

Henning J Jessen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111
papers

2,504
citations

28
h-index

46
g-index

145
ext. papers

3,289
ext. citations

8.1
avg, IF

5.31
L-index

#	Paper	IF	Citations
111	Innentitelbild: Stable Isotope Phosphate Labelling of Diverse Metabolites is Enabled by a Family of 18O-Phosphoramidites (Angew. Chem. 5/2022). <i>Angewandte Chemie</i> , 2022 , 134, e202117675	3.6	0
110	A structural exposé of noncanonical molecular reactivity within the protein tyrosine phosphatase WPD loop.. <i>Nature Communications</i> , 2022 , 13, 2231	17.4	0
109	Activities and Structure-Function Analysis of Fission Yeast Inositol Pyrophosphate (IPP) Kinase-Pyrophosphatase Asp1 and Its Impact on Regulation of Gene Expression.. <i>MBio</i> , 2022 , e0103422	7.8	2
108	The inositol pyrophosphate metabolism of Dictyostelium discoideum does not regulate inorganic polyphosphate (polyP) synthesis. <i>Advances in Biological Regulation</i> , 2021 , 100835	6.2	1
107	Polyphosphate degradation by Nudt3-Zn mediates oxidative stress response. <i>Cell Reports</i> , 2021 , 37, 110004	10.6	3
106	Lost in Condensation: Poly-, Cyclo-, and Ultraphosphates. <i>Accounts of Chemical Research</i> , 2021 , 54, 4036-4050	10.5	3
105	Pyridinium Modified Anthracenes and Their Endoperoxides Provide a Tunable Scaffold with Activity against Gram-Positive and Gram-Negative Bacteria. <i>ACS Infectious Diseases</i> , 2021 , 7, 2073-2080	5.5	2
104	ePharmaLib: A Versatile Library of e-Pharmacophores to Address Small-Molecule (Poly-)Pharmacology. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 3659-3666	6.1	1
103	The Inositol Pyrophosphate Biosynthetic Pathway of. <i>ACS Chemical Biology</i> , 2021 , 16, 283-292	4.9	1
102	New structural insights reveal an expanded reaction cycle for inositol pyrophosphate hydrolysis by human DIPP1. <i>FASEB Journal</i> , 2021 , 35, e21275	0.9	2
101	ITPK1 is an InsP/ADP phosphotransferase that controls phosphate signaling in Arabidopsis. <i>Molecular Plant</i> , 2021 , 14, 1864-1880	14.4	9
100	Absolute Quantitation of Inositol Pyrophosphates by Capillary Electrophoresis Electrospray Ionization Mass Spectrometry. <i>Journal of Visualized Experiments</i> , 2021 ,	1.6	1
99	The chemistry of branched condensed phosphates. <i>Nature Communications</i> , 2021 , 12, 5368	17.4	4
98	Intracellular polyphosphate length characterization in polyphosphate accumulating microorganisms (PAOs): Implications in PAO phenotypic diversity and enhanced biological phosphorus removal performance. <i>Water Research</i> , 2021 , 206, 117726	12.5	4
97	A fully reversible 25-hydroxy steroid kinase involved in oxygen-independent cholesterol side-chain oxidation. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101105	5.4	0
96	Rapid Synthesis of Nucleoside Triphosphates and Analogues. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2020 , 81, e108	0.5	0
95	Photolysis of Caged Inositol Pyrophosphate InsP Directly Modulates Intracellular Ca Oscillations and Controls C2AB Domain Localization. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10606-10611	16.4	4

