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	2963 93 h-index	3563 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. Chemical Reviews, 2017, 117, 13230-13319.	23.0	2,449
2	Câ€“H functionalization logic in total synthesis. Chemical Society Reviews, 2011, 40, 1976.	18.7	1,217
3	If Cï£¿H Bonds Could Talk: Selective Cï£¿H Bond Oxidation. Angewandte Chemie - International Edition, 2011, 50, 3362-3374.	7.2	1,189
4	Practical and innate carbonâ€“hydrogen functionalization of heterocycles. Nature, 2012, 492, 95-99.	13.7	784
5	Synthetic Organic Electrochemistry: An Enabling and Innately Sustainable Method. ACS Central Science, 2016, 2, 302-308.	5.3	769
6	Radicals: Reactive Intermediates with Translational Potential. Journal of the American Chemical Society, 2016, 138, 12692-12714.	6.6	754
7	The economies of synthesis. Chemical Society Reviews, 2009, 38, 3010.	18.7	714
8	Redox Economy in Organic Synthesis. Angewandte Chemie - International Edition, 2009, 48, 2854-2867.	7.2	687
9	Innate C-H trifluoromethylation of heterocycles. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14411-14415.	3.3	667
10	Protecting-group-free synthesis as an opportunity for invention. Nature Chemistry, 2009, 1, 193-205.	6.6	602
11	A general alkyl-alkyl cross-coupling enabled by redox-active esters and alkylzinc reagents. Science, 2016, 352, 801-805.	6.0	579
12	Scalable and sustainable electrochemical allylic Câ€“H oxidation. Nature, 2016, 533, 77-81.	13.7	567
13	Aiming for the Ideal Synthesis. Journal of Organic Chemistry, 2010, 75, 4657-4673.	1.7	544
14	A New Reagent for Direct Difluoromethylation. Journal of the American Chemical Society, 2012, 134, 1494-1497.	6.6	538
15	The Art and Science of Total Synthesis at the Dawn of the Twenty-First Century. Angewandte Chemie - International Edition, 2000, 39, 44-122.	7.2	531
16	Direct Câ^'H Arylation of Electron-Deficient Heterocycles with Arylboronic Acids. Journal of the American Chemical Society, 2010, 132, 13194-13196.	6.6	530
17	Innate and Guided Câ€“H Functionalization Logic. Accounts of Chemical Research, 2012, 45, 826-839.	7.6	491
18	Total synthesis of marine natural products without using protecting groups. Nature, 2007, 446, 404-408.	13.7	477

#	Article	IF	Citations
19	A Survival Guide for the â€œElectro-curiousâ€. Accounts of Chemical Research, 2020, 53, 72-83.	7.6	431
20	Residue-Specific Peptide Modification: A Chemistâ€™s Guide. Biochemistry, 2017, 56, 3863-3873.	1.2	395
21	Practical olefin hydroamination with nitroarenes. Science, 2015, 348, 886-891.	6.0	387
22	Practical Ni-Catalyzed Arylâ€"Alkyl Cross-Coupling of Secondary Redox-Active Esters. Journal of the American Chemical Society, 2016, 138, 2174-2177.	6.6	371
23	Total synthesis of eudesmane terpenes by site-selective Câ€"H oxidations. Nature, 2009, 459, 824-828.	13.7	367
24	Functionalized olefin cross-coupling to construct carbonâ€"carbon bonds. Nature, 2014, 516, 343-348.	13.7	355
25	Scalable, Electrochemical Oxidation of Unactivated Câ€"H Bonds. Journal of the American Chemical Society, 2017, 139, 7448-7451.	6.6	353
26	Practical Câˆ'H Functionalization of Quinones with Boronic Acids. Journal of the American Chemical Society, 2011, 133, 3292-3295.	6.6	319
27	Decarboxylative borylation. Science, 2017, 356, .	6.0	312
28	Strain-release amination. Science, 2016, 351, 241-246.	6.0	310
29	Scalable and safe synthetic organic electroreduction inspired by Li-ion battery chemistry. Science, 2019, 363, 838-845.	6.0	305
