

Mark S Taylor

List of Publications by Year in descending order

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papers

9,247
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70961

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times ranked

6471
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric Catalysis by Chiral Hydrogen-Bond Donors. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1520-1543.	7.2	1,737
2	Highly Enantioselective Catalytic Acyl-PictetâSpengler Reactions. <i>Journal of the American Chemical Society</i> , 2004, 126, 10558-10559.	6.6	585
3	Halogen bonding in solution: thermodynamics and applications. <i>Chemical Society Reviews</i> , 2013, 42, 1667-1680.	18.7	501
4	Thermodynamics of Halogen Bonding in Solution: Substituent, Structural, and Solvent Effects. <i>Journal of the American Chemical Society</i> , 2010, 132, 1646-1653.	6.6	345
5	Highly Enantioselective Conjugate Additions to $\hat{1}\pm, \hat{1}^2$ -Unsaturated Ketones Catalyzed by a (Salen)Al Complex. <i>Journal of the American Chemical Society</i> , 2005, 127, 1313-1317.	6.6	326
6	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> , 2011, 133, 10559-10567.	6.6	279
7	Enantioselective Thiourea-Catalyzed Acyl-Mannich Reactions of Isoquinolines. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6700-6704.	7.2	265
8	Enantioselective Michael Additions to $\hat{1}\pm, \hat{1}^2$ -Unsaturated Imides Catalyzed by a SalenâAl Complex. <i>Journal of the American Chemical Society</i> , 2003, 125, 11204-11205.	6.6	264
9	Chalcogen Bonding in Solution: Interactions of Benzotelluradiazoles with Anionic and Uncharged Lewis Bases. <i>Journal of the American Chemical Society</i> , 2015, 137, 4126-4133.	6.6	242
10	Borinic Acid-Catalyzed Regioselective Acylation of Carbohydrate Derivatives. <i>Journal of the American Chemical Society</i> , 2011, 133, 3724-3727.	6.6	234
11	A Tridentate HalogenâBonding Receptor for Tight Binding of Halide Anions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1674-1677.	7.2	230
12	Site-Selective Functionalization of Hydroxyl Groups in Carbohydrate Derivatives. <i>Chemical Reviews</i> , 2018, 118, 11457-11517.	23.0	200
13	Regioselective Activation of Glycosyl Acceptors by a Diarylborinic Acid-Derived Catalyst. <i>Journal of the American Chemical Society</i> , 2011, 133, 13926-13929.	6.6	192
14	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> , 2012, 134, 8260-8267.	6.6	191
15	Anion recognition based on halogen, chalcogen, pnictogen and tetrel bonding. <i>Coordination Chemistry Reviews</i> , 2020, 413, 213270.	9.5	160
16	Organoboron Acids and Their Derivatives as Catalysts for Organic Synthesis. <i>ACS Catalysis</i> , 2013, 3, 945-962.	5.5	149
17	Anion recognition by a bidentate chalcogen bond donor. <i>Chemical Communications</i> , 2016, 52, 9881-9884.	2.2	139
18	Catalysis Based on Reversible Covalent Interactions of Organoboron Compounds. <i>Accounts of Chemical Research</i> , 2015, 48, 295-305.	7.6	135

