

Eric M Simmons

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4241145/publications.pdf>

Version: 2024-02-01

43
papers

4,133
citations

304368

22
h-index

233125

45
g-index

51
all docs

51
docs citations

51
times ranked

4107
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Interpretation of Deuterium Kinetic Isotope Effects in C–H Bond Functionalizations by Transition-Metal Complexes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3066-3072.	7.2	1,673
2	Catalytic functionalization of unactivated primary C–H bonds directed by an alcohol. <i>Nature</i> , 2012, 483, 70-73.	13.7	366
3	Iridium-Catalyzed Arene <i>Ortho</i> -Silylation by Formal Hydroxyl-Directed C–H Activation. <i>Journal of the American Chemical Society</i> , 2010, 132, 17092-17095.	6.6	225
4	A Pharmaceutical Industry Perspective on Sustainable Metal Catalysis. <i>Organometallics</i> , 2019, 38, 36-46.	1.1	210
5	Ga(III)-Catalyzed Cycloisomerization Strategy for the Synthesis of Icetexane Diterpenoids: Total Synthesis of (±)-Salviasperanol. <i>Organic Letters</i> , 2006, 8, 2883-2886.	2.4	90
6	Ni-Catalyzed Carbon–Carbon Bond-Forming Reductive Amination. <i>Journal of the American Chemical Society</i> , 2018, 140, 2292-2300.	6.6	81
7	High-Throughput Automation in Chemical Process Development. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2017, 8, 525-547.	3.3	79
8	Rapid Construction of the Cortistatin Pentacyclic Core. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6650-6653.	7.2	74
9	Structure, biosynthetic relationships and chemical synthesis of the icetexane diterpenoids. <i>Natural Product Reports</i> , 2009, 26, 1195.	5.2	69
10	Iridium-Catalyzed, Diastereoselective Dehydrogenative Silylation of Terminal Alkenes with (TMSO) ₂ MeSiH. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8984-8989.	7.2	57
11	Formal total synthesis of (±)-cortistatin A. <i>Tetrahedron</i> , 2010, 66, 4696-4700.	1.0	49
12	Synthetic Strategies Directed Towards the Cortistatin Family of Natural Products. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 3553-3567.	1.2	49
13	Decarboxylative Intramolecular Arene Alkylation Using <i>N</i> -(Acyloxy)phthalimides, an Organic Photocatalyst, and Visible Light. <i>Journal of Organic Chemistry</i> , 2019, 84, 8360-8379.	1.7	49
14	Reconciling Icetexane Biosynthetic Connections with Their Chemical Synthesis: Total Synthesis of (±)-5,6-Dihydro-6 β -hydroxysalviasperanol, (±)-Brussonol, and (±)-Abrotanone. <i>Organic Letters</i> , 2007, 9, 2705-2708.	2.4	47
15	Nickel-Catalyzed Synthesis of Quinazolinones. <i>Organic Letters</i> , 2017, 19, 1052-1055.	2.4	46
16	Adventures in Atropisomerism: Total Synthesis of a Complex Active Pharmaceutical Ingredient with Two Chirality Axes. <i>Organic Letters</i> , 2018, 20, 3736-3740.	2.4	45
17	A data-driven strategy for predicting greenness scores, rationally comparing synthetic routes and benchmarking PMI outcomes for the synthesis of molecules in the pharmaceutical industry. <i>Green Chemistry</i> , 2017, 19, 127-139.	4.6	39
18	Palladium-Catalyzed Amidation and Amination of (Hetero)aryl Chlorides under Homogeneous Conditions Enabled by a Soluble DBU/NaTFA Dual-Base System. <i>Organic Process Research and Development</i> , 2019, 23, 1529-1537.	1.3	39

