

Robert E Maleczka Jr

List of Publications by Year in descending order

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54
papers

3,764
citations

186265

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155660

55
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57
docs citations

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times ranked

2723
citing authors

#	ARTICLE	IF	CITATIONS
1	Remarkably Selective Iridium Catalysts for the Elaboration of Aromatic C-H Bonds. <i>Science</i> , 2002, 295, 305-308.	12.6	1,032
2	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
3	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
4	A Traceless Directing Group for C-H Borylation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12915-12919.	13.8	168
5	Outer-Sphere Direction in Iridium C-H Borylation. <i>Journal of the American Chemical Society</i> , 2012, 134, 11350-11353.	13.7	167
6	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
7	Ir-Catalyzed ortho-Borylation of Phenols Directed by Substrate-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
8	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
9	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
10	Total Synthesis of Proposed Amphidinolide A via a Highly Selective Ring-Closing Metathesis. <i>Organic Letters</i> , 2002, 4, 2841-2844.	4.6	90
11	Para-Selective, Iridium-Catalyzed C-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	Iridium-catalyzed borylation of thiophenes: versatile, synthetic elaboration founded on selective C-H functionalization. <i>Tetrahedron</i> , 2008, 64, 6103-6114.	1.9	82
13	Stille Couplings Catalytic in Tin: The σ -Sn ⁰ Approach. <i>Journal of the American Chemical Society</i> , 2001, 123, 3194-3204.	13.7	81
14	A New Approach for the Generation and Reaction of Organotin Hydrides: The Development of Reactions Catalytic in Tin. <i>Journal of Organic Chemistry</i> , 1999, 64, 342-343.	3.2	80
15	Stille Couplings Catalytic in Tin: Beyond Proof-of-Principle. <i>Journal of the American Chemical Society</i> , 2000, 122, 384-385.	13.7	73
16	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
17	A Nozaki-Hiyama-Kishi Ni(II)/Cr(II) Coupling Approach to the Phomactins. <i>Organic Letters</i> , 2001, 3, 1491-1494.	4.6	61
18	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

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19	Microwave-Assisted One-Pot Hydrostannylation/Stille Couplings. <i>Organic Letters</i> , 2000, 2, 3655-3658.	4.6	54
20	One-Pot Borylation/Amination Reactions: Syntheses of Arylamine Boronate Esters from Halogenated Arenes. <i>Organic Letters</i> , 2006, 8, 1407-1410.	4.6	54
21	Achieving High Ortho Selectivity in Aniline C-H Borylations by Modifying Boron Substituents. <i>ACS Catalysis</i> , 2018, 8, 6216-6223.	11.2	54
22	Stille Couplings Catalytic in Tin: A Approach. <i>Organic Letters</i> , 2001, 3, 4173-4176.	4.6	46
23	Development of a One-Pot Palladium-Catalyzed Hydrostannylation/Stille Coupling Protocol with Catalytic Amounts of Tin. <i>Journal of Organic Chemistry</i> , 1998, 63, 9622-9623.	3.2	40
24	Application of Fluoride-Catalyzed Silane Reductions of Tin Halides to the in Situ Preparation of Vinylstannanes. <i>Journal of Organic Chemistry</i> , 1999, 64, 5958-5965.	3.2	37
25	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
26	Cobalt-Catalyzed C-H Borylation of Alkyl Arenes and Heteroarenes Including the First Selective Borylations of Secondary Benzylic C-H Bonds. <i>Organometallics</i> , 2018, 37, 1567-1574.	2.3	34
27	C-H Borylation Catalysts that Distinguish Between Similarly Sized Substituents Like Fluorine and Hydrogen. <i>Organic Letters</i> , 2019, 21, 6388-6392.	4.6	33
28	Synthesis and Fluoride-Promoted Wittig Rearrangements of β -Alkoxysilanes. <i>Organic Letters</i> , 1999, 1, 1111-1113.	4.6	26
29	Stereoconvergent [1,2]- and [1,4]-Wittig Rearrangements of 2-Silyl-6-aryl-5,6-dihydropyrans: A Tale of Steric vs Electronic Regiocontrol of Divergent Pathways. <i>Journal of Organic Chemistry</i> , 2015, 80, 1163-1191.	3.2	24
30	A Catalytic Borylation/Dehalogenation Route to <i>o</i> -Fluoro Arylboronates. <i>Organic Letters</i> , 2014, 16, 6072-6075.	4.6	23
31	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
32	Methylolithium-Promoted Wittig Rearrangements of β -Alkoxysilanes. <i>Organic Letters</i> , 1999, 1, 1115-1118.	4.6	20
33	β -Substituted acylsilanes via a highly selective [1,4]-Wittig rearrangement of β -benzyloxyallylsilane. <i>Chemical Communications</i> , 2006, , 2466-2468.	4.1	19
34	Reactions of vinyltributylgermanes and aryl halides under Heck conditions. <i>Tetrahedron Letters</i> , 2009, 50, 4407-4410.	1.4	19
35	[1,2]- and [1,4]-Wittig rearrangements of β -alkoxysilanes: effect of substitutions at both the migrating benzylic carbon and the terminal sp ² carbon of the allyl moiety. <i>Tetrahedron</i> , 2013, 69, 849-860.	1.9	16
36	A general diversity oriented synthesis of asymmetric double-decker shaped silsesquioxanes. <i>Chemical Communications</i> , 2019, 55, 8623-8626.	4.1	15

