

Mark S Taylor

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.

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 | Asymmetric catalysis by chiral hydrogen-bond donors. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 1520-43 | 16.4 | 1603 |
| 85 | Highly enantioselective catalytic acyl-pictet-spengler reactions. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10558-9 | 16.4 | 539 |
| 84 | Asymmetrische Katalyse durch chirale Wasserstoffbrückendonoren. <i>Angewandte Chemie</i> , 2006 , 118, 1550-1573 | 3.6 | 529 |
| 83 | Halogen bonding in solution: thermodynamics and applications. <i>Chemical Society Reviews</i> , 2013 , 42, 1667-80 | 5.9 | 455 |
| 82 | Thermodynamics of halogen bonding in solution: substituent, structural, and solvent effects. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1646-53 | 16.4 | 308 |
| 81 | Highly enantioselective conjugate additions to alpha,beta-unsaturated ketones catalyzed by a (salen)Al complex. <i>Journal of the American Chemical Society</i> , 2005 , 127, 1313-7 | 16.4 | 308 |
| 80 | 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, 10559-67 | 16.4 | 267 |
| 79 | Enantioselective Michael additions to alpha,beta-unsaturated imides catalyzed by a Salen-Al complex. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11204-5 | 16.4 | 248 |
| 78 | Enantioselective thiourea-catalyzed acyl-mannich reactions of isoquinolines. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6700-4 | 16.4 | 242 |
| 77 | A tridentate halogen-bonding receptor for tight binding of halide anions. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1674-7 | 16.4 | 213 |
| 76 | Borinic acid-catalyzed regioselective acylation of carbohydrate derivatives. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3724-7 | 16.4 | 200 |
| 75 | Chalcogen bonding in solution: interactions of benzotelluradiazoles with anionic and uncharged Lewis bases. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4126-33 | 16.4 | 185 |
| 74 | Regioselective activation of glycosyl acceptors by a diarylborinic acid-derived catalyst. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13926-9 | 16.4 | 161 |
| 73 | 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, 8260-7 | 16.4 | 155 |
| 72 | Organoboron Acids and Their Derivatives as Catalysts for Organic Synthesis. <i>ACS Catalysis</i> , 2013 , 3, 945-962 | 9.2 | 121 |
| 71 | Site-Selective Functionalization of Hydroxyl Groups in Carbohydrate Derivatives. <i>Chemical Reviews</i> , 2018 , 118, 11457-11517 | 68.1 | 117 |
| 70 | Anion recognition by a bidentate chalcogen bond donor. <i>Chemical Communications</i> , 2016 , 52, 9881-4 | 5.8 | 113 |

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| 69 | Catalysis based on reversible covalent interactions of organoboron compounds. <i>Accounts of Chemical Research</i> , 2015 , 48, 295-305 | 24.3 | 102 |
| 68 | Measurements of weak halogen bond donor abilities with tridentate anion receptors. <i>Chemical Communications</i> , 2010 , 46, 9025-7 | 5.8 | 101 |
| 67 | N,N'-diarylsquaramides: general, high-yielding synthesis and applications in colorimetric anion sensing. <i>Journal of Organic Chemistry</i> , 2010 , 75, 3983-92 | 4.2 | 101 |
| 66 | Regioselective alkylation of carbohydrate derivatives catalyzed by a diarylborinic acid derivative. <i>Organic Letters</i> , 2011 , 13, 3090-3 | 6.2 | 96 |
| 65 | Anion recognition based on halogen, chalcogen, pnictogen and tetrel bonding. <i>Coordination Chemistry Reviews</i> , 2020 , 413, 213270 | 23.2 | 85 |
| 64 | Correlations between computation and experimental thermodynamics of halogen bonding. <i>Journal of Organic Chemistry</i> , 2012 , 77, 3483-91 | 4.2 | 84 |
| 63 | Borinic Acid Catalyzed Stereo- and Regioselective Couplings of Glycosyl Methanesulfonates. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11058-66 | 16.4 | 83 |
| 62 | Halogen bonding between anions and iodoperfluoroorganics: solution-phase thermodynamics and multidentate-receptor design. <i>Chemistry - A European Journal</i> , 2013 , 19, 2050-8 | 4.8 | 83 |
| 61 | Boron-catalyzed direct aldol reactions of pyruvic acids. <i>Organic Letters</i> , 2009 , 11, 5486-9 | 6.2 | 74 |
| 60 | Asymmetric catalysis in complex target synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 5368-73 | 11.5 | 74 |
| 59 | Organoboron-catalyzed regio- and stereoselective formation of β -deoxyglycosidic linkages. <i>Organic Letters</i> , 2014 , 16, 3604-7 | 6.2 | 69 |
| 58 | Anion detection by a fluorescent poly(squaramide): self-assembly of anion-binding sites by polymer aggregation. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2059-62 | 16.4 | 69 |
| 57 | Synthesis of cardiac glycoside analogs by catalyst-controlled, regioselective glycosylation of digitoxin. <i>Organic Letters</i> , 2013 , 15, 1358-61 | 6.2 | 65 |
| 56 | Polymers for anion recognition and sensing. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 21-34 | 4.8 | 64 |
| 55 | Catalyst-Controlled Regioselective Reactions of Carbohydrate Derivatives. <i>Synthesis</i> , 2012 , 44, 3421-3431 | 3.9 | 60 |
| 54 | 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 | 16.4 | 58 |
| 53 | 9-Hetero-10-boraanthracene-derived borinic acid catalysts for regioselective activation of polyols. <i>Chemical Science</i> , 2013 , 4, 3298 | 9.4 | 55 |
| 52 | Solution-phase self-assembly of complementary halogen bonding polymers. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5080-6 | 16.4 | 47 |