94	Photo-releasable derivatives of inositol pyrophosphates. <i>Methods in Enzymology</i> , 2020 , 641, 53-73	1.7	1
93	Four Phosphates at One Blow: Access to Pentaphosphorylated Magic Spot Nucleotides and Their Analysis by Capillary Electrophoresis. <i>Journal of Organic Chemistry</i> , 2020 , 85, 14496-14506	4.2	5
92	Control of XPR1-dependent cellular phosphate efflux by InsP 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	11.5	36
91	Multiple Light Control Mechanisms in ATP-Fueled Non-equilibrium DNA Systems. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12084-12092	16.4	35
90	Cyclotriphosphate: A Brief History, Recent Developments, and Perspectives in Synthesis. <i>Chemistry - A European Journal</i> , 2020 , 26, 2298-2308	4.8	15
89	Development of a yeast model to study the contribution of vacuolar polyphosphate metabolism to lysine polyphosphorylation. <i>Journal of Biological Chemistry</i> , 2020 , 295, 1439-1451	5.4	10
88	Multiple Light Control Mechanisms in ATP-Fueled Non-equilibrium DNA Systems. <i>Angewandte Chemie</i> , 2020 , 132, 12182-12190	3.6	9
87	Analysis of inositol phosphate metabolism by capillary electrophoresis electrospray ionization mass spectrometry. <i>Nature Communications</i> , 2020 , 11, 6035	17.4	19
86	ATP-dependent hydroxylation of an unactivated primary carbon with water. <i>Nature Communications</i> , 2020 , 11, 3906	17.4	3
85	InsP 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	11.5	10
84	The inositol pyrophosphate 5-InsP drives sodium-potassium pump degradation by relieving an autoinhibitory domain of PI3K p85. <i>Science Advances</i> , 2020 , 6,	14.3	6
83	Rapid stimulation of cellular Pi uptake by the inositol pyrophosphate InsP induced by its photothermal release from lipid nanocarriers using a near infra-red light-emitting diode. <i>Chemical Science</i> , 2020 , 11, 10265-10278	9.4	1
82	Synthesis of Modified Nucleoside Oligophosphates Simplified: Fast, Pure, and Protecting Group Free. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15013-15017	16.4	14
81	ITPK1 and ITPK2 Have an Evolutionarily Conserved Phytic Acid Kinase Activity. <i>ACS Chemical Biology</i> , 2019 , 14, 2127-2133	4.9	28
80	A Phosphoramidite Analogue of Cyclotriphosphate Enables Iterative Polyphosphorylations. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3928-3933	16.4	16
79	A Phosphoramidite Analogue of Cyclotriphosphate Enables Iterative Polyphosphorylations. <i>Angewandte Chemie</i> , 2019 , 131, 3968-3973	3.6	5
78	Photolysis of cell-permeant caged inositol pyrophosphates controls oscillations of cytosolic calcium in a <i>E</i> cell line. <i>Chemical Science</i> , 2019 , 10, 2687-2692	9.4	14
77	The inositol hexakisphosphate kinases IP6K1 and -2 regulate human cellular phosphate homeostasis, including XPR1-mediated phosphate export. <i>Journal of Biological Chemistry</i> , 2019 , 294, 11597-11608	5.4	41

