

# Mark S Taylor

## 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.

86  
papers

7,876  
citations

37  
h-index

88  
g-index

93  
ext. papers

8,602  
ext. citations

9.2  
avg, IF

6.79  
L-index

#	Paper	IF	Citations
86	Borinic Acid Catalyzed Regioselective $\alpha$ -Alkylation of Azoles.. <i>Journal of Organic Chemistry</i> , <b>2022</b> ,	4.2	2
85	Photocatalytic, site-selective oxidations of carbohydrates. <i>Chemical Communications</i> , <b>2021</b> , 57, 12135-12138	4.8	3
84	Site- and Stereoselective C-H Alkylations of Carbohydrates Enabled by Cooperative Photoredox, Hydrogen Atom Transfer, and Organotin Catalysis. <i>Organic Letters</i> , <b>2021</b> , 23, 5180-5185	6.2	4
83	Neutral Chiral Tetrakis-Iodo-Triazole Halogen-Bond Donor for Chiral Recognition and Enantioselective Catalysis. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 2315-2320	4.8	16
82	Recent advances in the direct $\alpha$ -arylation of carbohydrates. <i>Organic and Biomolecular Chemistry</i> , <b>2021</b> , 19, 514-524	3.9	5
81	Diarylborinic Acid-Catalyzed Regioselective Ring Openings of Epoxy Alcohols with Pyrazoles, Imidazoles, Triazoles, and Other Nitrogen Heterocycles. <i>Organic Letters</i> , <b>2021</b> , 23, 7049-7054	6.2	6
80	Synthesis of Ketodeoxysugars from Acylated Pyranosides Using Photoredox Catalysis and Hydrogen Atom Transfer. <i>ACS Catalysis</i> , <b>2021</b> , 11, 11171-11179	13.1	8
79	Thermodynamics of Halogen Bonding in Solution <b>2021</b> , 43-82		
78	Anion recognition based on halogen, chalcogen, pnictogen and tetrel bonding. <i>Coordination Chemistry Reviews</i> , <b>2020</b> , 413, 213270	23.2	85
77	Borinic Acid-Catalyzed Regioselective Ring-Opening of 3,4- and 2,3-Epoxy Alcohols with Halides. <i>Advanced Synthesis and Catalysis</i> , <b>2020</b> , 362, 398-403	5.6	9
76	Site-selective redox isomerizations of furanosides using a combined arylboronic acid/photoredox catalyst system. <i>Chemical Science</i> , <b>2020</b> , 11, 1531-1537	9.4	22
75	Site-Selective, Organoboron-Catalyzed Polymerization of Pyranosides: Access to Sugar-Derived Polyesters with Tunable Properties. <i>Macromolecules</i> , <b>2020</b> , 53, 8192-8201	5.5	3
74	Boronic acid-promoted site-selective Fischer esterifications of sugar alcohols. <i>Green Chemistry</i> , <b>2019</b> , 21, 5363-5367	10	5
73	Copper-mediated anomeric O-arylation with organoboron reagents. <i>Organic and Biomolecular Chemistry</i> , <b>2019</b> , 17, 5671-5674	3.9	3
72	Site-Selective and Stereoselective C-H Alkylations of Carbohydrates via Combined Diarylborinic Acid and Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 5149-5153	16.4	58
71	Rhodium-Catalyzed Tandem Isomerization/Allylation: From Diallyl Carbonates to $\beta$ -Quaternary Aldehydes. <i>ACS Catalysis</i> , <b>2019</b> , 9, 11808-11812	13.1	8
70	Diarylborinic Acid-Catalyzed, Site-Selective Sulfation of Carbohydrate Derivatives. <i>Journal of Organic Chemistry</i> , <b>2019</b> , 84, 900-908	4.2	10

