

Phil S Baran

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2009222/publications.pdf>

Version: 2024-02-01

202
papers

34,636
citations

2975

93
h-index

3579

181
g-index

280
all docs

280
docs citations

280
times ranked

17123
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic Organic Electrochemical Methods Since 2000: On the Verge of a Renaissance. <i>Chemical Reviews</i> , 2017, 117, 13230-13319.	47.7	2,449
2	C–H functionalization logic in total synthesis. <i>Chemical Society Reviews</i> , 2011, 40, 1976.	38.1	1,217
3	If C–H Bonds Could Talk: Selective C–H Bond Oxidation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3362-3374.	13.8	1,189
4	Practical and innate carbon–hydrogen functionalization of heterocycles. <i>Nature</i> , 2012, 492, 95-99.	27.8	784
5	Synthetic Organic Electrochemistry: An Enabling and Innately Sustainable Method. <i>ACS Central Science</i> , 2016, 2, 302-308.	11.3	769
6	Radicals: Reactive Intermediates with Translational Potential. <i>Journal of the American Chemical Society</i> , 2016, 138, 12692-12714.	13.7	754
7	The economies of synthesis. <i>Chemical Society Reviews</i> , 2009, 38, 3010.	38.1	714
8	Redox Economy in Organic Synthesis. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2854-2867.	13.8	687
9	Innate C-H trifluoromethylation of heterocycles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14411-14415.	7.1	667
10	Protecting-group-free synthesis as an opportunity for invention. <i>Nature Chemistry</i> , 2009, 1, 193-205.	13.6	602
11	A general alkyl-alkyl cross-coupling enabled by redox-active esters and alkylzinc reagents. <i>Science</i> , 2016, 352, 801-805.	12.6	579
12	Scalable and sustainable electrochemical allylic C–H oxidation. <i>Nature</i> , 2016, 533, 77-81.	27.8	567
13	Aiming for the Ideal Synthesis. <i>Journal of Organic Chemistry</i> , 2010, 75, 4657-4673.	3.2	544
14	A New Reagent for Direct Difluoromethylation. <i>Journal of the American Chemical Society</i> , 2012, 134, 1494-1497.	13.7	538
15	The Art and Science of Total Synthesis at the Dawn of the Twenty-First Century. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 44-122.	13.8	531
16	Direct C–H Arylation of Electron-Deficient Heterocycles with Arylboronic Acids. <i>Journal of the American Chemical Society</i> , 2010, 132, 13194-13196.	13.7	530
17	Innate and Guided C–H Functionalization Logic. <i>Accounts of Chemical Research</i> , 2012, 45, 826-839.	15.6	491
18	Total synthesis of marine natural products without using protecting groups. <i>Nature</i> , 2007, 446, 404-408.	27.8	477

#	ARTICLE	IF	CITATIONS
19	A Survival Guide for the "Electro-curious". <i>Accounts of Chemical Research</i> , 2020, 53, 72-83.	15.6	431
20	Residue-Specific Peptide Modification: A Chemist's Guide. <i>Biochemistry</i> , 2017, 56, 3863-3873.	2.5	395
21	Practical olefin hydroamination with nitroarenes. <i>Science</i> , 2015, 348, 886-891.	12.6	387
22	Practical Ni-Catalyzed Aryl-Alkyl Cross-Coupling of Secondary Redox-Active Esters. <i>Journal of the American Chemical Society</i> , 2016, 138, 2174-2177.	13.7	371
23	Total synthesis of eudesmane terpenes by site-selective C-H oxidations. <i>Nature</i> , 2009, 459, 824-828.	27.8	367
24	Functionalized olefin cross-coupling to construct carbon-carbon bonds. <i>Nature</i> , 2014, 516, 343-348.	27.8	355
25	Scalable, Electrochemical Oxidation of Unactivated C-H Bonds. <i>Journal of the American Chemical Society</i> , 2017, 139, 7448-7451.	13.7	353
26	Practical C-H Functionalization of Quinones with Boronic Acids. <i>Journal of the American Chemical Society</i> , 2011, 133, 3292-3295.	13.7	319
27	Decarboxylative borylation. <i>Science</i> , 2017, 356, .	12.6	312
28	Strain-release amination. <i>Science</i> , 2016, 351, 241-246.	12.6	310
29	Scalable and safe synthetic organic electroreduction inspired by Li-ion battery chemistry. <i>Science</i> , 2019, 363, 838-845.	12.6	305
30	A Practical and Catalytic Reductive Olefin Coupling. <i>Journal of the American Chemical Society</i> , 2014, 136, 1304-1307.	13.7	304
31	Fe-Catalyzed C-C Bond Construction from Olefins via Radicals. <i>Journal of the American Chemical Society</i> , 2017, 139, 2484-2503.	13.7	301
32	Radical-Based Regioselective C-H Functionalization of Electron-Deficient Heteroarenes: Scope, Tunability, and Predictability. <i>Journal of the American Chemical Society</i> , 2013, 135, 12122-12134.	13.7	287
33	Total Synthesis of Dixiamycin B by Electrochemical Oxidation. <i>Journal of the American Chemical Society</i> , 2014, 136, 5571-5574.	13.7	285
34	Radical C-H Functionalization of Heteroarenes under Electrochemical Control. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11868-11871.	13.8	280
35	Decarboxylative alkenylation. <i>Nature</i> , 2017, 545, 213-218.	27.8	277
36	14-Step Synthesis of (+)-Ingenol from (+)-3-Carene. <i>Science</i> , 2013, 341, 878-882.	12.6	273