#	ARTICLE	IF	CITATIONS
19	A Process Chemistry Benchmark for sp^2 - sp^3 Cross Couplings. <i>Journal of Organic Chemistry</i> , 2021, 86, 10380-10396.	1.7	30
20	Advances in Base-Metal Catalysis: Development of a Screening Platform for Nickel-Catalyzed Borylations of Aryl (Pseudo)halides with $B_2(OH)_4$. <i>Organometallics</i> , 2019, 38, 157-166.	1.1	24
21	Development of a Kilogram-Scale Process for the Enantioselective Synthesis of 3-Isopropenyl-cyclohexan-1-one via Rh/DTBM-SEGPHOS-Catalyzed Asymmetric Hayashi Addition Enabled by 1,3-Diol Additives. <i>Organic Process Research and Development</i> , 2017, 21, 1659-1667.	1.3	23
22	Pd- and Ni-Based Systems for the Catalytic Borylation of Aryl (Pseudo)halides with $B_2(OH)_4$. <i>Journal of Organic Chemistry</i> , 2020, 85, 10334-10349.	1.7	23
23	Predicting Performance of Photochemical Transformations for Scaling Up in Different Platforms by Combining High-Throughput Experimentation with Computational Modeling. <i>Organic Process Research and Development</i> , 2020, 24, 2128-2138.	1.3	23
24	Cobalt-Catalyzed $C(sp^2)$ - $C(sp^3)$ Suzuki-Miyaura Cross Coupling. <i>Organic Letters</i> , 2021, 23, 625-630.	2.4	23
25	Synthetic studies on the icetexones: enantioselective formal syntheses of icetexone and epi-icetexone. <i>Tetrahedron</i> , 2013, 69, 5665-5676.	1.0	20
26	Enantioselective Synthesis of a β -Secretase Modulator via Vinylogous Dynamic Kinetic Resolution. <i>Journal of Organic Chemistry</i> , 2018, 83, 11133-11144.	1.7	19
27	Design and evolution of the BMS process greenness scorecard. <i>Green Chemistry</i> , 2017, 19, 5163-5171.	4.6	17
28	An Enantioselective Total Synthesis of (+)-Duocarmycin SA. <i>Journal of Organic Chemistry</i> , 2018, 83, 3928-3940.	1.7	17
29	Development of a Scalable Synthesis of BMS-978587 Featuring a Stereospecific Suzuki Coupling of a Cyclopropane Carboxylic Acid. <i>Organic Process Research and Development</i> , 2018, 22, 888-897.	1.3	16
30	Cobalt-Catalyzed $C(sp^2)$ - $C(sp^3)$ Suzuki-Miyaura Cross-Coupling Enabled by Well-Defined Precatalysts with L,X-Type Ligands. <i>ACS Catalysis</i> , 2022, 12, 1905-1918.	5.5	16
31	Biphenyl Acid Derivatives as APJ Receptor Agonists. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 10456-10465.	2.9	15
32	Development of a Commercial Process for Deucravacitinib, a Deuterated API for TYK2 Inhibition. <i>Organic Process Research and Development</i> , 2022, 26, 1202-1222.	1.3	14
33	Palladium-Catalyzed C-O Coupling of a Sterically Hindered Secondary Alcohol with an Aryl Bromide and Significant Purity Upgrade in the API Step. <i>Organic Process Research and Development</i> , 2018, 22, 585-594.	1.3	13
34	Advancing Base-Metal Catalysis: Development of a Screening Method for Nickel-Catalyzed Suzuki-Miyaura Reactions of Pharmaceutically Relevant Heterocycles. <i>Organic Process Research and Development</i> , 2022, 26, 785-794.	1.3	13
35	Development of Robust, Scaleable Catalytic Processes through Fundamental Understanding of Reaction Mechanisms. <i>Topics in Catalysis</i> , 2017, 60, 620-630.	1.3	11
36	Utilizing Native Directing Groups: Mechanistic Understanding of a Direct Arylation Leads to Formation of Tetracyclic Heterocycles via Tandem Intermolecular, Intramolecular C-H Activation. <i>Journal of Organic Chemistry</i> , 2019, 84, 7961-7970.	1.7	9

#	ARTICLE	IF	CITATIONS
37	Nickel-Catalyzed Suzuki–Miyaura Cross-Coupling Facilitated by a Weak Amine Base with Water as a Cosolvent. <i>Organometallics</i> , 2022, 41, 1269-1274.	1.1	9
38	Leveraging High-Throughput Experimentation to Drive Pharmaceutical Route Invention: A Four-Step Commercial Synthesis of Branebrutinib (BMS-986195). <i>Organic Process Research and Development</i> , 2022, 26, 1174-1183.	1.3	8
39	Increasing saturation: development of broadly applicable photocatalytic C _{sp2} –C _{sp3} cross-couplings of alkyl trifluoroborates and (hetero)aryl bromides for array synthesis. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 1666-1676.	1.9	7
40	Advancing Base Metal Catalysis through Data Science: Insight and Predictive Models for Ni-Catalyzed Borylation through Supervised Machine Learning. <i>Organometallics</i> , 2022, 41, 1847-1864.	1.1	7
41	Synthesis Optimization, Scale-Up, and Catalyst Screening Efforts toward the MGAT2 Clinical Candidate, BMS-963272. <i>Organic Process Research and Development</i> , 2022, 26, 1327-1335.	1.3	4
42	Mechanistic Studies of a Pd-Catalyzed Direct Arylation En Route to Beclabuvir: Dual Role of a Tetramethylammonium Cation and an Unusual Turnover-Limiting Step. <i>ACS Catalysis</i> , 2021, 11, 2460-2472.	5.5	2
43	A Radical Addition Approach to a Heptafluoroisopropyl Substituted Arene, Combined with a Highly Diastereoselective Annulation Reaction To Synthesize the Tricyclic Core of BMS-986251. <i>Organic Process Research and Development</i> , 2022, 26, 592-600.	1.3	2