Sajal Chakraborti

List of Publications by Year
in descending order

74 papers	3,017 citations	304602 22 h-index	161767 54 g-index
76 all docs	76 docs citations	76 times ranked	3916 citing authors

#	Article	IF	Citations
1	PKCÎ¶â€"NADPH Oxidaseâ€"PKCÎ± Dependent Kv1.5 Phosphorylation by Endothelin-1 Modulates Nav1.5â€"NCX1â€"Cav1.2 Axis in Stimulating Ca2+ Level in Caveolae of Pulmonary Artery Smooth Muscle Cells. Cell Biochemistry and Biophysics, 2021, 79, 57-71.	0.9	4
2	Bioassay-based Corchorus capsularis L. leaf-derived Î²-sitosterol exerts antileishmanial effects against Leishmania donovani by targeting trypanothione reductase. Scientific Reports, 2020, 10, 20440.	1.6	20
3	Role of PKCÎ¶â€NADPH oxidase signaling axis in PKCÎ±â€mediated GiÎ±2 phosphorylation for inhibition of adenylate cyclase activity by angiotensin II in pulmonary artery smooth muscle cells. Cell Biology International, 2020, 44, 1142-1155.	1.4	1
4	Environmental and Occupational agents and Cancer Drug-Induced Oxidative Stress in Pulmonary Fibrosis. , 2020, , 271-293.		0
5	Role of NADPH Oxidase-Induced Oxidative Stress in Matrix Metalloprotease-Mediated Lung Diseases. , 2020, , 75-101.		0
6	Protective role of epigallocatechin-3-gallate in NADPH oxidase-MMP2-Spm-Cer-S1P signalling axis mediated ET-1 induced pulmonary artery smooth muscle cell proliferation. Journal of Cell Communication and Signaling, 2019, 13, 473-489.	1.8	12
7	Role of PLDâ^'PKCÎ¶ signaling axis in p47phox phosphorylation for activation of NADPH oxidase by angiotensin II in pulmonary artery smooth muscle cells. Cell Biology International, 2019, 43, 678-694.	1.4	8
8	Functional attribution of LdISP, an endogenous serine protease inhibitor from Leishmania donovani in promoting infection. Biochimie, 2018, 147, 105-113.	1.3	4
9	Role of catechins on ET-1-induced stimulation of PLD and NADPH oxidase activities in pulmonary smooth muscle cells: determination of the probable mechanism by molecular docking studies. Biochemistry and Cell Biology, 2018, 96, 417-432.	0.9	8
10	Role of curcumin in PLD activation by Arf6-cytohesin1 signaling axis in U46619-stimulated pulmonary artery smooth muscle cells. Molecular and Cellular Biochemistry, 2018, 438, 97-109.	1.4	7
11	Inhibition of pro-/active MMP-2 by green tea catechins and prediction of their interaction by molecular docking studies. Molecular and Cellular Biochemistry, 2017, 427, 111-122.	1.4	22
12	Submitochondrial Calpains in Pathophysiological Consequences. , 2017, , 385-395.		0
13	Role of ADP ribosylation factor6â^' Cytohesin1â^'PhospholipaseD signaling axis in U46619 induced activation of NADPH oxidase in pulmonary artery smooth muscle cell membrane. Archives of Biochemistry and Biophysics, 2017, 633, 1-14.	1.4	14
14	Role of Proteases in Lung Disease: A Brief Overview. , 2017, , 333-374.		15
15	Cross talk between MMP2-Spm-Cer-S1P and ERK1/2 in proliferation of pulmonary artery smooth muscle cells under angiotensin II stimulation. Archives of Biochemistry and Biophysics, 2016, 603, 91-101.	1.4	8
16	Cross-talk between NADPH oxidase-PKCÎ±-p38MAPK and NF-ÎºB-MT1MMP in activating proMMP-2 by ET-1 in pulmonary artery smooth muscle cells. Molecular and Cellular Biochemistry, 2016, 415, 13-28.	1.4	11
17	Inhibition of MMP-9 by green tea catechins and prediction of their interaction by molecular docking analysis. Biomedicine and Pharmacotherapy, 2016, 84, 340-347.	2.5	34
18	Na+/K+-ATPase: A Perspective. , 2016, , 3-30.		3

