

Daniel J Weix

List of Publications by Year in descending order

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68
papers

7,866
citations

66343

42
h-index

98798

67
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109
all docs

109
docs citations

109
times ranked

4455
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods and Mechanisms for Cross-Electrophile Coupling of Csp ² Halides with Alkyl Electrophiles. <i>Accounts of Chemical Research</i> , 2015, 48, 1767-1775.	15.6	782
2	Mechanism and Selectivity in Nickel-Catalyzed Cross-Electrophile Coupling of Aryl Halides with Alkyl Halides. <i>Journal of the American Chemical Society</i> , 2013, 135, 16192-16197.	13.7	521
3	Cross-Electrophile Coupling: Principles of Reactivity and Selectivity. <i>Journal of Organic Chemistry</i> , 2014, 79, 4793-4798.	3.2	475
4	Nickel-Catalyzed Reductive Cross-Coupling of Aryl Halides with Alkyl Halides. <i>Journal of the American Chemical Society</i> , 2010, 132, 920-921.	13.7	384
5	Decarboxylative Cross-Electrophile Coupling of <i>N</i> -Hydroxyphthalimide Esters with Aryl Iodides. <i>Journal of the American Chemical Society</i> , 2016, 138, 5016-5019.	13.7	345
6	Replacing Conventional Carbon Nucleophiles with Electrophiles: Nickel-Catalyzed Reductive Alkylation of Aryl Bromides and Chlorides. <i>Journal of the American Chemical Society</i> , 2012, 134, 6146-6159.	13.7	328
7	Multimetallic catalysed cross-coupling of aryl bromides with aryl triflates. <i>Nature</i> , 2015, 524, 454-457.	27.8	249
8	<i>Z</i> -Selective Alkene Isomerization by High-Spin Cobalt(II) Complexes. <i>Journal of the American Chemical Society</i> , 2014, 136, 945-955.	13.7	196
9	General and Efficient C-C Bond Forming Photoredox Catalysis with Semiconductor Quantum Dots. <i>Journal of the American Chemical Society</i> , 2017, 139, 4250-4253.	13.7	194
10	Rapid, Regioconvergent, Solvent-Free Alkene Hydrosilylation with a Cobalt Catalyst. <i>Journal of the American Chemical Society</i> , 2015, 137, 13244-13247.	13.7	192
11	Diastereoselective and Enantioselective Rh(I)-Catalyzed Additions of Arylboronic Acids to <i>N</i> -tert-Butanesulfinyl and <i>N</i> -Diphenylphosphinoyl Aldimines. <i>Journal of the American Chemical Society</i> , 2005, 127, 1092-1093.	13.7	190
12	Cobalt co-catalysis for cross-electrophile coupling: diarylmethanes from benzyl mesylates and aryl halides. <i>Chemical Science</i> , 2015, 6, 1115-1119.	7.4	182
13	Nickel-catalyzed, sodium iodide-promoted reductive dimerization of alkyl halides, alkyl pseudohalides, and allylic acetates. <i>Chemical Communications</i> , 2010, 46, 5743.	4.1	171
14	Nickel-Catalyzed Regiodivergent Opening of Epoxides with Aryl Halides: Co-Catalysis Controls Regioselectivity. <i>Journal of the American Chemical Society</i> , 2014, 136, 48-51.	13.7	156
15	Enantioselective Cross-Coupling of <i>meso</i> -Epoxides with Aryl Halides. <i>Journal of the American Chemical Society</i> , 2015, 137, 3237-3240.	13.7	155
16	Regioselective and Enantioselective Iridium-Catalyzed Allylation of Enamines. <i>Journal of the American Chemical Society</i> , 2007, 129, 7720-7721.	13.7	153
17	New ligands for nickel catalysis from diverse pharmaceutical heterocycle libraries. <i>Nature Chemistry</i> , 2016, 8, 1126-1130.	13.6	150
18	LiCl-Accelerated Multimetallic Cross-Coupling of Aryl Chlorides with Aryl Triflates. <i>Journal of the American Chemical Society</i> , 2019, 141, 10978-10983.	13.7	147