76	Inositol polyphosphates promote T cell-independent humoral immunity via the regulation of Bruton's tyrosine kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12952-12957	11.5	9
75	Trehalose Conjugation Enhances Toxicity of Photosensitizers against Mycobacteria. <i>ACS Central Science</i> , 2019 , 5, 644-650	16.8	10
74	Dynamics of Substrate Processing by PPIP5K2, a Versatile Catalytic Machine. <i>Structure</i> , 2019 , 27, 1022-1028.e27	9.2	8
73	Magic spot nucleotides: tunable target-specific chemoenzymatic synthesis. <i>Chemical Communications</i> , 2019 , 55, 5339-5342	5.8	8
72	Inositol Pyrophosphate InsP Acts as an Intracellular Phosphate Signal in Arabidopsis. <i>Molecular Plant</i> , 2019 , 12, 1463-1473	14.4	69
71	Two bifunctional inositol pyrophosphate kinases/phosphatases control plant phosphate homeostasis. <i>ELife</i> , 2019 , 8,	8.9	63
70	Several Polyphosphate Kinase 2 Enzymes Catalyse the Production of Adenosine 5'-Polyphosphates. <i>ChemBioChem</i> , 2019 , 20, 1019-1022	3.8	26
69	Lipidic Mesophase-Embedded Palladium Nanoparticles: Synthesis and Tunable Catalysts in Suzuki-Miyaura Cross-Coupling Reactions. <i>Langmuir</i> , 2019 , 35, 120-127	4	11
68	Inositol Pyrophosphate Synthesis by Diphosphoinositol Pentakisphosphate Kinase-1 is Regulated by Phosphatidylinositol(4,5)bisphosphate. <i>Bioscience Reports</i> , 2018 , 38,	4.1	7
67	The Hitchhiker's Guide to Organophosphate Chemistry. <i>Synlett</i> , 2018 , 29, 699-713	2.2	6
66	Lipidic Mesophases as Novel Nanoreactor Scaffolds for Organocatalysts: Heterogeneously Catalyzed Asymmetric Aldol Reactions in Confined Water. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5114-5124	9.5	28
65	Substrate recognition and mechanism revealed by ligand-bound polyphosphate kinase 2 structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3350-3355	11.5	32
64	Screening a Protein Array with Synthetic Biotinylated Inorganic Polyphosphate To Define the Human PolyP-ome. <i>ACS Chemical Biology</i> , 2018 , 13, 1958-1963	4.9	28
63	Delivery of Inorganic Polyphosphate into Cells Using Amphipathic Oligocarbonate Transporters. <i>ACS Central Science</i> , 2018 , 4, 1394-1402	16.8	11
62	5-Diphosphoinositol pentakisphosphate (5-IP) regulates phosphate release from acidocalcisomes and yeast vacuoles. <i>Journal of Biological Chemistry</i> , 2018 , 293, 19101-19112	5.4	20
61	Hydrophilic interaction liquid chromatography-tandem mass spectrometry for the quantitative analysis of mammalian-derived inositol poly/pyrophosphates. <i>Journal of Chromatography A</i> , 2018 , 1573, 87-97	4.5	10
60	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	5.4	11
59	Use of Protein Kinase-Focused Compound Libraries for the Discovery of New Inositol Phosphate Kinase Inhibitors. <i>SLAS Discovery</i> , 2018 , 23, 982-988	3.4	9

58	Biological evaluation of pyridone alkaloids on the endocannabinoid system. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 6102-6114	3.4	8
57	Inositol Pyrophosphate Specificity of the SPX-Dependent Polyphosphate Polymerase VTC. <i>ACS Chemical Biology</i> , 2017 , 12, 648-653	4.9	51
56	New Synthetic Methods for Phosphate Labeling. <i>Topics in Current Chemistry</i> , 2017 , 375, 51	7.2	6
55	The Significance of the Bifunctional Kinase/Phosphatase Activities of Diphosphoinositol Pentakisphosphate Kinases (PIPK5s) for Coupling Inositol Pyrophosphate Cell Signaling to Cellular Phosphate Homeostasis. <i>Journal of Biological Chemistry</i> , 2017 , 292, 4544-4555	5.4	40
54	KO of 5-InsP 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	11.5	39
53	A 1-phytase type III effector interferes with plant hormone signaling. <i>Nature Communications</i> , 2017 , 8, 2159	17.4	20
52	Retraction: A High-Throughput Screening-Compatible Strategy for the Identification of Inositol Pyrophosphate Kinase Inhibitors. <i>PLoS ONE</i> , 2017 , 12, e0180272	3.7	1
51	Identifying Kinase Substrates via a Heavy ATP Kinase Assay and Quantitative Mass Spectrometry. <i>Scientific Reports</i> , 2016 , 6, 28107	4.9	12
50	Chemoselective Dimerization of Phosphates. <i>Organic Letters</i> , 2016 , 18, 3222-5	6.2	15
49	Cellular delivery and photochemical release of a caged inositol-pyrophosphate induces PH-domain translocation in cellulo. <i>Nature Communications</i> , 2016 , 7, 10622	17.4	62
48	Synthesis of 2-diphospho-myo-inositol 1,3,4,5,6-pentakisphosphate and a photocaged analogue. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 5559-62	3.9	9
47	A High-Throughput Screening-Compatible Strategy for the Identification of Inositol Pyrophosphate Kinase Inhibitors. <i>PLoS ONE</i> , 2016 , 11, e0164378	3.7	2
46	Inositol Pyrophosphate Profiling of Two HCT116 Cell Lines Uncovers Variation in InsP8 Levels. <i>PLoS ONE</i> , 2016 , 11, e0165286	3.7	25
45	Inositol pyrophosphates inhibit synaptotagmin-dependent exocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 8314-9	11.5	30
44	Control of eukaryotic phosphate homeostasis by inositol polyphosphate sensor domains. <i>Science</i> , 2016 , 352, 986-90	33.3	280
43	Vtc5, a Novel Subunit of the Vacuolar Transporter Chaperone Complex, Regulates Polyphosphate Synthesis and Phosphate Homeostasis in Yeast. <i>Journal of Biological Chemistry</i> , 2016 , 291, 22262-22275	5.4	45
42	Desymmetrization of myo-inositol derivatives by lanthanide catalyzed phosphitylation with C2-symmetric phosphites. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 2854-61	3.4	6
41	Prometabolites of 5-Diphospho-myo-inositol Pentakisphosphate. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9622-6	16.4	28

