

Michael C Pirrung

List of Publications by Citations

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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.

81
papers

3,252
citations

30
h-index

56
g-index

167
ext. papers

3,516
ext. citations

6.8
avg, IF

5.57
L-index

#	Paper	IF	Citations
81	How to make a DNA chip. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 1276-89	16.4	391
80	Multicomponent reactions are accelerated in water. <i>Journal of the American Chemical Society</i> , 2004 , 126, 444-5	16.4	359
79	Acceleration of organic reactions through aqueous solvent effects. <i>Chemistry - A European Journal</i> , 2006 , 12, 1312-7	4.8	316
78	Spatially Addressable Combinatorial Libraries. <i>Chemical Reviews</i> , 1997 , 97, 473-488	68.1	134
77	Rhodium chemzymes: Michaelis-Menten kinetics in dirhodium(II) carboxylate-catalyzed carbenoid reactions. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1014-23	16.4	115
76	Aqueous medium effects on multi-component reactions. <i>Tetrahedron</i> , 2005 , 61, 11456-11472	2.4	113
75	Combinatorial optimization of isatin-beta-thiosemicarbazones as anti-poxvirus agents. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 3045-50	8.3	96
74	Inhibition of the antibacterial target UDP-(3-O-acyl)-N-acetylglucosamine deacetylase (LpxC): isoxazoline zinc amidase inhibitors bearing diverse metal binding groups. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 4359-70	8.3	90
73	Rhodium-Mediated Dipolar Cycloaddition of Diazoquinolinediones. <i>Journal of Organic Chemistry</i> , 1999 , 64, 3642-3649	4.2	88
72	High-throughput catch-and-release synthesis of oxazoline hydroxamates. Structure-activity relationships in novel inhibitors of Escherichia coli LpxC: in vitro enzyme inhibition and antibacterial properties. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1575-86	16.4	84
71	Versatile, fragrant, convertible isonitriles. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11772-3	16.4	73
70	Hydrophobicity and mixing effects on select heterogeneous, water-accelerated synthetic reactions. <i>Journal of Organic Chemistry</i> , 2008 , 73, 8723-30	4.2	71
69	Photoremovable Protecting Groups for Phosphorylation of Chiral Alcohols. Asymmetric Synthesis of Phosphotriesters of (-)-3 β -5-Dimethoxybenzoic Acid. <i>Journal of Organic Chemistry</i> , 1994 , 59, 3890-3897	4.2	67
68	Multicomponent reactions of convertible isonitriles. <i>Journal of Organic Chemistry</i> , 2009 , 74, 4110-7	4.2	64
67	Methyl scanning: total synthesis of demethylasterriquinone B1 and derivatives for identification of sites of interaction with and isolation of its receptor(s). <i>Journal of the American Chemical Society</i> , 2005 , 127, 4609-24	16.4	61
66	Inhibition of Cdc25 phosphatases by indolyldihydroxyquinones. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 2580-8	8.3	59
65	Histidine kinases and two-component signal transduction systems. <i>Chemistry and Biology</i> , 1999 , 6, R167-75		59