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19	<i>N</i> -Diarylsquaramides: General, High-Yielding Synthesis and Applications in Colorimetric Anion Sensing. <i>Journal of Organic Chemistry</i> , 2010, 75, 3983-3992.	1.7	126
20	Regioselective Alkylation of Carbohydrate Derivatives Catalyzed by a Diarylborinic Acid Derivative. <i>Organic Letters</i> , 2011, 13, 3090-3093.	2.4	116
21	Borinic Acid Catalyzed Stereo- and Regioselective Couplings of Glycosyl Methanesulfonates. <i>Journal of the American Chemical Society</i> , 2016, 138, 11058-11066.	6.6	112
22	Site-Selective and Stereoselective C-H Alkylations of Carbohydrates via Combined Diarylborinic Acid and Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 5149-5153.	6.6	106
23	Measurements of weak halogen bond donor abilities with tridentate anion receptors. <i>Chemical Communications</i> , 2010, 46, 9025.	2.2	104
24	Correlations between Computation and Experimental Thermodynamics of Halogen Bonding. <i>Journal of Organic Chemistry</i> , 2012, 77, 3483-3491.	1.7	90
25	Asymmetric Catalysis Special Feature Part I: Asymmetric catalysis in complex target synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5368-5373.	3.3	87
26	Boron-Catalyzed Direct Aldol Reactions of Pyruvic Acids. <i>Organic Letters</i> , 2009, 11, 5486-5489.	2.4	86
27	Halogen Bonding between Anions and Iodoperfluoroorganics: Solution-Phase Thermodynamics and Multidentate Receptor Design. <i>Chemistry - A European Journal</i> , 2013, 19, 2050-2058.	1.7	86
28	Organoboron-Catalyzed Regio- and Stereoselective Formation of 1,2-Deoxyglycosidic Linkages. <i>Organic Letters</i> , 2014, 16, 3604-3607.	2.4	82
29	9-Hetero-10-boraanthracene-derived borinic acid catalysts for regioselective activation of polyols. <i>Chemical Science</i> , 2013, 4, 3298.	3.7	75
30	Anion Detection by a Fluorescent Poly(squaramide): Self-Assembly of Anion-Binding Sites by Polymer Aggregation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2059-2062.	7.2	73
31	Synthesis of Cardiac Glycoside Analogs by Catalyst-Controlled, Regioselective Glycosylation of Digitoxin. <i>Organic Letters</i> , 2013, 15, 1358-1361.	2.4	73
32	Polymers for Anion Recognition and Sensing. <i>Macromolecular Rapid Communications</i> , 2012, 33, 21-34.	2.0	72
33	Catalyst-Controlled Regioselective Reactions of Carbohydrate Derivatives. <i>Synthesis</i> , 2012, 44, 3421-3431.	1.2	63
34	Solution-Phase Self-Assembly of Complementary Halogen Bonding Polymers. <i>Journal of the American Chemical Society</i> , 2015, 137, 5080-5086.	6.6	56
35	Applications of organoboron compounds in carbohydrate chemistry and glycobiology: analysis, separation, protection, and activation. <i>Carbohydrate Research</i> , 2013, 381, 112-122.	1.1	54
36	Catalyst-Controlled, Regioselective Reactions of Carbohydrate Derivatives. <i>Topics in Current Chemistry</i> , 2015, 372, 125-155.	4.0	52

