

Andrew M Riley

List of Publications by Year in descending order

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90
papers

2,857
citations

178989

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197947

49
g-index

101
all docs

101
docs citations

101
times ranked

2591
citing authors

#	ARTICLE	IF	CITATIONS
1	Substrate promiscuity of inositol 1,4,5-trisphosphate kinase driven by structurally-modified ligands and active site plasticity. <i>Nature Communications</i> , 2024, 15, .	13.2	2
2	Diversification in the inositol tris/tetrakisphosphate kinase (ITPK) family: crystal structure and enzymology of the outlier <i>At</i> ITPK4. <i>Biochemical Journal</i> , 2023, 480, 433-453.	3.8	4
3	Expedient synthesis and luminescence sensing of the inositol pyrophosphate cellular messenger 5-PP-InsP ₅ . <i>Chemical Science</i> , 2023, 14, 4979-4985.	7.8	2
4	A structural exposé of noncanonical molecular reactivity within the protein tyrosine phosphatase WPD loop. <i>Nature Communications</i> , 2022, 13, 2231.	13.2	9
5	Allosteric Site on SHIP2 Identified Through Fluorescent Ligand Screening and Crystallography: A Potential New Target for Intervention. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 3813-3826.	6.6	5
6	Multiple substrate recognition by yeast diadenosine and diphosphoinositol polyphosphate phosphohydrolase through phosphate clamping. <i>Science Advances</i> , 2021, 7, .	10.9	15
7	Quantal Ca ²⁺ release mediated by very few IP ₃ receptors that rapidly inactivate allows graded responses to IP ₃ . <i>Cell Reports</i> , 2021, 37, 109932.	6.3	7
8	Regioisomeric Family of Novel Fluorescent Substrates for SHIP2. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 309-315.	3.1	1
9	The inositol pyrophosphate 5-InsP ₇ drives sodium-potassium pump degradation by relieving an autoinhibitory domain of PI3K p85 _± . <i>Science Advances</i> , 2020, 6, .	10.9	20
10	Both <i>d</i> - and <i>l</i> -Glucose Polyphosphates Mimic <i>d</i> -myo-Inositol 1,4,5-Trisphosphate: New Synthetic Agonists and Partial Agonists at the Ins(1,4,5)P ₃ Receptor. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 5442-5457.	6.6	9
11	An ATP-responsive metabolic cassette comprised of inositol tris/tetrakisphosphate kinase 1 (ITPK1) and inositol pentakisphosphate 2-kinase (IPK1) buffers diphosphoinositol phosphate levels. <i>Biochemical Journal</i> , 2020, 477, 2621-2638.	3.8	42
12	Synthesis of an $\hat{\pm}$ -phosphono- $\hat{\pm}$ -difluoroacetamide analogue of the diphosphoinositol pentakisphosphate 5-InsP ₇ . <i>MedChemComm</i> , 2019, 10, 1165-1172.	3.4	10
13	Inositol hexakisphosphate increases the size of platelet aggregates. <i>Biochemical Pharmacology</i> , 2019, 161, 14-25.	4.6	9
14	Simple synthesis of ³² P-labelled inositol hexakisphosphates for study of phosphate transformations. <i>Plant and Soil</i> , 2018, 427, 149-161.	3.7	10
15	A Fluorescent Probe Identifies Active Site Ligands of Inositol Pentakisphosphate 2-Kinase. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 8838-8846.	6.6	6
16	A synthetic diphosphoinositol phosphate analogue of inositol trisphosphate. <i>MedChemComm</i> , 2018, 9, 1105-1113.	3.4	7
17	Insights into the activation mechanism of class I HDAC complexes by inositol phosphates. <i>Nature Communications</i> , 2016, 7, 11262.	13.2	185
18	A Small Molecule Inhibitor of PDK1/PLC ^β 1 Interaction Blocks Breast and Melanoma Cancer Cell Invasion. <i>Scientific Reports</i> , 2016, 6, 26142.	3.4	27