64	Dimethoxybenzoin Carbonates: Photochemically-Removable Alcohol Protecting Groups Suitable for Phosphoramidite-Based DNA Synthesis. <i>Journal of Organic Chemistry</i> , 1995 , 60, 1116-1117	4.2	55
63	Modular synthesis of candidate indole-based insulin mimics by Claisen rearrangement. <i>Organic Letters</i> , 2008 , 10, 1151-4	6.2	50
62	Synthesis of 2,5-dihydroxy-3-(indol-3-yl)benzoquinones by acid-catalyzed condensation of indoles with 2,5-dichlorobenzoquinone. <i>Journal of Organic Chemistry</i> , 2002 , 67, 8374-88	4.2	45
61	Total synthesis of syringolin A and B. <i>Organic Letters</i> , 2010 , 12, 2402-5	6.2	44
60	Lactam Synthesis by Ugi Reaction of β -Keto Acids in Aqueous Solution. <i>Synlett</i> , 2004 , 2004, 1425-1427	2.2	44
59	Synthesis of 3-indolyl-2,5-dihydroxybenzoquinones. <i>Organic Letters</i> , 2001 , 3, 365-7	6.2	41
58	Photochemically removable silyl protecting groups. <i>Journal of the American Chemical Society</i> , 2001 , 123, 3638-43	16.4	39
57	Oxazoline synthesis from hydroxyamides by resin capture and ring-forming release. <i>ACS Combinatorial Science</i> , 2000 , 2, 675-80		38
56	Ethylene receptor antagonists: strained alkenes are necessary but not sufficient. <i>Chemistry and Biology</i> , 2008 , 15, 313-21		37
55	Modular, parallel synthesis of an illudinoid combinatorial library. <i>Organic Letters</i> , 2003 , 5, 1983-5	6.2	34
54	Total syntheses of demethylasterriquinone B1, an orally active insulin mimetic, and demethylasterriquinone A1. <i>Journal of Organic Chemistry</i> , 2002 , 67, 7919-26	4.2	34
53	Dipolar cycloaddition of rhodium-generated carbonyl ylides with p-quinones. <i>Organic Letters</i> , 2000 , 2, 353-5	6.2	34
52	Inverse Phosphotriester DNA Synthesis Using Photochemically-Removable Dimethoxybenzoin Phosphate Protecting Groups. <i>Journal of Organic Chemistry</i> , 1996 , 61, 2129-2136	4.2	32
51	Sensitized two-photon photochemical deprotection. <i>Chemical Communications</i> , 2010 , 46, 5313-5	5.8	29
50	(19)F-encoded combinatorial libraries: discovery of selective metal binding and catalytic peptoids. <i>ACS Combinatorial Science</i> , 2002 , 4, 329-44		25
49	Pentadienylnitrobenzyl and Pentadienylnitropiperonyl Photochemically Removable Protecting Groups. <i>Journal of Organic Chemistry</i> , 1999 , 64, 5042-5047	4.2	25
48	Neuroprotection by small molecule activators of the nerve growth factor receptor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 322, 59-69	4.7	24
47	Synthesis of (+/-)-homohistidine. <i>Journal of Organic Chemistry</i> , 2000 , 65, 2229-30	4.2	24

46	Signaling effects of demethylasterriquinone B1, a selective insulin receptor modulator. <i>ChemBioChem</i> , 2003 , 4, 379-85	3.8	23
45	Glyceraldehyde 3-phosphate dehydrogenase is a cellular target of the insulin mimic demethylasterriquinone B1. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 3423-6	8.3	21
44	Organometallic routes to 2,5-dihydroxy-3-(indol-3-yl)benzoquinones. Synthesis of demethylasterriquinone B4. <i>Journal of Organic Chemistry</i> , 2005 , 70, 2537-42	4.2	20
43	Combinatorial discovery of two-photon photoremovable protecting groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 12548-53	11.5	20
42	Identification of novel orally available small molecule insulin mimetics. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 323, 579-85	4.7	18
41	Syntheses and cytotoxicity of syringolin B-based proteasome inhibitors. <i>Tetrahedron</i> , 2011 , 67, 9950-9956	5.4	14
40	Multicomponent reactions of cyclobutanones. <i>Journal of Organic Chemistry</i> , 2009 , 74, 2958-63	4.2	14
39	Parallel synthesis of indolylquinones and their cell-based insulin mimicry. <i>ACS Combinatorial Science</i> , 2007 , 9, 844-54		14
38	Practical synthesis of 7-prenylindole. <i>Journal of Organic Chemistry</i> , 2007 , 72, 5832-4	4.2	13
37	Syringolin B-inspired proteasome inhibitor analogue TIR-203 exhibits enhanced biological activity in multiple myeloma and neuroblastoma. <i>Pharmaceutical Biology</i> , 2012 , 50, 25-9	3.8	12
36	Novel proteasome-inhibitory syrbactin analogs inducing endoplasmic reticulum stress and apoptosis in hematological tumor cell lines. <i>Biochemical Pharmacology</i> , 2011 , 82, 600-9	6	12
35	Photoremovable Protecting Groups in DNA Synthesis and Microarray Fabrication 2005 , 341-368		12
34	Mechanistic studies on the photochemical deprotection of 3,5-dimethoxybenzoin esters. <i>Photochemistry and Photobiology</i> , 2006 , 82, 1258-64	3.6	12
33	Trityl isothiocyanate support for solid-phase synthesis. <i>ACS Combinatorial Science</i> , 2001 , 3, 90-6		11
32	Syrbactin Structural Analog TIR-199 Blocks Proteasome Activity and Induces Tumor Cell Death. <i>Journal of Biological Chemistry</i> , 2016 , 291, 8350-62	5.4	11
31	Synthesis and bioluminescence of difluoroluciferin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 4881-3	2.9	10
30	O-Alkyl Hydroxamates as Metaphors of Enzyme-Bound Enolate Intermediates in Hydroxy Acid Dehydrogenases. Inhibitors of Isopropylmalate Dehydrogenase, Isocitrate Dehydrogenase, and Tartrate Dehydrogenase(1). <i>Journal of Organic Chemistry</i> , 1996 , 61, 4527-4531	4.2	10
29	Concentrations of Tire Additive Chemicals and Tire Road Wear Particles in an Australian Urban Tributary.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	10