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37	Regioselective silylation of pyranosides using a boronic acid/Lewis base co-catalyst system. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 5409.	1.5	46
38	Site-Selective, Copper-Mediated α -Arylation of Carbohydrate Derivatives. <i>Journal of the American Chemical Society</i> , 2017, 139, 15515-15521.	6.6	44
39	Site-selective redox isomerizations of furanosides using a combined arylboronic acid/photoredox catalyst system. <i>Chemical Science</i> , 2020, 11, 1531-1537.	3.7	44
40	Boronic esters as protective groups in carbohydrate chemistry: processes for acylation, silylation and alkylation of glycoside-derived boronates. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 132-143.	1.5	43
41	Carbon-carbon bond-forming reactions of α -carbonyl carbocations: exploration of a reversed-polarity equivalent of enolate chemistry. <i>Tetrahedron</i> , 2011, 67, 7586-7592.	1.0	42
42	Boronic Acids: A Neglected Class of Organoboron Compounds for Recognition of Diols in Aqueous Solution. <i>Australian Journal of Chemistry</i> , 2011, 64, 1466.	0.5	35
43	Synthesis of benzannulated heterocycles by twofold Suzuki-Miyaura couplings of cyclic diarylboronic acids. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 1391.	1.5	33
44	Boronic acid/Bronsted acid co-catalyst systems for the synthesis of 2H-chromenes from phenols and α,β -unsaturated carbonyls. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6703-6711.	1.5	30
45	Self-Assembly of Polymer Nanostructures through Halogen Bonding Interactions of an Iodoperfluoroarene-Functionalized Polystyrene Derivative. <i>Macromolecules</i> , 2017, 50, 3807-3817.	2.2	30
46	Boronic Acid Catalyzed, Regioselective Chloroacylations and Chlorosulfonylations of 2,3-Epoxy Alcohols. <i>Organic Letters</i> , 2015, 17, 3482-3485.	2.4	29
47	Synthesis of Ketodeoxysugars from Acylated Pyranosides Using Photoredox Catalysis and Hydrogen Atom Transfer. <i>ACS Catalysis</i> , 2021, 11, 11171-11179.	5.5	29
48	Sequential Functionalizations of Carbohydrates Enabled by Boronic Esters as Switchable Protective/Activating Groups. <i>Journal of Organic Chemistry</i> , 2017, 82, 8777-8791.	1.7	28
49	Neutral Chiral Tetrakisiodotriazole Halogen-Bond Donor for Chiral Recognition and Enantioselective Catalysis. <i>Chemistry - A European Journal</i> , 2021, 27, 2315-2320.	1.7	28
50	Catalyst-controlled polycondensation of glycerol with diacyl chlorides: linear polyesters from a trifunctional monomer. <i>Chemical Science</i> , 2017, 8, 7106-7111.	3.7	27
51	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> , 2013, 15, 7638.	1.3	26
52	Boronic Acid-Catalyzed, Regioselective Ring Opening of 3,4-Epoxy Alcohols. <i>Organic Letters</i> , 2018, 20, 5375-5379.	2.4	25
53	Site- and Stereoselective C-H Alkylations of Carbohydrates Enabled by Cooperative Photoredox, Hydrogen Atom Transfer, and Organotin Catalysis. <i>Organic Letters</i> , 2021, 23, 5180-5185.	2.4	24
54	The I's have it. <i>Nature Chemistry</i> , 2014, 6, 1029-1031.	6.6	23

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55	Halogen bonding: from self-assembly to materials and biomolecules. <i>CrystEngComm</i> , 2013, 15, 3057.	1.3	22
56	Organoboron-Promoted Regioselective Glycosylations in the Synthesis of a Saponin-Derived Pentasaccharide from <i>Spergularia ramosa</i> . <i>Journal of Organic Chemistry</i> , 2015, 80, 8501-8510.	1.7	22
57	Borinic acid-catalyzed stereo- and site-selective synthesis of $\hat{1}^2$ -glycosylceramides. <i>Chemical Communications</i> , 2017, 53, 5978-5980.	2.2	21
58	Boronic Acids as Phase-Transfer Reagents for Fischer Glycosidations in Low-Polarity Solvents. <i>Journal of Organic Chemistry</i> , 2017, 82, 11406-11417.	1.7	21
59	Photocatalytic, site-selective oxidations of carbohydrates. <i>Chemical Communications</i> , 2021, 57, 12135-12138.	2.2	20
60	Reversible covalent interactions of $\hat{1}^2$ -aminoboronic acids with carbohydrate derivatives. <i>Chemical Communications</i> , 2017, 53, 1809-1812.	2.2	19
61	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> , 2017, 82, 1085-1095.	1.7	18
62	<i>P</i> -Stereogenic $\hat{1}^2$ -Aminophosphines: Preparation and Applications in Enantioselective Organocatalysis. <i>Journal of Organic Chemistry</i> , 2017, 82, 3173-3182.	1.7	18
63	Borinic Acid/Halide Co-catalyzed Semipinacol Rearrangements of 2,3-Epoxy Alcohols. <i>Organic Letters</i> , 2018, 20, 5327-5331.	2.4	18
64	Borinic Acid-Catalyzed Regioselective Ring-Opening of 3,4- and 2,3-Epoxy Alcohols with Halides. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 398-403.	2.1	18
65	Diarylborinic Acid-Catalyzed Regioselective Ring Openings of Epoxy Alcohols with Pyrazoles, Imidazoles, Triazoles, and Other Nitrogen Heterocycles. <i>Organic Letters</i> , 2021, 23, 7049-7054.	2.4	18
66	Diarylborinic Acid-Catalyzed, Site-Selective Sulfation of Carbohydrate Derivatives. <i>Journal of Organic Chemistry</i> , 2019, 84, 900-908.	1.7	17
67	Structure-Activity Relationships for Anion-Responsive Poly(squaramides): Support for an Analyte-Induced Noncovalent Polymer Cross-Linking Mechanism. <i>Macromolecules</i> , 2013, 46, 6439-6450.	2.2	15
68	Recent advances in the direct <i>O</i> -arylation of carbohydrates. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 514-524.	1.5	15
69	Borinic Acid Catalyzed Regioselective <i>N</i> -Alkylation of Azoles. <i>Journal of Organic Chemistry</i> , 2022, 87, 5385-5394.	1.7	15
70	A versatile synthesis of chiral $\hat{1}^2$ -aminophosphines. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 5665-5672.	1.5	14
71	Halogen bonding and $\hat{1}^2$ interactions in the solid-state structure of a butadiynylene-linked bis(iodoperfluoroarene). <i>CrystEngComm</i> , 2013, 15, 3097.	1.3	13
72	Exploring the construction of multicompartamental micelles by halogen bonding of complementary macromolecules. <i>Faraday Discussions</i> , 2017, 203, 285-299.	1.6	12