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19	Designer small molecules to target calcium signalling. <i>Biochemical Society Transactions</i> , 2015, 43, 417-425.	3.4	8
20	Synthetic tools for studying the chemical biology of InsP ₈ . <i>Chemical Communications</i> , 2015, 51, 12605-12608.	4.2	18
21	Human Genome-Wide RNAi Screen Identifies an Essential Role for Inositol Pyrophosphates in Type-I Interferon Response. <i>PLoS Pathogens</i> , 2014, 10, e1003981.	4.1	70
22	Cellular Internalisation of an Inositol Phosphate Visualised by Using Fluorescent InsP ₅ . <i>ChemBioChem</i> , 2014, 15, 57-67.	2.8	16
23	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.	6.2	58
24	Intramolecular acid-base and coordination properties towards Na ⁺ and Mg ²⁺ of myo-inositol 1,3,4,5,6-pentakisphosphate: a structural approach to biologically relevant species. <i>Dalton Transactions</i> , 2013, 42, 6021-6032.	3.4	9
25	Regioselective Opening of <i>myo</i> -Inositol Orthoesters: Mechanism and Synthetic Utility. <i>Journal of Organic Chemistry</i> , 2013, 78, 2275-2288.	3.3	14
26	Subtype-selective regulation of IP3 receptors by thimerosal via cysteine residues within the IP3-binding core and suppressor domain. <i>Biochemical Journal</i> , 2013, 451, 177-184.	3.8	22
27	Stimulation of Inositol 1,4,5-Trisphosphate (IP3) Receptor Subtypes by Analogues of IP3. <i>PLoS ONE</i> , 2013, 8, e54877.	2.5	25
28	Stimulation of Inositol 1,4,5-Trisphosphate (IP3) Receptor Subtypes by Adenophostin A and Its Analogues. <i>PLoS ONE</i> , 2013, 8, e58027.	2.5	16
29	Fibrinogen—A Possible Extracellular Target for Inositol Phosphates. <i>Messenger (Los Angeles, Calif.)</i> Tj ETQq1 1 0.784314 rgBT /Over 0.1 g		
30	First synthetic analogues of diphosphoinositol polyphosphates: interaction with PP-InsP5 kinase. <i>Chemical Communications</i> , 2012, 48, 11292.	4.2	30
31	A Synthetic Polyphosphoinositide Headgroup Surrogate in Complex with SHIP2 Provides a Rationale for Drug Discovery. <i>ACS Chemical Biology</i> , 2012, 7, 822-828.	3.6	35
32	Contribution of Phosphates and Adenine to the Potency of Adenophostins at the IP ₃ Receptor: Synthesis of All Possible Bisphosphates of Adenophostin A. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 1706-1720.	6.6	22
33	Determination of <i>neo</i> - and <i>d</i> -chiro-Inositol Hexakisphosphate in Soils by Solution ³¹ P NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2012, 46, 4994-5002.	10.5	124
34	Response to Comment on "Determination of <i>neo</i> - and <i>d</i> -chiro-Inositol Hexakisphosphate in Soils by Solution ³¹ P NMR Spectroscopy". <i>Environmental Science & Technology</i> , 2012, 46, 11480-11481.	10.5	1
35	Binding of Inositol 1,4,5-trisphosphate (IP ₃) and Adenophostin A to the N-Terminal region of the IP ₃ Receptor: Thermodynamic Analysis Using Fluorescence Polarization with a Novel IP ₃ Receptor Ligand. <i>Molecular Pharmacology</i> , 2010, 77, 995-1004.	2.3	37
36	Adenophostins. <i>Current Topics in Membranes</i> , 2010, 66, 209-233.	2.0	25

