Matthew Gaunt

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58 119 13,240 115 h-index g-index citations papers 14,600 173 14.5 7.05 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
119	Recent developments in natural product synthesis using metal-catalysed C-H bond functionalisation. <i>Chemical Society Reviews</i> , 2011 , 40, 1885-98	58.5	1354
118	A meta-selective copper-catalyzed C-H bond arylation. <i>Science</i> , 2009 , 323, 1593-7	33.3	817
117	Cu(II)-catalyzed direct and site-selective arylation of indoles under mild conditions. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8172-4	16.4	682
116	Palladium-catalyzed intermolecular alkenylation of indoles by solvent-controlled regioselective C-H functionalization. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3125-9	16.4	563
115	Enantioselective organocatalysis. <i>Drug Discovery Today</i> , 2007 , 12, 8-27	8.8	524
114	Oxidative Pd(II)-catalyzed C-H bond amination to carbazole at ambient temperature. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16184-6	16.4	495
113	Palladium-catalysed C-H activation of aliphatic amines to give strained nitrogen heterocycles. <i>Nature</i> , 2014 , 510, 129-33	50.4	432
112	Mild aerobic oxidative palladium (II) catalyzed C-H bond functionalization: regioselective and switchable C-H alkenylation and annulation of pyrroles. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2528-9	16.4	342
111	A highly para-selective copper(II)-catalyzed direct arylation of aniline and phenol derivatives. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 458-62	16.4	272
110	Copper(II)-catalyzed meta-selective direct arylation of 🖶 ryl carbonyl compounds. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 463-6	16.4	262
109	An enantioselective organocatalytic oxidative dearomatization strategy. <i>Journal of the American Chemical Society</i> , 2008 , 130, 404-5	16.4	258
108	Recent developments in the use of catalytic asymmetric ammonium enolates in chemical synthesis. <i>Chemical Reviews</i> , 2007 , 107, 5596-605	68.1	249
107	New Strategies for the Transition-Metal Catalyzed Synthesis of Aliphatic Amines. <i>Chemical Reviews</i> , 2020 , 120, 2613-2692	68.1	246
106	Enantioselective organocatalytic cyclopropanation via ammonium ylides. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4641-4	16.4	232
105	Synthesis of rhazinicine by a metal-catalyzed C-H bond functionalization strategy. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3004-7	16.4	231
104	Enantioselective Harylation of N-acyloxazolidinones with copper(II)-bisoxazoline catalysts and diaryliodonium salts. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13778-81	16.4	195
103	Pd-catalyzed C-H bond functionalization on the indole and pyrrole nucleus. <i>Topics in Current Chemistry</i> , 2010 , 292, 85-121		191

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102	Amine directed Pd(II)-catalyzed Cℍ bond functionalization under ambient conditions. <i>Chemical Science</i> , 2011 , 2, 312-315	9.4	189
101	Palladium-Catalyzed Intermolecular Alkenylation of Indoles by Solvent-Controlled Regioselective C?H Functionalization. <i>Angewandte Chemie</i> , 2005 , 117, 3185-3189	3.6	189
100	Copper-catalyzed electrophilic carbofunctionalization of alkynes to highly functionalized tetrasubstituted alkenes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5332-5	16.4	172
99	Enantioselective catalytic intramolecular cyclopropanation using modified cinchona alkaloid organocatalysts. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 6024-8	16.4	172
98	Rational Design of Benzyl-Type Protecting Groups Allows Sequential Deprotection of Hydroxyl Groups by Catalytic Hydrogenolysis. <i>Journal of Organic Chemistry</i> , 1998 , 63, 4172-4173	4.2	172
97	Copper-catalyzed alkene arylation with diaryliodonium salts. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10773-6	16.4	159
