

Olafs Daugulis

List of Publications by Year in descending order

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90
papers

16,621
citations

26567

56
h-index

45213

90
g-index

101
all docs

101
docs citations

101
times ranked

7812
citing authors

#	ARTICLE	IF	CITATIONS
1	Palladium- and Copper-Catalyzed Arylation of Carbon-Hydrogen Bonds. <i>Accounts of Chemical Research</i> , 2009, 42, 1074-1086.	7.6	1,906
2	Highly Regioselective Arylation of sp^3 C-H Bonds Catalyzed by Palladium Acetate. <i>Journal of the American Chemical Society</i> , 2005, 127, 13154-13155.	6.6	1,370
3	Bidentate, Monoanionic Auxiliary-Directed Functionalization of Carbon-Hydrogen Bonds. <i>Accounts of Chemical Research</i> , 2015, 48, 1053-1064.	7.6	1,126
4	Auxiliary-Assisted Palladium-Catalyzed Arylation and Alkylation of sp^2 and sp^3 Carbon-Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 2010, 132, 3965-3972.	6.6	843
5	A General Method for Copper-Catalyzed Arylation of Arene C-H Bonds. <i>Journal of the American Chemical Society</i> , 2008, 130, 15185-15192.	6.6	565
6	Copper-Promoted Sulfonylation of sp^2 C-H Bonds. <i>Journal of the American Chemical Society</i> , 2012, 134, 18237-18240.	6.6	535
7	Copper-Catalyzed Arylation of Heterocycle C-H Bonds. <i>Journal of the American Chemical Society</i> , 2007, 129, 12404-12405.	6.6	468
8	Anilideortho-Arylation by Using C-H Activation Methodology. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4046-4048.	7.2	463
9	Cobalt-Catalyzed, Aminoquinoline-Directed C(sp^2)-H Bond Alkenylation by Alkynes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10209-10212.	7.2	458
10	Copper-Catalyzed Arylation and Alkenylation of Polyfluoroarene C-H Bonds. <i>Journal of the American Chemical Society</i> , 2008, 130, 1128-1129.	6.6	436
11	Heterocycle Synthesis via Direct C-H/N-H Coupling. <i>Journal of the American Chemical Society</i> , 2012, 134, 7-10.	6.6	434
12	Two Methods for Direct ortho-Arylation of Benzoic Acids. <i>Journal of the American Chemical Society</i> , 2007, 129, 9879-9884.	6.6	433
13	Palladium-Catalyzed Arylation of Electron-Rich Heterocycles with Aryl Chlorides. <i>Organic Letters</i> , 2007, 9, 1449-1451.	2.4	374
14	Nonnatural Amino Acid Synthesis by Using Carbon-Hydrogen Bond Functionalization Methodology. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5188-5191.	7.2	347
15	Directed Amination of Nonacidic Arene C-H Bonds by a Copper-Silver Catalytic System. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6043-6046.	7.2	319
16	Copper-Catalyzed, Directing Group-Assisted Fluorination of Arene and Heteroarene C-H Bonds. <i>Journal of the American Chemical Society</i> , 2013, 135, 9342-9345.	6.6	287
17	Catalytic Coupling of C-H and C-I Bonds Using Pyridine As a Directing Group. <i>Organic Letters</i> , 2005, 7, 3657-3659.	2.4	284
18	Palladium and Copper Catalysis in Regioselective, Intermolecular Coupling of C-H and C-Hal Bonds. <i>Topics in Current Chemistry</i> , 2009, 292, 57-84.	4.0	255