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37	The behaviour of inositol 1,3,4,5,6-pentakisphosphate in the presence of the major biological metal cations. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 1001-1013.	2.8	15
38	Synthetic partial agonists reveal key steps in IP3 receptor activation. <i>Nature Chemical Biology</i> , 2009, 5, 631-639.	8.0	69
39	Activation of IP3 receptors by synthetic bisphosphate ligands. <i>Chemical Communications</i> , 2009, , 1204.	4.2	27
40	Rapid and efficient routes to phosphatidylinositol 3,4,5-trisphosphates via myo-inositol orthobenzoate. <i>Tetrahedron Letters</i> , 2007, 48, 1923-1926.	1.4	12
41	Regioselective hydrolysis of myo-inositol 1,3,5-orthobenzoate via a 1,2-bridged 2-phenyl-3-dioxolan-2-ylidinium ion provides a rapid route to the anticancer agent Ins(1,3,4,5,6)P5. <i>Chemical Communications</i> , 2006, , 2989-2991.	4.2	28
42	Chiral desymmetrisation of myo-inositol 1,3,5-orthobenzoate gives rapid access to precursors for second messenger analogues. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 171-174.	1.7	22
43	scyllo -inositol Pentakisphosphate as an Analogue of myo -inositol 1,3,4,5,6-Pentakisphosphate: Chemical Synthesis, Physicochemistry and Biological Applications. <i>ChemBioChem</i> , 2006, 7, 1114-1122.	2.8	23
44	Interaction of the Catalytic Domain of Inositol 1,4,5-Trisphosphate 3-Kinase A with Inositol Phosphate Analogues. <i>ChemBioChem</i> , 2005, 6, 1449-1457.	2.8	13
45	Regulation of Casein Kinase-2 (CK2) Activity by Inositol Phosphates. <i>Journal of Biological Chemistry</i> , 2004, 279, 43403-43410.	3.5	45
46	Inositol pentakisphosphate promotes apoptosis through the PI 3-K/Akt pathway. <i>Oncogene</i> , 2004, 23, 1754-1765.	5.9	91
47	Dimers of d-myo-Inositol 1,4,5-Trisphosphate: Design, Synthesis, and Interaction with Ins(1,4,5)P3 Receptors. <i>Bioconjugate Chemistry</i> , 2004, 15, 278-289.	3.8	28
48	2-O-(2-Aminoethyl)-myo-inositol 1,4,5-trisphosphate as a novel ligand for conjugation: physicochemical properties and synthesis of a new Ins(1,4,5)P3 affinity matrix. <i>Biochemical and Biophysical Research Communications</i> , 2004, 318, 444-452.	2.2	6
49	Inositol trisphosphate analogues selective for types I and II inositol trisphosphate receptors exert differential effects on vasopressin-stimulated Ca ²⁺ inflow and Ca ²⁺ release from intracellular stores in rat hepatocytes. <i>Biochemical Journal</i> , 2004, 381, 519-526.	3.8	12
50	A Definitive Synthesis of D-myo-Inositol 1,4,5,6-Tetrakisphosphate and Its Enantiomer D-myo-Inositol 3,4,5,6-Tetrakisphosphate from a Novel Butane-2,3-diacetal-Protected Inositol. <i>Chemistry - A European Journal</i> , 2003, 9, 6207-6214.	3.9	12
51	Synthesis and Ca ²⁺ -Mobilizing Activity of Purine-Modified Mimics of Adenophostin A: A Model for the Adenophostin-Ins(1,4,5)P3 Receptor Interaction. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 4860-4871.	6.6	40
52	Identification of Mammalian Vps24p as an Effector of Phosphatidylinositol 3,5-Bisphosphate-dependent Endosome Compartmentalization. <i>Journal of Biological Chemistry</i> , 2003, 278, 38786-38795.	3.5	154
53	Interactions of Inositol 1,4,5-Trisphosphate (IP3) Receptors with Synthetic Poly(ethylene glycol)-linked Dimers of IP3 Suggest Close Spacing of the IP3-binding Sites. <i>Journal of Biological Chemistry</i> , 2002, 277, 40290-40295.	3.5	27
54	Adenophostin A and ribophostin, but not inositol 1,4,5-trisphosphate or manno-adenophostin, activate the Ca ²⁺ release-activated Ca ²⁺ current, ICRAC, in weak intracellular Ca ²⁺ buffer. <i>Biochemical Journal</i> , 2002, 361, 133.	3.8	10

