Stephen B Shears

List of Publications by Year
in descending order

217
papers

10,199
citations

36691
53
h-index

49824
91
g-index

242
all docs

242
docs citations

242
times ranked

5832
citing authors

#	Article	IF	Citations
1	Essential Role of Phosphoinositide Metabolism in Synaptic Vesicle Recycling. Cell, 1999, 99, 179-188.	13.5	760
2	A Salmonella inositol polyphosphatase acts in conjunction with other bacterial effectors to promote host cell actin cytoskeleton rearrangements and bacterial internalization. Molecular Microbiology, 2001, 39, 248-260.	1.2	348
3	Stepwise enzymatic dephosphorylation of inositol 1,4,5-trisphosphate to inositol in liver. Nature, 1984, 312, 374-376.	13.7	340
4	Metabolism of the inositol phosphates produced upon receptor activation. Biochemical Journal, 1989, 260, 313-324.	1.7	322
5	Protection against Alzheimer's disease with apoE â^2. Lancet, The, 1994, 343, 1432-1433.	6.3	215
6	Long-term uncoupling of chloride secretion from intracellular calcium levels by Ins(3,4,5,6)P4. Nature, 1994, 371, 711-714.	13.7	197
7	Activation of Ca2+ entry into acinar cells by a non-phosphorylatable inositol trisphosphate. Nature, 1991, 352, 162-165.	13.7	192
8	Assessing the omnipotence of inositol hexakisphosphate. Cellular Signalling, 2001, 13, 151-158.	1.7	180
9	The Inositol Hexakisphosphate Kinase Family. Journal of Biological Chemistry, 2000, 275, 24686-24692.	1.6	167
10	How versatile are inositol phosphate kinases?. Biochemical Journal, 2004, 377, 265-280.	1.7	166
11	The versatility of inositol phosphates as cellular signals. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1998, 1436, 49-67.	1.2	162
12	Metabolism of <scp>d</scp>-<i>myo</i>-inositol 1,3,4,5-tetrakisphosphate by rat liver, including the synthesis of a novel isomer of <i>myo</i>-inositol tetrakisphosphate. Biochemical Journal, 1987, 246, 139-147.	1.7	158
13	Inhibition of Clathrin Assembly by High Affinity Binding of Specific Inositol Polyphosphates to the Synapse-specific Clathrin Assembly Protein AP-3. Journal of Biological Chemistry, 1995, 270, 1564-1568.	1.6	153
14	A novel context for the `MutT' module, a guardian of cell integrity, in a diphosphoinositol polyphosphate phosphohydrolase. EMBO Journal, 1998, 17, 6599-6607.	3.5	151
15	Inositol phosphates and cell signaling: new views of InsP5 and InsP6. Trends in Biochemical Sciences, 1993, 18, 53-56.	3.7	136
16	Inositol polyphosphate multikinase (ArgRIII) determines nuclear mRNA export inSaccharomyces cerevisiae. FEBS Letters, 2000, 468, 28-32.	1.3	131
17	Diphosphoinositol Polyphosphates: Metabolic Messengers?. Molecular Pharmacology, 2009, 76, 236-252.	1.0	131
18	The Diadenosine Hexaphosphate Hydrolases fromSchizosaccharomyces pombe and Saccharomyces cerevisiae Are Homologues of the Human Diphosphoinositol Polyphosphate Phosphohydrolase. Journal of Biological Chemistry, 1999, 274, 21735-21740.	1.6	125