#	ARTICLE	IF	CITATIONS
37	Synthetic Organic Electrochemistry: Calling All Engineers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4149-4155.	13.8	268
38	Chemoselectivity: The Mother of Invention in Total Synthesis. <i>Accounts of Chemical Research</i> , 2009, 42, 530-541.	15.6	262
39	Enantioselective Total Syntheses of Welwitindolinone A and Fischerindoles I and G. <i>Journal of the American Chemical Society</i> , 2005, 127, 15394-15396.	13.7	256
40	Electrochemically Enabled, Nickel-Catalyzed Amination. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13088-13093.	13.8	252
41	Electrochemically Driven, Ni-Catalyzed Aryl Amination: Scope, Mechanism, and Applications. <i>Journal of the American Chemical Society</i> , 2019, 141, 6392-6402.	13.7	251
42	Redox-Active Esters in Fe-Catalyzed C-C Coupling. <i>Journal of the American Chemical Society</i> , 2016, 138, 11132-11135.	13.7	245
43	Hindered dialkyl ether synthesis with electrogenerated carbocations. <i>Nature</i> , 2019, 573, 398-402.	27.8	240
44	Intermolecular Ritter-Type C-H Amination of Unactivated sp ³ Carbons. <i>Journal of the American Chemical Society</i> , 2012, 134, 2547-2550.	13.7	234
45	Nickel-Catalyzed Barton Decarboxylation and Giese Reactions: A Practical Take on Classic Transforms. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 260-265.	13.8	229
46	Direct Coupling of Indoles with Carbonyl Compounds: A Short, Enantioselective, Gram-Scale Synthetic Entry into the Hapalindole and Fischerindole Alkaloid Families. <i>Journal of the American Chemical Society</i> , 2004, 126, 7450-7451.	13.7	228
47	Direct Synthesis of Fluorinated Heteroarylether Bioisosteres. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3949-3952.	13.8	218
48	1,3-Diol Synthesis via Controlled, Radical-Mediated C-H Functionalization. <i>Journal of the American Chemical Society</i> , 2008, 130, 7247-7249.	13.7	206
49	Strain-Release Heteroatom Functionalization: Development, Scope, and Stereospecificity. <i>Journal of the American Chemical Society</i> , 2017, 139, 3209-3226.	13.7	198
50	Total Synthesis of Verruculogen and Fumitremorgin A Enabled by Ligand-Controlled C-H Borylation. <i>Journal of the American Chemical Society</i> , 2015, 137, 10160-10163.	13.7	196
51	Enantioselective Total Synthesis of Avrainvillamide and the Stephacidins. <i>Journal of the American Chemical Society</i> , 2006, 128, 8678-8693.	13.7	187
52	Intermolecular Oxidative Enolate Heterocoupling. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7083-7086.	13.8	186
53	Nineteen-step total synthesis of (+)-phorbol. <i>Nature</i> , 2016, 532, 90-93.	27.8	185
54	Guided desaturation of unactivated aliphatics. <i>Nature Chemistry</i> , 2012, 4, 629-635.	13.6	177