69	Chiral phosphine ligand libraries based on the Bullman three-component supramolecular assembly. <i>Supramolecular Chemistry</i> , <b>2019</b> , 31, 190-202	1.8	3
68	Borinic Acid-Catalyzed, Regioselective Ring Opening of 3,4-Epoxy Alcohols. <i>Organic Letters</i> , <b>2018</b> , 20, 5375-5379	6.2	13
67	Borinic Acid/Halide Co-catalyzed Semipinacol Rearrangements of 2,3-Epoxy Alcohols. <i>Organic Letters</i> , <b>2018</b> , 20, 5327-5331	6.2	10
66	Site-Selective Functionalization of Hydroxyl Groups in Carbohydrate Derivatives. <i>Chemical Reviews</i> , <b>2018</b> , 118, 11457-11517	68.1	117
65	Dehydrative glycosidations of 2-deoxysugar derivatives catalyzed by an arylboronic ester. <i>Carbohydrate Research</i> , <b>2018</b> , 470, 42-49	2.9	10
64	Reversible covalent interactions of $\beta$ -aminoboronic acids with carbohydrate derivatives. <i>Chemical Communications</i> , <b>2017</b> , 53, 1809-1812	5.8	16
63	Mechanism of an Organoboron-Catalyzed Domino Reaction: Kinetic and Computational Studies of Borinic Acid-Catalyzed Regioselective Chloroacylation of 2,3-Epoxy Alcohols. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 1085-1095	4.2	12
62	Regioselective Glycosylation Methods <b>2017</b> , 231-253		2
61	P-Stereogenic $\beta$ -Aminophosphines: Preparation and Applications in Enantioselective Organocatalysis. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 3173-3182	4.2	16
60	A Nonlinear Ordinary Differential Equation for Generating Graphical Rate Equations from Concentration Versus Time Data. <i>Topics in Catalysis</i> , <b>2017</b> , 60, 554-563	2.3	4
59	Self-Assembly of Polymer Nanostructures through Halogen Bonding Interactions of an Iodoperfluoroarene-Functionalized Polystyrene Derivative. <i>Macromolecules</i> , <b>2017</b> , 50, 3807-3817	5.5	29
58	Borinic acid-catalyzed stereo- and site-selective synthesis of $\beta$ -glycosylceramides. <i>Chemical Communications</i> , <b>2017</b> , 53, 5978-5980	5.8	13
57	The halogen bond in solution: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 203,	3.6	2
56	Beyond the halogen bond: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 203, 227-244	3.6	1
55	Solid-state chemistry and applications: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 203, 459-483	3.6	1
54	Boronic Acids as Phase-Transfer Reagents for Fischer Glycosidations in Low-Polarity Solvents. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 11406-11417	4.2	21
53	Site-Selective, Copper-Mediated O-Arylation of Carbohydrate Derivatives. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 15515-15521	16.4	35
52	Catalyst-controlled polycondensation of glycerol with diacyl chlorides: linear polyesters from a trifunctional monomer. <i>Chemical Science</i> , <b>2017</b> , 8, 7106-7111	9.4	21

51	Exploring the construction of multicompartamental micelles by halogen bonding of complementary macromolecules. <i>Faraday Discussions</i> , <b>2017</b> , 203, 285-299	3.6	10
50	Sequential Functionalizations of Carbohydrates Enabled by Boronic Esters as Switchable Protective/Activating Groups. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 8777-8791	4.2	23
49	Catalyst-Controlled, Regioselective Reactions of Carbohydrate Derivatives. <i>Topics in Current Chemistry</i> , <b>2016</b> , 372, 125-55		9
48	Borinic Acid Catalyzed Stereo- and Regioselective Couplings of Glycosyl Methanesulfonates. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 11058-66	16.4	83
47	Boronic acid/Bronsted acid co-catalyst systems for the synthesis of 2H-chromenes from phenols and $\alpha$ -unsaturated carbonyls. <i>Organic and Biomolecular Chemistry</i> , <b>2016</b> , 14, 6703-11	3.9	26
46	A versatile synthesis of chiral Ebinophosphines. <i>Organic and Biomolecular Chemistry</i> , <b>2016</b> , 14, 5665-72	3.9	13
45	Boronic esters as protective groups in carbohydrate chemistry: processes for acylation, silylation and alkylation of glycoside-derived boronates. <i>Organic and Biomolecular Chemistry</i> , <b>2016</b> , 15, 132-143	3.9	39
44	Anion recognition by a bidentate chalcogen bond donor. <i>Chemical Communications</i> , <b>2016</b> , 52, 9881-4	5.8	113
43	Borinic Acid Catalyzed, Regioselective Chloroacylations and Chlorosulfonylations of 2,3-Epoxy Alcohols. <i>Organic Letters</i> , <b>2015</b> , 17, 3482-5	6.2	18
42	Chalcogen bonding in solution: interactions of benzotelluradiazoles with anionic and uncharged Lewis bases. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 4126-33	16.4	185
41	Solution-phase self-assembly of complementary halogen bonding polymers. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 5080-6	16.4	47
40	Catalysis based on reversible covalent interactions of organoboron compounds. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 295-305	24.3	102
39	Organoboron-Promoted Regioselective Glycosylations in the Synthesis of a Saponin-Derived Pentasaccharide from <i>Spergularia ramosa</i> . <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 8501-10	4.2	20
38	Anion Recognition in Solution via Halogen Bonding. <i>Topics in Current Chemistry</i> , <b>2015</b> , 359, 27-48		7
37	Synthesis of benzannulated heterocycles by twofold Suzuki-Miyaura couplings of cyclic diarylborinic acids. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 1391-4	3.9	23
36	Molecular recognition: The I $\pi$ S have it. <i>Nature Chemistry</i> , <b>2014</b> , 6, 1029-31	17.6	21
35	Organoboron-catalyzed regio- and stereoselective formation of E $\beta$ -deoxyglycosidic linkages. <i>Organic Letters</i> , <b>2014</b> , 16, 3604-7	6.2	69
34	Halogen bonding in solution: thermodynamics and applications. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 1667-80	5.9	455

