

Milton R Smith Iii

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6241216/publications.pdf>

Version: 2024-02-01

77
papers

8,329
citations

50276

46
h-index

79698

73
g-index

81
all docs

81
docs citations

81
times ranked

5623
citing authors

#	ARTICLE	IF	CITATIONS
1	Amide directed iridium C(sp ³)â€“H borylation catalysis with high N-methyl selectivity. <i>Tetrahedron</i> , 2022, 109, 132578.	1.9	2
2	Steric Shielding Effects Induced by Intramolecular Câ€“Hâ€“O Hydrogen Bonding: Remote Borylation Directed by Bpin Groups. <i>ACS Catalysis</i> , 2022, 12, 2694-2705.	11.2	14
3	Ammonia eurfstics: Electrolytes for liquid energy storage and conversion at room temperature and ambient pressure. <i>Joule</i> , 2022, , .	24.0	0
4	Merging Iridium-Catalyzed Câ€“H Borylations with Palladium-Catalyzed Cross-Couplings Using Triorganoindium Reagents. <i>Journal of Organic Chemistry</i> , 2022, 87, 751-759.	3.2	3
5	Modulating Polymer-siRNA Binding Does Not Promote Polyplex-Mediated Silencing. <i>Nucleic Acid Therapeutics</i> , 2021, 31, 229-236.	3.6	0
6	Recent Advances and Challenges of Electrocatalytic N ₂ Reduction to Ammonia. <i>Chemical Reviews</i> , 2020, 120, 5437-5516.	47.7	718
7	Kinetic analysis of the intracellular processing of siRNAs by confocal microscopy. <i>Microscopy (Oxford, England)</i> , 2020, 69, 401-407.	1.5	0
8	One-Pot Iridium Catalyzed Câ€“H Borylation/Sonogashira Cross-Coupling: Access to Borylated Aryl Alkynes. <i>Molecules</i> , 2020, 25, 1754.	3.8	5
9	Câ€“H Borylation Catalysts that Distinguish Between Similarly Sized Substituents Like Fluorine and Hydrogen. <i>Organic Letters</i> , 2019, 21, 6388-6392.	4.6	33
10	Electronic and Structural Comparisons between Iron(II/III) and Ruthenium(II/III) Imide Analogs. <i>Inorganic Chemistry</i> , 2019, 58, 11699-11715.	4.0	8
11	Para-Selective, Iridium-Catalyzed Câ€“H Borylations of Sulfated Phenols, Benzyl Alcohols, and Anilines Directed by Ion-Pair Electrostatic Interactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 15483-15487.	13.7	88
12	Homogeneous electrocatalytic oxidation of ammonia to N ₂ under mild conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2849-2853.	7.1	87
13	Cobalt-Catalyzed Câ€“H Borylation of Alkyl Arenes and Heteroarenes Including the First Selective Borylations of Secondary Benzylic Câ€“H Bonds. <i>Organometallics</i> , 2018, 37, 1567-1574.	2.3	34
14	Achieving High Ortho Selectivity in Aniline Câ€“H Borylations by Modifying Boron Substituents. <i>ACS Catalysis</i> , 2018, 8, 6216-6223.	11.2	54
15	As Precious as Platinum: Iron Nitride for Electrocatalytic Oxidation of Liquid Ammonia. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16228-16235.	8.0	33
16	Ir-Catalyzed ortho-Borylation of Phenols Directed by Substrateâ€“Ligand Electrostatic Interactions: A Combined Experimental/in Silico Strategy for Optimizing Weak Interactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 7864-7871.	13.7	131
17	Dextran functionalization enhances nanoparticle-mediated siRNA delivery and silencing. <i>Technology</i> , 2016, 04, 42-54.	1.4	13
18	Improved synthesis of electron deficient bipyridines. <i>Tetrahedron Letters</i> , 2016, 57, 2231-2232.	1.4	9