40	A Modular Synthesis of Modified Phosphoanhydrides. <i>Chemistry - A European Journal</i> , 2015 , 21, 10116-22.8	27
39	Prometabolites of 5-Diphospho-myo-inositol Pentakisphosphate. <i>Angewandte Chemie</i> , 2015 , 127, 9758-9762	3
38	The 8 Young Faculty Meeting - An Active Crowd Attuned to Modern Challenges. <i>Chimia</i> , 2015 , 69, 475-477.3	
37	VIH2 Regulates the Synthesis of Inositol Pyrophosphate InsP8 and Jasmonate-Dependent Defenses in Arabidopsis. <i>Plant Cell</i> , 2015 , 27, 1082-97	11.6 99
36	Asp1 from Schizosaccharomyces pombe binds a [2Fe-2S](2+) cluster which inhibits inositol pyrophosphate 1-phosphatase activity. <i>Biochemistry</i> , 2015 , 54, 6462-74	3.2 29
35	Rational Development of Nucleoside Diphosphate Prodrugs: DiPPro-Compounds. <i>Current Medicinal Chemistry</i> , 2015 , 22, 3933-50	4.3 21
34	Iterative Synthese von Nukleosidoligophosphaten mit Phosphoramiditen. <i>Angewandte Chemie</i> , 2014 , 126, 290-294	3.6 18
33	Phosphate esters and anhydrides--recent strategies targeting nature's favoured modifications. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 3526-30	3.9 40
32	Synthesis of densely phosphorylated bis-1,5-diphospho-myo-inositol tetrakisphosphate and its enantiomer by bidirectional P-anhydride formation. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9508-11	16.4 55
31	Elucidating diphosphoinositol polyphosphate function with nonhydrolyzable analogues. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7192-7	16.4 40
30	Diphosphoinositol Polyphosphates: Polar Stars in Cell Signaling. <i>Synlett</i> , 2014 , 25, 1494-1498	2.2 6
29	Catalytic Enantioselective Total Synthesis of (R)-Pyridovericin. <i>Synthesis</i> , 2014 , 46, 864-870	2.9 4
28	Elucidating Diphosphoinositol Polyphosphate Function with Nonhydrolyzable Analogues. <i>Angewandte Chemie</i> , 2014 , 126, 7320-7325	3.6 12
27	Synthesis of Densely Phosphorylated Bis-1,5-Diphospho-myo-Inositol Tetrakisphosphate and its Enantiomer by Bidirectional P-Anhydride Formation. <i>Angewandte Chemie</i> , 2014 , 126, 9662-9665	3.6 10
26	Iterative synthesis of nucleoside oligophosphates with phosphoramidites. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 286-9	16.4 48
25	Controlled oxygen release from pyridone endoperoxides promotes cell survival under anoxic conditions. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 10171-82	8.3 56
24	Truncated militarinone fragments identified by total chemical synthesis induce neurite outgrowth. <i>MedChemComm</i> , 2013 , 4, 135-139	5 23
23	Withanolide A: synthesis and structural requirements for neurite outgrowth. <i>Chemical Science</i> , 2013 , 4, 2851	9.4 24

