-517.	0.2	4
18	Direct Determination of Phosphatase Activity from Physiological Substrates in Cells. PLoS ONE, 2015, 10, e0120087.	2.5	15

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19	Recent Advances in NMR Studies of Lipids. Annual Reports on NMR Spectroscopy, 2015, 85, 195-246.	1.5	4
20	NMR of lipids. Nuclear Magnetic Resonance, 2015, , 385-406.	0.2	2
21	Calcineurin/NFAT Signaling Represses Genes Vamp1 and Vamp2 via PMCA-Dependent Mechanism during Dopamine Secretion by Pheochromocytoma Cells. PLoS ONE, 2014, 9, e92176.	2.5	11
22	NFAT1 and NFAT3 Cooperate with HDAC4 during Regulation of Alternative Splicing of PMCA Isoforms in PC12 Cells. PLoS ONE, 2014, 9, e99118.	2.5	11
23	Stimulators of Mineralization Limit the Invasive Phenotype of Human Osteosarcoma Cells by a Mechanism Involving Impaired Invadopodia Formation. PLoS ONE, 2014, 9, e109938.	2.5	9
24	Chapter 9. NMR of lipids. Nuclear Magnetic Resonance, 2014, , 378-400.	0.2	2
25	A comparison of replicative senescence and doxorubicin-induced premature senescence of vascular smooth muscle cells isolated from human aorta. Biogerontology, 2014, 15, 47-64.	3.9	105
26	Isolation and Characteristics of Matrix Vesicles. Methods in Molecular Biology, 2013, 1053, 115-124.	0.9	23
27	Interaction of AnxA6 with isolated and artificial lipid microdomains; importance of lipid composition and calcium content. Molecular BioSystems, 2013, 9, 668.	2.9	7
28	Influence of the 524-VAAEIL-529 sequence of annexins A6 in their interfacial behavior and interaction with lipid monolayers. Journal of Colloid and Interface Science, 2013, 403, 99-104.	9.4	7
29	Phospholipases of Mineralization Competent Cells and Matrix Vesicles: Roles in Physiological and Pathological Mineralizations. International Journal of Molecular Sciences, 2013, 14, 5036-5129.	4.1	55
30	Structural and functional characterization of annexin 1 from Medicago truncatula. Plant Physiology and Biochemistry, 2013, 73, 56-62.	5.8	14
31	NMR of lipids. Nuclear Magnetic Resonance, 2013, , 362-382.	0.2	3
32	Do annexins participate in lipid messenger mediated intracellular signaling? A question revisited. Molecular Membrane Biology, 2012, 29, 229-242.	2.0	36
33	Downregulation of PMCA2 or PMCA3 reorganizes Ca2+ handling systems in differentiating PC12 cells. Cell Calcium, 2012, 52, 433-444.	2.4	24
34	Impaired dynamics of the late endosome/lysosome compartment in human Niemannâ€“Pick type C skin fibroblasts carrying mutation in NPC1 gene. Molecular BioSystems, 2012, 8, 1197.	2.9	20
35	Direct determination of phospholipase D activity by infrared spectroscopy. Analytical Biochemistry, 2012, 430, 32-38.	2.4	10
36	Annexins as organizers of cholesterol- and sphingomyelin-enriched membrane microdomains in Niemann-Pick type C disease. Cellular and Molecular Life Sciences, 2012, 69, 1773-1785.	5.4	23

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37	Gene expression pattern in PC12 cells with reduced PMCA2 or PMCA3 isoform: selective up-regulation of calmodulin and neuromodulin. Molecular and Cellular Biochemistry, 2012, 360, 89-102.	3.1	11
38	Annexin A6 is recruited into lipid rafts of Niemannâ€“Pick type C disease fibroblasts in a Ca2+-dependent manner. Biochemical and Biophysical Research Communications, 2011, 405, 192-196.	2.1	17
39	Interaction of plasma membrane Ca2+-ATPase isoform 4 with calcineurin A: Implications for catecholamine secretion by PC12 cells. Biochemical and Biophysical Research Communications, 2011, 411, 235-240.	2.1	16
40	Matrix vesicles isolated from mineralization-competent Saos-2 cells are selectively enriched with annexins and S100 proteins. Biochemical and Biophysical Research Communications, 2011, 412, 683-687.	2.1	28
