

Peter J Duggan

List of Publications by Year in descending order

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91
papers

1,823
citations

236833

25
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315616

38
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100
all docs

100
docs citations

100
times ranked

1744
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemistry of \hat{I}^2 -(Acyloxy)alkyl and \hat{I}^2 -(Phosphatoxy)alkyl Radicals and Related Species: \hat{I}^2 Radical and Radical Ionic Migrations and Fragmentations of Carbon- \hat{I}^2 Oxygen Bonds. <i>Chemical Reviews</i> , 1997, 97, 3273-3312.	23.0	137
2	Transport of Alkali Halides through a Liquid Organic Membrane Containing a Ditopic Salt-Binding Receptor. <i>Inorganic Chemistry</i> , 2004, 43, 5902-5907.	1.9	104
3	Naturally occurring polyphenolic inhibitors of amyloid beta aggregation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3108-3112.	1.0	76
4	Boron acids as protective agents and catalysts in synthesis. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 1325-1339.	1.3	66
5	Synthesis and biological evaluation of nonpeptide mimetics of \hat{I}^2 -conotoxin GVIA. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 4025-4037.	1.4	61
6	Mechanism of facilitated saccharide transport through plasticized cellulose triacetate membranes. <i>Journal of Membrane Science</i> , 2001, 194, 165-175.	4.1	60
7	Selective fructose transport through supported liquid membranes containing diboronic acid or conjugated monoboronic acid-quaternary ammonium carriers. <i>Tetrahedron</i> , 1999, 55, 2857-2864.	1.0	59
8	Synthesis, Structure, and Biological Applications of \hat{I}^2 -Fluorinated \hat{I}^2 -Amino Acids and Derivatives. <i>Chemistry and Biodiversity</i> , 2012, 9, 2410-2441.	1.0	57
9	Highly Fructose Selective Transport Promoted by Boronic Acids Based on a Pentaerythritol Core. <i>Organic Letters</i> , 2001, 3, 917-920.	2.4	53
10	Cyclodextrin-B12, a potential enzyme-coenzyme mimic.. <i>Journal of the American Chemical Society</i> , 1992, 114, 3982-3983.	6.6	50
11	Competitive transport of reducing sugars through a lipophilic membrane facilitated by aryl boron acids. <i>Tetrahedron</i> , 1997, 53, 3669-3678.	1.0	49
12	The quasi-homo-anomeric interaction in substituted tetrahydropyranyl radicals: Diastereoselectivity. <i>Tetrahedron</i> , 1998, 54, 6919-6928.	1.0	45
13	Nucleotide carrier mixture with transport selectivity for ribonucleoside-5 \hat{I}^2 -phosphates. <i>Tetrahedron Letters</i> , 1996, 37, 6303-6306.	0.7	40
14	Remarkably selective saccharide recognition by solid-supported peptide boronic acids. <i>Tetrahedron</i> , 2009, 65, 109-114.	1.0	35
15	Fructose-Permeable Liquid Membranes Containing Boronic Acid Carriers. <i>Australian Journal of Chemistry</i> , 2004, 57, 291.	0.5	34
16	Enzymatic synthesis of (6R)- and (6S)-fluoroshikimic acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1995, 5, 2347-2352.	1.0	32
17	Through-bond transmission of substituent effects in the bicyclo[2.2.2]octane ring system: solvolysis of 4-deuterio- and 4-metalloidal (M(CH ₃) ₃ , M = silicon, germanium and tin)-substituted bicyclo[2.2.2]oct-1-yl p-nitrobenzenesulfonates and methanesulfonates. <i>Journal of the American Chemical Society</i> , 1990, 112, 3140-3145.	6.6	30
18	The quasi-homo-anomeric interaction in substituted tetrahydropyranyl radicals: Structure and kinetics of formation. <i>Tetrahedron</i> , 1998, 54, 4623-4632.	1.0	30