33	Regioselective silylation of pyranosides using a boronic acid/Lewis base co-catalyst system. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 5409-12	3.9	36
32	9-Hetero-10-boraanthracene-derived borinic acid catalysts for regioselective activation of polyols. <i>Chemical Science</i> , <b>2013</b> , 4, 3298	9.4	55
31	Applications of organoboron compounds in carbohydrate chemistry and glycobiology: analysis, separation, protection, and activation. <i>Carbohydrate Research</i> , <b>2013</b> , 381, 112-22	2.9	43
30	Structure-Activity Relationships for Anion-Responsive Poly(squaramides): Support for an Analyte-Induced Noncovalent Polymer Cross-Linking Mechanism. <i>Macromolecules</i> , <b>2013</b> , 46, 6439-6450	5.5	12
29	Halogen bonding between anions and iodoperfluoroorganics: solution-phase thermodynamics and multidentate-receptor design. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 2050-8	4.8	83
28	Synthesis of cardiac glycoside analogs by catalyst-controlled, regioselective glycosylation of digitoxin. <i>Organic Letters</i> , <b>2013</b> , 15, 1358-61	6.2	65
27	Halogen bonding and $\pi$ -interactions in the solid-state structure of a butadiynylene-linked bis(iodoperfluoroarene). <i>CrystEngComm</i> , <b>2013</b> , 15, 3097	3.3	13
26	Organoboron Acids and Their Derivatives as Catalysts for Organic Synthesis. <i>ACS Catalysis</i> , <b>2013</b> , 3, 945-962	12.1	121
25	Structure and energetics of gas phase halogen-bonding in mono-, bi-, and tri-dentate anion receptors as studied by BIRD. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 7638-47	3.6	24
24	Polymers for anion recognition and sensing. <i>Macromolecular Rapid Communications</i> , <b>2012</b> , 33, 21-34	4.8	64
23	Regioselective, borinic acid-catalyzed monoacylation, sulfonylation and alkylation of diols and carbohydrates: expansion of substrate scope and mechanistic studies. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8260-7	16.4	155
22	Correlations between computation and experimental thermodynamics of halogen bonding. <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 3483-91	4.2	84
21	Catalyst-Controlled Regioselective Reactions of Carbohydrate Derivatives. <i>Synthesis</i> , <b>2012</b> , 44, 3421-3431	3.9	60
20	Borinic Acids: A Neglected Class of Organoboron Compounds for Recognition of Diols in Aqueous Solution. <i>Australian Journal of Chemistry</i> , <b>2011</b> , 64, 1466	1.2	33
19	Regioselective activation of glycosyl acceptors by a diarylborinic acid-derived catalyst. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13926-9	16.4	161
18	Anion receptors composed of hydrogen- and halogen-bond donor groups: modulating selectivity with combinations of distinct noncovalent interactions. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10559-67	16.4	267
17	Borinic acid-catalyzed regioselective acylation of carbohydrate derivatives. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 3724-7	16.4	200
16	Carbon-carbon bond-forming reactions of $\beta$ -carbonyl carbocations: exploration of a reversed-polarity equivalent of enolate chemistry. <i>Tetrahedron</i> , <b>2011</b> , 67, 7586-7592	2.4	27

15	Anion Detection by a Fluorescent Poly(squaramide): Self-Assembly of Anion-Binding Sites by Polymer Aggregation. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 2107-2110	3.6	11
14	Anion detection by a fluorescent poly(squaramide): self-assembly of anion-binding sites by polymer aggregation. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 2059-62	16.4	69
13	Regioselective alkylation of carbohydrate derivatives catalyzed by a diarylborinic acid derivative. <i>Organic Letters</i> , <b>2011</b> , 13, 3090-3	6.2	96
12	Measurements of weak halogen bond donor abilities with tridentate anion receptors. <i>Chemical Communications</i> , <b>2010</b> , 46, 9025-7	5.8	101
11	Thermodynamics of halogen bonding in solution: substituent, structural, and solvent effects. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 1646-53	16.4	308
10	N,N'-diarylsquaramides: general, high-yielding synthesis and applications in colorimetric anion sensing. <i>Journal of Organic Chemistry</i> , <b>2010</b> , 75, 3983-92	4.2	101
9	A tridentate halogen-bonding receptor for tight binding of halide anions. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 1674-7	16.4	213
8	Boron-catalyzed direct aldol reactions of pyruvic acids. <i>Organic Letters</i> , <b>2009</b> , 11, 5486-9	6.2	74
7	Asymmetric catalysis by chiral hydrogen-bond donors. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 1520-43	16.4	1603
6	Asymmetrische Katalyse durch chirale Wasserstoffbrückendonoren. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 1550-1573	3.6	529
5	Highly enantioselective conjugate additions to alpha,beta-unsaturated ketones catalyzed by a (salen)Al complex. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 1313-7	16.4	308
4	Enantioselective thiourea-catalyzed acyl-mannich reactions of isoquinolines. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 6700-4	16.4	242
3	Asymmetric catalysis in complex target synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 5368-73	11.5	74
2	Highly enantioselective catalytic acyl-pictet-spengler reactions. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 10558-9	16.4	539
1	Enantioselective Michael additions to alpha,beta-unsaturated imides catalyzed by a Salen-Al complex. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 11204-5	16.4	248