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| 51 | Applications of organoboron compounds in carbohydrate chemistry and glycobiology: analysis, separation, protection, and activation. <i>Carbohydrate Research</i> , 2013 , 381, 112-22 | 2.9 | 43 |
| 50 | Boronic esters as protective groups in carbohydrate chemistry: processes for acylation, silylation and alkylation of glycoside-derived boronates. <i>Organic and Biomolecular Chemistry</i> , 2016 , 15, 132-143 | 3.9 | 39 |
| 49 | Regioselective silylation of pyranosides using a boronic acid/Lewis base co-catalyst system. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 5409-12 | 3.9 | 36 |
| 48 | Site-Selective, Copper-Mediated O-Arylation of Carbohydrate Derivatives. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15515-15521 | 16.4 | 35 |
| 47 | Borinic Acids: A Neglected Class of Organoboron Compounds for Recognition of Diols in Aqueous Solution. <i>Australian Journal of Chemistry</i> , 2011 , 64, 1466 | 1.2 | 33 |
| 46 | Self-Assembly of Polymer Nanostructures through Halogen Bonding Interactions of an Iodoperfluoroarene-Functionalized Polystyrene Derivative. <i>Macromolecules</i> , 2017 , 50, 3807-3817 | 5.5 | 29 |
| 45 | 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 | 2.4 | 27 |
| 44 | Boronic acid/Bronsted acid co-catalyst systems for the synthesis of 2H-chromenes from phenols and α -unsaturated carbonyls. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 6703-11 | 3.9 | 26 |
| 43 | 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, 7638-47 | 3.6 | 24 |
| 42 | Synthesis of benzannulated heterocycles by twofold Suzuki-Miyaura couplings of cyclic diarylboronic acids. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 1391-4 | 3.9 | 23 |
| 41 | Sequential Functionalizations of Carbohydrates Enabled by Boronic Esters as Switchable Protective/Activating Groups. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8777-8791 | 4.2 | 23 |
| 40 | Site-selective redox isomerizations of furanosides using a combined arylboronic acid/photoredox catalyst system. <i>Chemical Science</i> , 2020 , 11, 1531-1537 | 9.4 | 22 |
| 39 | Boronic Acids as Phase-Transfer Reagents for Fischer Glycosidations in Low-Polarity Solvents. <i>Journal of Organic Chemistry</i> , 2017 , 82, 11406-11417 | 4.2 | 21 |
| 38 | Molecular recognition: The I π S have it. <i>Nature Chemistry</i> , 2014 , 6, 1029-31 | 17.6 | 21 |
| 37 | Catalyst-controlled polycondensation of glycerol with diacyl chlorides: linear polyesters from a trifunctional monomer. <i>Chemical Science</i> , 2017 , 8, 7106-7111 | 9.4 | 21 |
| 36 | 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, 8501-10 | 4.2 | 20 |
| 35 | Borinic Acid Catalyzed, Regioselective Chloroacylations and Chlorosulfonylations of 2,3-Epoxy Alcohols. <i>Organic Letters</i> , 2015 , 17, 3482-5 | 6.2 | 18 |
| 34 | Reversible covalent interactions of α -aminoboronic acids with carbohydrate derivatives. <i>Chemical Communications</i> , 2017 , 53, 1809-1812 | 5.8 | 16 |