96	A general catalytic EC-H carbonylation of aliphatic amines to Elactams. <i>Science</i> , 2016 , 354, 851-857	33.3	155
95	Organic-catalyst-mediated cyclopropanation reaction. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 828-31	16.4	148
94	An intramolecular organocatalytic cyclopropanation reaction. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2681-4	16.4	147
93	A steric tethering approach enables palladium-catalysed C-H activation of primary amino alcohols. <i>Nature Chemistry</i> , 2015 , 7, 1009-16	17.6	139
92	Convenient preparation of trans-arylalkenes via palladium(II)-catalyzed isomerization of cis-arylalkenes. <i>Journal of Organic Chemistry</i> , 2002 , 67, 4627-9	4.2	130
91	Multicomponent synthesis of tertiary alkylamines by photocatalytic olefin-hydroaminoalkylation. <i>Nature</i> , 2018 , 561, 522-527	50.4	130
90	A protein functionalization platform based on selective reactions at methionine residues. <i>Nature</i> , 2018 , 562, 563-568	50.4	124
89	Cu-catalyzed cascades to carbocycles: union of diaryliodonium salts with alkenes or alkynes exploiting remote carbocations. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8851-4	16.4	123
88	Copper-catalyzed carboarylation of alkynes via vinyl cations. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12532-5	16.4	121
87	Palladium-Catalyzed C(sp3)⊞ Bond Functionalization of Aliphatic Amines. <i>CheM</i> , 2019 , 5, 1031-1058	16.2	120
86	Palladium-Catalyzed Enantioselective C-H Activation of Aliphatic Amines Using Chiral Anionic BINOL-Phosphoric Acid Ligands. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1412-1415	16.4	117
85	Palladium(II)-catalyzed C-H bond arylation of electron-deficient arenes at room temperature. Angewandte Chemie - International Edition, 2011, 50, 1076-9	16.4	117

84	Copper-catalyzed arylative Meyer-Schuster rearrangement of propargylic alcohols to complex enones using diaryliodonium salts. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5799-802	16.4	114
83	Catalytic enantioselective assembly of complex molecules containing embedded quaternary stereogenic centres from simple anisidine derivatives. <i>Chemical Science</i> , 2011 , 2, 1487	9.4	106
82	Multicomponent linchpin couplings. Reaction of dithiane anions with terminal epoxides, epichlorohydrin, and vinyl epoxides: efficient, rapid, and stereocontrolled assembly of advanced fragments for complex molecule synthesis. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14435-	16.4 45	106
81	Organocatalytic C-H bond arylation of aldehydes to bis-heteroaryl ketones. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3772-5	16.4	102
80	Enantioselective Cu-Catalyzed Arylation of Secondary Phosphine Oxides with Diaryliodonium Salts toward the Synthesis of P-Chiral Phosphines. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13183	3 ⁻¹⁶ 348	6 ¹⁰²
79	Ligand-Enabled Catalytic C-H Arylation of Aliphatic Amines by a Four-Membered-Ring Cyclopalladation Pathway. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15840-4	16.4	98
78	A concise and scalable strategy for the total synthesis of dictyodendrin B based on sequential C-H functionalization. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5451-5	16.4	92
77	Mechanistic Insights into the Palladium-Catalyzed Aziridination of Aliphatic Amines by C-H Activation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10632-41	16.4	92
76	Copper-catalyzed intramolecular electrophilic carbofunctionalization of allylic amides. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9284-8	16.4	92
75	Synthesis of the C-1-C-28 ABCD unit of spongistatin 1. <i>Organic Letters</i> , 2003 , 5, 4819-22	6.2	86
74	Enantioselective and Regiodivergent Copper-Catalyzed Electrophilic Arylation of Allylic Amides with Diaryliodonium Salts. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7986-9	16.4	84