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19	Thermally robust and porous noncovalent organic framework with high affinity for fluorocarbons and CFCs. <i>Nature Communications</i> , 2014, 5, 5131.	5.8	236
20	Scope and Limitations of Auxiliary-Assisted, Palladium-Catalyzed Arylation and Alkylation of $sp^{2/3}$ C-H Bonds. <i>Journal of Organic Chemistry</i> , 2013, 78, 9689-9714.	1.7	228
21	Cobalt-Catalyzed, Aminoquinoline-Directed Coupling of $sp^{2/3}$ C-H Bonds with Alkenes. <i>Organic Letters</i> , 2014, 16, 4684-4687.	2.4	226
22	Cobalt-Catalyzed Direct Carbonylation of Aminoquinoline Benzamides. <i>Organic Letters</i> , 2014, 16, 4688-4690.	2.4	199
23	Synthesis of Highly Branched Polyethylene Using α -Sandwich-(8- <i>i</i> -Tolyl naphthyl) Tj ETQq1 1 0.784314,rgBT /Overlock 10	1.1	190
24	Copper-Catalyzed Etherification of Arene C-H Bonds. <i>Organic Letters</i> , 2013, 15, 5842-5845.	2.4	187
25	Superhydrophobic perfluorinated metal-organic frameworks. <i>Chemical Communications</i> , 2013, 49, 6846.	2.2	181
26	Direct Palladium-Catalyzed Ortho-Arylation of Benzylamines. <i>Organic Letters</i> , 2006, 8, 5211-5213.	2.4	178
27	An Aromatic Glaser-Hay Reaction. <i>Journal of the American Chemical Society</i> , 2009, 131, 17052-17053.	6.6	170
28	Living Polymerization of Ethylene and Copolymerization of Ethylene/Methyl Acrylate Using α -Sandwich-Diimine Palladium Catalysts. <i>ACS Catalysis</i> , 2015, 5, 456-464.	5.5	163
29	A General Method for Aminoquinoline-Directed, Copper-Catalyzed $sp^{2/3}$ C-H Bond Amination. <i>Journal of the American Chemical Society</i> , 2016, 138, 4601-4607.	6.6	157
30	Cobalt-Catalyzed, Aminoquinoline-Directed Functionalization of Phosphinic Amide $sp^{2/3}$ C-H Bonds. <i>ACS Catalysis</i> , 2016, 6, 551-554.	5.5	154
31	Secondary Alkene Insertion and Precision Chain-Walking: A New Route to Semicrystalline α -Polyethylene from $1\pm$ -Olefins by Combining Two Rare Catalytic Events. <i>Journal of the American Chemical Society</i> , 2014, 136, 7213-7216.	6.6	149
32	A General Method for Copper-Catalyzed Arene Cross-Dimerization. <i>Journal of the American Chemical Society</i> , 2011, 133, 13577-13586.	6.6	146
33	Copper-Catalyzed Cyanation of Heterocycle Carbon-Hydrogen Bonds. <i>Organic Letters</i> , 2010, 12, 2517-2519.	2.4	138
34	Cobalt-Catalyzed, Aminoquinoline-Directed C($sp^{2/3}$)H Bond Alkenylation by Alkynes. <i>Angewandte Chemie</i> , 2014, 126, 10373-10376.	1.6	137
35	Cobalt-Promoted Dimerization of Aminoquinoline Benzamides. <i>Organic Letters</i> , 2015, 17, 1204-1207.	2.4	135
36	ortho-Arylation of Benzamides. <i>Organic Letters</i> , 2006, 8, 4947-4949.	2.4	113

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37	Palladium-Catalyzed Anilide <i>ortho</i> -Arylation and Subsequent One-Pot Cyclization to Phenanthridines. <i>Journal of Organic Chemistry</i> , 2007, 72, 7720-7725.	1.7	113
38	Cobalt-Catalyzed Coupling of Benzoic Acid C-H Bonds with Alkynes, Styrenes, and 1,3-Dienes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1688-1691.	7.2	108
39	Dissecting Porosity in Molecular Crystals: Influence of Geometry, Hydrogen Bonding, and [C-H...F] Stacking on the Solid-State Packing of Fluorinated Aromatics. <i>Journal of the American Chemical Society</i> , 2018, 140, 6014-6026.	6.6	106
40	Base-Mediated Intermolecular sp ² C-H Bond Arylation via Benzyne Intermediates. <i>Journal of the American Chemical Society</i> , 2011, 133, 4243-4245.	6.6	105
41	Mechanistic Studies of Pd(II)-Catalyzed Copolymerization of Ethylene and Vinylalkoxysilanes: Evidence for a β -Silyl Elimination Chain Transfer Mechanism. <i>Journal of the American Chemical Society</i> , 2016, 138, 16120-16129.	6.6	105
42	Nickel, Manganese, Cobalt, and Iron-Catalyzed Deprotonative Arene Dimerization. <i>Organic Letters</i> , 2010, 12, 1200-1203.	2.4	103
43	Synthesis of Branched Ultrahigh-Molecular-Weight Polyethylene Using Highly Active Neutral, Single-Component Ni(II) Catalysts. <i>ACS Catalysis</i> , 2015, 5, 631-636.	5.5	98
44	Phosphinidene-Palladium Complexes for the Polymerization and Oligomerization of Ethylene. <i>Organometallics</i> , 2002, 21, 5935-5943.	1.1	96
45	Nickel-Catalyzed Copolymerization of Ethylene and Vinyltrialkoxysilanes: Catalytic Production of Cross-Linkable Polyethylene and Elucidation of the Chain-Growth Mechanism. <i>Journal of the American Chemical Society</i> , 2017, 139, 16013-16022.	6.6	91
46	Polymerization of Ethylene with Cationic Palladium and Nickel Catalysts Containing Bulky Nonenolizable Imine-Phosphine Ligands. <i>Organometallics</i> , 2002, 21, 5926-5934.	1.1	88
47	Iron-Catalyzed Heterocycle and Arene Deprotonative Alkylation. <i>Organic Letters</i> , 2010, 12, 4277-4279.	2.4	77
48	Aminoquinoline-directed, cobalt-catalyzed carbonylation of sulfonamide sp ² C-H bonds. <i>Chemical Communications</i> , 2017, 53, 5136-5138.	2.2	71
49	Carbon-Hydrogen Bond Functionalization Approach for the Synthesis of Fluorenones and <i>ortho</i> -Arylated Benzonitriles. <i>Journal of Organic Chemistry</i> , 2008, 73, 7818-7821.	1.7	66
50	Divergent reaction pathways for phenol arylation by arynes: synthesis of helicenes and 2-arylphenols. <i>Chemical Science</i> , 2013, 4, 531-535.	3.7	66
51	New Neutral Nickel and Palladium Sandwich Catalysts: Synthesis of Ultra-High Molecular Weight Polyethylene (UHMWPE) via Highly Controlled Polymerization and Mechanistic Studies of Chain Propagation. <i>Journal of the American Chemical Society</i> , 2020, 142, 7198-7206.	6.6	64
52	Palladium-Catalyzed Pyrazole-Directed sp ³ C-H Bond Arylation for the Synthesis of β -Phenethylamines. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3630-3634.	7.2	62
53	A highly active Ni(II)-triadamantylphosphine catalyst for ultrahigh-molecular-weight polyethylene synthesis. <i>Nature Communications</i> , 2019, 10, 438.	5.8	61
54	Understanding the Insertion Pathways and Chain Walking Mechanisms of β -Diimine Nickel Catalysts for β -Olefin Polymerization: A ¹³ C NMR Spectroscopic Investigation. <i>Macromolecules</i> , 2017, 50, 7010-7027.	2.2	57