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| 33 | P-Stereogenic β -Aminophosphines: Preparation and Applications in Enantioselective Organocatalysis. <i>Journal of Organic Chemistry</i> , 2017 , 82, 3173-3182 | 4.2 | 16 |
| 32 | Neutral Chiral Tetrakis-Iodo-Triazole Halogen-Bond Donor for Chiral Recognition and Enantioselective Catalysis. <i>Chemistry - A European Journal</i> , 2021 , 27, 2315-2320 | 4.8 | 16 |
| 31 | Borinic acid-catalyzed stereo- and site-selective synthesis of β -glycosylceramides. <i>Chemical Communications</i> , 2017 , 53, 5978-5980 | 5.8 | 13 |
| 30 | A versatile synthesis of chiral β -aminophosphines. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 5665-72 | 3.9 | 13 |
| 29 | Borinic Acid-Catalyzed, Regioselective Ring Opening of 3,4-Epoxy Alcohols. <i>Organic Letters</i> , 2018 , 20, 5375-5379 | 6.2 | 13 |
| 28 | Halogen bonding and π -interactions in the solid-state structure of a butadiynylene-linked bis(iodoperfluoroarene). <i>CrystEngComm</i> , 2013 , 15, 3097 | 3.3 | 13 |
| 27 | 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 | 4.2 | 12 |
| 26 | 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 | 5.5 | 12 |
| 25 | Anion Detection by a Fluorescent Poly(squaramide): Self-Assembly of Anion-Binding Sites by Polymer Aggregation. <i>Angewandte Chemie</i> , 2011 , 123, 2107-2110 | 3.6 | 11 |
| 24 | Borinic Acid/Halide Co-catalyzed Semipinacol Rearrangements of 2,3-Epoxy Alcohols. <i>Organic Letters</i> , 2018 , 20, 5327-5331 | 6.2 | 10 |
| 23 | Exploring the construction of multicompartmental micelles by halogen bonding of complementary macromolecules. <i>Faraday Discussions</i> , 2017 , 203, 285-299 | 3.6 | 10 |
| 22 | Diarylborinic Acid-Catalyzed, Site-Selective Sulfation of Carbohydrate Derivatives. <i>Journal of Organic Chemistry</i> , 2019 , 84, 900-908 | 4.2 | 10 |
| 21 | Dehydrative glycosidations of 2-deoxysugar derivatives catalyzed by an arylboronic ester. <i>Carbohydrate Research</i> , 2018 , 470, 42-49 | 2.9 | 10 |
| 20 | Catalyst-Controlled, Regioselective Reactions of Carbohydrate Derivatives. <i>Topics in Current Chemistry</i> , 2016 , 372, 125-55 | | 9 |
| 19 | 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 | 5.6 | 9 |
| 18 | Rhodium-Catalyzed Tandem Isomerization-Allylation: From Diallyl Carbonates to β -Quaternary Aldehydes. <i>ACS Catalysis</i> , 2019 , 9, 11808-11812 | 13.1 | 8 |
| 17 | Synthesis of Ketodeoxysugars from Acylated Pyranosides Using Photoredox Catalysis and Hydrogen Atom Transfer. <i>ACS Catalysis</i> , 2021 , 11, 11171-11179 | 13.1 | 8 |
| 16 | Anion Recognition in Solution via Halogen Bonding. <i>Topics in Current Chemistry</i> , 2015 , 359, 27-48 | | 7 |

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| 15 | 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 | 6.2 | 6 |
| 14 | Boronic acid-promoted site-selective Fischer esterifications of sugar alcohols. <i>Green Chemistry</i> , 2019 , 21, 5363-5367 | 10 | 5 |
| 13 | Recent advances in the direct α -arylation of carbohydrates. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 514-524 | 3.9 | 5 |
| 12 | A Nonlinear Ordinary Differential Equation for Generating Graphical Rate Equations from Concentration Versus Time Data. <i>Topics in Catalysis</i> , 2017 , 60, 554-563 | 2.3 | 4 |
| 11 | 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 | 6.2 | 4 |
| 10 | Copper-mediated anomeric O-arylation with organoboron reagents. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 5671-5674 | 3.9 | 3 |
| 9 | Photocatalytic, site-selective oxidations of carbohydrates. <i>Chemical Communications</i> , 2021 , 57, 12135-12138 | 3.88 | 3 |
| 8 | Site-Selective, Organoboron-Catalyzed Polymerization of Pyranosides: Access to Sugar-Derived Polyesters with Tunable Properties. <i>Macromolecules</i> , 2020 , 53, 8192-8201 | 5.5 | 3 |
| 7 | Chiral phosphine ligand libraries based on the Bullman three-component supramolecular assembly. <i>Supramolecular Chemistry</i> , 2019 , 31, 190-202 | 1.8 | 3 |
| 6 | Regioselective Glycosylation Methods 2017 , 231-253 | | 2 |
| 5 | The halogen bond in solution: general discussion. <i>Faraday Discussions</i> , 2017 , 203, | 3.6 | 2 |
| 4 | Boronic Acid Catalyzed Regioselective α -Alkylation of Azoles.. <i>Journal of Organic Chemistry</i> , 2022 , | 4.2 | 2 |
| 3 | Beyond the halogen bond: general discussion. <i>Faraday Discussions</i> , 2017 , 203, 227-244 | 3.6 | 1 |
| 2 | Solid-state chemistry and applications: general discussion. <i>Faraday Discussions</i> , 2017 , 203, 459-483 | 3.6 | 1 |
| 1 | Thermodynamics of Halogen Bonding in Solution 2021 , 43-82 | | |