30	A Practical and Catalytic Reductive Olefin Coupling. Journal of the American Chemical Society, 2014, 136, 1304-1307.	6.6	304
31	Fe-Catalyzed Câ€"C Bond Construction from Olefins via Radicals. Journal of the American Chemical Society, 2017, 139, 2484-2503.	6.6	301
32	Radical-Based Regioselective Câ€"H Functionalization of Electron-Deficient Heteroarenes: Scope, Tunability, and Predictability. Journal of the American Chemical Society, 2013, 135, 12122-12134.	6.6	287
33	Total Synthesis of Dixiamycin B by Electrochemical Oxidation. Journal of the American Chemical Society, 2014, 136, 5571-5574.	6.6	285
34	Radical Cï£¿H Functionalization of Heteroarenes under Electrochemical Control. Angewandte Chemie - International Edition, 2014, 53, 11868-11871.	7.2	280
35	Decarboxylative alkenylation. Nature, 2017, 545, 213-218.	13.7	277
36	14-Step Synthesis of (+)-Ingenol from (+)-3-Carene. Science, 2013, 341, 878-882.	6.0	273

#	Article	IF	Citations
37	Synthetic Organic Electrochemistry: Calling All Engineers. Angewandte Chemie - International Edition, 2018, 57, 4149-4155.	7.2	268
38	Chemoselectivity: The Mother of Invention in Total Synthesis. Accounts of Chemical Research, 2009, 42, 530-541.	7.6	262
39	Enantioselective Total Syntheses of Welwitindolinone A and Fischerindoles I and G. Journal of the American Chemical Society, 2005, 127, 15394-15396.	6.6	256
40	Electrochemically Enabled, Nickelâ€Catalyzed Amination. Angewandte Chemie - International Edition, 2017, 56, 13088-13093.	7.2	252
41	Electrochemically Driven, Ni-Catalyzed Aryl Amination: Scope, Mechanism, and Applications. Journal of the American Chemical Society, 2019, 141, 6392-6402.	6.6	251
42	Redox-Active Esters in Fe-Catalyzed Câ€“C Coupling. Journal of the American Chemical Society, 2016, 138, 11132-11135.	6.6	245
43	Hindered dialkyl ether synthesis with electrogenerated carbocations. Nature, 2019, 573, 398-402.	13.7	240
44	Intermolecular Ritter-Type Câ€“H Amination of Unactivated sp³ Carbons. Journal of the American Chemical Society, 2012, 134, 2547-2550.	6.6	234
45	Nickelâ€Catalyzed Barton Decarboxylation and Giese Reactions: A Practical Take on Classic Transforms. Angewandte Chemie - International Edition, 2017, 56, 260-265.	7.2	229
46	Direct Coupling of Indoles with Carbonyl Compounds:Â Short, Enantioselective, Gram-Scale Synthetic Entry into the Hapalindole and Fischerindole Alkaloid Families. Journal of the American Chemical Society, 2004, 126, 7450-7451.	6.6	228
47	Direct Synthesis of Fluorinated Heteroarylether Bioisosteres. Angewandte Chemie - International Edition, 2013, 52, 3949-3952.	7.2	218
48	1,3-Diol Synthesis via Controlled, Radical-Mediated Câˆ’H Functionalization. Journal of the American Chemical Society, 2008, 130, 7247-7249.	6.6	206
49	Strain-Release Heteroatom Functionalization: Development, Scope, and Stereospecificity. Journal of the American Chemical Society, 2017, 139, 3209-3226.	6.6	198
50	Total Synthesis of Verruculogen and Fumitremorgin A Enabled by Ligand-Controlled Câ€“H Borylation. Journal of the American Chemical Society, 2015, 137, 10160-10163.	6.6	196
51	Enantioselective Total Synthesis of Avrainvillamide and the Stephacidins. Journal of the American Chemical Society, 2006, 128, 8678-8693.	6.6	187
52	Intermolecular Oxidative Enolate Heterocoupling. Angewandte Chemie - International Edition, 2006, 45, 7083-7086.	7.2	186
53	Nineteen-step total synthesis of (+)-phorbol. Nature, 2016, 532, 90-93.	13.7	185