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19	Structural basis for an inositol pyrophosphate kinase surmounting phosphate crowding. Nature Chemical Biology, 2012, 8, 111-116.	3.9	123
20	Dephosphorylation of <i>myo</i>-inositol 1,4,5-trisphosphate and <i>myo</i>-inositol 1,3,4-triphosphate. Biochemical Journal, 1987, 242, 393-402.	1.7	119
21	Structural Analysis and Detection of Biological Inositol Pyrophosphates Reveal That the Family of VIP/Diphosphoinositol Pentakisphosphate Kinases Are 1/3-Kinases. Journal of Biological Chemistry, 2009, 284, 1863-1872.	1.6	119
22	Turnover of inositol pentakisphosphates, inositol hexakisphosphate and diphosphoinositol polyphosphates in primary cultured hepatocytes. Biochemical Journal, 1993, 293, 583-590.	1.7	116
23	In Saccharomyces cerevisiae, the Inositol Polyphosphate Kinase Activity of Kcs1p Is Required for Resistance to Salt Stress, Cell Wall Integrity, and Vacuolar Morphogenesis. Journal of Biological Chemistry, 2002, 277, 23755-23763.	1.6	110
24	Purification, Sequencing, and Molecular Identification of a Mammalian PP-InsP5 Kinase That Is Activated When Cells Are Exposed to Hyperosmotic Stress. Journal of Biological Chemistry, 2007, 282, 30763-30775.	1.6	109
25	Inositol 3,4,5,6-Tetrakisphosphate Inhibits the Calmodulin-dependent Protein Kinase II-activated Chloride Conductance in T84 Colonic Epithelial Cells. Journal of Biological Chemistry, 1996, 271, 14092-14097.	1.6	108
26	Cystic Fibrosis Airway Epithelial Ca2+ Signaling. Journal of Biological Chemistry, 2005, 280, 10202-10209.	1.6	104
27	Inositol pyrophosphates: Why so many phosphates?. Advances in Biological Regulation, 2015, 57, 203-216.	1.4	101
28	D-myo-Inositol 1,4,5,6-tetrakisphosphate produced in human intestinal epithelial cells in response to Salmonella invasion inhibits phosphoinositide 3-kinase signaling pathways. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 14456-14460.	3.3	98
29	Intimate connections: Inositol pyrophosphates at the interface of metabolic regulation and cell signaling. Journal of Cellular Physiology, 2018, 233, 1897-1912.	2.0	90
30	A Bacterial Homolog of a Eukaryotic Inositol Phosphate Signaling Enzyme Mediates Cross-kingdom Dialog in the Mammalian Gut. Cell Reports, 2014, 6, 646-656.	2.9	88
31	Regulation of AP-3 Function by Inositides. Journal of Biological Chemistry, 1997, 272, 6393-6398.	1.6	86
32	Biological variability in the structures of diphosphoinositol polyphosphates in Dictyostelium discoideum and mammalian cells. Biochemical Journal, 1997, 327, 553-560.	1.7	85
33	Discovery of Molecular and Catalytic Diversity among Human Diphosphoinositol-Polyphosphate Phosphohydrolases. Journal of Biological Chemistry, 2000, 275, 12730-12736.	1.6	85
34	Molecular cloning and expression of a rat hepatic multiple inositol polyphosphate phosphatase. Biochemical Journal, 1997, 328, 75-81.	1.7	78
35	Changes in Phosphatidylinositol Metabolism in Response to Hyperosmotic Stress in Daucus carota L. Cells Grown in Suspension Culture. Plant Physiology, 1993, 103, 637-647.	2.3	72
36	Control of XPR1-dependent cellular phosphate efflux by InsP ₈ is an exemplar for functionally-exclusive inositol pyrophosphate signaling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3568-3574.	3.3	70