#	ARTICLE	IF	CITATIONS
19	Bismuth Acetate as a Catalyst for the Sequential Protodeboronation of Di- and Triborylated Indoles. <i>Organic Letters</i> , 2016, 18, 1554-1557.	4.6	37
20	Catalytic borylation of methane. <i>Science</i> , 2016, 351, 1424-1427.	12.6	147
21	Harnessing C-H Borylation/Deborylation for Selective Deuteration, Synthesis of Boronate Esters, and Late Stage Functionalization. <i>Journal of Organic Chemistry</i> , 2015, 80, 8341-8353.	3.2	58
22	Electrolysis of liquid ammonia for hydrogen generation. <i>Energy and Environmental Science</i> , 2015, 8, 2775-2781.	30.8	88
23	Reversible Borylene Formation from Ring Opening of Pinacolborane and Other Intermediates Generated from Five-Coordinate Tris-Boryl Complexes: Implications for Catalytic C-H Borylation. <i>Organometallics</i> , 2015, 34, 4732-4740.	2.3	22
24	Gregory L. Hillhouse: His Life, His Art, His Science, and the Rise of "Double Nickel". <i>Organometallics</i> , 2015, 34, 4633-4636.	2.3	0
25	A Catalytic Borylation/Dehalogenation Route to α -Fluoro Arylboronates. <i>Organic Letters</i> , 2014, 16, 6072-6075.	4.6	23
26	Silyl Phosphorus and Nitrogen Donor Chelates for Homogeneous Ortho Borylation Catalysis. <i>Journal of the American Chemical Society</i> , 2014, 136, 14345-14348.	13.7	149
27	A Traceless Directing Group for C-H Borylation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12915-12919.	13.8	168
28	High-Throughput Optimization of Ir-Catalyzed C-H Borylation: A Tutorial for Practical Applications. <i>Journal of the American Chemical Society</i> , 2013, 135, 7572-7582.	13.7	194
29	Outer-Sphere Direction in Iridium C-H Borylation. <i>Journal of the American Chemical Society</i> , 2012, 134, 11350-11353.	13.7	167
30	Practical One-Pot C-H Activation/Borylation/Oxidation: Preparation of 3-Bromo-5-methylphenol on a Multigram Scale. <i>Synthesis</i> , 2011, 2011, 857-859.	2.3	5
31	Divergent Synthesis of 2,3,5-Substituted Thiophenes by C-H Activation/Borylation/Suzuki Coupling. <i>Heterocycles</i> , 2010, 80, 1429.	0.7	9
32	Electronic effects in iridium C-H borylations: insights from unencumbered substrates and variation of boryl ligand substituents. <i>Chemical Communications</i> , 2010, 46, 7724.	4.1	104
33	Boc Groups as Protectors and Directors for Ir-Catalyzed C-H Borylation of Heterocycles. <i>Journal of Organic Chemistry</i> , 2009, 74, 9199-9201.	3.2	98
34	Getting the sterics just right: a five-coordinate iridium trisboryl complex that reacts with C-H bonds at room temperature. <i>Chemical Communications</i> , 2009, , 5731.	4.1	65
35	Iridium-catalyzed borylation of thiophenes: versatile, synthetic elaboration founded on selective C-H functionalization. <i>Tetrahedron</i> , 2008, 64, 6103-6114.	1.9	82
36	"Clickable" Polyglycolides: Tunable Synthons for Thermoresponsive, Degradable Polymers. <i>Macromolecules</i> , 2008, 41, 1937-1944.	4.8	172