54	Guided desaturation of unactivated aliphatics. Nature Chemistry, 2012, 4, 629-635.	6.6	177

#	Article	IF	Citations
55	Practical Radical Cyclizations with Arylboronic Acids and Trifluoroborates. Organic Letters, 2011, 13, 5628-5631.	2.4	175
56	Nickelâ€Catalyzed Crossâ€Coupling of Redoxâ€Active Esters with Boronic Acids. Angewandte Chemie - International Edition, 2016, 55, 9676-9679.	7.2	175
57	Câ€“H Methylation of Heteroarenes Inspired by Radical SAM Methyl Transferase. Journal of the American Chemical Society, 2014, 136, 4853-4856.	6.6	171
58	Modular radical cross-coupling with sulfones enables access to sp ³ -rich (fluoro)alkylated scaffolds. Science, 2018, 360, 75-80.	6.0	167
59	Scalable enantioselective total synthesis of taxanes. Nature Chemistry, 2012, 4, 21-25.	6.6	162
60	Radical Retrosynthesis. Accounts of Chemical Research, 2018, 51, 1807-1817.	7.6	161
61	Unlocking P(V): Reagents for chiral phosphorothioate synthesis. Science, 2018, 361, 1234-1238.	6.0	160
62	Direct Coupling of Pyrroles with Carbonyl Compounds: Short Enantioselective Synthesis of (S)-Ketorolac. Angewandte Chemie - International Edition, 2005, 44, 609-612.	7.2	159
63	Cï£¿H Functionalization Logic Enables Synthesis of (+)â€Hongoquercinâ€…A and Related Compounds. Angewandte Chemie - International Edition, 2013, 52, 7317-7320.	7.2	159
64	Synthesis of (+)-Cortistatin A. Journal of the American Chemical Society, 2008, 130, 7241-7243.	6.6	158
65	Strategic Redox Relay Enables A Scalable Synthesis of Ouabagenin, A Bioactive Cardenolide. Science, 2013, 339, 59-63.	6.0	158
66	Short, Enantioselective Total Synthesis of Stephacidin A. Angewandte Chemie - International Edition, 2005, 44, 606-609.	7.2	157
67	A Radical Approach to Anionic Chemistry: Synthesis of Ketones, Alcohols, and Amines. Journal of the American Chemical Society, 2019, 141, 6726-6739.	6.6	148
68	Flavin-mediated dual oxidation controls an enzymatic Favorskii-type rearrangement. Nature, 2013, 503, 552-556.	13.7	147
69	Simple Sulfinate Synthesis Enables Cï£¿H Trifluoromethylcyclopropanation. Angewandte Chemie - International Edition, 2014, 53, 9851-9855.	7.2	143
70	Natural product synthesis in the age of scalability. Natural Product Reports, 2014, 31, 419-432.	5.2	138
71	Hydromethylation of Unactivated Olefins. Journal of the American Chemical Society, 2015, 137, 8046-8049.	6.6	137
72	Decarboxylative Alkynylation. Angewandte Chemie - International Edition, 2017, 56, 11906-11910.	7.2	136

#	Article	IF	Citations
73	Sceptrin as a Potential Biosynthetic Precursor to Complex Pyrroleâ€“Imidazole Alkaloids: The Total Synthesis of Ageliferin. Angewandte Chemie - International Edition, 2004, 43, 2674-2677.	7.2	128
74	Total Synthesis of (Â±)-Haouamine A. Journal of the American Chemical Society, 2006, 128, 3908-3909.	6.6	127
75	Cu-Catalyzed Decarboxylative Borylation. ACS Catalysis, 2018, 8, 9537-9542.	5.5	126
76	Kinetically guided radical-based synthesis of C(sp ³)â^'C(sp ³) linkages on DNA. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6404-E6410.	3.3	124
77	Enantioselective Total Syntheses of (â^')-Palauâ€™amine, (â^')-Axinellamines, and (â^')-Massadines. Journal of the American Chemical Society, 2011, 133, 14710-14726.	6.6	122
78	Scalable, Divergent Synthesis of Meroterpenoids via â€œBorono-sclareolideâ€. Journal of the American Chemical Society, 2012, 134, 8432-8435.	6.6	121
