

Abigail G Doyle

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

76
papers

9,626
citations

49
h-index

98
g-index

116
ext. papers

11,438
ext. citations

17.1
avg, IF

7.06
L-index

#	Paper	IF	Citations
76	Using Data Science To Guide Aryl Bromide Substrate Scope Analysis in a Ni/Photoredox-Catalyzed Cross-Coupling with Acetals as Alcohol-Derived Radical Sources.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	16
75	The Open Reaction Database. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18820-18826	16.4	18
74	A biohybrid strategy for enabling photoredox catalysis with low-energy light. <i>CheM</i> , 2021 ,	16.2	6
73	A general strategy for C(sp)-H functionalization with nucleophiles using methyl radical as a hydrogen atom abstractor. <i>Nature Communications</i> , 2021 , 12, 6950	17.4	13
72	The Evolution of Data-Driven Modeling in Organic Chemistry. <i>ACS Central Science</i> , 2021 , 7, 1622-1637	16.8	14
71	Phosphine/Photoredox Catalyzed Anti-Markovnikov Hydroamination of Olefins with Primary Sulfonamides via Scission from Phosphoranyl Radicals. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18331-18338	16.4	10
70	Univariate classification of phosphine ligation state and reactivity in cross-coupling catalysis. <i>Science</i> , 2021 , 374, 301-308	33.3	16
69	Predicting Reaction Yields via Supervised Learning. <i>Accounts of Chemical Research</i> , 2021 , 54, 1856-1865	24.3	18
68	Automation and computer-assisted planning for chemical synthesis. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		20
67	Synthetic and Mechanistic Implications of Chlorine Photoelimination in Nickel/Photoredox C(sp)-H Cross-Coupling. <i>Accounts of Chemical Research</i> , 2021 , 54, 988-1000	24.3	49
66	Bayesian reaction optimization as a tool for chemical synthesis. <i>Nature</i> , 2021 , 590, 89-96	50.4	89
65	Ni/Photoredox-Catalyzed Enantioselective Cross-Electrophile Coupling of Styrene Oxides with Aryl Iodides. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15873-15881	16.4	19
64	Regioselective Cross-Electrophile Coupling of Epoxides and (Hetero)aryl Iodides via Ni/Ti/Photoredox Catalysis. <i>ACS Catalysis</i> , 2020 , 10, 5821-5827	13.1	31
63	Nucleophilic (Radio)Fluorination of Redox-Active Esters via Radical-Polar Crossover Enabled by Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9493-9500	16.4	54
62	d-d Excited States of Ni(II) Complexes Relevant to Photoredox Catalysis: Spectroscopic Identification and Mechanistic Implications. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5800-5810	16.4	79
61	Synthesis of β Phenethylamines via Ni/Photoredox Cross-Electrophile Coupling of Aliphatic Aziridines and Aryl Iodides. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7598-7605	16.4	31
60	Role of Electron-Deficient Olefin Ligands in a Ni-Catalyzed Aziridine Cross-Coupling To Generate Quaternary Carbons. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8928-8937	16.4	17