#	ARTICLE	IF	CITATIONS
37	Glass Transitions in Polylactides. <i>Polymer Reviews</i> , 2008, 48, 64-84.	10.9	98
38	Water-Soluble Thermoresponsive Polylactides. <i>Macromolecules</i> , 2008, 41, 318-324.	4.8	96
39	Synthesis of Polymandelide: A Degradable Polylactide Derivative with Polystyrene-like Properties. <i>Macromolecules</i> , 2007, 40, 6040-6047.	4.8	92
40	Cyclohexyl-Substituted Polyglycolides with High Glass Transition Temperatures. <i>Macromolecules</i> , 2007, 40, 9304-9312.	4.8	65
41	Amphiphilic PEG/alkyl-grafted comb polylactides. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5227-5236.	2.3	38
42	One-Pot Borylation/Amination Reactions: Syntheses of Arylamine Boronate Esters from Halogenated Arenes. <i>Organic Letters</i> , 2006, 8, 1407-1410.	4.6	54
43	Aromatic Borylation/Amidation/Oxidation: A Rapid Route to 5-Substituted 3-Amidophenols. <i>Organic Letters</i> , 2006, 8, 1411-1414.	4.6	60
44	Ir-Catalyzed Functionalization of 2-Substituted Indoles at the 7-Position: A Nitrogen-Directed Aromatic Borylation. <i>Journal of the American Chemical Society</i> , 2006, 128, 15552-15553.	13.7	258
45	Regulation of Osteoblast Gene Expression and Phenotype by Polylactide-fatty Acid Surfaces. <i>Molecular Biology Reports</i> , 2006, 33, 1-12.	2.3	3
46	Sterically Directed Functionalization of Aromatic C-H Bonds: Selective Borylation Ortho to Cyano Groups in Arenes and Heterocycles. <i>Journal of the American Chemical Society</i> , 2005, 127, 10539-10544.	13.7	236
47	C-H Activation/Borylation/Oxidation: A One-Pot Unified Route To Meta-Substituted Phenols Bearing Ortho-/Para-Directing Groups. <i>Journal of the American Chemical Society</i> , 2003, 125, 7792-7793.	13.7	308
48	Remarkably Selective Iridium Catalysts for the Elaboration of Aromatic C-H Bonds. <i>Science</i> , 2002, 295, 305-308.	12.6	1,032
49	Regioselective Aromatic Borylation in an Inert Solvent. <i>Organic Letters</i> , 2001, 3, 2831-2833.	4.6	151
50	Stereoselective Polymerization of a Racemic Monomer with a Racemic Catalyst: Direct Preparation of the Polylactic Acid Stereocomplex from Racemic Lactide. <i>Journal of the American Chemical Society</i> , 2000, 122, 1552-1553.	13.7	383
51	Steric and Chelate Directing Effects in Aromatic Borylation. <i>Journal of the American Chemical Society</i> , 2000, 122, 12868-12869.	13.7	369
52	Synthesis, structure, and reactivity of η^2 -diketiminato boron(III) complexes. <i>Polyhedron</i> , 1999, 18, 2405-2414.	2.2	68
53	Stoichiometric and Catalytic $B^{\wedge}C$ Bond Formation from Unactivated Hydrocarbons and Boranes. <i>Journal of the American Chemical Society</i> , 1999, 121, 7696-7697.	13.7	341
54	Syntheses and Structures of Five-Coordinate Zirconium Alkyl Complexes Supported by Diketiminato Ligands. <i>Organometallics</i> , 1999, 18, 1693-1698.	2.3	88