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19	The Preparation of Solid-Supported Peptide Boronic Acids Derived from 4-Borono-L-phenylalanine and their Affinity for Alizarin. <i>Australian Journal of Chemistry</i> , 2007, 60, 829.	0.5	29
20	Synthesis and biological evaluation of anthranilamide-based non-peptide mimetics of α -conotoxin GVIA. <i>Tetrahedron</i> , 2006, 62, 7284-7292.	1.0	28
21	Bioactive Mimetics of Conotoxins and other Venom Peptides. <i>Toxins</i> , 2015, 7, 4175-4198.	1.5	28
22	The nature of field effects and their fall-off with distance: The acidity of substituted quinuclidinium and bicyclooctylammonium ions. <i>Journal of Physical Organic Chemistry</i> , 1991, 4, 353-360.	0.9	27
23	Cavitand Boronic Acids Mediate Highly Selective Fructose Transport. <i>Organic Letters</i> , 2002, 4, 3489-3491.	2.4	26
24	Carboxymethylated- β -casein: A convenient tool for the identification of polyphenolic inhibitors of amyloid fibril formation. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 222-228.	1.4	26
25	Diastereoselective Synthesis of Aliphatic β , β -Difluoro- γ -Amino Esters via a Sonocatalyzed Reformatsky Reaction. <i>Organic Letters</i> , 2012, 14, 182-185.	2.4	26
26	Enantioselective Synthesis of β -Fluoro- γ -amino Esters: Synthesis of Enantiopure, Orthogonally Protected β -Fluoro- γ -lysine. <i>Journal of Organic Chemistry</i> , 2010, 75, 7365-7372.	1.7	25
27	The mechanism of the β -acyloxyalkyl radical rearrangement. Part 2: β -acyloxytetrahydropyranyl radicals. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1993, , 1673-1679.	0.9	24
28	A new diastereoselective aza-allyl conjugate addition- α -Michael addition- α -ring closure reaction sequence and its application in the construction of six contiguous stereogenic centres. <i>Chemical Communications</i> , 2007, , 3580.	2.2	23
29	Solid state structures of the chiral lithium amide complexes (S)- $[(Ph(Me)CH)(PhCH_2)NLi\cdot thf]_2$ and (R)- $[(Ph(Me)CH)(PhCH_2)NLi\cdot pmdta]_2$. <i>Dalton Transactions RSC</i> , 2000, , 1937-1940.	2.3	22
30	Improving the membrane permeability of sialic acid derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 1126-1133.	1.4	22
31	Low molecular weight non-peptide mimics of α -conotoxin GVIA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 2763-2765.	1.0	22
32	The mechanism of the β -acyloxyalkyl radical rearrangement: kinetic and ^{18}O -labelling studies. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1992, , 1777-1783.	0.9	21
33	The Mechanism of the β -(Acyloxy)alkyl Radical Rearrangement: α Substituent and Solvent Effects. <i>Journal of the American Chemical Society</i> , 1996, 118, 12838-12839.	6.6	20
34	α -Conotoxin GVIA Mimetics that Bind and Inhibit Neuronal Cav2.2 Ion Channels. <i>Marine Drugs</i> , 2012, 10, 2349-2368.	2.2	20
35	α -Conotoxins and Approaches to Their Non-Peptide Mimetics. <i>Australian Journal of Chemistry</i> , 2004, 57, 179.	0.5	19
36	Crystal structures of (R,R)- $\{[Ph(Me)CH]_2NLi\cdot pmdta\}$ and $\{[PhC(\alpha-CH_2)NH]Na\cdot pmdta\}_2$: alkali metal amides derived from (R,R)-bis(β -methylbenzyl)amine. <i>Chemical Communications</i> , 2001, , 53-54.	2.2	18