59	Nickel/Photoredox-Catalyzed Methylation of (Hetero)aryl Chlorides Using Trimethyl Orthoformate as a Methyl Radical Source. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7683-7689	16.4	55
58	Bioinspiration in light harvesting and catalysis. <i>Nature Reviews Materials</i> , 2020 , 5, 828-846	73.3	54
57	Direct Use of Carboxylic Acids in the Photocatalytic Hydroacylation of Styrenes To Generate Dialkyl Ketones. <i>Organic Letters</i> , 2019 , 21, 9940-9944	6.2	33
56	Long-Lived Charge-Transfer States of Nickel(II) Aryl Halide Complexes Facilitate Bimolecular Photoinduced Electron Transfer. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3035-3039	16.4	134
55	Predicting reaction performance in C-N cross-coupling using machine learning. <i>Science</i> , 2018 , 360, 186-190	33.3	341
54	Ni-Catalyzed Carbon-Carbon Bond-Forming Reductive Amination. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2292-2300	16.4	55
53	Deoxyfluorination with Sulfonyl Fluorides: Navigating Reaction Space with Machine Learning. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5004-5008	16.4	116
52	Response to Comment on "Predicting reaction performance in C-N cross-coupling using machine learning". <i>Science</i> , 2018 , 362,	33.3	33
51	Direct C-C Bond Formation from Alkanes Using Ni-Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14059-14063	16.4	98
50	Generation of Phosphoranyl Radicals via Photoredox Catalysis Enables Voltage-Independent Activation of Strong C-O Bonds. <i>ACS Catalysis</i> , 2018 , 8, 11134-11139	13.1	112
49	Dual Nickel- and Photoredox-Catalyzed Enantioselective Desymmetrization of Cyclic meso-Anhydrides. <i>Angewandte Chemie</i> , 2017 , 129, 3733-3737	3.6	16
48	Dual Nickel- and Photoredox-Catalyzed Enantioselective Desymmetrization of Cyclic meso-Anhydrides. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3679-3683	16.4	75
47	Parameterization of phosphine ligands demonstrates enhancement of nickel catalysis via remote steric effects. <i>Nature Chemistry</i> , 2017 , 9, 779-784	17.6	130
46	Nickel-Catalyzed Enantioselective Reductive Cross-Coupling of Styrenyl Aziridines. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5688-5691	16.4	148
45	Mild, Redox-Neutral Formylation of Aryl Chlorides through the Photocatalytic Generation of Chlorine Radicals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7191-7194	16.4	118
44	Mild, Redox-Neutral Formylation of Aryl Chlorides through the Photocatalytic Generation of Chlorine Radicals. <i>Angewandte Chemie</i> , 2017 , 129, 7297-7300	3.6	40
43	Direct C(sp)-H Cross Coupling Enabled by Catalytic Generation of Chlorine Radicals. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12719-12722	16.4	341
42	Nickel-catalyzed enantioselective arylation of pyridine. <i>Chemical Science</i> , 2016 , 7, 4105-4109	9.4	49

41	Direct Acylation of C(sp ³)-H Bonds Enabled by Nickel and Photoredox Catalysis. <i>Angewandte Chemie</i> , 2016 , 128, 4108-4111	3.6	48
40	Direct Acylation of C(sp ³)-H Bonds Enabled by Nickel and Photoredox Catalysis. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4040-3	16.4	159
39	Nucleophilic (Radio)Fluorination of α -Diazocarbonyl Compounds Enabled by Copper-Catalyzed H-F Insertion. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10802-5	16.4	45
38	C-H functionalization of amines with aryl halides by nickel-photoredox catalysis. <i>Chemical Science</i> , 2016 , 7, 7002-7006	9.4	114
37	PyFluor: A Low-Cost, Stable, and Selective Deoxyfluorination Reagent. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9571-4	16.4	158
36	A modular, air-stable nickel precatalyst. <i>Organic Letters</i> , 2015 , 17, 2166-9	6.2	86
35	Electron-deficient olefin ligands enable generation of quaternary carbons by Ni-catalyzed cross-coupling. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5638-41	16.4	87
34	Dialkyl Ether Formation by Nickel-Catalyzed Cross-Coupling of Acetals and Aryl Iodides. <i>Angewandte Chemie</i> , 2015 , 127, 10014-10018	3.6	20
33	Dialkyl Ether Formation by Nickel-Catalyzed Cross-Coupling of Acetals and Aryl Iodides. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9876-80	16.4	103
32	The chemistry of transition metals with three-membered ring heterocycles. <i>Chemical Reviews</i> , 2014 , 114, 8153-98	68.1	310
31	Mechanistic Investigations of Palladium-Catalyzed Allylic Fluorination. <i>Organometallics</i> , 2014 , 33, 2121-2133	16.4	56
30	Enantioselective, nickel-catalyzed Suzuki cross-coupling of quinolinium ions. <i>Organic Letters</i> , 2014 , 16, 142-5	6.2	64
29	Enantioselective radiosynthesis of positron emission tomography (PET) tracers containing [¹⁸ F]fluorohydrins. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5291-4	16.4	72
28	Dual catalysis. Merging photoredox with nickel catalysis: coupling of α -carboxyl sp ³ -carbons with aryl halides. <i>Science</i> , 2014 , 345, 437-40	33.3	1058
27	Fluoride Ring-Opening Kinetic Resolution of Terminal Epoxides: Preparation of (S)-2-Fluoro-1-Phenylethanol 2014 , 1-7		
26	Nickel-catalyzed enantioselective arylation of pyridinium ions: harnessing an iminium ion activation mode. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9153-6	16.4	55
25	Directed nickel-catalyzed Negishi cross coupling of alkyl aziridines. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13605-9	16.4	79
24	Palladium-catalyzed allylic C-H fluorination. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12990-3	16.4	165