#	ARTICLE	IF	CITATIONS
55	Practical Radical Cyclizations with Arylboronic Acids and Trifluoroborates. <i>Organic Letters</i> , 2011, 13, 5628-5631.	4.6	175
56	Nickel-Catalyzed Cross-Coupling of Redox-Active Esters with Boronic Acids. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9676-9679.	13.8	175
57	C-H Methylation of Heteroarenes Inspired by Radical SAM Methyl Transferase. <i>Journal of the American Chemical Society</i> , 2014, 136, 4853-4856.	13.7	171
58	Modular radical cross-coupling with sulfones enables access to sp ³ -rich (fluoro)alkylated scaffolds. <i>Science</i> , 2018, 360, 75-80.	12.6	167
59	Scalable enantioselective total synthesis of taxanes. <i>Nature Chemistry</i> , 2012, 4, 21-25.	13.6	162
60	Radical Retrosynthesis. <i>Accounts of Chemical Research</i> , 2018, 51, 1807-1817.	15.6	161
61	Unlocking P(V): Reagents for chiral phosphorothioate synthesis. <i>Science</i> , 2018, 361, 1234-1238.	12.6	160
62	Direct Coupling of Pyrroles with Carbonyl Compounds: Short Enantioselective Synthesis of (S)-Ketorolac. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 609-612.	13.8	159
63	C-H Functionalization Logic Enables Synthesis of (+)-Hongoquercin and Related Compounds. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7317-7320.	13.8	159
64	Synthesis of (+)-Cortistatin A. <i>Journal of the American Chemical Society</i> , 2008, 130, 7241-7243.	13.7	158
65	Strategic Redox Relay Enables A Scalable Synthesis of Ouabagenin, A Bioactive Cardenolide. <i>Science</i> , 2013, 339, 59-63.	12.6	158
66	Short, Enantioselective Total Synthesis of Stephacidin A. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 606-609.	13.8	157
67	A Radical Approach to Anionic Chemistry: Synthesis of Ketones, Alcohols, and Amines. <i>Journal of the American Chemical Society</i> , 2019, 141, 6726-6739.	13.7	148
68	Flavin-mediated dual oxidation controls an enzymatic Favorskii-type rearrangement. <i>Nature</i> , 2013, 503, 552-556.	27.8	147
69	Simple Sulfinate Synthesis Enables C-H Trifluoromethylcyclopropanation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9851-9855.	13.8	143
70	Natural product synthesis in the age of scalability. <i>Natural Product Reports</i> , 2014, 31, 419-432.	10.3	138
71	Hydromethylation of Unactivated Olefins. <i>Journal of the American Chemical Society</i> , 2015, 137, 8046-8049.	13.7	137
72	Decarboxylative Alkynylation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11906-11910.	13.8	136