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37	Localization of a high-affinity inositol 1,4,5-trisphosphate/inositol 1,4,5,6-tetrakisphosphate binding domain to the pleckstrin homology module of a new 130 kDa protein: characterization of the determinants of structural specificity. Biochemical Journal, 1996, 318, 561-568.	1.7	69
38	Analysis of inositol phosphate metabolism by capillary electrophoresis electrospray ionization mass spectrometry. Nature Communications, 2020, 11, 6035.	5.8	69
39	Human Genome-Wide RNAi Screen Identifies an Essential Role for Inositol Pyrophosphates in Type-I Interferon Response. PLoS Pathogens, 2014, 10, e1003981.	2.1	68
40	The Effects of Mastoparan on the Carrot Cell Plasma Membrane Polyphosphoinositide Phospholipase C. Plant Physiology, 1995, 107, 845-856.	2.3	67
41	PPIP5K1 modulates ligand competition between diphosphoinositol polyphosphates and PtdIns(3,4,5)<i>P</i>3 for polyphosphoinositide-binding domains. Biochemical Journal, 2013, 453, 413-426.	1.7	67
42	Understanding inositol pyrophosphate metabolism and function: Kinetic characterization of the DIPPs. FEBS Letters, 2013, 587, 3464-3470.	1.3	66
43	Synthesis of Densely Phosphorylated Bisâ€1,5â€Diphosphoâ€<i>myo</i>â€Inositol Tetrakisphosphate and its Enantiomer by Bidirectional Pâ€Anhydride Formation. Angewandte Chemie - International Edition, 2014, 53, 9508-9511.	7.2	66
44	Multitasking in signal transduction by a promiscuous human Ins(3,4,5,6)P4 1-kinase/Ins(1,3,4)P3 5/6-kinase. Biochemical Journal, 2000, 351, 551-555.	1.7	65
45	Regulation of a Human Chloride Channel. Journal of Biological Chemistry, 2001, 276, 18673-18680.	1.6	65
46	Signaling by Higher Inositol Polyphosphates. Journal of Biological Chemistry, 2004, 279, 43378-43381.	1.6	64
47	Switching between humoral and cellular immune responses in Drosophila is guided by the cytokine GBP. Nature Communications, 2014, 5, 4628.	5.8	64
48	Targeted Deletion of Minpp1 Provides New Insight into the Activity of Multiple Inositol Polyphosphate Phosphatase In Vivo. Molecular and Cellular Biology, 2000, 20, 6496-6507.	1.1	63
49	Synthesis and Metabolism of Bis-diphosphoinositol Tetrakisphosphate in Vitro and in Vivo. Journal of Biological Chemistry, 1995, 270, 10489-10497.	1.6	62
50	KO of 5-InsP ₇ kinase activity transforms the HCT116 colon cancer cell line into a hypermetabolic, growth-inhibited phenotype. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11968-11973.	3.3	62
51	Ca2+ transport and Ca2+-dependent ATP hydrolysis by Golgi vesicles from lactating rat mammary glands. Biochemical Journal, 1985, 226, 741-748.	1.7	60
52	Regulation of Ins(3,4,5,6)P4 Signaling by a Reversible Kinase/Phosphatase. Current Biology, 2002, 12, 477-482.	1.8	60
53	Integration of Inositol Phosphate Signaling Pathways via Human ITPK1. Journal of Biological Chemistry, 2007, 282, 28117-28125.	1.6	58
54	Cellular Energetic Status Supervises the Synthesis of Bis-Diphosphoinositol Tetrakisphosphate Independently of AMP-Activated Protein Kinase. Molecular Pharmacology, 2008, 74, 527-536.	1.0	58