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37	Enhanced Anti-Fungal Activity of the Organo-Soluble Borate Ester, Tetra-n-butylammonium Bis(ortho-hydroxymethylphenolato)borate. Australian Journal of Chemistry, 2005, 58, 21.	0.5	18
38	Enhanced fructose, glucose and lactose transport promoted by a lipophilic 2-(aminomethyl)-phenylboronic acid. Tetrahedron, 2008, 64, 7122-7126.	1.0	18
39	Determination of the P1 ² , P2 ² and P3 ² subsite-specificity of factor Xa. International Journal of Biochemistry and Cell Biology, 2003, 35, 221-225.	1.2	17
40	γ-Conotoxin GVIA mimetics based on an anthranilamide core: Effect of variation in ammonium side chain lengths and incorporation of fluorine. Bioorganic and Medicinal Chemistry, 2009, 17, 6659-6670.	1.4	17
41	The Chemistry of Cannabis and Cannabinoids. Australian Journal of Chemistry, 2021, 74, 369-387.	0.5	17
42	Quaternary Ammonium Arylspiroborate Esters as Organo-Soluble, Environmentally Benign Wood Protectants. Australian Journal of Chemistry, 2005, 58, 901.	0.5	16
43	Highly selective lipophilic diboronic acid that transports fructose as the tridentate 2,3,6-tri-O-acetyl-β-D-fructofuranose ester. Tetrahedron, 2003, 59, 9075-9082.	1.0	15
44	The binding properties of cyclophane dimers. Tetrahedron Letters, 1995, 36, 2707-2710.	0.7	14
45	Amido-azaallyl transformation in sodium amide complexes of (S)-1-(methylbenzyl)benzylamine. Dalton Transactions RSC, 2000, , 2505-2507.	2.3	13
46	Inhibition of human N- and T-type calcium channels by an ortho-phenoxyanilide derivative, MONIRO-1. British Journal of Pharmacology, 2018, 175, 2284-2295.	2.7	13
47	Phenylboronic acid as a labile protective agent: the selective derivatisation of 1,2,3-triols. Journal of the Chemical Society, Perkin Transactions 1, 2001, , 1098-1102.	1.3	12
48	O1,O2:O3,O5-Bis(phenylboranediyl)-β-D-glucofuranose. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o1733-o1735.	0.2	12
49	Approaches to Selective Peptidic Inhibitors of Factor Xa. Chemical Biology and Drug Design, 2006, 68, 11-19.	1.5	11
50	Wood Protection Properties of Quaternary Ammonium Arylspiroborate Esters Derived from Naphthalene 2,3-Diol, 2,2'-Biphenol and 3-Hydroxy-2-naphthoic Acid. Australian Journal of Chemistry, 2010, 63, 1423.	0.5	11
51	The Synthesis of a Cubane-Substituted Dipeptide. Australian Journal of Chemistry, 2012, 65, 690.	0.5	11
52	Inhibition of N-Type Calcium Channels by Fluorophenoxyanilide Derivatives. Marine Drugs, 2015, 13, 2030-2045.	2.2	11
53	Molecular Markers for Pyrethrin Autoxidation in Stored Pyrethrum Crop: Analysis and Structure Determination. Journal of Agricultural and Food Chemistry, 2016, 64, 7134-7141.	2.4	11
54	Synthesis and evaluation of aminobenzothiazoles as blockers of N- and T-type calcium channels. Bioorganic and Medicinal Chemistry, 2018, 26, 3046-3059.	1.4	11

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55	Fluorinated β^2 - and β^3 -Amino Acids: Synthesis and Inhibition of β -Chymotrypsin. <i>Synthesis</i> , 2010, 2010, 1845-1859.	1.2	10
56	Ring expansion reactions of 4-amino-1,1-dioxo-[1,2,3,5]-thiazotriazoles. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 472-477.	1.5	8
57	Exploiting the Biginelli reaction: nitrogen-rich pyrimidine-based teracyclic β -helix mimetics. <i>Tetrahedron</i> , 2016, 72, 1151-1160.	1.0	8
58	Dichotomy of mechanism in the rearrangement of β^2 -(acyloxy)alkyl radicals. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, .	2.0	7
59	Diffusion NMR Studies of Diol-boronates: Implications for Membrane Transport Carrier Design. <i>Supramolecular Chemistry</i> , 2004, 16, 87-90.	1.5	7
60	Quaternary Ammonium Spiroborate Esters and Mixed Anhydrides Derived from Aliphatic β -Hydroxy Acids and Diacids and their Wood Protection Properties. <i>Australian Journal of Chemistry</i> , 2011, 64, 1417.	0.5	7
61	An iterative in silico and modular synthetic approach to aqueous soluble teracyclic β -helix mimetics. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 4432.	1.5	7
62	The Preparation of Fluorescence-Quenched Probes for Use in the Characterization of Human Factor Xa Substrate Binding Domains. <i>Molecules</i> , 2004, 9, 427-439.	1.7	6
63	Synthesis and Cav2.2 Binding Data for Non-Peptide Mimetics of β -Conotoxin GVIA based on a 5-Amino-Anthranilamide Core. <i>Australian Journal of Chemistry</i> , 2008, 61, 11.	0.5	6
64	The binding of boronated peptides to low affinity mammalian saccharides. <i>Peptide Science</i> , 2018, 110, e23101.	1.0	6
65	Crystal and solution structures of 25,27-diethoxycarbonylmethoxy-26,28-dimethoxy-t-butylcalix[4]arene. <i>Tetrahedron Letters</i> , 2000, 41, 3165-3168.	0.7	5
66	Selective Fructose Transport Mediated by Di-Boronic Acids Derived from Neopentyl Glycol. <i>Australian Journal of Chemistry</i> , 2003, 56, 17.	0.5	5
67	Stereoselective Synthesis of β^2 -Amino- β -Fluoro Esters via Diastereoselective Fluorination of Enantiopure β^2 -Amino Enolates. <i>Synlett</i> , 2004, 2004, 0791-0794.	1.0	5
68	Glycosylated Reversible Addition-Fragmentation Chain Transfer Polymers with Varying Polyethylene Glycol Linkers Produce Different Short Interfering RNA Uptake, Gene Silencing, and Toxicity Profiles. <i>Biomacromolecules</i> , 2017, 18, 4099-4112.	2.6	5
69	An electrochemical study to model the chorismate synthase reaction. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1996, 6, 1285-1288.	1.0	4
70	The Selective Silylation of D-Mannitol Assisted by Phenylboronic Acid and the Solid State and Solution Structures of the Intermediate 1,6-bis(silyl) bis(phenylboronates). <i>Journal of Carbohydrate Chemistry</i> , 2003, 22, 867-879.	0.4	4
71	Lipase-Catalyzed 1,6-Acylation of D-Mannitol. <i>Australian Journal of Chemistry</i> , 2004, 57, 741.	0.5	4
72	Wood Protection Properties of Quaternary Ammonium Spiroborate Esters Derived from Alkyl Tartrates. <i>Australian Journal of Chemistry</i> , 2011, 64, 495.	0.5	4