#	ARTICLE	IF	CITATIONS
73	Sceptrin as a Potential Biosynthetic Precursor to Complex Pyrrole-Imidazole Alkaloids: The Total Synthesis of Ageliferin. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2674-2677.	13.8	128
74	Total Synthesis of (±)-Haouamine A. <i>Journal of the American Chemical Society</i> , 2006, 128, 3908-3909.	13.7	127
75	Cu-Catalyzed Decarboxylative Borylation. <i>ACS Catalysis</i> , 2018, 8, 9537-9542.	11.2	126
76	Kinetically guided radical-based synthesis of C(sp ³)-C(sp ³) linkages on DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6404-E6410.	7.1	124
77	Enantioselective Total Syntheses of (±)-Palauamine, (±)-Axinellamines, and (±)-Massadines. <i>Journal of the American Chemical Society</i> , 2011, 133, 14710-14726.	13.7	122
78	Scalable, Divergent Synthesis of Meroterpenoids via α -Borono-sclareolide. <i>Journal of the American Chemical Society</i> , 2012, 134, 8432-8435.	13.7	121
79	Expanding Reactivity in DNA-Encoded Library Synthesis via Reversible Binding of DNA to an Inert Quaternary Ammonium Support. <i>Journal of the American Chemical Society</i> , 2019, 141, 9998-10006.	13.7	119
80	Strain Release in C-H Bond Activation?. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9705-9708.	13.8	118
81	Development of a Concise Synthesis of (+)-Ingenol. <i>Journal of the American Chemical Society</i> , 2014, 136, 5799-5810.	13.7	118
82	Scalable Synthesis of Cortistatin A and Related Structures. <i>Journal of the American Chemical Society</i> , 2011, 133, 8014-8027.	13.7	115
83	Total Synthesis Guided Structure Elucidation of (+)-Psychotetramine. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2716-2719.	13.8	115
84	Regioselective Bromination of Fused Heterocyclic N-Oxides. <i>Organic Letters</i> , 2013, 15, 792-795.	4.6	115
85	Natural Product Total Synthesis: As Exciting as Ever and Here To Stay. <i>Journal of the American Chemical Society</i> , 2018, 140, 4751-4755.	13.7	115
86	Synthesis of ent-Kaurane and Beyerane Diterpenoids by Controlled Fragmentations of Overbred Intermediates. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9019-9022.	13.8	113
87	Short Total Synthesis of (±)-Sceptrin. <i>Journal of the American Chemical Society</i> , 2004, 126, 3726-3727.	13.7	112
88	Scalable C-H Oxidation with Copper: Synthesis of Polyoxypregnanes. <i>Journal of the American Chemical Society</i> , 2015, 137, 13776-13779.	13.7	109
89	Development of a Concise Synthesis of Ouabagenin and Hydroxylated Corticosteroid Analogues. <i>Journal of the American Chemical Society</i> , 2015, 137, 1330-1340.	13.7	105
90	Total Synthesis of the CP Molecules CP-263,114 and CP-225,917 Part 1: Synthesis of Key Intermediates and Intelligence Gathering. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1669-1675.	13.8	104

#	ARTICLE	IF	CITATIONS
91	A Unified Approach to <i>ent</i> -Atisane Diterpenes and Related Alkaloids: Synthesis of (S)-Methyl Atisenoate, (S)-Isoatisine, and the Hetidine Skeleton. <i>Journal of the American Chemical Society</i> , 2014, 136, 12592-12595.	13.7	104
92	Alkyl Sulfinates: Radical Precursors Enabling Drug Discovery. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2256-2264.	6.4	102
93	Asymmetric syntheses of sceptrin and massadine and evidence for biosynthetic enantiodivergence. <i>Science</i> , 2014, 346, 219-224.	12.6	100
94	11-Step Total Synthesis of (S)-Maoecrystal V. <i>Journal of the American Chemical Society</i> , 2016, 138, 9425-9428.	13.7	100
95	Two-Phase Synthesis of Taxol. <i>Journal of the American Chemical Society</i> , 2020, 142, 10526-10533.	13.7	99
96	A General Amino Acid Synthesis Enabled by Innate Radical Cross-Coupling. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14560-14565.	13.8	97
97	Ni-electrocatalytic Csp ³ -Csp ³ doubly decarboxylative coupling. <i>Nature</i> , 2022, 606, 313-318.	27.8	96
98	Two-Phase Synthesis of (S)-Taxuyunnanine D. <i>Journal of the American Chemical Society</i> , 2014, 136, 4909-4912.	13.7	93
99	Scalable Total Synthesis and Biological Evaluation of Haouamine A and Its Atropisomer. <i>Journal of the American Chemical Society</i> , 2009, 131, 9172-9173.	13.7	92
100	Alkyl ² (Hetero)Aryl Bond Formation via Decarboxylative Cross-Coupling: A Systematic Analysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3319-3323.	13.8	92
101	Impact of Stereo- and Regiochemistry on Energetic Materials. <i>Journal of the American Chemical Society</i> , 2019, 141, 12531-12535.	13.7	92
102	Peptide Macrocyclization Inspired by Non-Ribosomal Imine Natural Products. <i>Journal of the American Chemical Society</i> , 2017, 139, 5233-5241.	13.7	90
103	Biomimetic Explorations Towards the Bisorbicillinoids: Total Synthesis of Bisorbicillinol, Bisorbibutenolide, and Trichodimerol. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3555-3559.	13.8	87
104	Electroreductive Olefin-Ketone Coupling. <i>Journal of the American Chemical Society</i> , 2020, 142, 20979-20986.	13.7	86
105	Total Synthesis of the CP Molecules CP-225,917 and CP-263,114 Part 2: Evolution of the Final Strategy. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1676-1678.	13.8	85
106	Total Synthesis of (R)-Chartelline C. <i>Journal of the American Chemical Society</i> , 2006, 128, 14028-14029.	13.7	82
107	Discovery of Clinical Candidate BMS-906024: A Potent Pan-Notch Inhibitor for the Treatment of Leukemia and Solid Tumors. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 523-527.	2.8	79
108	Chemoselective Electrosynthesis Using Rapid Alternating Polarity. <i>Journal of the American Chemical Society</i> , 2021, 143, 16580-16588.	13.7	79