73	Novel anti-Markovnikov regioselectivity in the Wacker reaction of styrenes. <i>Chemistry - A European Journal</i> , 2006 , 12, 949-55	4.8	79
72	Enantioselective Copper-Catalyzed Arylation-Driven Semipinacol Rearrangement of Tertiary Allylic Alcohols with Diaryliodonium Salts. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9160-9163	16.4	78
71	A Highly Para-Selective Copper(II)-Catalyzed Direct Arylation of Aniline and Phenol Derivatives. <i>Angewandte Chemie</i> , 2011 , 123, 478-482	3.6	78
70	Copper(II)-Catalyzed meta-Selective Direct Arylation of Aryl Carbonyl Compounds. <i>Angewandte Chemie</i> , 2011 , 123, 483-486	3.6	77
69	Cobalt-catalysed C-H carbonylative cyclisation of aliphatic amides. <i>Chemical Science</i> , 2017 , 8, 2588-2591	9.4	74
68	Derailing the Wacker oxidation: development of a palladium-catalyzed amidation reaction. <i>Organic Letters</i> , 2001 , 3, 25-8	6.2	74
67	Chemical synthesis of Aspidosperma alkaloids inspired by the reverse of the biosynthesis of the rhazinilam family of natural products. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9288-91	16.4	66

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66	Total synthesis of spongistatin 1: a synthetic strategy exploiting its latent pseudo-symmetry. Angewandte Chemie - International Edition, 2005 , 44, 5433-8	16.4	66	
65	Selective Palladium(II)-Catalyzed Carbonylation of Methylene EC-H Bonds in Aliphatic Amines. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11958-11962	16.4	64	
64	Development of beta-keto 1,3-dithianes as versatile intermediates for organic synthesis. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 15-6	3.9	64	
63	Enantioselective Organocatalytic Cyclopropanation via Ammonium Ylides. <i>Angewandte Chemie</i> , 2004 , 116, 4741-4744	3.6	62	
62	Streamlined Synthesis of C(sp)-Rich N-Heterospirocycles Enabled by Visible-Light-Mediated Photocatalysis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8426-8430	16.4	59	
61	A counteranion triggered arylation strategy using diaryliodonium fluorides. <i>Chemical Science</i> , 2015 , 6, 1277-1281	9.4	57	
60	Enantioselective Catalytic Intramolecular Cyclopropanation using Modified Cinchona Alkaloid Organocatalysts. <i>Angewandte Chemie</i> , 2006 , 118, 6170-6175	3.6	48	
59	The Exertiary amine motif drives remarkable selectivity for Pd-catalyzed carbonylation of Emethylene C-H bonds. <i>Chemical Science</i> , 2017 , 8, 8198-8203	9.4	47	
58	Organocatalytic sigmatropic reactions: development of a [2,3] Wittig rearrangement through secondary amine catalysis. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2116-9	16.4	47	
57	Copper-Catalyzed Oxy-Alkenylation of Homoallylic Alcohols to Generate Functional syn-1,3-Diol Derivatives. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7857-61	16.4	46	
56	Addition of dithiols to bis-ynones: development of a versatile platform for the synthesis of polyketide natural products. <i>Organic Letters</i> , 2003 , 5, 1147-50	6.2	45	
55	A practical and efficient synthesis of the C-16-C-28 spiroketal fragment (CD) of the spongistatins. <i>Organic Letters</i> , 2003 , 5, 4815-8	6.2	45	
54	Copper-Catalyzed Arylative MeyerBchuster Rearrangement of Propargylic Alcohols to Complex Enones Using Diaryliodonium Salts. <i>Angewandte Chemie</i> , 2013 , 125, 5911-5914	3.6	44	
53	Continuous-Flow Synthesis and Derivatization of Aziridines through Palladium-Catalyzed C(sp(3))-H Activation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8878-83	16.4	42	
52	The total synthesis of K-252c (staurosporinone) a sequential C-H functionalisation strategy. <i>Chemical Science</i> , 2016 , 7, 2706-2710	9.4	41	
51	Catalytic C(sp)-H bond activation in tertiary alkylamines. <i>Nature Chemistry</i> , 2020 , 12, 76-81	17.6	41	