22	Synthesis of unsymmetric diphospho-inositol polyphosphates. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6912-6	16.4	65
21	The 48 EUCHEMS Conference on Stereochemistry Bogenstock Conference 2013. <i>Chimia</i> , 2013 , 67, 671-673		
20	Synthesis of Unsymmetric Diphospho-Inositol Polyphosphates. <i>Angewandte Chemie</i> , 2013 , 125, 7050-7054	16.4	16
19	Catalytic enantioselective total synthesis of (+)-torrubiellone C. <i>Organic Letters</i> , 2011 , 13, 4368-70	6.2	38
18	Ein einheitlicher Ansatz zur stereoselektiven Totalsynthese von Pyridonalkaloiden und deren neuritogene Aktivität. <i>Angewandte Chemie</i> , 2011 , 123, 4308-4312	3.6	28
17	Synthese von Withanolid A, Untersuchung der neuritogenen Eigenschaften und Studien zur Sekretase-Inhibierung. <i>Angewandte Chemie</i> , 2011 , 123, 8557-8561	3.6	14
16	A unified approach for the stereoselective total synthesis of pyridone alkaloids and their neuritogenic activity. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4222-6	16.4	72
15	Synthesis of withanolide A, biological evaluation of its neuritogenic properties, and studies on secretase inhibition. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8407-11	16.4	44
14	4-Hydroxy-2-pyridone alkaloids: structures and synthetic approaches. <i>Natural Product Reports</i> , 2010 , 27, 1168-85	15.1	160
13	Totalsynthese des marinen Alkaloids Palauamin. <i>Angewandte Chemie</i> , 2010 , 122, 3034-3036	3.6	1
12	Total synthesis of the marine alkaloid palau'amine. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2972-4	16.4	9
11	Total synthesis and neuritotrophic activity of farinosone C and derivatives. <i>Organic Letters</i> , 2009 , 11, 3446-9	6.2	35
10	Intracellular trapping of cycloSal-pronucleotides: modification of prodrugs with amino acid esters. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 6592-8	8.3	20
9	Nucleoside diphosphate prodrugs. <i>Nucleic Acids Symposium Series</i> , 2008 , 83-4		5
8	Bioreversible protection of nucleoside diphosphates. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8719-22	16.4	70
7	Bioreversible Maskierung von Nucleosiddiphosphaten. <i>Angewandte Chemie</i> , 2008 , 120, 8847-8850	3.6	21
6	Intracellular trapping of cycloSal-pronucleotides by enzymatic cleavage. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007 , 26, 827-30	1.4	1
5	Second-Generation cycloSal-d4TMP Pronucleotides Bearing Esterase-Cleavable Sites – The Trapping Concept. <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 197-206	3.2	23

4	Synthesis and Properties of Fluorescent cycloSal Nucleotides Based on the Pyrimidine Nucleoside m5K and Its 2',3'-Dideoxy Analog dm5K. <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 924-931	3-2	4
3	Two bifunctional inositol pyrophosphate kinases/phosphatases control plant phosphate homeostasis		1
2	ITPK1-Dependent Inositol Polyphosphates Regulate Auxin Responses in <i>Arabidopsis thaliana</i>		4
1	ITPK1 is an InsP6/ADP phosphotransferase that controls systemic phosphate homeostasis in <i>Arabidopsis</i>		1