#	ARTICLE	IF	CITATIONS
55	A Mechanistic Dichotomy in the Reactions of Cp ₂ M(CH ₂ CHMe) (M = Nb, Ta) with Catecholborane:Â Generation of Boryl Complexes by Propylene Hydroboration and Propylene Loss. <i>Organometallics</i> , 1999, 18, 235-247.	2.3	43
56	Five- and Six-Coordinate Group 4 Compounds Stabilized by Î ² -Ketiminato and Diketiminato Ligands:Â Syntheses and Comparisons between Solid-State and Solution Structures. <i>Inorganic Chemistry</i> , 1999, 38, 5964-5977.	4.0	99
57	Synthesis, Structure, and Reactivity of Î ² -Diketiminato Aluminum Complexes. <i>Organometallics</i> , 1998, 17, 3070-3076.	2.3	203
58	Efficient Olefin Diboration by a Base-Free Platinum Catalyst. <i>Organometallics</i> , 1997, 16, 2757-2759.	2.3	143
59	Group 5 Metallocene Complexes as Models for Metal-Mediated Hydroboration:Â Synthesis of a Reactive Borane Adduct,endo-Cp* ₂ Nb(H ₂ BO ₂ C ₆ H ₄), via Hydroboration of Coordinated Olefins. <i>Journal of the American Chemical Society</i> , 1997, 119, 9699-9708.	13.7	78
60	Significance of Borane Tuning in Titanium-Catalyzed Borylation Chemistryâ€. <i>Journal of the American Chemical Society</i> , 1997, 119, 2743-2744.	13.7	67
61	Mechanistic Investigation of Stoichiometric Alkyne Insertion into Ptâ”B Bonds and Related Chemistry Bearing on the Catalytic Diborylation of Alkynes Mediated by Platinum(II) Diboryl Complexesâ€. <i>Organometallics</i> , 1996, 15, 5155-5165.	2.3	165
62	Synthesis and Properties of the Titanaoxacyclobutane Derived from (Me ₅ C ₅) ₂ Ti(O)(L) and Allene. <i>Organometallics</i> , 1996, 15, 1446-1450.	2.3	29
63	A Î€-Donor Spectrochemical Series for X in (Me ₅ C ₅) ₂ TiX, and Î ² -Agostic Interactions in X = Et and N(Me)Ph. <i>Journal of the American Chemical Society</i> , 1996, 118, 1719-1728.	13.7	116
64	Reactions of [W(NH=NR)(CO) ₂ (PPh ₃) ₂] ⁺ [PF ₆ â”] with azide and amines that occur without displacement of the NH=NR ligand. <i>Polyhedron</i> , 1996, 15, 2551-2557.	2.2	6
65	Facile, Metal-Mediated Dehydrogenative Borylation of Ethylene: Selective Conversion of a Titanium-Bound Olefin to a Vinylboronate Ester. <i>Journal of the American Chemical Society</i> , 1995, 117, 6615-6616.	13.7	61
66	Reactivity of Organoplatinum Complexes with C ₆ H ₄ O ₂ B-BO ₂ C ₆ H ₄ : Syntheses of a Platinum Diboryl Complex with, and without, Metathesis of Boron-Boron and Metal-Carbon Bonds. <i>Journal of the American Chemical Society</i> , 1995, 117, 4403-4404.	13.7	190
67	Synthesis of endo-Cp ₂ TaH ₂ (BO ₂ C ₆ H ₄) and exo-Cp ₂ TaH ₂ (BO ₂ C ₆ H ₄): Regioisomers of the First Tantalum Boryl Complexes. <i>Journal of the American Chemical Society</i> , 1994, 116, 10811-10812.	13.7	82
68	Syntheses and reactions of hydrazine and diazene complexes of tungsten. The first example of monodentate coordination of diazene. <i>Journal of the American Chemical Society</i> , 1993, 115, 8638-8642.	13.7	74
69	Preparation of monomeric (Me ₅ C ₅) ₂ VO and (Me ₅ C ₅) ₂ Ti(O)(L) and their decomposition to (Me ₅ C ₅) ₄ M ₄ (.mu.-O) ₆ . <i>Journal of the American Chemical Society</i> , 1993, 115, 7049-7050.	13.7	127
70	Preparation and reactivity of molybdenum hydride and phenyldiazene complexes. <i>Inorganic Chemistry</i> , 1992, 31, 1535-1538.	4.0	18
71	Synthesis and characterization of a carbon suboxide complex of nickel, (PPh ₃) ₂ Ni(C,C':.eta. ² -C ₃ O ₂). <i>Organometallics</i> , 1991, 10, 361-362.	2.3	29
72	Reactions of terminal alkynes with cis-phenyldiazene, NH:N(C ₆ H ₅). <i>Journal of the American Chemical Society</i> , 1989, 111, 3764-3765.	13.7	11

#	ARTICLE	IF	CITATIONS
73	Oxidation of methylhydrazine at a metal center. Stereoselective synthesis of cis-methyldiazene, NH = N(CH ₃). Journal of the American Chemical Society, 1989, 111, 8312-8314.	13.7	21
74	Stereoselective synthesis of monosubstituted cis-aryldiazenes, NH:NR. Journal of the American Chemical Society, 1988, 110, 4066-4068.	13.7	21
75	Neutral square planar cobalt(III) complexes. Journal of the American Chemical Society, 1988, 110, 423-428.	13.7	36
76	Selective molecular oxygen oxidation of thio ethers to sulfoxides catalyzed by cerium(IV). Journal of the American Chemical Society, 1988, 110, 177-180.	13.7	69
77	Advances in Metal Boryl and Metal-Mediated B-X Activation Chemistry. Progress in Inorganic Chemistry, 0, , 505-567.	3.0	38