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19	Protective role of epigallocatechin-3-gallate in health and disease: A perspective. Biomedicine and Pharmacotherapy, 2016, 78, 50-59.	2.5	126
20	Calcium Handling in Pulmonary Vasculature Under Oxidative Stress: Focus on SERCA. , 2016, , 207-226.		1
21	Phospholemman: A Brief Overview. , 2016, , 243-259.		1
22	Role of Spmâ€“Cerâ€S1P signalling pathway in MMPâ€2 mediated U46619â€induced proliferation of pulmonary artery smooth muscle cells: protective role of epigallocatechinâ€3â€gallate. Cell Biochemistry and Function, 2015, 33, 463-477.	1.4	13
23	Cross-talk between p38MAPK and GiÎ± in regulating cPLA2 activity by ET-1 in pulmonary smooth muscle cells. Molecular and Cellular Biochemistry, 2015, 400, 107-123.	1.4	8
24	Activation of proMMP-2 by U46619 occurs via involvement of p38MAPK-NFÎºB-MT1MMP signaling pathway in pulmonary artery smooth muscle cells. Molecular and Cellular Biochemistry, 2014, 385, 53-68.	1.4	8
25	Identification, purification and partial characterization of low molecular weight protein inhibitor of Na+/K+-ATPase from pulmonary artery smooth muscle cells. Molecular and Cellular Biochemistry, 2014, 393, 309-317.	1.4	2
26	Role of phospholemman and the 70 kDa inhibitor protein in regulating Na⁺/K⁺ ATPase activity in pulmonary artery smooth muscle cells under U46619 stimulation. FEBS Letters, 2013, 587, 3535-3540.	1.3	5
27	Role of PKCÎ±â€“p38MAPKâ€“GiÎ± axis in peroxynitrite-mediated inhibition of Î²-adrenergic response in pulmonary artery smooth muscle cells. Cellular Signalling, 2013, 25, 512-526.	1.7	11
28	Role of PKC-Â in NF-ÂB-MT1-MMP-mediated activation of proMMP-2 by TNF-Â in pulmonary artery smooth muscle cells. Journal of Biochemistry, 2013, 153, 289-302.	0.9	13
29	Role of PKC-Î¶ in NADPH oxidaseâ€“PKCÎ±â€“GiÎ± axis dependent inhibition of Î²-adrenergic response by U46619 in pulmonary artery smooth muscle cells. Archives of Biochemistry and Biophysics, 2013, 540, 133-144.	1.4	3
30	An Overview of Endoplasmic Reticulum Calpain System. , 2013, , 3-19.		1
31	Role of PKCÎ±â€“p38MAPKâ€“GiÎ± axis in NADPH oxidase derived <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msubsup><mml:mrow><mml:mtext>O</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</m activation of cPLA2 under U46619 stimulation in pulmonary artery smooth muscle cells. Archives of Biochemistry and Biophysics, 2012, 523, 169-180.	1.4	19
32	Role of protein kinase C in phospholemman mediated regulation of Î±2Î²1 isozyme of Na+/K+-ATPase in caveolae of pulmonary artery smooth muscle cells. Biochimie, 2012, 94, 991-1000.	1.3	12
33	Implications of calpains in health and diseases. Indian Journal of Biochemistry and Biophysics, 2012, 49, 316-28.	0.2	22
34	Role of TGF-Î²1 and TNF-Î± in IL-1Î² mediated activation of proMMP-9 in pulmonary artery smooth muscle cells: Involvement of an aprotinin sensitive protease. Archives of Biochemistry and Biophysics, 2011, 513, 61-69.	1.4	8
35	m-Calpain-mediated cleavage of Na+/Ca2+ exchanger-1 in caveolae vesicles isolated from pulmonary artery smooth muscle. Molecular and Cellular Biochemistry, 2010, 341, 167-180.	1.4	10
36	Calcium-dependent cleavage of the Na+/Ca2+ exchanger by m-calpain in isolated endoplasmic reticulum. Journal of Biochemistry, 2010, 147, 225-235.	0.9	16