41	Proteomic characterization of biogenesis and functions of matrix vesicles released from mineralizing human osteoblast-like cells. Journal of Proteomics, 2011, 74, 1123-1134.	2.4	97
42	Ankylosing Spondylitis, Late Osteoarthritis, Vascular Calcification, Chondrocalcinosis and Pseudo Gout: Toward a Possible Drug Therapy. Current Medicinal Chemistry, 2011, 18, 2196-2203.	2.4	21
43	Role of annexin A6 isoforms in catecholamine secretion by PC12 cells: Distinct influence on calcium response. Journal of Cellular Biochemistry, 2010, 111, 168-178.	2.6	20
44	Interaction of annexin A6 with cholesterol rich membranes is pH-dependent and mediated by the sterol OH. Journal of Colloid and Interface Science, 2010, 346, 436-441.	9.4	25
45	Active creatine kinase is present in matrix vesicles isolated from femurs of chicken embryo: Implications for bone mineralization. Biochemical and Biophysical Research Communications, 2010, 391, 1432-1436.	2.1	10
46	Characterization of caged compounds binding to proteins by NMR spectroscopy. Biochemical and Biophysical Research Communications, 2010, 400, 447-451.	2.1	2
47	Cholesterol as a factor regulating intracellular localization of annexin A6 in Niemannâ€“Pick type C human skin fibroblasts. Archives of Biochemistry and Biophysics, 2010, 493, 221-233.	3.0	25
48	Inorganic pyrophosphate as a regulator of hydroxyapatite or calcium pyrophosphate dihydrate mineral deposition by matrix vesicles. Osteoarthritis and Cartilage, 2009, 17, 64-72.	1.3	108
49	Matrix vesicles originate from apical membrane microvilli of mineralizing osteoblastâ€like Saosâ€2 cells. Journal of Cellular Biochemistry, 2009, 106, 127-138.	2.6	88
50	Annexin-A6 presents two modes of association with phospholipid membranes. A combined QCM-D, AFM and cryo-TEM study. Journal of Structural Biology, 2009, 168, 107-116.	2.8	44
51	Biochemical characterization and expression analysis of a novel EF-hand Ca2+ binding protein calmyrin2 (Cib2) in brain indicates its function in NMDA receptor mediated Ca2+ signaling. Archives of Biochemistry and Biophysics, 2009, 487, 66-78.	3.0	33
52	Proteome analysis of matrix vesicles isolated from femurs of chicken embryo. Proteomics, 2008, 8, 192-205.	2.2	85
53	Calciumâ€and pHâ€dependent localization of annexin A6 isoforms in Balb/3T3 fibroblasts reflecting their potential participation in vesicular transport. Journal of Cellular Biochemistry, 2008, 104, 418-434.	2.6	19
54	Potential Role of Annexin AnnAt1 from Arabidopsis thaliana in pH-Mediated Cellular Response to Environmental Stimuli. Plant and Cell Physiology, 2007, 48, 792-803.	3.1	72

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55	Temperature dependence of ligandâ€“protein complex formation as reflected by saturation transfer difference NMR experiments. Magnetic Resonance in Chemistry, 2007, 45, 745-748.	1.9	27
56	A comparative analysis of strategies for isolation of matrix vesicles. Analytical Biochemistry, 2007, 361, 176-182.	2.4	31
57	Calcium- and proton-dependent relocation of annexin A6 in Jurkat T cells stimulated for interleukin-2 secretion.. Acta Biochimica Polonica, 2007, 54, 261-271.	0.5	8
58	Phosphorylation-dependent phospholipase D activity of matrix vesicles. FEBS Letters, 2006, 580, 5676-5680.	2.8	12
59	Effects of Mutagenesis of W343 in Human Annexin A6 Isoform 1 on Its Interaction with GTP:â€‰ Nucleotide-Induced Oligomer Formation and Ion Channel Activity. Biochemistry, 2006, 45, 4965-4973.	2.5	20
60	A novel retinoid binding property of human annexin A6. FEBS Letters, 2006, 580, 3065-3069.	2.8	2
61	Phosphodiesterase Activity of Alkaline Phosphatase in ATP-initiated Ca2+ and Phosphate Deposition in Isolated Chicken Matrix Vesicles. Journal of Biological Chemistry, 2005, 280, 37289-37296.	3.4	54
62	Peroxidase activity of annexin 1 from Arabidopsis thaliana. Biochemical and Biophysical Research Communications, 2005, 336, 868-875.	2.1	115