79	Expanding Reactivity in DNA-Encoded Library Synthesis via Reversible Binding of DNA to an Inert Quaternary Ammonium Support. Journal of the American Chemical Society, 2019, 141, 9998-10006.	6.6	119
80	Strain Release in Cï£¿H Bond Activation?. Angewandte Chemie - International Edition, 2009, 48, 9705-9708.	7.2	118
81	Development of a Concise Synthesis of (+)-Ingenol. Journal of the American Chemical Society, 2014, 136, 5799-5810.	6.6	118
82	Scalable Synthesis of Cortistatin A and Related Structures. Journal of the American Chemical Society, 2011, 133, 8014-8027.	6.6	115
83	Total Synthesis Guided Structure Elucidation of (+)â€Psychotetramine. Angewandte Chemie - International Edition, 2011, 50, 2716-2719.	7.2	115
84	Regioselective Bromination of Fused Heterocyclic <i>N</i>-Oxides. Organic Letters, 2013, 15, 792-795.	2.4	115
85	Natural Product Total Synthesis: As Exciting as Ever and Here To Stay. Journal of the American Chemical Society, 2018, 140, 4751-4755.	6.6	115
86	Synthesis of <i>ent</i>â€Kaurane and Beyerane Diterpenoids by Controlled Fragmentations of Overbred Intermediates. Angewandte Chemie - International Edition, 2013, 52, 9019-9022.	7.2	113
87	Short Total Synthesis of (Â±)-Sceptrin. Journal of the American Chemical Society, 2004, 126, 3726-3727.	6.6	112
88	Scalable Câ€“H Oxidation with Copper: Synthesis of Polyoxypregnanes. Journal of the American Chemical Society, 2015, 137, 13776-13779.	6.6	109
89	Development of a Concise Synthesis of Ouabagenin and Hydroxylated Corticosteroid Analogues. Journal of the American Chemical Society, 2015, 137, 1330-1340.	6.6	105
90	Total Synthesis of the CP Molecules CP-263,114 and CP-225,917â€" Part 1: Synthesis of Key Intermediates and Intelligence Gathering. Angewandte Chemie - International Edition, 1999, 38, 1669-1675.	7.2	104

#	Article	IF	Citations
91	A Unified Approach to <i>ent</i>-Atisane Diterpenes and Related Alkaloids: Synthesis of (â^')-Methyl Atisenoate, (â^')-Isoatisine, and the Hetidine Skeleton. Journal of the American Chemical Society, 2014, 136, 12592-12595.	6.6	104
92	Alkyl Sulfinates: Radical Precursors Enabling Drug Discovery. Journal of Medicinal Chemistry, 2019, 62, 2256-2264.	2.9	102
93	Asymmetric syntheses of sceptrin and massadine and evidence for biosynthetic enantiodivergence. Science, 2014, 346, 219-224.	6.0	100
94	11-Step Total Synthesis of (â^')-Maoecrystal V. Journal of the American Chemical Society, 2016, 138, 9425-9428.	6.6	100
95	Two-Phase Synthesis of Taxol. Journal of the American Chemical Society, 2020, 142, 10526-10533.	6.6	99
96	A General Amino Acid Synthesis Enabled by Innate Radical Crossâ€Coupling. Angewandte Chemie - International Edition, 2018, 57, 14560-14565.	7.2	97
97	Ni-electrocatalytic Csp3â€"Csp3 doubly decarboxylative coupling. Nature, 2022, 606, 313-318.	13.7	96
98	Two-Phase Synthesis of (â^')-Taxuyunnanine D. Journal of the American Chemical Society, 2014, 136, 4909-4912.	6.6	93
99	Scalable Total Synthesis and Biological Evaluation of Haouamine A and Its Atropisomer. Journal of the American Chemical Society, 2009, 131, 9172-9173.	6.6	92
100	Alkylâ^'(Hetero)Aryl Bond Formation via Decarboxylative Crossâ€Coupling: A Systematic Analysis. Angewandte Chemie - International Edition, 2017, 56, 3319-3323.	7.2	92
101	Impact of Stereo- and Regiochemistry on Energetic Materials. Journal of the American Chemical Society, 2019, 141, 12531-12535.	6.6	92