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55	The Significance of the Bifunctional Kinase/Phosphatase Activities of Diphosphoinositol Pentakisphosphate Kinases (PPIP5Ks) for Coupling Inositol Pyrophosphate Cell Signaling to Cellular Phosphate Homeostasis. Journal of Biological Chemistry, 2017, 292, 4544-4555.	1.6	57
56	Synthetic Inositol Phosphate Analogs Reveal that PPIP5K2 Has a Surface-Mounted Substrate Capture Site that Is a Target for Drug Discovery. Chemistry and Biology, 2014, 21, 689-699.	6.2	56
57	IP6K structure and the molecular determinants of catalytic specificity in an inositol phosphate kinase family. Nature Communications, 2014, 5, 4178.	5.8	55
58	Turnover of bis-diphosphoinositol tetrakisphosphate in a smooth muscle cell line is regulated by beta 2-adrenergic receptors through a cAMP-mediated, A-kinase-independent mechanism. EMBO Journal, 1998, 17, 1710-1716.	3.5	54
59	Regulation of Ca2+-dependent Clâˆ’conductance in a human colonic epithelial cell line (T84): cross-talk between Ins(3,4,5,6)P4and protein phosphatases. Journal of Physiology, 1998, 510, 661-673.	1.3	54
60	Asp1 from <i>Schizosaccharomyces pombe</i> Binds a [2Fe-2S]²⁺ Cluster Which Inhibits Inositol Pyrophosphate 1-Phosphatase Activity. Biochemistry, 2015, 54, 6462-6474.	1.2	51
61	Inositol 1:2(cyclic),4,5-trisphosphate is not a major product of inositol phospholipid metabolism in vasopressin-stimulated WRK1 cells. Biochemical Journal, 1988, 252, 1-5.	1.7	50
62	A Novel, Phospholipase C-independent Pathway of Inositol 1,4,5-Trisphosphate Formation in Dictyostelium and Rat Liver. Journal of Biological Chemistry, 1995, 270, 29724-29731.	1.6	49
63	Inositol 1,3,4-Trisphosphate Acts in Vivo as a Specific Regulator of Cellular Signaling by Inositol 3,4,5,6-Tetrakisphosphate. Journal of Biological Chemistry, 1999, 274, 18973-18980.	1.6	49
64	The interaction of coatomer with inositol polyphosphates is conserved in Saccharomyces cerevisiae. Biochemical Journal, 1995, 310, 279-284.	1.7	48
65	Signal transduction during environmental stress: InsP8 operates within highly restricted contexts. Cellular Signalling, 2005, 17, 1533-1541.	1.7	48
66	Receptor-dependent compartmentalization of PPIP5K1, a kinase with a cryptic polyphosphoinositide binding domain. Biochemical Journal, 2011, 434, 415-426.	1.7	48
67	Regulation of the metabolism of 1,2-diacyglycerols and inositol phasphates that respond to receptor activation. , 1991, 49, 79-104.		44
68	myo-Inositol 3,4,5,6-Tetrakisphosphate Inhibits an Apical Calcium-activated Chloride Conductance in Polarized Monolayers of a Cystic Fibrosis Cell Line. Journal of Biological Chemistry, 2000, 275, 26906-26913.	1.6	44
69	Cloning and expression of a cDNA encoding human inositol 1,4,5-trisphosphate 3-kinase C. Biochemical Journal, 2000, 352, 343-351.	1.7	44
70	Intracellular localization of human Ins(1,3,4,5,6)<i>P</i>5 2-kinase. Biochemical Journal, 2007, 408, 335-345.	1.7	43
71	The influence of thyroxine administered <i>in vivo</i> on the transmembrane protonic electrochemical potential difference in rat liver mitochondria. Biochemical Journal, 1979, 178, 505-507.	3.2	42
72	Site-directed Mutagenesis of Diphosphoinositol Polyphosphate Phosphohydrolase, a Dual Specificity NUDT Enzyme That Attacks Diadenosine Polyphosphates and Diphosphoinositol Polyphosphates. Journal of Biological Chemistry, 1999, 274, 35434-35440.	1.6	42

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73	The human and rat forms of multiple inositol polyphosphate phosphatase: functional homology with a histidine acid phosphatase up-regulated during endochondral ossification. FEBS Letters, 1999, 442, 99-104.	1.3	42
74	Diphosphoinositol Polyphosphates: The Final Frontier for Inositide Research?. Biological Chemistry, 1999, 380, 945-951.	1.2	41
75	Preferential localization of rat liver d-myo-inositol 1,4,5-trisphosphate/1,3,4,5-tetrakisphosphate 5-phosphatase in bile-canalicular plasma membrane and â€˜lateâ€™ endosomal vesicles. Biochemical Journal, 1988, 256, 363-369.	1.7	39
76	Ins(3,4,5,6)P4 specifically inhibits a receptor-mediated Ca2+-dependent Cl- current in CFPAC-1 cells. American Journal of Physiology - Cell Physiology, 1997, 272, C1160-C1168.	2.1	39
77	Expanding coincident signaling by PTEN through its inositol 1,3,4,5,6-pentakisphosphate 3-phosphatase activity. FEBS Letters, 2001, 499, 6-10.	1.3	39
78	Inositol Pentakis- and Hexakisphosphate Metabolism Adds Versatility to the Actions of Inositol Polyphosphates Novel Effects on Ion Channels and Protein Traffic. Sub-Cellular Biochemistry, 1996, 26, 187-226.	1.0	39
79	Defining Signal Transduction by Inositol Phosphates. Sub-Cellular Biochemistry, 2012, 59, 389-412.	1.0	39
80	Phosphatidylinositol and inositol phosphate metabolism. Journal of Cell Science, 2001, 114, 2207-2208.	1.2	39
81	An Adjacent Pair of Human NUDT Genes on Chromosome X Are Preferentially Expressed in Testis and Encode Two New Isoforms of Diphosphoinositol Polyphosphate Phosphohydrolase. Journal of Biological Chemistry, 2002, 277, 32730-32738.	1.6	38
82	Dephosphorylation of 2,3-bisphosphoglycerate by MIPP expands the regulatory capacity of the Rapoportâ€"Luebering glycolytic shunt. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5998-6003.	3.3	38
83	The kinetic properties of a human PPIP5K reveal that its kinase activities are protected against the consequences of a deteriorating cellular bioenergetic environment. Bioscience Reports, 2013, 33, e00022.	1.1	38
84	Inhibition of Inositol Polyphosphate Kinases by Quercetin and Related Flavonoids: A Structureâ€"Activity Analysis. Journal of Medicinal Chemistry, 2019, 62, 1443-1454.	2.9	38
85	Determination of mitochondrial calcium content in hepatocytes by a rapid cellular fractionation technique. Vasopressin stimulates mitochondrial Ca2+ uptake. Biochemical Journal, 1984, 220, 417-421.	1.7	37
86	Inositol Pyrophosphate Profiling of Two HCT116 Cell Lines Uncovers Variation in InsP8 Levels. PLoS ONE, 2016, 11, e0165286.	1.1	37
87	Mutations in Diphosphoinositol-Pentakisphosphate Kinase PPIP5K2 are associated with hearing loss in human and mouse. PLoS Genetics, 2018, 14, e1007297.	1.5	37
88	Avian multiple inositol polyphosphate phosphatase is an active phytase that can be engineered to help ameliorate the planet's â€œphosphate crisisâ€. Journal of Biotechnology, 2006, 126, 248-259.	1.9	36
89	Cytokine signaling through <i>Drosophila</i> Mthl10 ties lifespan to environmental stress. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13786-13791.	3.3	36
90	Metabolic and signaling properties of an <i>Itpk</i> gene family in <i>Glycine max</i>. FEBS Letters, 2008, 582, 1853-1858.	1.3	35