23	Carbofluorination via a palladium-catalyzed cascade reaction. <i>Chemical Science</i> , 2013 , 4, 1216	9.4	65
22	Enantioselective fluoride ring opening of aziridines enabled by cooperative Lewis acid catalysis. <i>Tetrahedron</i> , 2013 , 69, 5702-5709	2.4	83
21	Nickel-Catalyzed Enantioselective Arylation of Pyridinium Ions: Harnessing an Iminium Ion Activation Mode. <i>Angewandte Chemie</i> , 2013 , 125, 9323-9326	3.6	8
20	Synthesis of β -fluoroamines by Lewis base catalyzed hydrofluorination of aziridines. <i>Journal of Organic Chemistry</i> , 2012 , 77, 4177-83	4.2	76
19	Mechanistic investigation of the nickel-catalyzed Suzuki reaction of N,O-acetals: evidence for boronic acid assisted oxidative addition and an iminium activation pathway. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16967-16970	16.4	57
18	Nickel-catalyzed cross-coupling of chromene acetals and boronic acids. <i>Organic Letters</i> , 2012 , 14, 1616-96.2		71
17	Nickel-catalyzed Negishi alkylations of styrenyl aziridines. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9541-4	16.4	136
16	Mechanistic investigations of cooperative catalysis in the enantioselective fluorination of epoxides. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16001-12	16.4	126
15	Palladium-catalyzed regio- and enantioselective fluorination of acyclic allylic halides. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15902-5	16.4	160
14	Nickel-Catalyzed Cross-Coupling of Styrenyl Epoxides with Boronic Acids. <i>Angewandte Chemie</i> , 2011 , 123, 6180-6183	3.6	17
13	Nickel-catalyzed cross-coupling of styrenyl epoxides with boronic acids. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6056-9	16.4	89
12	Transition metal-catalyzed cross coupling with N-acyliminium ions derived from quinolines and isoquinolines. <i>Chemical Science</i> , 2011 , 2, 980-984	9.4	57
11	Enantioselective ring opening of epoxides by fluoride anion promoted by a cooperative dual-catalyst system. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3268-9	16.4	212
10	Palladium-catalyzed asymmetric synthesis of allylic fluorides. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17402-4	16.4	178
9	Enantioselective thiourea-catalyzed additions to oxocarbenium ions. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7198-9	16.4	388
8	Small-molecule H-bond donors in asymmetric catalysis. <i>Chemical Reviews</i> , 2007 , 107, 5713-43	68.1	2117
7	Enantioselective alkylation of acyclic α,α -disubstituted tributyltin enolates catalyzed by a {Cr(salen)} complex. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3701-5	16.4	90
6	Enantioselective alkylations of tributyltin enolates catalyzed by Cr(salen)Cl: access to enantiomerically enriched all-carbon quaternary centers. <i>Journal of the American Chemical Society</i> , 2005 , 127, 62-3	16.4	115

5	C-Arylglucoside synthesis: triisopropylsilane as a selective reagent for the reduction of an anomeric C-phenyl ketal. <i>Tetrahedron: Asymmetry</i> , 2003 , 14, 3243-3247		38
4	A synthetically useful, self-assembling MMO mimic system for catalytic alkene epoxidation with aqueous H ₂ O ₂ . <i>Journal of the American Chemical Society</i> , 2001 , 123, 7194-5	16.4	397
3	Using Data Science to Guide Aryl Bromide Substrate Scope Analysis in a Ni/Photoredox-Catalyzed Cross-Coupling with Acetals as Alcohol-Derived Radical Sources		2
2	A General Strategy for C(sp ³) β Functionalization with Nucleophiles Using Methyl Radical as a Hydrogen Atom Abstractor		2
1	Auto-QChem: an automated workflow for the generation and storage of DFT calculations for organic molecules. <i>Reaction Chemistry and Engineering</i> ,	4-9	2