102	Peptide Macrocyclization Inspired by Non-Ribosomal Imine Natural Products. Journal of the American Chemical Society, 2017, 139, 5233-5241.	6.6	90
103	Biomimetic Explorations Towards the Bisorbicillinoids: Total Synthesis of Bisorbicillinol, Bisorbibutenolide, and Trichodimerol. Angewandte Chemie - International Edition, 1999, 38, 3555-3559.	7.2	87
104	Electroreductive Olefinâ€"Ketone Coupling. Journal of the American Chemical Society, 2020, 142, 20979-20986.	6.6	86
105	Total Synthesis of the CP Molecules CP-225,917 and CP-263,114â€" Part 2: Evolution of the Final Strategy. Angewandte Chemie - International Edition, 1999, 38, 1676-1678.	7.2	85
106	Total Synthesis of (Â±)-Chartelline C. Journal of the American Chemical Society, 2006, 128, 14028-14029.	6.6	82
107	Discovery of Clinical Candidate BMS-906024: A Potent Pan-Notch Inhibitor for the Treatment of Leukemia and Solid Tumors. ACS Medicinal Chemistry Letters, 2015, 6, 523-527.	1.3	79
108	Chemoselective Electrosynthesis Using Rapid Alternating Polarity. Journal of the American Chemical Society, 2021, 143, 16580-16588.	6.6	79

#	Article	IF	Citations
109	Improving Physical Properties via Cï£¿H Oxidation: Chemical and Enzymatic Approaches. Angewandte Chemie - International Edition, 2014, 53, 12091-12096.	7.2	78
110	Electrochemically Enabled, Nickelâ€Catalyzed Amination. Angewandte Chemie, 2017, 129, 13268-13273.	1.6	78
111	Electrochemical Nozakiâ€"Hiyamaâ€"Kishi Coupling: Scope, Applications, and Mechanism. Journal of the American Chemical Society, 2021, 143, 9478-9488.	6.6	78
112	Quaternary Centers by Nickelâ€Catalyzed Crossâ€Coupling of Tertiary Carboxylic Acids and (Hetero)Aryl Zinc Reagents. Angewandte Chemie - International Edition, 2019, 58, 2454-2458.	7.2	76
113	Total synthesis reveals atypical atropisomerism in a small-molecule natural product, tryptorubin A. Science, 2020, 367, 458-463.	6.0	75
114	Enhanced Reactivity in Dioxirane Câ€"H Oxidations via Strain Release: A Computational and Experimental Study. Journal of Organic Chemistry, 2013, 78, 4037-4048.	1.7	74
115	Electrifying Synthesis: Recent Advances in the Methods, Materials, and Techniques for Organic Electrosynthesis. Accounts of Chemical Research, 2020, 53, 545-546.	7.6	74
116	Scalable Access to Arylomycins via Câ€"H Functionalization Logic. Journal of the American Chemical Society, 2018, 140, 2072-2075.	6.6	73
117	Short, Enantioselective Total Synthesis of Sceptrin and Ageliferin by Programmed Oxaquadricyclane Fragmentation. Angewandte Chemie - International Edition, 2006, 45, 249-252.	7.2	72
118	Divergent Synthesis of Pyrone Diterpenes via Radical Cross Coupling. Journal of the American Chemical Society, 2018, 140, 7462-7465.	6.6	72
119	Nickelâ€Catalyzed Barton Decarboxylation and Giese Reactions: A Practical Take on Classic Transforms. Angewandte Chemie, 2017, 129, 266-271.	1.6	70
120	Scalable Synthesis of (âˆ')-Thapsigargin. ACS Central Science, 2017, 3, 47-51.	5.3	69
121	Building C(sp3)-rich complexity by combining cycloaddition and Câ€"C cross-coupling reactions. Nature, 2018, 560, 350-354.	13.7	68
122	Electrochemical C(sp3)â€"H Fluorination. Synlett, 2019, 30, 1178-1182.	1.0	66
123	Cobalt-electrocatalytic HAT for functionalization of unsaturated Câ€"C bonds. Nature, 2022, 605, 687-695.	13.7	65
124	Preparation and purification of zinc sulfinate reagents for drug discovery. Nature Protocols, 2013, 8, 1042-1047.	5.5	64
125	Academiaâ€"Industry Symbiosis in Organic Chemistry. Accounts of Chemical Research, 2015, 48, 712-721.	7.6	64
