

Huanchen Wang

List of Publications by Year in descending order

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34
papers

1,003
citations

430874

18
h-index

454955

30
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docs citations

35
times ranked

752
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Novel IP6K Inhibitors for the Treatment of Obesity and Obesity-Induced Metabolic Dysfunctions. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 6869-6887.	6.4	15
2	A structural exposé of noncanonical molecular reactivity within the protein tyrosine phosphatase WPD loop. <i>Nature Communications</i> , 2022, 13, 2231.	12.8	7
3	Structural and catalytic analyses of the InsP ₆ kinase activities of higher plant ITPKs. <i>FASEB Journal</i> , 2022, 36, .	0.5	10
4	New structural insights reveal an expanded reaction cycle for inositol pyrophosphate hydrolysis by human DIPP1. <i>FASEB Journal</i> , 2021, 35, e21275.	0.5	15
5	Metabolic supervision by PPIP5K, an inositol pyrophosphate kinase/phosphatase, controls proliferation of the HCT116 tumor cell line. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	16
6	A two-way switch for inositol pyrophosphate signaling: Evolutionary history and biological significance of a unique, bifunctional kinase/phosphatase. <i>Advances in Biological Regulation</i> , 2020, 75, 100674.	2.3	33
7	Metabolism and Functions of Inositol Pyrophosphates: Insights Gained from the Application of Synthetic Analogues. <i>Molecules</i> , 2020, 25, 4515.	3.8	13
8	InsP ₇ is a small-molecule regulator of NUDT3-mediated mRNA decapping and processing-body dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19245-19253.	7.1	27
9	Rapid stimulation of cellular Pi uptake by the inositol pyrophosphate InsP ₈ induced by its photothermal release from lipid nanocarriers using a near infra-red light-emitting diode. <i>Chemical Science</i> , 2020, 11, 10265-10278.	7.4	4
10	Control of XPR1-dependent cellular phosphate efflux by InsP ₈ is an exemplar for functionally-exclusive inositol pyrophosphate signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3568-3574.	7.1	70
11	Synthesis of an $\hat{\pm}$ -phosphono- $\hat{\pm}$, $\hat{\pm}$ -difluoroacetamide analogue of the diphosphoinositol pentakisphosphate 5-InsP ₇ . <i>MedChemComm</i> , 2019, 10, 1165-1172.	3.4	10
12	Dynamics of Substrate Processing by PPIP5K2, a Versatile Catalytic Machine. <i>Structure</i> , 2019, 27, 1022-1028.e2.	3.3	9
13	Inhibition of Inositol Polyphosphate Kinases by Quercetin and Related Flavonoids: A Structure-Activity Analysis. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 1443-1454.	6.4	38
14	Inositol phosphate kinases: Expanding the biological significance of the universal core of the protein kinase fold. <i>Advances in Biological Regulation</i> , 2019, 71, 118-127.	2.3	32
15	Inositol pyrophosphate synthesis by diphosphoinositol pentakisphosphate kinase-1 is regulated by phosphatidylinositol(4,5)bisphosphate. <i>Bioscience Reports</i> , 2018, 38, .	2.4	10
16	MicroRNA-21 mediates high phosphate-induced endothelial cell apoptosis. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C830-C838.	4.6	8
17	Crystal Structures of <i>Candida albicans</i> Phosphodiesterase 2 and Implications for Its Biological Functions. <i>Biochemistry</i> , 2018, 57, 6070-6077.	2.5	0
18	Structural and biochemical characterization of Siw14: A protein-tyrosine phosphatase fold that metabolizes inositol pyrophosphates. <i>Journal of Biological Chemistry</i> , 2018, 293, 6905-6914.	3.4	23

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19	Use of Protein Kinase-“Focused Compound Libraries for the Discovery of New Inositol Phosphate Kinase Inhibitors. <i>SLAS Discovery</i> , 2018, 23, 982-988.	2.7	15
20	The Significance of the Bifunctional Kinase/Phosphatase Activities of Diphosphoinositol Pentakisphosphate Kinases (PPIP5Ks) for Coupling Inositol Pyrophosphate Cell Signaling to Cellular Phosphate Homeostasis. <i>Journal of Biological Chemistry</i> , 2017, 292, 4544-4555.	3.4	57
21	KO of 5-InsP ₇ kinase activity transforms the HCT116 colon cancer cell line into a hypermetabolic, growth-inhibited phenotype. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11968-11973.	7.1	62
22	Cytokine signaling through <i>Drosophila</i> Mthl10 ties lifespan to environmental stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13786-13791.	7.1	36
23	The significance of the 1-kinase/1-phosphatase activities of the PPIP5K family. <i>Advances in Biological Regulation</i> , 2017, 63, 98-106.	2.3	23
24	A High-Throughput Screening-Compatible Strategy for the Identification of Inositol Pyrophosphate Kinase Inhibitors. <i>PLoS ONE</i> , 2016, 11, e0164378.	2.5	2
25	Cellular Cations Control Conformational Switching of Inositol Pyrophosphate Analogues. <i>Chemistry - A European Journal</i> , 2016, 22, 12406-12414.	3.3	19
26	Asp1 from <i>Schizosaccharomyces pombe</i> Binds a [2Fe-2S] ²⁺ Cluster Which Inhibits Inositol Pyrophosphate 1-Phosphatase Activity. <i>Biochemistry</i> , 2015, 54, 6462-6474.	2.5	51
27	Synthetic tools for studying the chemical biology of InsP ₈ . <i>Chemical Communications</i> , 2015, 51, 12605-12608.	4.1	18
28	IP6K structure and the molecular determinants of catalytic specificity in an inositol phosphate kinase family. <i>Nature Communications</i> , 2014, 5, 4178.	12.8	55
29	Synthesis of Densely Phosphorylated Bis(1,5-Diphospho- <i>myo</i> -inositol Tetrakisphosphate and its Enantiomer by Bidirectional P _h -Anhydride Formation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9508-9511.	13.8	66
30	Synthetic Inositol Phosphate Analogs Reveal that PPIP5K2 Has a Surface-Mounted Substrate Capture Site that Is a Target for Drug Discovery. <i>Chemistry and Biology</i> , 2014, 21, 689-699.	6.0	56
31	The kinetic properties of a human PPIP5K reveal that its kinase activities are protected against the consequences of a deteriorating cellular bioenergetic environment. <i>Bioscience Reports</i> , 2013, 33, e00022.	2.4	38
32	The kinetic properties of a human PPIP5K reveal that its kinase activities are protected against the consequences of a deteriorating cellular bioenergetic environment. <i>FASEB Journal</i> , 2013, 27, 1050.3.	0.5	1
33	First synthetic analogues of diphosphoinositol polyphosphates: interaction with PP-InsP5 kinase. <i>Chemical Communications</i> , 2012, 48, 11292.	4.1	30
34	Structural basis for an inositol pyrophosphate kinase surmounting phosphate crowding. <i>Nature Chemical Biology</i> , 2012, 8, 111-116.	8.0	123