

Jimmie D Weaver Iii

List of Publications by Year in descending order

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36
papers

3,163
citations

304743

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361022

35
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docs citations

41
times ranked

3268
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition Metal-Catalyzed Decarboxylative Allylation and Benzylolation Reactions. <i>Chemical Reviews</i> , 2011, 111, 1846-1913.	47.7	1,024
2	Advances in Photocatalysis: A Microreview of Visible Light Mediated Ruthenium and Iridium Catalyzed Organic Transformations. <i>Organic Process Research and Development</i> , 2016, 20, 1156-1163.	2.7	342
3	Facile Synthesis of <i>Z</i> -Alkenes via Uphill Catalysis. <i>Journal of the American Chemical Society</i> , 2014, 136, 5275-5278.	13.7	313
4	Photocatalytic Hydrodefluorination: Facile Access to Partially Fluorinated Aromatics. <i>Journal of the American Chemical Society</i> , 2014, 136, 3002-3005.	13.7	189
5	Facile synthesis and complete characterization of homoleptic and heteroleptic cyclometalated Iridium(III) complexes for photocatalysis. <i>Journal of Organometallic Chemistry</i> , 2015, 776, 51-59.	1.8	154
6	Dual C-F, C-H Functionalization via Photocatalysis: Access to Multifluorinated Biaryls. <i>Journal of the American Chemical Society</i> , 2016, 138, 2520-2523.	13.7	132
7	C-F activation and functionalization of perfluoro- and polyfluoroarenes. <i>Tetrahedron</i> , 2014, 70, 7413-7428.	1.9	124
8	Visible Light Photocatalysis for the Generation and Use of Reactive Azoyl and Polyfluoroaryl Intermediates. <i>Accounts of Chemical Research</i> , 2016, 49, 2273-2283.	15.6	106
9	Stereospecific Decarboxylative Allylation of Sulfones. <i>Journal of the American Chemical Society</i> , 2010, 132, 12179-12181.	13.7	74
10	Photoredox catalysis on unactivated substrates with strongly reducing iridium photosensitizers. <i>Chemical Science</i> , 2021, 12, 4069-4078.	7.4	68
11	Decarboxylative Allylation using Sulfones as Surrogates of Alkanes. <i>Organic Letters</i> , 2008, 10, 4657-4660.	4.6	60
12	Photoredox-Mediated C-H Functionalization and Coupling of Tertiary Aliphatic Amines with 2-Chloroazoles. <i>Organic Letters</i> , 2013, 15, 5390-5393.	4.6	60
13	Photocatalytic Generation of 2-Azoyl Radicals: Intermediates for the Azolylation of Arenes and Heteroarenes via C-H Functionalization. <i>Organic Letters</i> , 2016, 18, 3996-3999.	4.6	55
14	Light Harvesting for Rapid and Selective Reactions: Click Chemistry with Strain-Loadable Alkenes. <i>CheM</i> , 2018, 4, 124-137.	11.7	47
15	Prenyl Praxis: A Method for Direct Photocatalytic Defluoroprenylation. <i>Journal of the American Chemical Society</i> , 2018, 140, 16020-16025.	13.7	42
16	Reductive Alkylation of 2-Bromoazoles via Photoinduced Electron Transfer: A Versatile Strategy to C ² -C ³ Coupled Products. <i>Organic Letters</i> , 2015, 17, 3722-3725.	4.6	40
17	Hydrogen Bond Directed Photocatalytic Hydrodefluorination: Overcoming Electronic Control. <i>Journal of the American Chemical Society</i> , 2017, 139, 13092-13101.	13.7	38
18	Solubility of Iridium and Ruthenium Organometallic Photoredox Catalysts. <i>Organic Process Research and Development</i> , 2019, 23, 1087-1095.	2.7	32

#	ARTICLE	IF	CITATIONS
19	Prediction of ¹⁹ F NMR Chemical Shifts for Fluorinated Aromatic Compounds. <i>Journal of Organic Chemistry</i> , 2018, 83, 3220-3225.	3.2	31
20	Selective Perfluoro- and Polyfluoroarylation of Meldrum's Acid. <i>Journal of Organic Chemistry</i> , 2014, 79, 10466-10476.	3.2	28
21	Visible Light Mediated Generation of <i>trans</i> -Arylcyclohexenes and Their Utilization in the Synthesis of Cyclic Bridged Ethers. <i>Journal of the American Chemical Society</i> , 2018, 140, 9934-9941.	13.7	25
22	Polyfluoroarylation of oxazolones: access to non-natural fluorinated amino acids. <i>Chemical Communications</i> , 2017, 53, 4771-4774.	4.1	24
23	Alkyl Halides via Visible Light Mediated Dehalogenation. <i>Organic Letters</i> , 2019, 21, 9681-9687.	4.6	23
24	Selective and Scalable Perfluoroarylation of Nitroalkanes. <i>Journal of Organic Chemistry</i> , 2017, 82, 6801-6810.	3.2	22
25	Catalyst-Free Hydrodefluorination of Perfluoroarenes with NaBH ₄ . <i>Organic Letters</i> , 2021, 23, 1588-1593.	4.6	22
26	Hydrodefluorination of Perfluoroarenes Meets Visible Light Photocatalysis. <i>Synlett</i> , 2014, 25, 1946-1952.	1.8	19
27	S _N Ar catalysis enhanced by an aromatic donor-acceptor interaction; facile access to chlorinated polyfluoroarenes. <i>Chemical Communications</i> , 2017, 53, 7545-7548.	4.1	19
28	An elusive thermal [2 + 2] cycloaddition driven by visible light photocatalysis: tapping into strain to access C2-symmetric tricyclic rings. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1854-1861.	2.8	13
29	Formation of Non-Natural α,β -Disubstituted Amino Esters via Catalytic Michael Addition. <i>Organic Letters</i> , 2018, 20, 7239-7244.	4.6	7
30	A General Photocatalytic Route to Prenylation. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 1433-1438.	2.4	7
31	Defluorodearomatization: A Photocatalytic Birch-Like Reduction That Enables C-C Bond Formation and Provides Access to Unnatural Cannabinoids. <i>Journal of Organic Chemistry</i> , 2021, 86, 7928-7945.	3.2	7
32	Photocatalytic C-F Reduction and Functionalization. <i>Aldrichimica Acta</i> , 2016, 49, 45-54.	4.0	6
33	Coupling Photocatalysis and Substitution Chemistry to Expand and Normalize Redox-Active Halides. <i>Organic Letters</i> , 2021, 23, 2036-2041.	4.6	5
34	A Selective Single Step Amidation of Polyfluoroarenes. <i>Journal of Fluorine Chemistry</i> , 2021, 248, 109821.	1.7	3
35	Preparation of -Tris(2-Phenylpyridinato) Iridium(III). <i>Organic Syntheses</i> , 2018, 95, 29-45.	1.0	1
36	Expression of Concern for α -Hydrogen Bond Directed Photocatalytic Hydrodefluorination: Overcoming Electronic Control. <i>Journal of the American Chemical Society</i> , 2020, 142, 20912-20912.	13.7	0