#	ARTICLE	IF	CITATIONS
109	Improving Physical Properties via C ₁ –H Oxidation: Chemical and Enzymatic Approaches. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12091-12096.	13.8	78
110	Electrochemically Enabled, Nickel–Catalyzed Amination. <i>Angewandte Chemie</i> , 2017, 129, 13268-13273.	2.0	78
111	Electrochemical Nozaki–Hiyama–Kishi Coupling: Scope, Applications, and Mechanism. <i>Journal of the American Chemical Society</i> , 2021, 143, 9478-9488.	13.7	78
112	Quaternary Centers by Nickel–Catalyzed Cross–Coupling of Tertiary Carboxylic Acids and (Hetero)Aryl Zinc Reagents. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2454-2458.	13.8	76
113	Total synthesis reveals atypical atropisomerism in a small-molecule natural product, tryptorubin A. <i>Science</i> , 2020, 367, 458-463.	12.6	75
114	Enhanced Reactivity in Dioxirane C–H Oxidations via Strain Release: A Computational and Experimental Study. <i>Journal of Organic Chemistry</i> , 2013, 78, 4037-4048.	3.2	74
115	Electrifying Synthesis: Recent Advances in the Methods, Materials, and Techniques for Organic Electrosynthesis. <i>Accounts of Chemical Research</i> , 2020, 53, 545-546.	15.6	74
116	Scalable Access to Arylomycins via C–H Functionalization Logic. <i>Journal of the American Chemical Society</i> , 2018, 140, 2072-2075.	13.7	73
117	Short, Enantioselective Total Synthesis of Scepterin and Ageliferin by Programmed Oxaquadricyclane Fragmentation. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 249-252.	13.8	72
118	Divergent Synthesis of Pyrone Diterpenes via Radical Cross Coupling. <i>Journal of the American Chemical Society</i> , 2018, 140, 7462-7465.	13.7	72
119	Nickel–Catalyzed Barton Decarboxylation and Giese Reactions: A Practical Take on Classic Transforms. <i>Angewandte Chemie</i> , 2017, 129, 266-271.	2.0	70
120	Scalable Synthesis of (–)-Thapsigargin. <i>ACS Central Science</i> , 2017, 3, 47-51.	11.3	69
121	Building C(sp ³)-rich complexity by combining cycloaddition and C–C cross-coupling reactions. <i>Nature</i> , 2018, 560, 350-354.	27.8	68
122	Electrochemical C(sp ³)-H Fluorination. <i>Synlett</i> , 2019, 30, 1178-1182.	1.8	66
123	Cobalt-electrocatalytic HAT for functionalization of unsaturated C–C bonds. <i>Nature</i> , 2022, 605, 687-695.	27.8	65
124	Preparation and purification of zinc sulfinate reagents for drug discovery. <i>Nature Protocols</i> , 2013, 8, 1042-1047.	12.0	64
125	Academia–Industry Symbiosis in Organic Chemistry. <i>Accounts of Chemical Research</i> , 2015, 48, 712-721.	15.6	64
126	Direct Carbon Isotope Exchange through Decarboxylative Carboxylation. <i>Journal of the American Chemical Society</i> , 2019, 141, 774-779.	13.7	63