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91	An Expanded Biological Repertoire for Ins(3,4,5,6)P4 through its Modulation of ClC-3 Function. Current Biology, 2008, 18, 1600-1605.	1.8	35
92	PPIP5K2 and PCSK1 are Candidate Genetic Contributors to Familial Keratoconus. Scientific Reports, 2019, 9, 19406.	1.6	34
93	Paralogous murine Nudt10 and Nudt11 genes have differential expression patterns but encode identical proteins that are physiologically competent diphosphoinositol polyphosphate phosphohydrolases. Biochemical Journal, 2003, 373, 81-89.	1.7	33
94	A two-way switch for inositol pyrophosphate signaling: Evolutionary history and biological significance of a unique, bifunctional kinase/phosphatase. Advances in Biological Regulation, 2020, 75, 100674.	1.4	33
95	The transcriptional regulator, Arg82, is a hybrid kinase with both monophosphoinositol and diphosphoinositol polyphosphate synthase activity. FEBS Letters, 2001, 494, 208-212.	1.3	32
96	Inositol phosphate kinases: Expanding the biological significance of the universal core of the protein kinase fold. Advances in Biological Regulation, 2019, 71, 118-127.	1.4	32
97	The pathway of myo-inositol 1,3,4-trisphosphate dephosphorylation in liver. Biochemical Journal, 1987, 248, 977-980.	1.7	31
98	Inositol 3,4,5,6-Tetrakisphosphate Inhibits Insulin Granule Acidification and Fusogenic Potential. Journal of Biological Chemistry, 2002, 277, 26717-26720.	1.6	31
99	First synthetic analogues of diphosphoinositol polyphosphates: interaction with PP-InsP5 kinase. Chemical Communications, 2012, 48, 11292.	2.2	30
100	Determination of mitochondrial calcium content in hepatocytes by a rapid cellular-fractionation technique. Î±-adrenergic agonists do not mobilize mitochondrial Ca2+. Biochemical Journal, 1984, 219, 383-389.	1.7	29
101	Synthesis and Structure of Cellular Mediators: Inositol Polyphosphate Diphosphates. Journal of the American Chemical Society, 1995, 117, 12172-12175.	6.6	29
102	Comparison of the activities of a multiple inositol polyphosphate phosphatase obtained from several sources: a search for heterogeneity in this enzyme. Biochemical Journal, 1995, 305, 491-498.	1.7	28
103	Cytosolic Multiple Inositol Polyphosphate Phosphatase in the Regulation of Cytoplasmic Free Ca2+ Concentration. Journal of Biological Chemistry, 2003, 278, 46210-46218.	1.6	28
104	Multiple isomers of inositol pentakisphosphate in Epstein-Barr-virus- transformed (T5-1) B-lymphocytes. Identification of inositol 1,3,4,5,6-pentakisphosphate, d-inositol 1,2,4,5,6-pentakisphosphate and l-inositol 1,2,4,5,6-pentakisphosphate. Biochemical Journal, 1991, 280, 323-329.	1.7	27
105	Inhibition by inositoltetrakisphosphates of calcium- and volume-activated Cl - currents in macrovascular endothelial cells. Pflugers Archiv European Journal of Physiology, 1998, 435, 637-644.	1.3	27
106	InsP₇is a small-molecule regulator of NUDT3-mediated mRNA decapping and processing-body dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19245-19253.	3.3	27
107	Relationships between the degree of cross-linking of surface immunoglobulin and the associated inositol 1,4,5-trisphosphate and Ca2+ signals in human B cells. Biochemical Journal, 1992, 284, 447-455.	1.7	26
108	Properties of the Inositol 3,4,5,6-Tetrakisphosphate 1-Kinase Purified from Rat Liver. Journal of Biological Chemistry, 1997, 272, 2285-2290.	1.6	26