126	Direct Carbon Isotope Exchange through Decarboxylative Carboxylation. Journal of the American Chemical Society, 2019, 141, 774-779.	6.6	63

#	Article	IF	Citations
127	11-Step Total Synthesis of Teleocidins B-1â€“B-4. Journal of the American Chemical Society, 2019, 141, 1494-1497.	6.6	63
128	A Remarkable Ring Contraction En Route to the Chartelline Alkaloids. Angewandte Chemie - International Edition, 2005, 44, 3714-3717.	7.2	62
129	<i>N</i>-Ammonium Ylide Mediators for Electrochemical Câ€“H Oxidation. Journal of the American Chemical Society, 2021, 143, 7859-7867.	6.6	62
130	Modular terpene synthesis enabled by mild electrochemical couplings. Science, 2022, 375, 745-752.	6.0	62
131	Scalable, Enantioselective Synthesis of Germacrenes and Related Sesquiterpenes Inspired by Terpene Cyclase Phase Logic. Angewandte Chemie - International Edition, 2012, 51, 11491-11495.	7.2	61
132	Decoding the Mechanism of Intramolecular Cu-Directed Hydroxylation of sp³ Câ€“H Bonds. Journal of Organic Chemistry, 2017, 82, 7887-7904.	1.7	61
133	Synthetischâ€organische Elektrochemie: Ein Aufruf an alle Ingenieure. Angewandte Chemie, 2018, 130, 4219-4225.	1.6	58
134	Serine-Selective Bioconjugation. Journal of the American Chemical Society, 2020, 142, 17236-17242.	6.6	58
135	Nickelâ€Catalyzed Crossâ€Coupling of Redoxâ€Active Esters with Boronic Acids. Angewandte Chemie, 2016, 128, 9828-9831.	1.6	56
136	Didehydro-Cortistatin A Inhibits HIV-1 by Specifically Binding to the Unstructured Basic Region of Tat. MBio, 2019, 10, .	1.8	56
137	Enantiodivergent Formation of Câ€“P Bonds: Synthesis of P-Chiral Phosphines and Methylphosphonate Oligonucleotides. Journal of the American Chemical Society, 2020, 142, 5785-5792.	6.6	56
138	Total synthesis of eudesmane terpenes: cyclase phase. Tetrahedron, 2010, 66, 4738-4744.	1.0	55
139	Chemoselective (Hetero)Arene Electroreduction Enabled by Rapid Alternating Polarity. Journal of the American Chemical Society, 2022, 144, 5762-5768.	6.6	52
140	Short, Enantioselective Total Synthesis of Highly Oxidized Taxanes. Angewandte Chemie - International Edition, 2016, 55, 8280-8284.	7.2	51
141	DNA Encoded Libraries: A Visitor's Guide. Israel Journal of Chemistry, 2020, 60, 268-280.	1.0	51
142	Axinellamines as Broad-Spectrum Antibacterial Agents: Scalable Synthesis and Biology. Journal of the American Chemical Society, 2014, 136, 15403-15413.	6.6	50
143	1,2-Difunctionalized bicyclo[1.1.1]pentanes: Longâ€“sought-after mimetics for <i>ortho</i> / <i>meta</i> -substituted arenes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	50
144	Studies towards Trichodimerol: Novel Cascade Reactions and Polycyclic Frameworks. Chemistry - A European Journal, 1999, 5, 3651-3665.	1.7	49

#	Article	IF	Citations
145	A Simple Litmus Test for Aldehyde Oxidase Metabolism of Heteroarenes. Journal of Medicinal Chemistry, 2014, 57, 1616-1620.	2.9	49
146	Two-Phase Terpene Total Synthesis: Historical Perspective and Application to the TaxolÂ® Problem. Synlett, 2010, 2010, 1733-1745.	1.0	48
147	Chemical Proteomics Identifies SLC25A20 as a Functional Target of the Ingenol Class of Actinic Keratosis Drugs. ACS Central Science, 2017, 3, 1276-1285.	5.3	47
148	Concise Total Synthesis of Herqulines B and C. Journal of the American Chemical Society, 2019, 141, 29-32.	6.6	47
149	Practical and Regioselective Synthesis of C-4-Alkylated Pyridines. Journal of the American Chemical Society, 2021, 143, 11927-11933.	6.6	47