#	ARTICLE	IF	CITATIONS
127	11-Step Total Synthesis of Teleocidins B-1&B-4. <i>Journal of the American Chemical Society</i> , 2019, 141, 1494-1497.	13.7	63
128	A Remarkable Ring Contraction En Route to the Chartelline Alkaloids. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3714-3717.	13.8	62
129	<i>N</i>-Ammonium Ylide Mediators for Electrochemical C&H Oxidation. <i>Journal of the American Chemical Society</i> , 2021, 143, 7859-7867.	13.7	62
130	Modular terpene synthesis enabled by mild electrochemical couplings. <i>Science</i> , 2022, 375, 745-752.	12.6	62
131	Scalable, Enantioselective Synthesis of Germacrenes and Related Sesquiterpenes Inspired by Terpene Cyclase Phase Logic. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11491-11495.	13.8	61
132	Decoding the Mechanism of Intramolecular Cu-Directed Hydroxylation of sp³ C&H Bonds. <i>Journal of Organic Chemistry</i> , 2017, 82, 7887-7904.	3.2	61
133	Synthetisch&organische Elektrochemie: Ein Aufruf an alle Ingenieure. <i>Angewandte Chemie</i> , 2018, 130, 4219-4225.	2.0	58
134	Serine-Selective Bioconjugation. <i>Journal of the American Chemical Society</i> , 2020, 142, 17236-17242.	13.7	58
135	Nickel&Catalyzed Cross&Coupling of Redox&Active Esters with Boronic Acids. <i>Angewandte Chemie</i> , 2016, 128, 9828-9831.	2.0	56
136	Didehydro-Cortistatin A Inhibits HIV-1 by Specifically Binding to the Unstructured Basic Region of Tat. <i>MBio</i> , 2019, 10, .	4.1	56
137	Enantiodivergent Formation of C&P Bonds: Synthesis of P-Chiral Phosphines and Methylphosphonate Oligonucleotides. <i>Journal of the American Chemical Society</i> , 2020, 142, 5785-5792.	13.7	56
138	Total synthesis of eudesmane terpenes: cyclase phase. <i>Tetrahedron</i> , 2010, 66, 4738-4744.	1.9	55
139	Chemoselective (Hetero)Arene Electroreduction Enabled by Rapid Alternating Polarity. <i>Journal of the American Chemical Society</i> , 2022, 144, 5762-5768.	13.7	52
140	Short, Enantioselective Total Synthesis of Highly Oxidized Taxanes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8280-8284.	13.8	51
141	DNA Encoded Libraries: A Visitor's Guide. <i>Israel Journal of Chemistry</i> , 2020, 60, 268-280.	2.3	51
142	Axinellamines as Broad-Spectrum Antibacterial Agents: Scalable Synthesis and Biology. <i>Journal of the American Chemical Society</i> , 2014, 136, 15403-15413.	13.7	50
143	1,2-Difunctionalized bicyclo[1.1.1]pentanes: Long&sought-after mimetics for <i>ortho</i> / <i>meta</i>-substituted arenes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	50
144	Studies towards Trichodimerol: Novel Cascade Reactions and Polycyclic Frameworks. <i>Chemistry - A European Journal</i> , 1999, 5, 3651-3665.	3.3	49