63	Probing nucleotide binding site of annexin A6. Vibrational Spectroscopy, 2004, 36, 233-236.	2.2	2
64	Structure of Human Annexin A6 at the Air-Water Interface and in a Membrane-Bound State. Biophysical Journal, 2004, 87, 1215-1226.	0.5	21
65	A Putative Consensus Sequence for the Nucleotide-Binding Site of Annexin A6â€. Biochemistry, 2003, 42, 9137-9146.	2.5	24
66	Acidic pH-Induced Ion Channels Formed by Annexin A6: Transformation of the Molecule from Soluble to Membrane Integral Protein. Molecular Biology Intelligence Unit, 2003, , 182-195.	0.2	1
67	The roles of annexins and alkaline phosphatase in mineralization process.. Acta Biochimica Polonica, 2003, 50, 1019-1038.	0.5	168
68	GTP-Induced Membrane Binding and Ion Channel Activity of Annexin VI: Is Annexin VI a GTP Biosensor?. Biophysical Journal, 2002, 82, 2737-2745.	0.5	28
69	N- and C-Terminal Halves of Human Annexin VI Differ in Ability to Form Low pH-Induced Ion Channels. Biochemical and Biophysical Research Communications, 2001, 284, 785-791.	2.1	18
70	UDP hydrolase activity associated with the porcine liver annexin fraction. Biochimica Et Biophysica Acta - General Subjects, 2001, 1526, 70-76.	2.4	2
71	Conformational states of annexin VI in solution induced by acidic pH. FEBS Letters, 2001, 496, 49-54.	2.8	40
72	Annexins as nucleotide-binding proteins: Facts and speculations. BioEssays, 2001, 23, 170-178.	2.5	28

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73	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. FASEB Journal, 2001, 15, 1083-1085.	0.5	47
74	Acidic pHâ€induced folding of annexin VI is a prerequisite for its insertion into lipid bilayers and formation of ion channels by the protein molecules. FASEB Journal, 2001, 15, 1083-1085.	0.5	7
75	Lipid metabolism as a target for potassium channel effectors. Biochemical Pharmacology, 2000, 60, 607-614.	4.4	8
76	Novel Function of Human RLIP76:Â ATP-Dependent Transport of Glutathione Conjugates and Doxorubicinâ€. Biochemistry, 2000, 39, 9327-9334.	2.5	163
77	Mechanisms for xenobiotic transport in biological membranes. Toxicology Letters, 1999, 106, 107-118.	0.8	15
78	ATP-Binding Site of Annexin VI Characterized by Photochemical Release of Nucleotide and Infrared Difference Spectroscopy. Biochemical and Biophysical Research Communications, 1999, 263, 775-779.	2.1	19
79	ATP-Dependent Human Erythrocyte Glutathione-Conjugate Transporter. II. Functional Reconstitution of Transport Activityâ€. Biochemistry, 1998, 37, 5239-5248.	2.5	51
80	ATP-Dependent Human Erythrocyte Glutathione-Conjugate Transporter. I. Purification, Photoaffinity Labeling, and Kinetic Characteristics of ATPase Activityâ€. Biochemistry, 1998, 37, 5231-5238.	2.5	47
81	Fluorescence Spectroscopic Studies on Interactions between Liver Annexin VI and Nucleotides. A Possible Role for a Tryptophan Residue. FEBS Journal, 1997, 248, 238-244.	0.2	21
82	A Glutathione S-transferases Isozyme (bGST 5.8) Involved in the Metabolism of 4-Hydroxy-2-trans-nonenal is Localized in Bovine Lens Epithelium. Experimental Eye Research, 1996, 63, 329-337.	2.6	19
83	Naturally Occurring Human Glutathione Sâ€transferase GSTP1â€1 Isoforms with Isoleucine and Valine in Position 104 Differ in Enzymic Properties. FEBS Journal, 1994, 224, 893-899.	0.2	389
84	Annexins IV (p32) and VI (p68) interact with erythrocyte membrane in a calcium-dependent manner. Biochimica Et Biophysica Acta - Biomembranes, 1992, 1105, 201-206.	2.6	31
85	Effect of calcium on the interactions between Ca2+-ATPase molecules in sarcoplasmic reticulum. Biochimica Et Biophysica Acta - Biomembranes, 1989, 984, 326-338.	2.6	12
86	Tryptophan phosphorescence of the Ca2+-ATPase of sarcoplasmic reticulum. BBA - Proteins and Proteomics, 1988, 957, 230-236.	2.1	11