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73	Dehydrative glycosidations of 2-deoxysugar derivatives catalyzed by an arylboronic ester. <i>Carbohydrate Research</i> , 2018, 470, 42-49.	1.1	12
74	Effects of Configuration and Substitution on C-H Bond Dissociation Enthalpies in Carbohydrate Derivatives: A Systematic Computational Study. <i>Journal of Organic Chemistry</i> , 2022, 87, 1421-1433.	1.7	11
75	Anion Recognition in Solution via Halogen Bonding. <i>Topics in Current Chemistry</i> , 2014, 359, 27-48.	4.0	10
76	Rhodium-Catalyzed Tandem Isomerization-Allylation: From Diallyl Carbonates to β -Quaternary Aldehydes. <i>ACS Catalysis</i> , 2019, 9, 11808-11812.	5.5	9
77	Boronic acid-promoted site-selective Fischer esterifications of sugar alcohols. <i>Green Chemistry</i> , 2019, 21, 5363-5367.	4.6	8
78	Site-Selective, Organoboron-Catalyzed Polymerization of Pyranosides: Access to Sugar-Derived Polyesters with Tunable Properties. <i>Macromolecules</i> , 2020, 53, 8192-8201.	2.2	8
79	Copper-mediated anomeric C-O-arylation with organoboron reagents. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 5671-5674.	1.5	6
80	The halogen bond in solution: general discussion. <i>Faraday Discussions</i> , 2017, 203, 347-370.	1.6	5
81	Catalyst-Controlled, Site-Selective Sulfamoylation of Carbohydrate Derivatives. <i>Organic Letters</i> , 2022, 24, 5249-5253.	2.4	5
82	A Nonlinear Ordinary Differential Equation for Generating Graphical Rate Equations from Concentration Versus Time Data. <i>Topics in Catalysis</i> , 2017, 60, 554-563.	1.3	4
83	Chiral phosphine ligand libraries based on the Bull-James three-component supramolecular assembly. <i>Supramolecular Chemistry</i> , 2019, 31, 190-202.	1.5	4
84	Beyond the halogen bond: general discussion. <i>Faraday Discussions</i> , 2017, 203, 227-244.	1.6	2
85	Solid-state chemistry and applications: general discussion. <i>Faraday Discussions</i> , 2017, 203, 459-483.	1.6	2