#	ARTICLE	IF	CITATIONS
145	A Simple Litmus Test for Aldehyde Oxidase Metabolism of Heteroarenes. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 1616-1620.	6.4	49
146	Two-Phase Terpene Total Synthesis: Historical Perspective and Application to the Taxol® Problem. <i>Synlett</i> , 2010, 2010, 1733-1745.	1.8	48
147	Chemical Proteomics Identifies SLC25A20 as a Functional Target of the Ingenol Class of Actinic Keratosis Drugs. <i>ACS Central Science</i> , 2017, 3, 1276-1285.	11.3	47
148	Concise Total Synthesis of Herquelines B and C. <i>Journal of the American Chemical Society</i> , 2019, 141, 29-32.	13.7	47
149	Practical and Regioselective Synthesis of C-4-Alkylated Pyridines. <i>Journal of the American Chemical Society</i> , 2021, 143, 11927-11933.	13.7	47
150	Scalable total syntheses of (±)-hapalindole U and (+)-ambiguine H. <i>Tetrahedron</i> , 2015, 71, 3652-3665.	1.9	45
151	Carbonyl Desaturation: Where Does Catalysis Stand?. <i>ACS Catalysis</i> , 2021, 11, 883-892.	11.2	45
152	RASS-Enabled S/P ^α C and S ^α N Bond Formation for DEL Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7377-7383.	13.8	44
153	Electrochemically driven desaturation of carbonyl compounds. <i>Nature Chemistry</i> , 2021, 13, 367-372.	13.6	44
154	Electrosynthesis: Sustainability Is Not Enough. <i>Joule</i> , 2020, 4, 701-704.	24.0	43
155	Ideality in Context: Motivations for Total Synthesis. <i>Accounts of Chemical Research</i> , 2021, 54, 605-617.	15.6	43
156	Nature Chose Phosphates and Chemists Should Too: How Emerging P(V) Methods Can Augment Existing Strategies. <i>ACS Central Science</i> , 2021, 7, 1473-1485.	11.3	41
157	Decarboxylative Alkynylation. <i>Angewandte Chemie</i> , 2017, 129, 12068-12072.	2.0	40
158	C ^α H Oxidation of Ingenanes Enables Potent and Selective Protein Kinase C Isoform Activation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14044-14048.	13.8	39
159	Modular, stereocontrolled C ^α -H/C ^β -C activation of alkyl carboxylic acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8721-8727.	7.1	39
160	Two-Phase Total Synthesis of Taxanes: Tactics and Strategies. <i>Journal of Organic Chemistry</i> , 2020, 85, 10293-10320.	3.2	39
161	Chemoselective, Scalable Nickel ^{II} -Electrocatalytic <i>o</i> -Arylation of Alcohols. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20700-20705.	13.8	39
162	Electrochemical Decarboxylative <i>N</i> -Alkylation of Heterocycles. <i>Organic Letters</i> , 2020, 22, 7594-7598.	4.6	38

#	ARTICLE	IF	CITATIONS
163	A P(V) platform for oligonucleotide synthesis. <i>Science</i> , 2021, 373, 1265-1270.	12.6	38
164	Electrochemical borylation of carboxylic acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	37
165	11-Step Total Synthesis of Araiosamines. <i>Journal of the American Chemical Society</i> , 2016, 138, 14234-14237.	13.7	36
166	11-Step Total Synthesis of Pallambins C and D. <i>Journal of the American Chemical Society</i> , 2016, 138, 7536-7539.	13.7	36
167	Antroquinonol A: Scalable Synthesis and Preclinical Biology of a Phase 2 Drug Candidate. <i>ACS Central Science</i> , 2016, 2, 27-31.	11.3	34
168	Alkyl ^α (Hetero)Aryl Bond Formation via Decarboxylative Cross-Coupling: A Systematic Analysis. <i>Angewandte Chemie</i> , 2017, 129, 3367-3371.	2.0	33
169	A Novel Route to the Fused Maleic Anhydride Moiety of CP Molecules. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 549-552.	13.8	32
170	CITU: A Peptide and Decarboxylative Coupling Reagent. <i>Organic Letters</i> , 2017, 19, 6196-6199.	4.6	31
171	Total synthesis of taxane terpenes: cyclase phase. <i>Tetrahedron</i> , 2013, 69, 5685-5701.	1.9	29
172	Mechanistic Insights into Two-Phase Radical C-H Arylations. <i>ACS Central Science</i> , 2015, 1, 456-462.	11.3	29
173	A General Amino Acid Synthesis Enabled by Innate Radical Cross-Coupling. <i>Angewandte Chemie</i> , 2018, 130, 14768-14773.	2.0	25
174	An Approach to Mimicking the Sesquiterpene Cyclase Phase by Nickel-Promoted Diene/Alkyne Co-oligomerization. <i>Journal of Organic Chemistry</i> , 2012, 77, 825-842.	3.2	22
175	Total Synthesis of (α)-Maximiscin. <i>Journal of the American Chemical Society</i> , 2020, 142, 8608-8613.	13.7	22
176	Synthesis of Biologically Active Piperidine Metabolites of Clopidogrel: Determination of Structure and Analyte Development. <i>Journal of Organic Chemistry</i> , 2015, 80, 7019-7032.	3.2	19
177	Electrochemical Cyclobutane Synthesis in Flow: Scale-Up of a Promising Melt-Castable Energetic Intermediate. <i>Organic Process Research and Development</i> , 2021, 25, 2639-2645.	2.7	19
178	Total Synthesis of Tagetitoxin. <i>Journal of the American Chemical Society</i> , 2020, 142, 13683-13688.	13.7	18
179	Quaternary Centers by Nickel-Catalyzed Cross-Coupling of Tertiary Carboxylic Acids and (Hetero)Aryl Zinc Reagents. <i>Angewandte Chemie</i> , 2019, 131, 2476-2480.	2.0	17
180	Short, Enantioselective Total Synthesis of Highly Oxidized Taxanes. <i>Angewandte Chemie</i> , 2016, 128, 8420-8424.	2.0	15