150	Scalable total syntheses of (âˆ’)-hapalindole U and (+)-ambiguine H. Tetrahedron, 2015, 71, 3652-3665.	1.0	45
151	Carbonyl Desaturation: Where Does Catalysis Stand?. ACS Catalysis, 2021, 11, 883-892.	5.5	45
152	RASSâ€Enabled S/Pâˆ’C and Sâˆ’N Bond Formation for DEL Synthesis. Angewandte Chemie - International Edition, 2020, 59, 7377-7383.	7.2	44
153	Electrochemically driven desaturation of carbonyl compounds. Nature Chemistry, 2021, 13, 367-372.	6.6	44
154	Electrosynthesis: Sustainability Is Not Enough. Joule, 2020, 4, 701-704.	11.7	43
155	Ideality in Context: Motivations for Total Synthesis. Accounts of Chemical Research, 2021, 54, 605-617.	7.6	43
156	Nature Chose Phosphates and Chemists Should Too: How Emerging P(V) Methods Can Augment Existing Strategies. ACS Central Science, 2021, 7, 1473-1485.	5.3	41
157	Decarboxylative Alkynylation. Angewandte Chemie, 2017, 129, 12068-12072.	1.6	40
158	Cï£¿H Oxidation of Ingenanes Enables Potent and Selective Protein Kinase C Isoform Activation. Angewandte Chemie - International Edition, 2015, 54, 14044-14048.	7.2	39
159	Modular, stereocontrolled C _{Î²} â€“H/C _{Î±} â€“C activation of alkyl carboxylic acids. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8721-8727.	3.3	39
160	Two-Phase Total Synthesis of Taxanes: Tactics and Strategies. Journal of Organic Chemistry, 2020, 85, 10293-10320.	1.7	39
161	Chemoselective, Scalable Nickelâ€Electrocatalytic <i>O</i>â€Arylation of Alcohols. Angewandte Chemie - International Edition, 2021, 60, 20700-20705.	7.2	39
162	Electrochemical Decarboxylative <i>N</i>-Alkylation of Heterocycles. Organic Letters, 2020, 22, 7594-7598.	2.4	38

#	Article	IF	Citations
163	A P(V) platform for oligonucleotide synthesis. Science, 2021, 373, 1265-1270.	6.0	38
164	Electrochemical borylation of carboxylic acids. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	37
165	11-Step Total Synthesis of Araiosamines. Journal of the American Chemical Society, 2016, 138, 14234-14237.	6.6	36
166	11-Step Total Synthesis of Pallambins C and D. Journal of the American Chemical Society, 2016, 138, 7536-7539.	6.6	36
167	Antroquinonol A: Scalable Synthesis and Preclinical Biology of a Phase 2 Drug Candidate. ACS Central Science, 2016, 2, 27-31.	5.3	34
168	Alkylâˆ'(Hetero)Aryl Bond Formation via Decarboxylative Crossâ€Coupling: A Systematic Analysis. Angewandte Chemie, 2017, 129, 3367-3371.	1.6	33
169	A Novel Route to the Fused Maleic Anhydride Moiety of CP Molecules. Angewandte Chemie - International Edition, 1999, 38, 549-552.	7.2	32
170	CITU: A Peptide and Decarboxylative Coupling Reagent. Organic Letters, 2017, 19, 6196-6199.	2.4	31
171	Total synthesis of taxane terpenes: cyclase phase. Tetrahedron, 2013, 69, 5685-5701.	1.0	29
172	Mechanistic Insights into Two-Phase Radical Câ€"H Arylations. ACS Central Science, 2015, 1, 456-462.	5.3	29
173	A General Amino Acid Synthesis Enabled by Innate Radical Crossâ€Coupling. Angewandte Chemie, 2018, 130, 14768-14773.	1.6	25
174	An Approach to Mimicking the Sesquiterpene Cyclase Phase by Nickel-Promoted Diene/Alkyne Cooligomerization. Journal of Organic Chemistry, 2012, 77, 825-842.	1.7	22
175	Total Synthesis of (âˆ')-Maximiscin. Journal of the American Chemical Society, 2020, 142, 8608-8613.	6.6	22
176	Synthesis of Biologically Active Piperidine Metabolites of Clopidogrel: Determination of Structure and Analyte Development. Journal of Organic Chemistry, 2015, 80, 7019-7032.	1.7	19