50	Ligand-assisted palladium-catalyzed C-H alkenylation of aliphatic amines for the synthesis of functionalized pyrrolidines. <i>Chemical Science</i> , 2017 , 8, 3586-3592	9.4	40	
49	An Intramolecular Organocatalytic Cyclopropanation Reaction. <i>Angewandte Chemie</i> , 2004 , 116, 2735-27	73,86	40	

48	Selective Reductive Elimination at Alkyl Palladium(IV) by Dissociative Ligand Ionization: Catalytic C(sp)-H Amination to Azetidines. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3178-3182	16.4	39
47	Gram-scale enantioselective formal synthesis of morphine through an ortho-para oxidative phenolic coupling strategy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13498-501	16.4	39
46	Dithiane additions to vinyl epoxides: steric control over the SN2 and SN2Tmanifolds. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14516-7	16.4	39
45	Alkynes to (E)-enolates using tandem catalysis: stereoselective anti-aldol and syn-[3,3]-rearrangement reactions. <i>Tetrahedron</i> , 2010 , 66, 6429-6436	2.4	38
44	A general carbonyl alkylative amination for tertiary amine synthesis. <i>Nature</i> , 2020 , 581, 415-420	50.4	37
43	Double conjugate addition of dithiols to propargylic carbonyl systems to generate protected 1,3-dicarbonyl compounds. <i>Journal of Organic Chemistry</i> , 2006 , 71, 2715-25	4.2	32
42	Diastereoselective C-H carbonylative annulation of aliphatic amines: a rapid route to functionalized Elactams. <i>Chemical Science</i> , 2018 , 9, 7628-7633	9.4	31
41	Copper-Catalyzed Intramolecular Electrophilic Carbofunctionalization of Allylic Amides. <i>Angewandte Chemie</i> , 2013 , 125, 9454-9458	3.6	31
40	A Concise and Scalable Strategy for the Total Synthesis of Dictyodendrin B Based on Sequential C?H Functionalization. <i>Angewandte Chemie</i> , 2015 , 127, 5541-5545	3.6	29
39	Ligand-Enabled Catalytic C?H Arylation of Aliphatic Amines by a Four-Membered-Ring Cyclopalladation Pathway. <i>Angewandte Chemie</i> , 2015 , 127, 16066-16070	3.6	28
38	Chemical Synthesis of Aspidosperma Alkaloids Inspired by the Reverse of the Biosynthesis of the Rhazinilam Family of Natural Products. <i>Angewandte Chemie</i> , 2012 , 124, 9422-9425	3.6	26
37	Selective hydrogenolysis of novel benzyl carbamate protecting groups. <i>Organic Letters</i> , 2000 , 2, 1049-5	16.2	25
36	Evidence that the availability of an allylic hydrogen governs the regioselectivity of the Wacker oxidation. <i>Chemical Communications</i> , 2001 , 1844-5	5.8	24
35	Rapid Syntheses of (-)-FR901483 and (+)-TAN1251C Enabled by Complexity-Generating Photocatalytic Olefin Hydroaminoalkylation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2256	-2264	24
34	Carboxylate-Assisted Oxidative Addition to Aminoalkyl Pd Complexes: C(sp)-H Arylation of Alkylamines by Distinct Pd /Pd Pathway. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9054-905	9 ^{16.4}	23
33	Palladium(II)-Catalyzed C?H Bond Arylation of Electron-Deficient Arenes at Room Temperature. <i>Angewandte Chemie</i> , 2011 , 123, 1108-1111	3.6	23
32	Callipeltosides A, B and C: Total Syntheses and Structural Confirmation. <i>Chemistry - A European Journal</i> , 2015 , 21, 13261-77	4.8	21
31	Organic-Catalyst-Mediated Cyclopropanation Reaction. <i>Angewandte Chemie</i> , 2003 , 115, 852-855	3.6	20

30	Visible-Light-Mediated Carbonyl Alkylative Amination to All-Alkyl Fertiary Amino Acid Derivatives. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1598-1609	16.4	18
29	Mechanistic investigation into the C(sp)-H acetoxylation of morpholinones. <i>Chemical Science</i> , 2019 , 10, 83-89	9.4	16
28	Preferential hydrogenolysis of NAP esters provides a new orthogonal protecting group strategy for carboxylic acids. <i>Tetrahedron Letters</i> , 1999 , 40, 1803-1806	2	16
27	Copper-Catalyzed Oxy-Alkenylation of Homoallylic Alcohols to Generate Functional syn-1,3-Diol Derivatives. <i>Angewandte Chemie</i> , 2015 , 127, 7968-7972	3.6	14