#	ARTICLE	IF	CITATIONS
181	Tagging the Untaggable: A Difluoroalkyl-Sulfinate Ketone-Based Reagent for Direct C-H Functionalization of Bioactive Heteroarenes. <i>Bioconjugate Chemistry</i> , 2016, 27, 1965-1971.	3.6	14
182	Mild and Chemoselective Phosphorylation of Alcohols Using a $\hat{\text{T}}$ -Reagent. <i>Organic Letters</i> , 2021, 23, 9337-9342.	4.6	13
183	Divergent synthesis of thapsigargin analogs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 2705-2707.	2.2	12
184	Synthetic Elaboration of Native DNA by RASS (SENDR). <i>ACS Central Science</i> , 2020, 6, 1789-1799.	11.3	12
185	Ni-Catalyzed Enantioselective Dialkyl Carbinol Synthesis via Decarboxylative Cross-Coupling: Development, Scope, and Applications. <i>Journal of the American Chemical Society</i> , 2022, 144, 10992-11002.	13.7	12
186	A cure for catalyst poisoning. <i>Nature</i> , 2015, 524, 164-165.	27.8	11
187	Fighting evolution with chemical synthesis. <i>Nature</i> , 2016, 533, 326-327.	27.8	11
188	Convergent total synthesis of (+)-calcipotriol: A scalable, modular approach to vitamin D analogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2200814119.	7.1	10
189	RASS-Enabled S/P $\hat{\text{C}}$ and S $\hat{\text{N}}$ Bond Formation for DEL Synthesis. <i>Angewandte Chemie</i> , 2020, 132, 7447-7453.	2.0	9
190	A Practical Approach for Enantio- and Diastereocontrol in the Synthesis of 2,3-Disubstituted Succinic Acid Esters: Synthesis of the pan-Notch Inhibitor BMS-906024. <i>Synlett</i> , 2016, 27, 2254-2258.	1.8	8
191	Development of the Large-Scale Synthesis of Tetrahydropyran Glycine, a Precursor to the HCV NS5A Inhibitor BMS-986097. <i>Journal of Organic Chemistry</i> , 2017, 82, 10376-10387.	3.2	8
192	Response to Comment on "Asymmetric syntheses of sceptrin and massadine and evidence for biosynthetic enantiodivergence". <i>Science</i> , 2015, 349, 149-149.	12.6	7
193	<i>In situ</i> FTIR spectroscopic monitoring of electrochemically controlled organic reactions in a recycle reactor. <i>Reaction Chemistry and Engineering</i> , 2016, 1, 90-95.	3.7	7
194	Chemoselective, Scalable Nickel-Electrocatalytic O-Arylation of Alcohols. <i>Angewandte Chemie</i> , 2021, 133, 20868-20873.	2.0	7
195	Modular Access to Diverse Chemiluminescent Dioxetane-Luminophores through Convergent Synthesis. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	6
196	BMS-663068: Another Quiet Victory for Chemistry. <i>Organic Process Research and Development</i> , 2017, 21, 1091-1094.	2.7	5
197	Total Synthesis of Kibdelomycin. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	5
198	Reactivity tamed one bond at a time. <i>Nature</i> , 2014, 513, 324-325.	27.8	2

#	ARTICLE	IF	CITATIONS
199	Convergent synthesis of (R)-silodosin via decarboxylative cross-coupling. <i>Tetrahedron Letters</i> , 2021, 79, 153290.	1.4	2
200	The Charm and Appeal of Organic Chemistry. <i>ChemistryViews</i> , 0, , .	0.0	2
201	Total Synthesis of Teleocidins B-1-B-4 by Redox-Relay Chain Walking (RRCW). <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2021, 79, 333-343.	0.1	0
202	Total Synthesis of Kibdelomycin. <i>Angewandte Chemie</i> , 0, , .	2.0	0