

Daniel J Wherritt

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Î±-Amino Radical-Mediated Diverse Difunctionalization of Alkenes: Construction of C=C, C=N, and C=S Bonds. <i>ACS Catalysis</i> , 2020, 10, 13682-13687.	11.2	59
2	PlantMAT: A Metabolomics Tool for Predicting the Specialized Metabolic Potential of a System and for Large-Scale Metabolite Identifications. <i>Analytical Chemistry</i> , 2016, 88, 11373-11383.	6.5	55
3	Divergent Rhodium-Catalyzed Cyclization Reactions of Enoldiazoacetamides with Nitrosoarenes. <i>Journal of the American Chemical Society</i> , 2017, 139, 9839-9842.	13.7	47
4	Mechanistic Studies of the Lithium Enolate of 4-Fluoroacetophenone: Rapid-Injection NMR Study of Enolate Formation, Dynamics, and Aldol Reactivity. <i>Journal of the American Chemical Society</i> , 2011, 133, 16774-16777.	13.7	39
5	Cleavage of a carbon-fluorine bond by an engineered cysteine dioxygenase. <i>Nature Chemical Biology</i> , 2018, 14, 853-860.	8.0	37
6	Ectopic Defense Gene Expression Is Associated with Growth Defects in <i>Medicago truncatula</i> Lignin Pathway Mutants. <i>Plant Physiology</i> , 2019, 181, 63-84.	4.8	27
7	Cofactor Biogenesis in Cysteamine Dioxygenase: C-F Bond Cleavage with Genetically Incorporated Unnatural Tyrosine. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8149-8153.	13.8	26
8	Brønsted Acid Catalyzed Friedel-Crafts Type Coupling and Dedinitrogenation Reactions of Vinyldiazo Compounds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13613-13617.	13.8	26
9	Stepwise O-Atom Transfer in Heme-Based Tryptophan Dioxygenase: Role of Substrate Ammonium in Epoxide Ring Opening. <i>Journal of the American Chemical Society</i> , 2018, 140, 4372-4379.	13.7	24
10	Reassignment of the human aldehyde dehydrogenase ALDH8A1 (ALDH12) to the kynurenine pathway in tryptophan catabolism. <i>Journal of Biological Chemistry</i> , 2018, 293, 9594-9603.	3.4	24
11	Solid-Phase Synthesis of Alkanethiols for the Preparation of Self-Assembled Monolayers. <i>Langmuir</i> , 2007, 23, 11164-11167.	3.5	20
12	Biocatalytic Carbon-Hydrogen and Carbon-Fluorine Bond Cleavage through Hydroxylation Promoted by a Histidyl-Ligated Heme Enzyme. <i>ACS Catalysis</i> , 2019, 9, 4764-4776.	11.2	20
13	Pathway-specific metabolome analysis with ¹⁸ O ₂ -labeled <i>Medicago truncatula</i> via a mass spectrometry-based approach. <i>Metabolomics</i> , 2018, 14, 71.	3.0	19
14	Catalyst-Free Formation of Nitrile Oxides and Their Further Transformations to Diverse Heterocycles. <i>Organic Letters</i> , 2021, 23, 925-929.	4.6	17
15	<i>Medicago truncatula</i> Oleanolic-Derived Saponins Are Correlated with Caterpillar Deterrence. <i>Journal of Chemical Ecology</i> , 2017, 43, 712-724.	1.8	16
16	A Rapid Injection NMR Study of the Reaction of Organolithium Reagents with Esters, Amides, and Ketones. <i>Organic Letters</i> , 2015, 17, 2310-2313.	4.6	15
17	Malonylation of Glucosylated N-Lauroylethanolamine A NEW PATHWAY THAT DETERMINES N-ACYLETHANOLAMINE METABOLIC FATE IN PLANTS. <i>Journal of Biological Chemistry</i> , 2016, 291, 27112-27121.	3.4	12
18	Metabolomics of Two Pecan Varieties Provides Insights into Scab Resistance. <i>Metabolites</i> , 2018, 8, 56.	2.9	8

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19	Formal [4 + 4]-, [4 + 3]-, and [4 + 2]-cycloaddition reactions of donor-acceptor cyclobutenes, cyclopropenes and siloxyalkynes induced by Brønsted acid catalysis. <i>Chemical Science</i> , 2021, 12, 4819-4824.	7.4	8
20	Highly selective acylation of polyamines and aminoglycosides by 5-acyl-5-phenyl-1,5-dihydro-4H-pyrazol-4-ones. <i>Chemical Science</i> , 2017, 8, 7152-7159.	7.4	7
21	Chemical synthesis of 7 β -hydroxypregnenolone, a neuroactive steroid that stimulates locomotor activity. <i>Steroids</i> , 2017, 128, 50-57.	1.8	4
22	Brønsted Acid Catalyzed Friedel-Crafts Type Coupling and Dedinitrogenation Reactions of Vinyl diazo Compounds. <i>Angewandte Chemie</i> , 2020, 132, 13715-13719.	2.0	4
23	Evidence for the Chemical Mechanism of RibB (3,4-Dihydroxy-2-butanone 4-phosphate Synthase) of Riboflavin Biosynthesis. <i>Journal of the American Chemical Society</i> , 2022, 144, 12769-12780.	13.7	4
24	Cofactor Biogenesis in Cysteamine Dioxygenase: C-F Bond Cleavage with Genetically Incorporated Unnatural Tyrosine. <i>Angewandte Chemie</i> , 2018, 130, 8281-8285.	2.0	1