28	Total synthesis of fellutamides, lipopeptide proteasome inhibitors. More sustainable peptide bond formation. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 8367-75	3.9	9
27	Quinone replacements for small molecule insulin mimics. <i>ChemBioChem</i> , 2008 , 9, 360-2	3.8	9
26	Deuterium Isotope Effects on Firefly Luciferase Bioluminescence. <i>ChemistryOpen</i> , 2017 , 6, 697-700	2.3	8
25	Reactive Esters in Amide Ligation with β -Hydroxyamines. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 4283-4286	3.2	8
24	Immunoproteasome inhibition and bioactivity of thiasyrbactins. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 401-412	3.4	8
23	Revised Relative and Absolute Stereochemistry of (+)-Purpurin. <i>Journal of Natural Products</i> , 1998 , 61, 89-91	4.9	6
22	Synthetic Access to Cannabidiol and Analogs as Active Pharmaceutical Ingredients. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 12131-12136	8.3	5
21	Syrbactin proteasome inhibitor TIR-199 overcomes bortezomib chemoresistance and inhibits multiple myeloma tumor growth in vivo. <i>Leukemia Research</i> , 2020 , 88, 106271	2.7	5
20	Iodine scanning of a phenazine inhibitor of vacuolar sorting. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 1496-9	2.9	4
19	Diastereoselective Synthesis of 2'-Deoxy and 2'-O-Methyl Dinucleoside (3',5')-Methylphosphonates via Alkoxy-magnesium Chloride-Mediated Nucleoside Coupling. <i>Nucleosides & Nucleotides</i> , 1997 , 16, 417-432		4
18	A Direct Mass Spectrometry Method for the Rapid Analysis of Ubiquitous Tire-Derived Toxin N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine Quinone (6-PPDQ). <i>Environmental Science and Technology Letters</i> ,	11	4
17	Native Serine Peptide Assembly: Scope and Utility. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 5633-5636	3.2	3
16	Catalyzed Claisen rearrangements of α -allyl kojates. <i>Tetrahedron Letters</i> , 2013 , 54, 3752-3752	2	3
15	Preparation of 2-((4-Methylpentan-2-yl)amino)-5-(Phenylamino)cyclohexa-2,5-Diene-1,4-Dione (6PPD-Quinone), an Environmental Hazard for Salmon		3
14	Thiasyrbactins Induce Cell Death Proteasome Inhibition in Multiple Myeloma Cells. <i>Anticancer Research</i> , 2018 , 38, 5607-5613	2.3	2
13	Synthesis and bioluminescence of thioluciferin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019 , 29, 126591	2.9	1
12	His-tags lighten up and lose their inhibitions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6123-4	11.5	1
11	Total Synthesis of Sesquiterpenes, 1970-79. <i>Total Synthesis of Natural Products</i> , 2007 , 1-541		1

- 10 II. Monocyclic Sesquiterpenes. *Total Synthesis of Natural Products*, 29-160 1
- 9 Cannabichromene Racemization and Absolute Stereochemistry Based on a Cannabicyclol Analog. *Journal of Organic Chemistry*, **2021**, 86, 8036-8040 4.2 0
- 8 Homoserine and Threonine Peptide Assembly. *Synlett*, **2018**, 29, 238-242 2.2
- 7 I. Acyclic Sesquiterpenes. *Total Synthesis of Natural Products*, **2007**, 1-27
- 6 Ethylene Biosynthesis from 1-Aminocyclopropanecarboxylic Acid. *ACS Symposium Series*, **1993**, 436-448 0.4
- 5 (2SR,3SR)-2,4-Dimethyl-3-hydroxypentanoic Acid 99-99
- 4 IV. Tricyclic Sesquiterpenes. *Total Synthesis of Natural Products*, 275-455
- 3 III. Bicyclic Sesquiterpenes. *Total Synthesis of Natural Products*, 1-272
- 2 Skeleton Index. *Total Synthesis of Natural Products*, 456-460
- 1 Skeleton Index. *Total Synthesis of Natural Products*, 161-162