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73	Reduction Chemistry of Natural Pyrethrins and Preliminary Insecticidal Activity of Reduced Pyrethrins. Australian Journal of Chemistry, 2021, 74, 268.	0.5	4
74	The neuronal calcium ion channel activity of constrained analogues of MONIRO-1. Bioorganic and Medicinal Chemistry, 2020, 28, 115655.	1.4	3
75	Inhibition of N-type calcium ion channels by tricyclic antidepressants – experimental and theoretical justification for their use for neuropathic pain. RSC Medicinal Chemistry, 2022, 13, 183-195.	1.7	3
76	Methyl 2-(3,5-dichlorophenyl)-5-dimethylamino-3-methyl-1,1-dioxo-1,2,3,4-tetrahydro-1H-6,2,4,6-thiazine-3-carboxylate. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o2694-o2695.		2
77	(4-Bromophenyl)(5-dimethylamino-1,1-dioxo-2-phenyl-1,2-dihydro-1H-6,2,4,6-thiazin-3-yl)methanone. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o3794-o3796.	0.2	2
78	STAUDINGER AND RUZICKA'S ALTERED PYRETHROLONE: THE CYCLOPENTADIENONE DIMERS DERIVED FROM PYRETHRIN I. Acta Horticulturae, 2015, , 181-190.	0.1	2
79	The binding of boronated peptides to low affinity mammalian saccharides. Peptide Science, 2018, , e23101.	1.0	2
80	1,6-Dibenzoyloxy-2:4,3:5-O2:O4,O3:O5-bis(phenylboronoyloxy)-D-mannitol. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o372-o373.	0.2	1
81	Foreword to Professor Athelstan L. J. Beckwith Special Issue. Australian Journal of Chemistry, 2011, 64, 355.	0.5	1
82	Concise Synthesis of Enantiomerically Pure (1'S,2'R)- and (1'R,2'S)-2S-Amino-3-(2'-aminomethyl-cyclopropyl)propionic Acid: Two E-Diastereoisomers of 4,5-Methano-L-lysine. Australian Journal of Chemistry, 2013, 66, 1105.	0.5	1
83	The Synthesis of Enantiopure $\hat{\pm}$ -Fluoro and $\hat{\pm}$, $\hat{\pm}$ -Difluoro- $\hat{1}^2$ 3-Arginine Derivatives. Australian Journal of Chemistry, 2014, 67, 997.	0.5	1
84	Cannabis and Cannabinoids. Australian Journal of Chemistry, 2021, 74, 367.	0.5	1
85	D-Mannitol-1,2,6-tribenzoate. Acta Crystallographica Section E: Structure Reports Online, 2001, 57, o1118-o1119.	0.2	0
86	Methyl (RS)-[1-hydroxy-1-(3-nitrophenyl)-3-oxo-1,3-dihydroisoindol-2-yl]acetate. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, o1958-o1959.	0.2	0
87	$\hat{\%}$ -Conotoxins and Approaches to Their Non-Peptide Mimetics.. ChemInform, 2004, 35, no.	0.1	0
88	Fructose-Permeable Liquid Membranes Containing Boronic Acid Carriers. ChemInform, 2004, 35, no.	0.1	0
89	DETERMINATION OF PYRETHROSIN LEVELS IN REFINED NATURAL PYRETHRIN EXTRACTS. Acta Horticulturae, 2015, , 171-179.	0.1	0
90	Frontiers in Organic Chemistry – Recent Advances, Future Directions, Multidisciplinary Interactions. Australian Journal of Chemistry, 2004, 57, 279.	0.5	0

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91	Peptide-Boronic Acid Libraries for Saccharide Recognition. , 2013, , .		0