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19	Synthesis of Functionalized Dialkyl Ketones from Carboxylic Acid Derivatives and Alkyl Halides. <i>Organic Letters</i> , 2012, 14, 1476-1479.	4.6	142
20	Improved Synthesis of tert-Butanesulfinamide Suitable for Large-Scale Production. <i>Organic Letters</i> , 2003, 5, 1317-1320.	4.6	138
21	Asymmetric Synthesis of Protected Arylglycines by Rhodium-Catalyzed Addition of Arylboronic Acids to N-tert-Butanesulfinyl Imino Esters. <i>Journal of the American Chemical Society</i> , 2006, 128, 6304-6305.	13.7	133
22	Nickel-Catalyzed Cross-Electrophile Coupling of Aryl Chlorides with Primary Alkyl Chlorides. <i>Journal of the American Chemical Society</i> , 2020, 142, 9902-9907.	13.7	129
23	Molecular Basis of Lysosomal Enzyme Recognition: Three-Dimensional Structure of the Cation-Dependent Mannose 6-Phosphate Receptor. <i>Cell</i> , 1998, 93, 639-648.	28.9	127
24	Enantioselective Iridium-Catalyzed Allylic Amination of Ammonia and Convenient Ammonia Surrogates. <i>Organic Letters</i> , 2007, 9, 3949-3952.	4.6	117
25	Reductive Decarboxylative Alkynylation of <i>N</i> -Hydroxyphthalimide Esters with Bromoalkynes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11901-11905.	13.8	116
26	Multimetallic Ni- and Pd-Catalyzed Cross-Electrophile Coupling To Form Highly Substituted 1,3-Dienes. <i>Journal of the American Chemical Society</i> , 2018, 140, 2446-2449.	13.7	109
27	[5]HELOL Phosphite: A Helically Grooved Sensor of Remote Chirality. <i>Journal of the American Chemical Society</i> , 2000, 122, 10027-10032.	13.7	104
28	Nickel-Catalyzed Synthesis of Dialkyl Ketones from the Coupling of <i>N</i> -Alkyl Pyridinium Salts with Activated Carboxylic Acids. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13484-13489.	13.8	104
29	Selective Cross-Coupling of Organic Halides with Allylic Acetates. <i>Journal of Organic Chemistry</i> , 2012, 77, 9989-10000.	3.2	103
30	Ketones from Nickel-Catalyzed Decarboxylative, Non-Symmetric Cross-Electrophile Coupling of Carboxylic Acid Esters. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12081-12085.	13.8	100
31	Nickel-Catalyzed Reductive Conjugate Addition to Enones via Allylnickel Intermediates. <i>Journal of the American Chemical Society</i> , 2013, 135, 751-762.	13.7	93
32	Cross-Electrophile Coupling of Vinyl Halides with Alkyl Halides. <i>Chemistry - A European Journal</i> , 2016, 22, 7399-7402.	3.3	84
33	Coupling of Challenging Heteroaryl Halides with Alkyl Halides via Nickel-Catalyzed Cross-Electrophile Coupling. <i>Journal of Organic Chemistry</i> , 2017, 82, 7085-7092.	3.2	84
34	Ruthenium-Catalyzed C-H Arylation of Diverse Aryl Carboxylic Acids with Aryl and Heteroaryl Halides. <i>Organic Letters</i> , 2016, 18, 5432-5435.	4.6	82
35	Nickel-Catalyzed Cross-Electrophile Coupling with Organic Reductants in Non-Amide Solvents. <i>Chemistry - A European Journal</i> , 2016, 22, 11564-11567.	3.3	79
36	Sulfonate Versus Sulfonate: Nickel and Palladium Multimetallic Cross-Electrophile Coupling of Aryl Triflates with Aryl Tosylates. <i>Journal of the American Chemical Society</i> , 2020, 142, 10634-10640.	13.7	75

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37	Easy Synthesis of Functionalized Hetero[7]helicenes. <i>Journal of Organic Chemistry</i> , 1999, 64, 3671-3678.	3.2	74
38	Stoichiometric Reactions of Acylnickel(II) Complexes with Electrophiles and the Catalytic Synthesis of Ketones. <i>Organometallics</i> , 2014, 33, 5874-5881.	2.3	74
39	Metal-Reductant-Free Electrochemical Nickel-Catalyzed Couplings of Aryl and Alkyl Bromides in Acetonitrile. <i>Organic Process Research and Development</i> , 2019, 23, 1746-1751.	2.7	73
40	Removal of Triphenylphosphine Oxide by Precipitation with Zinc Chloride in Polar Solvents. <i>Journal of Organic Chemistry</i> , 2017, 82, 9931-9936.	3.2	64
41	Nickel-Catalyzed Addition of Aryl Bromides to Aldehydes To Form Hindered Secondary Alcohols. <i>Journal of the American Chemical Society</i> , 2019, 141, 1823-1827.	13.7	50
42	Reductive Conjugate Addition of Haloalkanes to Enones To Form Silyl Enol Ethers. <i>Organic Letters</i> , 2011, 13, 2766-2769.	4.6	45
43	In-Situ Bromination Enables Formal Cross-Electrophile Coupling of Alcohols with Aryl and Alkenyl Halides. <i>ACS Catalysis</i> , 2022, 12, 580-586.	11.2	43
44	Nickel-Catalyzed Cross-Electrophile Coupling of 2-Chloropyridines with Alkyl Bromides. <i>Synlett</i> , 2014, 25, 233-238.	1.8	40
45	Direct, Intermolecular, Enantioselective, Iridium-Catalyzed Allylation of Carbamates to Form Carbamate-Protected, Branched Allylic Amines. <i>Organic Letters</i> , 2009, 11, 2944-2947.	4.6	37
46	A General, Multimetallic Cross-Ullmann Biheteroaryl Synthesis from Heteroaryl Halides and Heteroaryl Triflates. <i>Journal of the American Chemical Society</i> , 2021, 143, 21484-21491.	13.7	35
47	CdS Quantum Dots as Potent Photoreductants for Organic Chemistry Enabled by Auger Processes. <i>Journal of the American Chemical Society</i> , 2022, 144, 12229-12246.	13.7	35
48	Reductive Decarboxylative Alkynylation of <i>N</i> -Hydroxyphthalimide Esters with Bromoalkynes. <i>Angewandte Chemie</i> , 2017, 129, 12063-12067.	2.0	34
49	Ketones from Nickel-Catalyzed Decarboxylative, Non-Symmetric Cross-Electrophile Coupling of Carboxylic Acid Esters. <i>Angewandte Chemie</i> , 2019, 131, 12209-12213.	2.0	33
50	4,4'-Trimethyl-2,2':6'-terpyridine by Oxidative Coupling of 4-Picoline. <i>Journal of Organic Chemistry</i> , 2014, 79, 10624-10628.	3.2	26
51	Nickel-Catalyzed Reductive Conjugate Addition of Primary Alkyl Bromides to Enones To Form Silyl Enol Ethers. <i>Organic Letters</i> , 2017, 19, 340-343.	4.6	26
52	ChemBead Enabled High-Throughput Cross-Electrophile Coupling Reveals a New Complementary Ligand. <i>Chemistry - A European Journal</i> , 2021, 27, 12981-12986.	3.3	26
53	Nickel-Catalyzed Synthesis of Dialkyl Ketones from the Coupling of <i>N</i> -Alkyl Pyridinium Salts with Activated Carboxylic Acids. <i>Angewandte Chemie</i> , 2020, 132, 13586-13591.	2.0	22
54	Substituted 2,2'-Bipyridines by Nickel Catalysis: 4,4'-Di-tert-butyl-2,2'-bipyridine. <i>Synthesis</i> , 2013, 45, 3099-3102.	2.3	21