177	Electrochemical Cyclobutane Synthesis in Flow: Scale-Up of a Promising Melt-Castable Energetic Intermediate. Organic Process Research and Development, 2021, 25, 2639-2645.	1.3	19
178	Total Synthesis of Tagetitoxin. Journal of the American Chemical Society, 2020, 142, 13683-13688.	6.6	18
179	Quaternary Centers by Nickelâ€Catalyzed Crossâ€Coupling of Tertiary Carboxylic Acids and (Hetero)Aryl Zinc Reagents. Angewandte Chemie, 2019, 131, 2476-2480.	1.6	17
180	Short, Enantioselective Total Synthesis of Highly Oxidized Taxanes. Angewandte Chemie, 2016, 128, 8420-8424.	1.6	15

#	ARTICLE	IF	CITATIONS
181	Tagging the Untaggable: A Difluoroalkyl-Sulfinate Ketone-Based Reagent for Direct Câ€"H Functionalization of Bioactive Heteroarenes. Bioconjugate Chemistry, 2016, 27, 1965-1971.	1.8	14
182	Mild and Chemoselective Phosphorylation of Alcohols Using a Î¨-Reagent. Organic Letters, 2021, 23, 9337-9342.	2.4	13
183	Divergent synthesis of thapsigargin analogs. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2705-2707.	1.0	12
184	Synthetic Elaboration of Native DNA by RASS (SENDR). ACS Central Science, 2020, 6, 1789-1799.	5.3	12
185	Ni-Catalyzed Enantioselective Dialkyl Carbinol Synthesis via Decarboxylative Cross-Coupling: Development, Scope, and Applications. Journal of the American Chemical Society, 2022, 144, 10992-11002.	6.6	12
186	A cure for catalyst poisoning. Nature, 2015, 524, 164-165.	13.7	11
187	Fighting evolution with chemical synthesis. Nature, 2016, 533, 326-327.	13.7	11
188	Convergent total synthesis of (+)-calcipotriol: A scalable, modular approach to vitamin D analogs. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2200814119.	3.3	10
189	RASSâ€Enabled S/Pâ€"C and Sâ€"N Bond Formation for DEL Synthesis. Angewandte Chemie, 2020, 132, 7447-7453.	1.6	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. Synlett, 2016, 27, 2254-2258.	1.0	8
191	Development of the Large-Scale Synthesis of Tetrahydropyran Glycine, a Precursor to the HCV NS5A Inhibitor BMS-986097. Journal of Organic Chemistry, 2017, 82, 10376-10387.	1.7	8
192	Response to Comment on â€œAsymmetric syntheses of sceptrin and massadine and evidence for biosynthetic enantiodivergenceâ€• Science, 2015, 349, 149-149.	6.0	7
193	<i>In situ</i> FTIR spectroscopic monitoring of electrochemically controlled organic reactions in a recycle reactor. Reaction Chemistry and Engineering, 2016, 1, 90-95.	1.9	7
194	Chemoselective, Scalable Nickelâ€Electrocatalytic O â€Arylation of Alcohols. Angewandte Chemie, 2021, 133, 20868-20873.	1.6	7
195	Modular Access to Diverse Chemiluminescent Dioxetaneâ€Luminophores through Convergent Synthesis. Angewandte Chemie, 2022, 134, .	1.6	6
196	BMS-663068: Another Quiet Victory for Chemistry. Organic Process Research and Development, 2017, 21, 1091-1094.	1.3	5
197	Total Synthesis of Kibdelomycin. Angewandte Chemie - International Edition, 2022, 61, .	7.2	5
198	Reactivity tamed one bond at a time. Nature, 2014, 513, 324-325.	13.7	2

#	Article	IF	Citations
199	Convergent synthesis of (R)-silodosin via decarboxylative cross-coupling. Tetrahedron Letters, 2021, 79, 153290.	0.7	2
200	The Charm and Appeal of Organic Chemistry. ChemistryViews, 0, , .	0.0	2
201	Total Synthesis of Teleocidins B-1-B-4 by Redox-Relay Chain Walking (RRCW). Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2021, 79, 333-343.	0.0	0
202	Total Synthesis of Kibdelomycin. Angewandte Chemie, 0, , .	1.6	0