

# Milton J Kiefel

## List of Publications by Year in descending order

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74  
papers

2,751  
citations

236925

25  
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182427

51  
g-index

79  
all docs

79  
docs citations

79  
times ranked

3392  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular Effects of Pyocyanin, a Secreted Virulence Factor of <i>Pseudomonas aeruginosa</i> . <i>Toxins</i> , 2016, 8, 236.	3.4	269
2	Highly Conductive Two-Dimensional Metal-Organic Frameworks for Resilient Lithium Storage with Superb Rate Capability. <i>ACS Nano</i> , 2020, 14, 12016-12026.	14.6	207
3	Recent Advances in the Synthesis of Sialic Acid Derivatives and Sialylmimetics as Biological Probes. <i>Chemical Reviews</i> , 2002, 102, 471-490.	47.7	194
4	Second Sialic Acid Binding Site in Newcastle Disease Virus Hemagglutinin-Neuraminidase: Implications for Fusion. <i>Journal of Virology</i> , 2004, 78, 3733-3741.	3.4	154
5	Sialic acid dependence in rotavirus host cell invasion. <i>Nature Chemical Biology</i> , 2009, 5, 91-93.	8.0	149
6	Sialic Acid Recognition by <i>Vibrio cholerae</i> Neuraminidase. <i>Journal of Biological Chemistry</i> , 2004, 279, 40819-40826.	3.4	133
7	Three <i>Streptococcus pneumoniae</i> Sialidases: Three Different Products. <i>Journal of the American Chemical Society</i> , 2011, 133, 1718-1721.	13.7	98
8	Multifunctional SA-PProDOT Binder for Lithium Ion Batteries. <i>Nano Letters</i> , 2015, 15, 4440-4447.	9.1	97
9	A review of the bioactivity of coffee, caffeine and key coffee constituents on inflammatory responses linked to depression. <i>Food Research International</i> , 2015, 76, 626-636.	6.2	82
10	Investigation of the Stability of Thiosialosides toward Hydrolysis by Sialidases Using NMR Spectroscopy. <i>Organic Letters</i> , 1999, 1, 443-446.	4.6	76
11	Synthesis and Biological Evaluation of N-Acetylneuraminic Acid-Based Rotavirus Inhibitors. <i>Journal of Medicinal Chemistry</i> , 1996, 39, 1314-1320.	6.4	75
12	Peptides, Peptidomimetics, and Carbohydrate-Peptide Conjugates as Amyloidogenic Aggregation Inhibitors for Alzheimer's Disease. <i>ACS Chemical Neuroscience</i> , 2018, 9, 1530-1551.	3.5	70
13	Carbohydrate-based nanocarriers and their application to target macrophages and deliver antimicrobial agents. <i>Advanced Drug Delivery Reviews</i> , 2019, 151-152, 94-129.	13.7	63
14	A simple method for the preparation of thioglycosides of N-acetylneuraminic acid. <i>Carbohydrate Research</i> , 1994, 259, 293-299.	2.3	61
15	STD NMR spectroscopy and molecular modeling investigation of the binding of N-acetylneuraminic acid derivatives to rhesus rotavirus VP8* core. <i>Glycobiology</i> , 2007, 17, 68-81.	2.5	58
16	The occurrence and biological significance of the $\alpha$ -keto-sugars pseudaminic acid and legionaminic acid within pathogenic bacteria. <i>RSC Advances</i> , 2014, 4, 3413-3421.	3.6	58
17	Pyocyanin-induced toxicity in A549 respiratory cells is causally linked to oxidative stress. <i>Toxicology in Vitro</i> , 2011, 25, 1353-1358.	2.4	50
18	Boronolectin with divergent fluorescent response specific for free sialic acid. <i>Chemical Communications</i> , 2009, , 2278.	4.1	43

