Michael F Greaney

List of Publications by Year
in descending order

69 papers	4,723 citations	81743 39 h-index	98622 67 g-index
85 all docs	85 docs citations	85 times ranked	3979 citing authors

#	Article	IF	Citations
1	Synthesis of biaryls using aryne intermediates. Chemical Society Reviews, 2016, 45, 6766-6798.	18.7	229
2	Rutheniumâ€Catalyzed metaâ€Selective Cï£¿H Bromination. Angewandte Chemie - International Edition, 2015, 54, 11677-11680.	7.2	220
3	Threeâ€Component Azidation of Styreneâ€Type Double Bonds: Lightâ€Switchable Behavior of a Copper Photoredox Catalyst. Angewandte Chemie - International Edition, 2015, 54, 11481-11484.	7.2	198
4	Atom-Economical Transformation of Diaryliodonium Salts: Tandem Câ€“H and Nâ€“H Arylation of Indoles. Journal of the American Chemical Society, 2015, 137, 1416-1419.	6.6	194
5	Nucleophilic catalysis of acylhydrazone equilibration for protein-directed dynamic covalent chemistry. Nature Chemistry, 2010, 2, 490-497.	6.6	170
6	Oxyarylation and Aminoarylation of Styrenes Using Photoredox Catalysis. Organic Letters, 2013, 15, 4398-4401.	2.4	166
7	Photocycloaddition in Natural Product Synthesis. European Journal of Organic Chemistry, 2007, 2007, 4801-4815.	1.2	165
8	Modern Aspects of the Smiles Rearrangement. Chemistry - A European Journal, 2017, 23, 8992-9008.	1.7	148
9	Insertion of Benzene Rings into the Amide Bond: One-Step Synthesis of Acridines and Acridones from Aryl Amides. Organic Letters, 2010, 12, 168-171.	2.4	147
10	metaâ€Selective Câ€“H Activation of Arenes at Room Temperature Using Visible Light: Dualâ€Function Ruthenium Catalysis. Angewandte Chemie - International Edition, 2019, 58, 9826-9830.	7.2	135
11	Benzylic Câ€“H Azidation Using the Zhdankin Reagent and a Copper Photoredox Catalyst. Organic Letters, 2016, 18, 1646-1649.	2.4	131
12	Integrated catalysis opens new arylation pathways via regiodivergent enzymatic Câ€“H activation. Nature Communications, 2016, 7, 11873.	5.8	126
13	Three-Component Coupling of Benzyne:Â Domino Intermolecular Carbopalladation. Journal of the American Chemical Society, 2006, 128, 7426-7427.	6.6	115
14	The Benzyne Azaâ€Claisen Reaction. Angewandte Chemie - International Edition, 2009, 48, 5199-5202.	7.2	115
15	Visible light promoted thiol-ene reactions using titanium dioxide. Chemical Communications, 2015, 51, 4383-4385.	2.2	104
16	Metal Free Bi(hetero)aryl Synthesis: A Benzyne Truceâ€“Smiles Rearrangement. Angewandte Chemie - International Edition, 2016, 55, 2450-2453.	7.2	98
17	The Benzyne Fischer-Indole Reaction. Organic Letters, 2011, 13, 3667-3669.	2.4	97
18	Rutheniumâ€Catalyzed Cascade Cï£¿H Functionalization of Phenylacetophenones. Angewandte Chemie - International Edition, 2014, 53, 1529-1533.	7.2	90