26	Organocatalytic Sigmatropic Reactions: Development of a [2,3] Wittig Rearrangement through Secondary Amine Catalysis. <i>Angewandte Chemie</i> , 2006 , 118, 2170-2173	3.6	14
25	Synthesis and Reactivity of Stable Alkyl-Pd(IV) Complexes Relevant to Monodentate -Directed C(sp)-H Functionalization Processes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14169-14177	16.4	14
24	Selective Palladium(II)-Catalyzed Carbonylation of Methylene EC⊞ Bonds in Aliphatic Amines. <i>Angewandte Chemie</i> , 2017 , 129, 12120-12124	3.6	13
23	Gram-Scale Enantioselective Formal Synthesis of Morphine through an orthopara Oxidative Phenolic Coupling Strategy. <i>Angewandte Chemie</i> , 2014 , 126, 13716-13719	3.6	13
22	Visible-Light-Mediated Modification and Manipulation of Biomacromolecules. <i>Chemical Reviews</i> , 2021 ,	68.1	12
21	Selective Chemical Functionalization at N6-Methyladenosine Residues in DNA Enabled by Visible-Light-Mediated Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2148	4 ¹ 2749	92 ¹¹
20	Total Synthesis of Spongistatin 1: A Synthetic Strategy Exploiting Its Latent Pseudo-Symmetry. <i>Angewandte Chemie</i> , 2005 , 117, 5569-5574	3.6	11
19	Selective Reductive Elimination at Alkyl Palladium(IV) by Dissociative Ligand Ionization: Catalytic C(sp3) Amination to Azetidines. <i>Angewandte Chemie</i> , 2018 , 130, 3232-3236	3.6	9
18	Continuous-Flow Synthesis and Derivatization of Aziridines through Palladium-Catalyzed C(sp3)日 Activation. <i>Angewandte Chemie</i> , 2016 , 128, 9024-9029	3.6	9
17	Modular Photocatalytic Synthesis of 町rialkyl-町ertiary Amines. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15946-15959	16.4	8
16	Rapid Syntheses of (IFR901483 and (+)-TAN1251C Enabled by Complexity-Generating Photocatalytic Olefin Hydroaminoalkylation. <i>Angewandte Chemie</i> , 2020 , 132, 2276-2281	3.6	7
15	Palladium(II)-Catalyzed C(sp3) Activation of N,O-Ketals towards a Method for the Functionalization of Ketones. <i>Synlett</i> , 2019 , 30, 454-458	2.2	7
14	A Class of ND-Type Oxidants To Access High-Valent Palladium Species. <i>Organometallics</i> , 2019 , 38, 143-7	14,88	7
13	Pd(II)-Catalyzed Enantioselective C(sp)-H Arylation of Cyclopropanes and Cyclobutanes Guided by Tertiary Alkylamines <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	6

12	Carboxylate-Assisted Oxidative Addition to Aminoalkyl PdII Complexes: C(sp3) Arylation of Alkylamines by Distinct PdII/PdIV Pathway. <i>Angewandte Chemie</i> , 2019 , 131, 9152-9157	3.6	5
11	Oxidative Dearomatization and Organocatalytic Desymmetrization 2013, 383-390		4
10	Multicomponent alkene azidoarylation by anion-mediated dual catalysis. <i>Nature</i> , 2021 , 598, 597-603	50.4	4
9	Rapid Generation of Complex Molecular Architectures by a Catalytic Enantioselective Dearomatization Strategy. <i>Synlett</i> , 2015 , 27, 116-120	2.2	3
8	Thiol-Mediated Amino Radical Formation via Visible-Light-Activated Ion-Pair Charge-Transfer Complexes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19268-19274	16.4	3
7	Visible-light mediated carbonyl trifluoromethylative amination as a practical method for the synthesis of Erifluoromethyl tertiary alkylamines. <i>Chemical Science</i> , 2020 , 11, 12089-12094	9.4	3
6	Visible light-mediated radical fluoromethylation halogen atom transfer activation of fluoroiodomethane. <i>Chemical Science</i> , 2021 , 12, 12812-12818	9.4	3
5	Organic chemistry: Nickel steps towards selectivity. <i>Nature</i> , 2017 , 545, 35-36	50.4	2
4	Synthesis of the EF Fragment of Spongistatin 1. Synlett, 2005, 2005, 2031-2034	2.2	2
3	Cluster Preface: Catalysis Using Sustainable Metals [Part II. <i>Synlett</i> , 2015 , 26, 306-306	2.2	O
2	Catalysis Using Sustainable Metals [Part I. Synlett, 2014 , 25, 2715-2716	2.2	
1	Highlights from the 38th ESF/EUCHEM Conference on Stereochemistry, BEgenstock, Switzerland, April/May 2003. <i>Chemical Communications</i> , 2003 , 2253-5	5.8	