

Dorothea Fiedler

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,602
citations

331538

21
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345118

36
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51
all docs

51
docs citations

51
times ranked

1353
citing authors

#	ARTICLE	IF	CITATIONS
1	Two bifunctional inositol pyrophosphate kinases/phosphatases control plant phosphate homeostasis. <i>ELife</i> , 2019, 8, .	2.8	118
2	MLKL Requires the Inositol Phosphate Code to Execute Necroptosis. <i>Molecular Cell</i> , 2018, 70, 936-948.e7.	4.5	111
3	Inositol pyrophosphates promote the interaction of SPX domains with the coiled-coil motif of PHR transcription factors to regulate plant phosphate homeostasis. <i>Nature Communications</i> , 2021, 12, 384.	5.8	105
4	Inositol Pyrophosphates Mediate the DNA-PK/ATM-p53 Cell Death Pathway by Regulating CK2 Phosphorylation of Tti1/Tel2. <i>Molecular Cell</i> , 2014, 54, 119-132.	4.5	103
5	Inositol polyphosphates intersect with signaling and metabolic networks via two distinct mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6757-E6765.	3.3	77
6	Conversion of dietary inositol into propionate and acetate by commensal <i>Anaerostipes</i> associates with host health. <i>Nature Communications</i> , 2021, 12, 4798.	5.8	76
7	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.	3.3	70
8	Synthesis and characterization of non-hydrolysable diphosphoinositol polyphosphate messengers. <i>Chemical Science</i> , 2013, 4, 405-410.	3.7	69
9	Analysis of inositol phosphate metabolism by capillary electrophoresis electrospray ionization mass spectrometry. <i>Nature Communications</i> , 2020, 11, 6035.	5.8	69
10	Inositol hexakisphosphate kinase 1 (IP6K1) activity is required for cytoplasmic dynein-driven transport. <i>Biochemical Journal</i> , 2016, 473, 3031-3047.	1.7	57
11	Harnessing ¹³ C-labeled <i>myo</i> -inositol to interrogate inositol phosphate messengers by NMR. <i>Chemical Science</i> , 2019, 10, 5267-5274.	3.7	56
12	A Novel Inositol Pyrophosphate Phosphatase in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 6772-6783.	1.6	55
13	ITPK1 is an InsP ₆ /ADP phosphotransferase that controls phosphate signaling in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2021, 14, 1864-1880.	3.9	51
14	Differential genetic interactions of yeast stress response <i>MAPK</i> pathways. <i>Molecular Systems Biology</i> , 2015, 11, 800.	3.2	47
15	Elucidating Diphosphoinositol Polyphosphate Function with Nonhydrolyzable Analogues. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7192-7197.	7.2	46
16	Chemical Pyrophosphorylation of Functionally Diverse Peptides. <i>Journal of the American Chemical Society</i> , 2014, 136, 108-111.	6.6	36
17	Chemical tools for interrogating inositol pyrophosphate structure and function. <i>Chemical Society Reviews</i> , 2016, 45, 6311-6326.	18.7	33
18	Chemical Genetics of Rapamycin-Insensitive TORC2 in <i>S.Âcerevisiae</i> . <i>Cell Reports</i> , 2013, 5, 1725-1736.	2.9	31