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109	Transcriptional regulation: a new dominion for inositol phosphate signaling?. BioEssays, 2000, 22, 786-789.	1.2	26
110	Diphosphoinositol polyphosphates: What are the mechanisms?. Advances in Enzyme Regulation, 2011, 51, 13-25.	2.9	25
111	Functional Regulation of ClC-3 in the Migration of Vascular Smooth Muscle Cells. Hypertension, 2013, 61, 174-179.	1.3	25
112	Ins(3,4,5,6)P sub4 inhibits an apical calcium-activated chloride conductance in polarized monolayers of a cystic fibrosis cell-line. Journal of Biological Chemistry, 2000, 275, 26906-13.	1.6	24
113	Flavored e-liquids increase cytoplasmic Ca²⁺levels in airway epithelia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L226-L241.	1.3	24
114	The effects of thyroxine treatment, in vivo and in vitro, on Ca2+efflux from rat liver mitochondria. FEBS Letters, 1981, 126, 9-12.	1.3	23
115	The Ins(1,3,4)P3 5/6-kinase/Ins(3,4,5,6)P4 1-kinase is not a protein kinase. Biochemical Journal, 2005, 389, 389-395.	1.7	23
116	scyllo â€Inositol Pentakisphosphate as an Analogue of myo â€Inositol 1,3,4,5,6â€Pentakisphosphate: Chemical Synthesis, Physicochemistry and Biological Applications. ChemBioChem, 2006, 7, 1114-1122.	1.3	23
117	Understanding the biological significance of diphosphoinositol polyphosphates (â€˜inositol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	2.7	23
118	Structural features of human inositol phosphate multikinase rationalize its inositol phosphate kinase and phosphoinositide 3-kinase activities. Journal of Biological Chemistry, 2017, 292, 18192-18202.	1.6	23
119	The significance of the 1-kinase/1-phosphatase activities of the PPIP5K family. Advances in Biological Regulation, 2017, 63, 98-106.	1.4	23
120	Structural and biochemical characterization of Siw14: A protein-tyrosine phosphatase fold that metabolizes inositol pyrophosphates. Journal of Biological Chemistry, 2018, 293, 6905-6914.	1.6	23
121	Characterization of a rapid cellular-fractionation technique for hepatocytes. Application in the measurement of mitochondrial membrane potential <i>in situ</i>. Biochemical Journal, 1984, 219, 375-382.	1.7	22
122	Multitasking in signal transduction by a promiscuous human Ins(3,4,5,6)P4 1-kinase/Ins(1,3,4)P3 5/6-kinase. Biochemical Journal, 2000, 351, 551.	1.7	21
123	The thyroid gland and the liver mitochondrial protonic electrochemical potential difference: A novel hormone action?. Journal of Theoretical Biology, 1980, 82, 1-13.	0.8	20
124	The Nucleolus Exhibits an Osmotically Regulated Gatekeeping Activity That Controls the Spatial Dynamics and Functions of Nucleolin. Journal of Biological Chemistry, 2008, 283, 11823-11831.	1.6	20
125	Molecular basis for the integration of inositol phosphate signaling pathways via human ITPK1. Advances in Enzyme Regulation, 2009, 49, 87-96.	2.9	20
126	Inositol hexakisphosphate kinase 1 is a metabolic sensor in pancreatic Î^2-cells. Cellular Signalling, 2018, 46, 120-128.	1.7	20