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55	Nickel-Catalyzed C(sp ³)–C(sp ³) Cross-Electrophile Coupling of In Situ Generated NHP Esters with Unactivated Alkyl Bromides. <i>Organic Letters</i> , 2022, 24, 2853-2857.	4.6	19
56	Nickel-catalyzed reductive arylation of activated alkynes with aryl iodides. <i>Tetrahedron Letters</i> , 2015, 56, 3365-3367.	1.4	18
57	Ruthenium-Catalyzed C–H Arylation of 1-Naphthol with Aryl and Heteroaryl Halides. <i>Journal of Organic Chemistry</i> , 2019, 84, 15642-15647.	3.2	15
58	Mechanistic Study of Alkene Hydrosilylation Catalyzed by a η^2 -Dialdiminate Cobalt(I) Complex. <i>Organometallics</i> , 2020, 39, 2415-2424.	2.3	15
59	Nickel-Catalyzed Cross-Coupling of Aryl Halides with Alkyl Halides: Ethyl 4-(4-(4-methylphenylsulfonamido)-phenyl)butanoate. <i>Organic Syntheses</i> , 2013, 90, 200.	1.0	15
60	Nickel-Catalyzed Allylation of $\hat{\text{I}}^{\pm}$ -Amido Sulfones To Form Protected Homoallylic Amines. <i>Synlett</i> , 2015, 26, 323-326.	1.8	10
61	When two metal atoms are better than one. <i>Science</i> , 2019, 363, 819-819.	12.6	4
62	Nickel-Catalyzed Synthesis of Ketones from Alkyl Halides and Acid Chlorides: Preparation of Ethyl 4-Oxododecanoate. <i>Organic Syntheses</i> , 2016, 93, 50-62.	1.0	4
63	[2,2- $\hat{\text{B}}^2$ -Bis(diphenylphosphanyl)-1,1- $\hat{\text{B}}^2$ -binaphthyl- $\hat{\text{P}}^2$] $\hat{\text{C}}^2$ chlorido(4-methylphenylsulfonyl- $\hat{\text{P}}^2$) $\hat{\text{S}}^2$ dichloromethane trisolvate monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, m1830-m1830.	0.2	1
64	Improved Synthesis of tert-Butanesulfinamide Suitable for Large-Scale Production.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
65	Diastereoselective and Enantioselective Rh(I)-Catalyzed Additions of Arylboronic Acids to N-tert-Butanesulfinyl and N-Diphenylphosphinoyl Aldimines.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
66	Bis{(R)-N-[(R)-2-benzyloxy-1-(4-tert-butylphenyl)ethyl]-2-methylpropane-2-sulfinamide} monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o405-o406.	0.2	0
67	Mastering mono-bond metathesis. <i>Nature Chemistry</i> , 2021, 13, 818-820.	13.6	0
68	Crystal structures of (RS)-N-[(1R,2S)-2-benzyloxy-1-(2,6-dimethylphenyl)propyl]-2-methylpropane-2-sulfinamide and (RS)-N-[(1S,2R)-2-benzyloxy-1-(2,4,6-trimethylphenyl)propyl]-2-methylpropane-2-sulfinamide: two related protected 1,2-amino alcohols. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, 365-369.	0.2	0