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55	Synthesis of Branched Polyethylene with π -Half-Sandwich π -Pyridine-Imine Nickel Complexes. <i>Organometallics</i> , 2016, 35, 1756-1760.	1.1	54
56	New Hindered Amide Base for Aryne Insertion into Si π -P, Si π -S, Si π -N, and C π -C Bonds. <i>Journal of the American Chemical Society</i> , 2018, 140, 13703-13710.	6.6	53
57	General Method for Functionalized Polyaryl Synthesis via Aryne Intermediates. <i>Journal of the American Chemical Society</i> , 2014, 136, 8568-8576.	6.6	48
58	Palladium-catalysed alkene chain-running isomerization. <i>Chemical Communications</i> , 2017, 53, 10010-10013.	2.2	46
59	Silylaryl Halides Can Replace Triflates as Aryne Precursors. <i>Organic Letters</i> , 2016, 18, 3910-3913.	2.4	41
60	Direct Intermolecular Aniline <i>ortho</i> -Arylation via Benzyne Intermediates. <i>Organic Letters</i> , 2012, 14, 5964-5967.	2.4	36
61	Directed Functionalization of C π -H Bonds: Now also <i>meta</i> Selective. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11677-11679.	7.2	35
62	Monomeric Silver(I) η^2 -Diketiminato Complexes. <i>Organometallics</i> , 2006, 25, 4054-4057.	1.1	34
63	Alkene Isomerization by π -Sandwich π -Diimine-Palladium Catalysts. <i>Organometallics</i> , 2017, 36, 787-790.	1.1	33
64	Ethylene Polymerization Using Tetramethyl(2-methylthioethyl)cyclopentadienyl Complexes of Cobalt. <i>Organometallics</i> , 2003, 22, 4699-4704.	1.1	30
65	1-Aminopyridinium Ylides as Monodentate Directing Groups for sp^3 C π -H Bond Functionalization. <i>Journal of the American Chemical Society</i> , 2019, 141, 14728-14735.	6.6	28
66	Synthesis and Properties of π -Sandwich π -Diimine-Coinage Metal Ethylene Complexes. <i>Organometallics</i> , 2016, 35, 2938-2943.	1.1	26
67	Synthesis of 1,2-Bis(trifluoromethylthio)arenes via Aryne Intermediates. <i>Organic Letters</i> , 2017, 19, 4247-4250.	2.4	24
68	Cobalt π -Catalyzed Coupling of Benzoic Acid C π -H Bonds with Alkynes, Styrenes, and 1,3 π -Dienes. <i>Angewandte Chemie</i> , 2018, 130, 1704-1707.	1.6	23
69	A Career in Catalysis: Maurice Brookhart. <i>ACS Catalysis</i> , 2016, 6, 1518-1532.	5.5	19
70	Ethylene Polymerization with Ni(II) Diimine Complexes Generated from 8-Halo-1-naphthylamines: The Role of Equilibrating <i>Syn</i> / <i>Anti</i> Diastereomers in Determining Polymer Properties. <i>Organometallics</i> , 2019, 38, 4658-4668.	1.1	19
71	N-Iminopyridinium ylide-directed, cobalt-catalysed coupling of sp^2 C π -H bonds with alkynes. <i>Chemical Communications</i> , 2020, 56, 11070-11073.	2.2	19
72	Solvation-dependent switching of solid-state luminescence of a fluorinated aromatic tetrapyrazole. <i>Chemical Communications</i> , 2019, 55, 9387-9390.	2.2	17