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19	An Affinity Reagent for the Recognition of Pyrophosphorylated Peptides. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3941-3945.	7.2	29
20	Scalable Chemoenzymatic Synthesis of Inositol Pyrophosphates. <i>Biochemistry</i> , 2019, 58, 3927-3932.	1.2	29
21	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.	3.3	27
22	A Fluorescent Sensor and Gel Stain for Detection of Pyrophosphorylated Proteins. <i>ACS Chemical Biology</i> , 2015, 10, 1958-1963.	1.6	23
23	Establishing the Stability and Reversibility of Protein Pyrophosphorylation with Synthetic Peptides. <i>ChemBioChem</i> , 2015, 16, 415-423.	1.3	22
24	Unambiguous Identification of Serine and Threonine Pyrophosphorylation Using Neutral-Loss-Triggered Electron-Transfer/Higher-Energy Collision Dissociation. <i>Analytical Chemistry</i> , 2017, 89, 3672-3680.	3.2	22
25	Identification of Small-Molecule Inhibitors of Human Inositol Hexakisphosphate Kinases by High-Throughput Screening. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 780-789.	2.5	22
26	Triplexed Affinity Reagents to Sample the Mammalian Inositol Pyrophosphate Interactome. <i>Cell Chemical Biology</i> , 2020, 27, 1097-1108.e4.	2.5	21
27	IP ₇ -SPX Domain Interaction Controls Fungal Virulence by Stabilizing Phosphate Signaling Machinery. <i>MBio</i> , 2020, 11, .	1.8	21
28	Cellular Cations Control Conformational Switching of Inositol Pyrophosphate Analogues. <i>Chemistry - A European Journal</i> , 2016, 22, 12406-12414.	1.7	19
29	The inositol pyrophosphate 5-InsP ₇ drives sodium-potassium pump degradation by relieving an autoinhibitory domain of PI3K p85 \pm . <i>Science Advances</i> , 2020, 6, .	4.7	16
30	Versatile signaling mechanisms of inositol pyrophosphates. <i>Current Opinion in Chemical Biology</i> , 2022, 70, 102177.	2.8	16
31	Elucidating Diphosphoinositol Polyphosphate Function with Nonhydrolyzable Analogues. <i>Angewandte Chemie</i> , 2014, 126, 7320-7325.	1.6	13
32	Structural evidence for visual arrestin priming via complexation of phosphoinositols. <i>Structure</i> , 2022, 30, 263-277.e5.	1.6	12
33	Delivery of <i>myo</i> -inositol Hexakisphosphate to the Cell Nucleus with a Proline-Based Cell-Penetrating Peptide. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15586-15589.	7.2	11
34	A Stable Pyrophosphoserine Analog for Incorporation into Peptides and Proteins. <i>ACS Chemical Biology</i> , 2016, 11, 1066-1073.	1.6	10
35	The inositol pyrophosphate metabolism of <i>Dictyostelium discoideum</i> does not regulate inorganic polyphosphate (polyP) synthesis. <i>Advances in Biological Regulation</i> , 2022, 83, 100835.	1.4	10
36	Pyrophosphorylation <i>via</i> selective phosphoprotein derivatization. <i>Chemical Science</i> , 2018, 9, 5929-5936.	3.7	9

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37	Dissecting the activation of insulin degrading enzyme by inositol pyrophosphates and their bisphosphonate analogs. <i>Chemical Science</i> , 2021, 12, 10696-10702.	3.7	8
38	Pharmacological tools to investigate inositol polyphosphate kinases – Enzymes of increasing therapeutic relevance. <i>Advances in Biological Regulation</i> , 2022, 83, 100836.	1.4	7
39	Using Biotinylated <i>myo</i> -Inositol Hexakisphosphate to Investigate Inositol Pyrophosphate-Protein Interactions with Surface-Based Biosensors. <i>Biochemistry</i> , 2021, 60, 2739-2748.	1.2	6
40	Affinity-based proteomics reveals novel targets of inositol pyrophosphate (5-IP ₇)-dependent phosphorylation and binding in <i>Trypanosoma cruzi</i> replicative stages. <i>Molecular Microbiology</i> , 2021, 115, 986-1004.	1.2	5
41	<i>Arabidopsis</i> PFA-DSP-Type Phosphohydrolases Target Specific Inositol Pyrophosphate Messengers. <i>Biochemistry</i> , 2022, 61, 1213-1227.	1.2	4
42	Analysis of metabolically labeled inositol phosphate messengers by NMR. <i>Methods in Enzymology</i> , 2020, 641, 35-52.	0.4	1
43	Delivery of <i>myo</i> -Inositol Hexakisphosphate to the Cell Nucleus with a Proline-Based Cell-Penetrating Peptide. <i>Angewandte Chemie</i> , 2020, 132, 15716-15719.	1.6	1
44	Investigation of a potential electrogenic transport-system for <i>myo</i> -inositol in the small intestine of laying hens. <i>British Poultry Science</i> , 2021, , 1-7.	0.8	1