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55	Determinants of adenophostin A binding to inositol trisphosphate receptors. <i>Biochemical Journal</i> , 2002, 367, 113-120.	3.8	29
56	Adenophostin A and ribophostin, but not inositol 1,4,5-trisphosphate or manno-adenophostin, activate the Ca ²⁺ release-activated Ca ²⁺ current, ICRAC, in weak intracellular Ca ²⁺ buffer. <i>Biochemical Journal</i> , 2002, 361, 133-141.	3.8	11
57	Regulation of Ins(3,4,5,6)P ₄ Signaling by a Reversible Kinase/Phosphatase. <i>Current Biology</i> , 2002, 12, 477-482.	4.0	60
58	Synthesis of glucopyranoside-based ligands for d-myo-inositol 1,4,5-trisphosphate receptors. <i>Carbohydrate Research</i> , 2002, 337, 1067-1082.	2.4	8
59	Synthesis and Biological Activity of d- and l-chiro-Inositol 2,3,4,5-Tetrakisphosphate: Design of a Novel and Potent Inhibitor of Ins(3,4,5,6)P ₄ 1-Kinase/Ins(1,3,4)P ₃ 5/6-Kinase. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 2984-2989.	6.6	17
60	Bicyclic Analogues of d-myo-Inositol 1,4,5-Trisphosphate Related to Adenophostin A: Synthesis and Biological Activity. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 2108-2117.	6.6	22
61	Structural Determinants of Adenophostin A Activity at Inositol Trisphosphate Receptors. <i>Molecular Pharmacology</i> , 2001, 59, 1206-1215.	2.3	55
62	Selective recognition of inositol phosphates by subtypes of the inositol trisphosphate receptor. <i>Biochemical Journal</i> , 2001, 355, 59.	3.8	39
63	Selective recognition of inositol phosphates by subtypes of the inositol trisphosphate receptor. <i>Biochemical Journal</i> , 2001, 355, 59-69.	3.8	46
64	Xylopyranoside-based agonists of d-myo-inositol 1,4,5-trisphosphate receptors: synthesis and effect of stereochemistry on biological activity. <i>Carbohydrate Research</i> , 2001, 332, 53-66.	2.4	21
65	C-Glycoside based mimics of d-myo-inositol 1,4,5-trisphosphate. <i>Carbohydrate Research</i> , 2000, 329, 7-16.	2.4	18
66	InsP ₄ facilitates store-operated calcium influx by inhibition of InsP ₃ 5-phosphatase. <i>Nature</i> , 2000, 408, 735-740.	36.2	99
67	<i>l</i> -Inositol 1,4,6-Trisphosphorothioate and <i>l</i> -Inositol 1,3,6-Trisphosphorothioate: Partial Agonists with Very Low Intrinsic Activity at the Platelet <i>l</i> -Inositol 1,4,5-Trisphosphate Receptor. <i>Molecular Pharmacology</i> , 2000, 57, 595-601.	2.3	9
68	Synthesis of adenophostin A and congeners modified at glucose. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000, , 1935-1947.	1.2	17
69	Poly(ethylene glycol)-linked dimers of d-myo-inositol 1,4,5-trisphosphate. <i>Chemical Communications</i> , 2000, , 983-984.	4.2	6
70	Acylophostin: A Ribose-Modified Analog of Adenophostin A with High Affinity for Inositol 1,4,5-Trisphosphate Receptors and pH-Dependent Efficacy. <i>Molecular Pharmacology</i> , 1999, 55, 109-117.	2.3	26
71	Structural and Biochemical Evaluation of the Interaction of the Phosphatidylinositol 3-Kinase p85 [±] Src Homology 2 Domains with Phosphoinositides and Inositol Polyphosphates. <i>Journal of Biological Chemistry</i> , 1999, 274, 15678-15685.	3.5	18
72	Inositol 1,3,4-Trisphosphate Acts in Vivo as a Specific Regulator of Cellular Signaling by Inositol 3,4,5,6-Tetrakisphosphate. <i>Journal of Biological Chemistry</i> , 1999, 274, 18973-18980.	3.5	49