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127	Understanding the biological significance of diphosphoinositol polyphosphates (â€˜inositol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	2.7	20
128	Regiospecific phosphohydrolases from Dictyostelium as tools for the chemoenzymatic synthesis of the enantiomers d-myo-inositol 1,2,4-trisphosphate and d-myo-inositol 2,3,6-trisphosphate: non-physiological, potential analogues of biologically active d-myo-inositol 1,3,4-trisphosphate. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2705-2708.	1.0	19
129	Cellular Cations Control Conformational Switching of Inositol Pyrophosphate Analogues. Chemistry - A European Journal, 2016, 22, 12406-12414.	1.7	19
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131	Synthetic tools for studying the chemical biology of InsP₈. Chemical Communications, 2015, 51, 12605-12608.	2.2	18
132	Polarized subcellular distribution of the 1-, 4- and 5-phosphatase activities that metabolize inositol 1,4,5-trisphosphate in intestinal epithelial cells. Biochemical Journal, 1990, 269, 353-358.	1.7	17
133	Kinetic consequences of the inhibition by ATP of the metabolism of inositol (1,4,5) trisphosphate and inositol (1,3,4,5) tetrakisphosphate in liver. Different effects upon the 3- and 5-phosphatases. Cellular Signalling, 1990, 2, 191-195.	1.7	17
134	Synthesis and Biological Activity of d- and l-chiro-Inositol 2,3,4,5-Tetrakisphosphate:â€‰ Design of a Novel and Potent Inhibitor of Ins(3,4,5,6)P4 1-Kinase/Ins(1,3,4)P3 5/6-Kinase. Journal of Medicinal Chemistry, 2001, 44, 2984-2989.	2.9	17
135	Structural insight into inositol pyrophosphate turnover. Advances in Biological Regulation, 2013, 53, 19-27.	1.4	17
136	Changes in free cytosolic calcium and accumulation of inositol phosphates in isolated hepatocytes by [Leu]enkephalin. Biochemical Journal, 1986, 238, 537-542.	1.7	16
137	Inositol trisphosphate and tetrakisphosphate phosphomonoesterases of rat liver. Biochemical Society Transactions, 1987, 15, 28-32.	1.6	16
138	1<scp>d</scp>-<i>myo</i>-inositol 1,4,5-trisphosphate dephosphorylation by rat enterocytes involves an intracellular 5-phosphatase and non-specific phosphatase activity at the cell surface. Biochemical Journal, 1988, 255, 131-137.	1.7	16
139	Effects of aluminium on the hepatic inositol polyphosphate phosphatase. Biochemical Journal, 1995, 305, 557-561.	1.7	16
140	Apical localization of ITPK1 enhances its ability to be a modifier gene product in a murine tracheal cell model of cystic fibrosis. Journal of Cell Science, 2006, 119, 1320-1328.	1.2	16
141	Metabolic supervision by PPIP5K, an inositol pyrophosphate kinase/phosphatase, controls proliferation of the HCT116 tumor cell line. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	16
142	Ectopic expression of murine diphosphoinositol polyphosphate phosphohydrolase 1 attenuates signaling through the ERK1/2 pathway. Cellular Signalling, 2004, 16, 1045-1059.	1.7	16
143	Cloning and expression of a cDNA encoding human inositol 1,4,5-trisphosphate 3-kinase C. Biochemical Journal, 2000, 352, 343.	1.7	16
144	Ion transport in liver mitochondria from normal and thyroxine-treated rats. Journal of Bioenergetics and Biomembranes, 1980, 12, 379-393.	1.0	15

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145	Calcium uptake by intracellular compartments in permeabilised enterocytes effect of inositol 1,4,5 trisphosphate. Biochemical and Biophysical Research Communications, 1986, 139, 612-618.	1.0	15
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