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19	Cyclohexanedodecol-Assisted Interfacial Engineering for Robust and High-Performance Zinc Metal Anode. <i>Nano-Micro Letters</i> , 2022, 14, 110.	27.0	42
20	Synthetic studies towards halichondramides, and related novel tris-oxazole containing macrolides from marine organisms. A concise route to the keto-triol formyl enamine moiety.. <i>Tetrahedron Letters</i> , 1992, 33, 3227-3230.	1.4	35
21	Synthesis of cyclic oligomers of a modified sugar amino acid utilising dynamic combinatorial chemistry. <i>Tetrahedron Letters</i> , 2004, 45, 9281-9284.	1.4	32
22	Tapping into Boron/?-Hydroxycarboxylic Acid Interactions in Sensing and Catalysis. <i>Australian Journal of Chemistry</i> , 2007, 60, 811.	0.9	29
23	Addition of organomagnesium reagents to cyanohydrin-silyl ethers: An efficient and flexible synthesis of unsymmetrically substituted acyloins. <i>Tetrahedron Letters</i> , 1986, 27, 1933-1934.	1.4	28
24	Towards the synthesis of aryl glucuronides as potential heparanase probes. An interesting outcome in the glycosidation of glucuronic acid with 4-hydroxycinnamic acid. <i>Carbohydrate Research</i> , 2005, 340, 2077-2085.	2.3	28
25	Synthesis of Lactose-Based S-Linked Sialylmimetics of Î±(2,3)-Sialosides. <i>Organic Letters</i> , 2003, 5, 4365-4368.	4.6	27
26	NMR spectroscopic and molecular modeling investigations of the trans-sialidase from <i>Trypanosoma cruzi</i> . <i>Glycobiology</i> , 2004, 14, 895-907.	2.5	27
27	Synthesis of Carbohydrates with an Anomeric Thiol Moiety for Elaboration into Metabolically Stable Thioglycosides. <i>Journal of Carbohydrate Chemistry</i> , 1999, 18, 937-959.	1.1	25
28	The <i>Aspergillus fumigatus</i> Sialidase Is a 3-Deoxy-d-glycero-d-galacto-2-nonulosonic Acid Hydrolase (KDNase). <i>Journal of Biological Chemistry</i> , 2011, 286, 10783-10792.	3.4	25
29	Pigments of Fungi. XV. An Efficient, Unambiguous Route to Unsymmetrically Substituted Dibenzyl Acyloins and Their Use in the Synthesis of Fungus Pigments of the Pulvinone and Grevillin Types. <i>Australian Journal of Chemistry</i> , 1990, 43, 1497.	0.9	24
30	Pigments of Fungi. XXXVII. Pseudoquinone, a New Naphthalenoid Pulvinic Acid From the Fungus <i>Pisolithus arhizus</i> . <i>Australian Journal of Chemistry</i> , 1994, 47, 1967.	0.9	24
31	A new approach towards the synthesis of pseudaminic acid analogues. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 2918.	2.8	24
32	Amylopectin from Glutinous Rice as a Sustainable Binder for High-Performance Silicon Anodes. <i>Energy and Environmental Materials</i> , 2021, 4, 263-268.	12.8	24
33	Synthesis and Biological Evaluation of Sialylmimetics as Rotavirus Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 3292-3301.	6.4	23
34	Synthesis and evaluation of C-9 modified N -acetylneuraminic acid derivatives as substrates for N -acetylneuraminic acid aldolase. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 657-664.	3.0	22
35	The synthesis and biological evaluation of lactose-based sialylmimetics as inhibitors of rotaviral infection. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 739-757.	3.0	21
36	Total Synthesis of Native 5,7-Diacetyl pseudaminic Acid from N-Acetylneuraminic Acid. <i>Journal of Organic Chemistry</i> , 2016, 81, 2607-2611.	3.2	21

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37	Synthesis of simple heparanase substrates. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 4614.	2.8	19
38	Enhanced fructose, glucose and lactose transport promoted by a lipophilic 2-(aminomethyl)-phenylboronic acid. <i>Tetrahedron</i> , 2008, 64, 7122-7126.	1.9	18
39	Structural Studies on the <i>Pseudomonas aeruginosa</i> Sialidase-Like Enzyme PA2794 Suggest Substrate and Mechanistic Variations. <i>Journal of Molecular Biology</i> , 2009, 386, 828-840.	4.2	18
40	1 Influenza Virus Sialidase: A Target for Drug Discovery. <i>Progress in Medicinal Chemistry</i> , 1999, 36, 1-28.	10.4	17
41	Structure Revisions of the Sponge-Derived Dibrominated Bis-indole Alkaloids, Echin sulfone A and the Echin sulfonic Acids A to D. <i>Journal of Organic Chemistry</i> , 2020, 85, 3490-3496.	3.2	15
42	Crystallization and preliminary X-ray diffraction analysis of the sialic acid-binding domain (VP8*) of porcine rotavirus strain CRW-8. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 617-620.	0.7	14
43	Synthesis and evaluation of N-acetylneuraminic acid-based affinity matrices for the purification of sialic acid-recognizing proteins. <i>Glycoconjugate Journal</i> , 1998, 15, 663-669.	2.7	13
44	An efficient synthesis of selectively functionalized d-rhamnose derivatives. <i>Tetrahedron Letters</i> , 2011, 52, 1296-1299.	1.4	13
45	Back to (non-)Basics: An Update on Neutral and Charge-Balanced Glycosidase Inhibitors. <i>Mini-Reviews in Medicinal Chemistry</i> , 2018, 18, 812-827.	2.4	13
46	How pure is your thiosialoside? A reinvestigation into the HPLC purification of thioglycosides of N-acetylneuraminic acid. <i>Glycoconjugate Journal</i> , 1999, 16, 13-17.	2.7	12
47	Synthesis of Novel Sialylmimetics as Biological Probes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 1587-1590.	2.2	12
48	Synthesis of fungus pigments of the grevillin and pulvinone types from benzylacyloins.. <i>Tetrahedron Letters</i> , 1988, 29, 2085-2087.	1.4	11
49	Preliminary 1H NMR investigation of sialic acid transfer by the trans-sialidase from <i>Trypanosoma cruzi</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 2791-2794.	2.2	11
50	Inhibition of <i>Aspergillus fumigatus</i> conidia binding to extracellular matrix proteins by sialic acids: a pH effect?. <i>Microbiology (United Kingdom)</i> , 2009, 155, 3100-3109.	1.8	11
51	A Simple Synthesis of C-8 Modified 2-Keto-3-deoxy-d-manno-octulosonic Acid (KDO) Derivatives. <i>Synlett</i> , 2010, 2010, 583-586.	1.8	10
52	Boric Acid Catalyzed Methyl Esterification of Sugar Acids. <i>Australian Journal of Chemistry</i> , 2014, 67, 528.	0.9	10
53	Recent results from non-basic glycosidase inhibitors: How structural diversity can inform general strategies for improving inhibition potency. <i>European Journal of Medicinal Chemistry</i> , 2022, 235, 114282.	5.5	10
54	The Structure and Absolute Stereochemistry of Pisosterol, the Principal Triterpenoid From Fruitbodies of the Fungus <i>Pisolithus tinctorius</i> . <i>Australian Journal of Chemistry</i> , 1989, 42, 995.	0.9	8