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37	Steric Shielding Effects Induced by Intramolecular C-H...O Hydrogen Bonding: Remote Borylation Directed by Bpin Groups. <i>ACS Catalysis</i> , 2022, 12, 2694-2705.	11.2	14
38	Studies on the deprotonation and subsequent [1,4]-Wittig rearrangement of β -benzyloxyallylsilanes. <i>Tetrahedron Letters</i> , 2006, 47, 6565-6568.	1.4	11
39	Ni, Co, and Mo-catalyzed alkyne hydrostannations using Bu ₃ SnCl/PMHS/KF/18-crown-6 as an in situ Bu ₃ SnH source. <i>Tetrahedron Letters</i> , 2011, 52, 5285-5287.	1.4	11
40	EFFECT OF BYPRODUCTS FROM THE OZONATION OF PYRENE: BIPHENYL-2,2',6,6'-TETRACARBALDEHYDE AND BIPHENYL-2,2',6,6'-TETRACARBOXYLIC ACID ON GAP JUNCTION INTERCELLULAR COMMUNICATION AND NEUTROPHIL FUNCTION. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 733.	4.3	10
41	Separation of asymmetrically capped double-decker silsesquioxanes mixtures. <i>Polyhedron</i> , 2018, 155, 189-193.	2.2	10
42	Copper Puts Arenes in a Hard Position. <i>Science</i> , 2009, 323, 1572-1573.	12.6	9
43	Improved synthesis of electron deficient bipyridines. <i>Tetrahedron Letters</i> , 2016, 57, 2231-2232.	1.4	9
44	Enzymatic kinetic resolution of β -hydroxysilanes. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 527-534.	1.8	6
45	Non-Pd transition metal-catalyzed hydrostannations: Bu ₃ SnF/PMHS as a tin hydride source. <i>Tetrahedron</i> , 2013, 69, 4000-4008.	1.9	6
46	HPLC Characterization of cis and trans Mixtures of Double-Decker Shaped Silsesquioxanes. <i>Silicon</i> , 2019, 11, 5-13.	3.3	6
47	One-Pot Iridium Catalyzed C-H Borylation/Sonogashira Cross-Coupling: Access to Borylated Aryl Alkynes. <i>Molecules</i> , 2020, 25, 1754.	3.8	5
48	Phase Behavior of cis/trans Mixtures of Double-Decker Shaped Silsesquioxanes for Processability Enhancement. <i>ACS Applied Nano Materials</i> , 2019, 2, 1223-1231.	5.0	4
49	Predictive Liquid Chromatography Separation for Mixtures of Functionalized Double-Decker Shaped Silsesquioxanes Based on HPLC Chromatograms. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 403-410.	3.7	4
50	Aryl-aryl cross-couplings that avoid the preparation of haloaromatics. <i>Current Opinion in Drug Discovery & Development</i> , 2008, 11, 853-69.	1.9	4
51	Silylcyclopropanes by Selective [1,4]-Wittig Rearrangement of 4-Silyl-5,6-dihydropyrans. <i>Organic Letters</i> , 2021, 23, 5724-5728.	4.6	3
52	Merging Iridium-Catalyzed C-H Borylations with Palladium-Catalyzed Cross-Couplings Using Triorganoindium Reagents. <i>Journal of Organic Chemistry</i> , 2022, 87, 751-759.	3.2	3
53	Amide directed iridium C(sp ³)-H borylation catalysis with high N-methyl selectivity. <i>Tetrahedron</i> , 2022, 109, 132578.	1.9	2
54	Phase Behavior of Selected Condensed Double-Decker Shaped Silsesquioxane Compounds. <i>Silicon</i> , 2022, 14, 7555-7565.	3.3	1