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19	The Hexadehydroâ€Dielsâ€“Alder Reaction: A New Chapter in Aryne Chemistry. Angewandte Chemie - International Edition, 2014, 53, 5746-5749.	7.2	86
20	Double Heteroatom Functionalization of Arenes Using Benzyne Threeâ€Component Coupling. Angewandte Chemie - International Edition, 2015, 54, 2156-2159.	7.2	85
21	Domino Nâ€‘Câ€Arylation via In Situ Generation of a Directing Group: Atomâ€Efficient Arylation Using Diaryliodonium Salts. Angewandte Chemie - International Edition, 2017, 56, 5263-5266.	7.2	84
22	Insertion of Arynes into Thioureas: A New Amidine Synthesis. Organic Letters, 2011, 13, 4946-4949.	2.4	82
23	Discovery of Glutathione S-Transferase Inhibitors Using Dynamic Combinatorial Chemistry. Journal of the American Chemical Society, 2006, 128, 8459-8467.	6.6	78
24	Generation of benzyne from benzoic acid using Câ€“H activation. Chemical Communications, 2010, 46, 8671.	2.2	76
25	Biaryl Synthesis via Palladium-Catalyzed Aryne Multicomponent Coupling. Organic Letters, 2007, 9, 5589-5592.	2.4	74
26	Synthesis of (Â±)â€Merrilactoneâ€…A and (Â±)â€Anislactoneâ€…A. Angewandte Chemie - International Edition, 2010, 49, 9250-9253.	7.2	73
27	Use of 2-Bromophenylboronic Esters as Benzyne Precursors in the Pd-Catalyzed Synthesis of Triphenylenes. Organic Letters, 2014, 16, 2338-2341.	2.4	73
28	Transitionâ€Metalâ€Free Direct Arylation of Anilines. Angewandte Chemie - International Edition, 2012, 51, 1006-1009.	7.2	66
29	Alkene Carboarylation through Catalystâ€Free, Visible Lightâ€Mediated Smiles Rearrangement. Chemistry - A European Journal, 2019, 25, 1927-1930.	1.7	62
30	A PaternÃ²â˜†BÃ¼chi Approach to the Synthesis of Merrilactone A. Organic Letters, 2005, 7, 3969-3971.	2.4	57
31	Structure and biocatalytic scope of thermophilic flavin-dependent halogenase and flavin reductase enzymes. Organic and Biomolecular Chemistry, 2016, 14, 9354-9361.	1.5	55
32	Metalâ€Free Intermolecular Aminoarylation of Alkynes. Angewandte Chemie - International Edition, 2017, 56, 4183-4186.	7.2	51
33	RadH: A Versatile Halogenase for Integration into Synthetic Pathways. Angewandte Chemie - International Edition, 2017, 56, 11841-11845.	7.2	51
34	Tandem thia-Fries rearrangement â€“ cyclisation of 2-(trimethylsilyl)phenyl trifluoromethanesulfonate benzyne precursors. Chemical Communications, 2013, 49, 7602.	2.2	50
35	Ortho Câ€“H arylation of arenes at room temperature using visible light ruthenium Câ€“H activation. Chemical Science, 2020, 11, 4439-4443.	3.7	49
36	Ruthenium-Catalyzed meta-Carboxylation. Organic Letters, 2017, 19, 6662-6665.	2.4	48

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37	Oxidative Câ€“H Homodimerization of Phenylacetamides. Organic Letters, 2011, 13, 5713-5715.	2.4	46
38	Bivalent Enzyme Inhibitors Discovered Using Dynamic Covalent Chemistry. Chemistry - A European Journal, 2012, 18, 10562-10570.	1.7	44
39	Formal Synthesis of Merrilactone A Using a Domino Cyanide 1,4-Additionâ€“Aldol Cyclization. Organic Letters, 2012, 14, 3720-3723.	2.4	38
40	Continuous-Flow Synthesis of Trimethylsilylphenyl Perfluorosulfonate Benzyne Precursors. Organic Letters, 2014, 16, 2684-2687.	2.4	38
41	metaâ€Selective Câˆ’H Activation of Arenes at Room Temperature Using Visible Light: Dualâ€Function Ruthenium Catalysis. Angewandte Chemie, 2019, 131, 9931-9935.	1.6	35
42	Programmable late-stage Câˆ’H bond functionalization enabled by integration of enzymes with chemocatalysis. Nature Catalysis, 2021, 4, 385-394.	16.1	35
43	Highly Diastereoselective Synthesis ofvicinalQuaternary and Tertiary Stereocenters Using the Iodo-aldol Cyclization. Organic Letters, 2007, 9, 1931-1934.	2.4	34
44	Concurrent Biocatalytic Oxidation and Câ€“C Bond Formation via Gold Catalysis: One-Pot Alkynylation of N-Alkyl Tetrahydroisoquinolines. ACS Catalysis, 2018, 8, 10032-10035.	5.5	31
45	Metal Free Bi(hetero)aryl Synthesis: A Benzyne Truceâ€“Smiles Rearrangement. Angewandte Chemie, 2016, 128, 2496-2499.	1.6	30
46	Copper catalysis in a blue light. Science, 2016, 351, 666-666.	6.0	29
47	Domino Nâ€/Câ€Arylation via In Situ Generation of a Directing Group: Atomâ€Efficient Arylation Using Diaryliodonium Salts. Angewandte Chemie, 2017, 129, 5347-5350.	1.6	26
48	An Engineered Tryptophan Synthase Opens New Enzymatic Pathways to Î²â€Methyltryptophan and Derivatives. ChemBioChem, 2017, 18, 382-386.	1.3	26
49	Recent Advances in the Smiles Rearrangement: New Opportunities for Arylation. Synthesis, 2022, 54, 1908-1918.	1.2	26
50	Reagent-free Nazarov cyclisations. Chemical Communications, 2005, , 660.	2.2	25
51	Synthesis of Triarylamines via Sequential Câ€“N Bond Formation. Journal of Organic Chemistry, 2017, 82, 11933-11938.	1.7	25
52	Truceâ€“Smiles Rearrangements by Strain Release: Harnessing Primary Alkyl Radicals for Metalâ€Free Arylation. Angewandte Chemie - International Edition, 2021, 60, 22219-22223.	7.2	24
53	Synthesis of Hindered Biaryls via Aryne Addition and in Situ Dimerization. Organic Letters, 2015, 17, 2649-2651.	2.4	23
54	Arylation Using Sulfonamides: Phenylacetamide Synthesis through Tandem Acylationâ€“Smiles Rearrangement. Organic Letters, 2019, 21, 9033-9035.	2.4	21