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73	Bicyclic analogues of inositol 1,4,5-trisphosphate based upon adenophostin A. <i>Tetrahedron Letters</i> , 1999, 40, 2213-2216.	1.4	18
74	Simplification of adenophostin A defines a minimal structure for potent glucopyranoside-based mimics of 1,4,5-trisphosphate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1999, 9, 453-458.	2.3	31
75	Structure of the PH domain from Bruton's tyrosine kinase in complex with inositol 1,3,4,5-tetrakisphosphate. <i>Structure</i> , 1999, 7, 449-460.	3.4	204
76	A concise synthesis of neo-inositol. <i>Carbohydrate Research</i> , 1998, 314, 277-281.	2.4	39
77	1- α -Phosphatidyl-d-myo-inositol 3,5-bisphosphate: total synthesis of a new inositol phospholipid via myo-inositol orthoacetate. <i>Tetrahedron Letters</i> , 1998, 39, 6769-6772.	1.4	21
78	Rapid and practical synthesis of D-myo-inositol 1,4,5-trisphosphate. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998, , 1367-1368.	0.9	28
79	Investigation of the intramolecular acid-base properties of d-myo-inositol 1,3,4,5-tetrakisphosphate and dl-myo-inositol 1,2,4,5-tetrakisphosphate. <i>Chemical Communications</i> , 1997, , 625-626.	4.2	16
80	Disaccharide Polyphosphates Based upon Adenophostin A Activate Hepatic d-myo-Inositol 1,4,5-Trisphosphate Receptors. <i>Biochemistry</i> , 1997, 36, 12780-12790.	2.6	71
81	Rapid Synthesis of the Enantiomers of myo-Inositol-1,3,4,5-tetrakisphosphate by Direct Chiral Desymmetrization of myo-Inositol Orthoformate. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1472-1474.	4.9	39
82	Einfache Synthese der Enantiomere von myo-Inositol-1,3,4,5-tetrakisphosphat durch direkte chirale Desymmetrisierung von myo-Inositolorthoformiat. <i>Angewandte Chemie</i> , 1997, 109, 1583-1585.	2.1	3
83	Chiral Cyclopentane-Based Mimics of d-myo-Inositol 1,4,5-Trisphosphate from d-Glucose. <i>Journal of Organic Chemistry</i> , 1996, 61, 7719-7726.	3.3	40
84	6-Deoxy-6-hydroxymethyl scyllo-inositol 1,2,4-trisphosphate: A potent agonist at the inositol 1,4,5-trisphosphate receptor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1996, 6, 2197-2200.	2.3	21
85	Synthesis of Novel Polyphosphate Analogues of Inositol 1,4,5-Trisphosphate. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1996, 111, 73-73.	1.6	0
86	Myo-inositol 1,4,6-trisphosphorothioate and myo-inositol 1,3,4-trisphosphorothioate: New synthetic Ca ²⁺ -mobilising partial agonists at the inositol 1,4,5-trisphosphate receptor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1995, 5, 203-208.	2.3	14
87	Synthesis of a Conformationally Restricted Cyclic Phosphate Analog of Inositol Triphosphate. <i>Journal of Organic Chemistry</i> , 1995, 60, 4970-4971.	3.3	13
88	Pentagon IP3: Synthesis of a Ring-Contracted Mimic of a Second Messenger. <i>Journal of the American Chemical Society</i> , 1995, 117, 3300-3301.	14.6	10
89	Unambiguous Total Synthesis of the Enantiomers of myo-Inositol 1,3,4-Trisphosphate: 1L-myo-Inositol 1,3,4-Trisphosphate Mobilizes Intracellular Ca ²⁺ in Limulus Photoreceptors. <i>Journal of Medicinal Chemistry</i> , 1994, 37, 3918-3927.	6.6	28
90	Crystal Structure and Enzymology of Solanum tuberosum Inositol Tris/Tetrakisphosphate Kinase 1 (StITPK1). <i>Biochemistry</i> , 0, , .	2.6	0