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55	Crystallization and preliminary X-ray diffraction analysis of the carbohydrate-recognizing domain (VP8*) of bovine rotavirus strain NCDV. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 509-511.	0.7	8
56	A new approach to the synthesis of legionaminic acid analogues. <i>RSC Advances</i> , 2018, 8, 35768-35775.	3.6	8
57	Synthesis of Butenolides via a Horner-Wadsworth-Emmons Cascading Dimerization Reaction. <i>Journal of Organic Chemistry</i> , 2019, 84, 15226-15235.	3.2	8
58	Î±-Synuclein Aggregation Inhibitory Prunolides and a Dibrominated Î²-Carboline Sulfamate from the Ascidian <i>Synoicum prunum</i> . <i>Journal of Natural Products</i> , 2022, 85, 441-452.	3.0	8
59	The first synthesis of an alkylmercury containing N-acetylneuraminic acid derivative. <i>Tetrahedron Letters</i> , 1996, 37, 7307-7310.	1.4	7
60	Comparing Self-Assembling and Covalent Fluorescent Boronolactams for the Detection of Free Sialic Acid. <i>Australian Journal of Chemistry</i> , 2011, 64, 1454.	0.9	7
61	The synthesis of biotinylated carbohydrates as probes for carbohydrate-recognizing proteins. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 2709-2718.	3.0	6
62	Thioamide Derivative of the Potent Antitubercular 2-(Decylsulfonyl)acetamide is Less Active Against <i>Mycobacterium tuberculosis</i> , but a More Potent Antistaphylococcal Agent. <i>Australian Journal of Chemistry</i> , 2018, 71, 716.	0.9	6
63	Facile amidinations of 2-aminophenylboronic acid promoted by boronate ester formation. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 803-806.	2.8	6
64	Glycomimetics as inhibitors in anti-infection therapy. , 2010, , 915-932.		5
65	Synthesis of C11 chain-extended analogues of N-acetylneuraminic acid. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1996, , 439.	0.9	4
66	A 1H STD NMR spectroscopic investigation of sialyl nucleoside mimetics as probes of CMP-Kdn synthetase. <i>Glycoconjugate Journal</i> , 2006, 23, 371-375.	2.7	4
67	Crystallization-induced amide bond formation creates a boron-centered spirocyclic system. <i>Heterocyclic Communications</i> , 2017, 23, 167-169.	1.2	4
68	A Simple Glycolipid Mimic of the Phosphatidylinositol Mannoside Core from <i>Mycobacterium tuberculosis</i> Inhibits Macrophage Cytokine Production. <i>ChemBioChem</i> , 2018, 19, 1476-1481.	2.6	4
69	Fluorescent Carbon Dots Functionalized with Self-Assembled Glycan Monolayers for Probing Interactions across the Glyco-Interactome. <i>ACS Applied Nano Materials</i> , 2020, 3, 7804-7817.	5.0	4
70	Carbohydrates as Inhibitors of Rotaviral Infection. <i>Methods in Enzymology</i> , 2003, 363, 395-412.	1.0	3
71	Synthesis of C-9 oxidised N-acetylneuraminic acid derivatives as biological probes. <i>Tetrahedron Letters</i> , 2011, 52, 98-100.	1.4	3
72	2-Propynyl 2-hydroxybenzoate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o226-o227.	0.2	2

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73	A remarkable divergent fluorescence response to epimeric monosaccharides by an isoquinoline-derived diboronate. <i>Tetrahedron Letters</i> , 2022, 94, 153698.	1.4	1
74	Bicyclic Systems With Bridgehead (Ring Junction) Boron Atoms. , 2020, , 413-413.		0