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55	Palladium catalysed cross-dehydrogenative-coupling of 1,3,5-trialkoxybenzenes with simple arenes. Chemical Communications, 2014, 50, 13275-13277.	2.2	19
56	A visible light-mediated, decarboxylative, desulfonylative Smiles rearrangement for general arylethylamine syntheses. Chemical Communications, 2020, 56, 11493-11496.	2.2	19
57	Diarylamine Synthesis via Desulfinylative Smiles Rearrangement. Organic Letters, 2022, 24, 1132-1135.	2.4	13
58	Crossâ€Dehydrogenativeâ€Coupling of Alkoxybenzenes with Toluenes: Copper(II) Halide Mediated Tandem Halo/Benzylation of Arenes. Chemistry - A European Journal, 2016, 22, 18169-18178.	1.7	11
59	Metalâ€Free Intermolecular Aminoarylation of Alkynes. Angewandte Chemie, 2017, 129, 4247-4250.	1.6	10
60	Arylation and alkenylation of activated alkyl halides using sulfonamides. Chemical Communications, 2020, 56, 3222-3224.	2.2	10
61	Integrated Electroâ€Biocatalysis for Amine Alkylation with Alcohols. ChemCatChem, 2021, 13, 864-867.	1.8	10
62	RadH: A Versatile Halogenase for Integration into Synthetic Pathways. Angewandte Chemie, 2017, 129, 12003-12007.	1.6	8
63	NHC Catalysis for Umpolung Pyridinium Alkylation via deoxyâ€Breslow Intermediates. Angewandte Chemie - International Edition, 2022, , .	7.2	7
64	NHC Catalysis for Umpolung Pyridinium Alkylation via Deoxyâ€Breslow Intermediates. Angewandte Chemie, 2022, 134, .	1.6	2
65	Total Synthesis of (Â±)-Anislactone A and (Â±)-Merrilactone A. Strategies and Tactics in Organic Synthesis, 2013, 9, 105-147.	0.1	1
66	Frontispiece: Modern Aspects of the Smiles Rearrangement. Chemistry - A European Journal, 2017, 23, .	1.7	1
67	Î±-Fluorination of Nitrobenzenes and Nitropyridines via Vicarious Nucleophilic Substitution of Hydrogen. Synlett, 2020, 31, 1094-1096.	1.0	1
68	An asymmetric smile. Nature Chemistry, 2021, 13, 304-305.	6.6	1
69	Truceâ€“Smiles Rearrangements by Strain Release: Harnessing Primary Alkyl Radicals for Metalâ€Free Arylation. Angewandte Chemie, 2021, 133, 22393-22397.	1.6	1