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73	Cationic \pm -Diimine Nickel and Palladium Complexes Incorporating Phenanthrene Substituents: Highly Active Ethylene Polymerization Catalysts and Mechanistic Studies of syn/anti Isomerization. <i>Organometallics</i> , 2020, 39, 4704-4716.	1.1	17
74	Polymerization of Ethylene Catalyzed by Phosphine-Iminophosphorane Palladium Complexes. <i>Organometallics</i> , 2017, 36, 2947-2951.	1.1	16
75	Unsaturated Alcohols as Chain-Transfer Agents in Olefin Polymerization: Synthesis of Aldehyde End-Capped Oligomers and Polymers. <i>Journal of the American Chemical Society</i> , 2020, 142, 15431-15437.	6.6	15
76	Palladium-Catalyzed Pyrazole-Directed $sp^3 C-H$ Bond Arylation for the Synthesis of β -Phenethylamines. <i>Angewandte Chemie</i> , 2017, 129, 3684-3688.	1.6	14
77	Oligomerization of Ethylene Using a Diphosphine Palladium Catalyst. <i>Organometallics</i> , 2017, 36, 443-447.	1.1	14
78	Palladium-catalyzed, aminoquinoline-directed arylation of phosphonamide and phosphinic amide $sp^3 C-H$ bonds. <i>Chemical Communications</i> , 2017, 53, 4609-4611.	2.2	11
79	Synthesis of Unsymmetrical 2,6-Diarylanilines by Palladium-Catalyzed $C-H$ Bond Functionalization Methodology. <i>Journal of Organic Chemistry</i> , 2018, 83, 5844-5850.	1.7	11
80	2,4,6-Triphenylpyridinium: A Bulky, Highly Electron-Withdrawing Substituent That Enhances Properties of Nickel(II) Ethylene Polymerization Catalysts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4566-4569.	7.2	11
81	<i>N</i> -Aminopyridinium Ylide-Directed, Copper-Promoted Amination of $sp^2 C-H$ Bonds. <i>Journal of Organic Chemistry</i> , 2019, 84, 13022-13032.	1.7	10
82	1,2-Bis(arylthio)arene synthesis via aryne intermediates. <i>Chemical Communications</i> , 2019, 55, 9467-9470.	2.2	7
83	<i>N</i> -Aminopyridinium Ylide-Directed, Copper-Promoted Chalcogenation of Arene $C-H$ Bonds. <i>Journal of Organic Chemistry</i> , 2020, 85, 13069-13079.	1.7	7
84	α -Sandwich-Diimine-Copper Catalysts for $C-H$ Functionalization by Carbene Insertion. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	7
85	Synthesis of End-Functionalized Poly(norbornenes) and Poly(ethylidene norbornenes) Using a Pd(II) Catalyst in Combination with Chain Transfer Agents. <i>Organometallics</i> , 2021, 40, 2709-2715.	1.1	5
86	In situ ortho-lithiation/functionalization of pentafluorosulfanyl arenes. <i>Chemical Communications</i> , 2022, 58, 537-540.	2.2	4
87	Synthesis and Optical Properties of Fluorinated Tetraphenylethylenes. <i>ChemPhotoChem</i> , 0, , .	1.5	3
88	α -Sandwich-Diimine-Copper Catalysts for $C-H$ Functionalization by Carbene Insertion. <i>Angewandte Chemie</i> , 0, , .	1.6	1
89	Anilide ortho-Arylation by Using $C-H$ Activation Methodology.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
90	2,4,6-Triphenylpyridinium: A Bulky, Highly Electron-Withdrawing Substituent That Enhances Properties of Nickel(II) Ethylene Polymerization Catalysts. <i>Angewandte Chemie</i> , 2021, 133, 4616-4619.	1.6	0