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37	Identification, purification and partial characterization of a 70 kDa inhibitor protein of Na+/K+-ATPase from cytosol of pulmonary artery smooth muscle. Life Sciences, 2010, 86, 473-481.	2.0	4
38	Mitochondrial calpain system: An overview. Archives of Biochemistry and Biophysics, 2010, 495, 1-7.	1.4	72
39	Solubilization, purification, and reconstitution of Î±2Î²1 isozyme of Na+/K+-ATPase from caveolae of pulmonary smooth muscle plasma membrane: comparative studies with DHPC, C12E8, and Triton X-100. Molecular and Cellular Biochemistry, 2009, 323, 169-184.	1.4	4
40	Ca2+ influx mechanisms in caveolae vesicles of pulmonary smooth muscle plasma membrane under inhibition of Î±2Î²1 isozyme of Na+/K+-ATPase by ouabain. Life Sciences, 2009, 84, 139-148.	2.0	15
41	Î¼-Calpain mediated cleavage of the Na+/Ca2+ exchanger in isolated mitochondria under A23187 induced Ca2+ stimulation. Archives of Biochemistry and Biophysics, 2009, 482, 66-76.	1.4	34
42	Role of protein kinase C in NADPH oxidase derived O2â˘-mediated regulation of KVâ€“LVOCC axis under U46619 induced increase in [Ca2+]i in pulmonary smooth muscle cells. Archives of Biochemistry and Biophysics, 2009, 487, 123-130.	1.4	21
43	Submitochondrial localization of associated Î¼-calpain and calpastatin. Archives of Biochemistry and Biophysics, 2008, 470, 176-186.	1.4	21
44	Identification of calpastatin and Î¼-calpain and studies of their association in pulmonary smooth muscle mitochondria. Archives of Biochemistry and Biophysics, 2007, 466, 290-299.	1.4	22
45	Calcium signaling phenomena in heart diseases: a perspective. Molecular and Cellular Biochemistry, 2007, 298, 1-40.	1.4	36
46	Solubilization, purification and reconstitution of Ca2+-ATPase from bovine pulmonary artery smooth muscle microsomes by different detergents: Preservation of native structure and function of the enzyme by DHPC. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 20-31.	1.1	13
47	Role of MMP-2 in inhibiting Na+ dependent Ca2+ uptake by H2O2 in microsomes isolated from pulmonary smooth muscle. Molecular and Cellular Biochemistry, 2005, 270, 79-87.	1.4	3
48	Role of MMP-2 in PKCÎ´-mediated inhibition of Na+ dependent Ca2+ uptake in microsomes of pulmonary smooth muscle: Involvement of a pertussis toxin sensitive protein. Molecular and Cellular Biochemistry, 2005, 280, 107-117.	1.4	12
49	Oxidant-Mediated Activation of Cytosolic Phospholipase A2in Pulmonary Endothelium: Role of Protein Kinase CÎ± and a Pertussis Toxinâ€“Sensitive Protein. Endothelium: Journal of Endothelial Cell Research, 2005, 12, 121-131.	1.7	5
50	Proteolytic Activation of Protein Kinase CÎ± by Peroxynitrite in Stimulating Cytosolic Phospholipase A2in Pulmonary Endothelium:Â Involvement of a Pertussis Toxin Sensitive Proteinâ€. Biochemistry, 2005, 44, 5246-5257.	1.2	37
51	Role of an aprotinin-sensitive protease in protein kinase CÎ±-mediated activation of cytosolic phospholipase A2 by calcium ionophore (A23187) in pulmonary endothelium. Cellular Signalling, 2004, 16, 751-762.	1.7	21
52	Matrix Metalloproteinase-2-Mediated Inhibition of Na â€Š+â€Š -Dependent Ca 2â€Š+â€Š Uptake by Superoxide Radicals (O 2 .â€Šâ˘â€Š) in Microsomes of Pulmonary Smooth Muscle. IUBMB Life, 2004, 56, 267-276.	1.5	7
53	Inhibition of Na+/Ca2+ exchanger by peroxynitrite in microsomes of pulmonary smooth muscle: role of matrix metalloproteinase-2. Biochimica Et Biophysica Acta - General Subjects, 2004, 1671, 70-78.	1.1	24
54	Isolation of MMP-2 from MMP-2/TIMP-2 complex: characterization of the complex and the free enzyme in pulmonary vascular smooth muscle plasma membrane. Biochimica Et Biophysica Acta - General Subjects, 2004, 1674, 158-74.	1.1	7

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55	Clinical implications of matrix metalloproteinases. Molecular and Cellular Biochemistry, 2003, 252, 305-329.	1.4	135
56	Regulation of matrix metalloproteinases: an overview. Molecular and Cellular Biochemistry, 2003, 253, 269-285.	1.4	982
57	Identification, purification and partial characterization of tissue inhibitor of matrix metalloproteinase-2 in bovine pulmonary artery smooth muscle. Molecular and Cellular Biochemistry, 2003, 254, 275-287.	1.4	13
58	Phospholipase A2 isoforms: a perspective. Cellular Signalling, 2003, 15, 637-665.	1.7	162
59	Protective role of magnesium in cardiovascular diseases: a review. Molecular and Cellular Biochemistry, 2002, 238, 163-179.	1.4	201
60	Î²-adrenergic mechanisms in cardiac diseases:. Cellular Signalling, 2000, 12, 499-513.	1.7	49
61	Ageâ€dependent change in arachidonic acid metabolic capacity in rat alveolar macrophages. IUBMB Life, 1999, 47, 501-507.	1.5	8
62	Oxidant, Mitochondria and Calcium. Cellular Signalling, 1999, 11, 77-85.	1.7	247
63	Targets of oxidative stress in cardiovascular system. Molecular and Cellular Biochemistry, 1998, 187, 1-10.	1.4	69
64	Oxidant-Mediated Activation of Mitogen- Activated Protein Kinases and Nuclear Transcription Factors in the Cardiovascular System. Cellular Signalling, 1998, 10, 675-683.	1.7	103
65	Oxidant-mediated proteolytic activation of Ca2+-ATPase in microsomes of pulmonary smooth muscle. FEBS Letters, 1996, 387, 171-174.	1.3	15
66	Role of an aprotinin-sensitive protease in the activation of Ca2+-ATPase by superoxide radical (O2-.) in microsomes of pulmonary vascular smooth muscle. Biochemical Journal, 1996, 317, 885-890.	1.7	38
67	Role of hydroxyl radical in superoxide induced microsomal lipid peroxidation: Protective effect of anion channel blocker. Journal of Biosciences, 1996, 21, 35-43.	0.5	4
68	Role of hydroxyl radical in the oxidant H2O2-mediated Ca2+ release from pulmonary smooth muscle mitochondria. Molecular and Cellular Biochemistry, 1996, 159, 95-103.	1.4	24
69	Down-regulation of protein kinase C attenuates the oxidant hydrogen peroxide-mediated activation of phospholipase A2 in pulmonary vascular smooth muscle cells. Cellular Signalling, 1995, 7, 75-83.	1.7	46
70	Role of membrane associated serine esterase in the activation of phospholipase A2 by calcium ionophore (A23187) in pulmonary arterial smooth muscle cells. Molecular and Cellular Biochemistry, 1994, 130, 121-127.	1.4	5
71	Role of protein kinase C in oxidant ? mediated activation of phospholipase A2 in rabbit pulmonary arterial smooth muscle cells. Molecular and Cellular Biochemistry, 1993, 122, 9-15.	1.4	39
72	Defining the role of protein kinase c in calcium-ionophore-(A23187)-mediated activation of phospholipase A2 in pulmonary endothelium. FEBS Journal, 1992, 206, 965-972.	0.2	26

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73	Involvement of a serine esterase in oxidant-mediated activation of phospholipase A2in pulmonary endothelium. FEBS Letters, 1991, 281, 185-187.	1.3	16
74	Protein kinase C dependent and independent activation of phospholipase A2under calcium ionophore (A23187) exposure in rabbit pulmonary arterial smooth muscle cells. FEBS Letters, 1991, 285, 104-107.	1.3	23