

Matthew T Richers

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

644
citations

687363

13
h-index

794594

19
g-index

23
all docs

23
docs citations

23
times ranked

715
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox-Neutral $\hat{\pm}$ -Oxygenation of Amines: Reaction Development and Elucidation of the Mechanism. <i>Journal of the American Chemical Society</i> , 2014, 136, 6123-6135.	13.7	128
2	Metal-Free $\hat{\pm}$ -Amination of Secondary Amines: Computational and Experimental Evidence for Azaquinone Methide and Azomethine Ylide Intermediates. <i>Journal of Organic Chemistry</i> , 2013, 78, 4132-4144.	3.2	80
3	The Decarboxylative Strecker Reaction. <i>Organic Letters</i> , 2011, 13, 6584-6587.	4.6	69
4	Redox-Neutral $\hat{\pm}$ -Sulfonylation of Secondary Amines: Ring-Fused $\hat{\pm}$ -Acetals. <i>Organic Letters</i> , 2014, 16, 3556-3559.	4.6	63
5	Facile Access to Ring-Fused Aminals via Direct $\hat{\pm}$ -Amination of Secondary Amines with <i>o</i> -Aminobenzaldehydes: Synthesis of Vasicine, Deoxyvasicine, Deoxyvasicinone, Mackinazolinone, and Ruteacarpine. <i>Synthesis</i> , 2013, 45, 1730-1748.	2.3	48
6	Selective copper(II) acetate and potassium iodide catalyzed oxidation of aminals to dihydroquinazoline and quinazolinone alkaloids. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1194-1201.	2.2	40
7	C-H functionalization of cyclic amines: redox-annulations with $\hat{\pm}$, $\hat{\pm}^2$ -unsaturated carbonyl compounds. <i>Chemical Communications</i> , 2015, 51, 10648-10651.	4.1	40
8	Cloaked Caged Compounds: Chemical Probes for Two-Photon Optoneurobiology. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 193-197.	13.8	40
9	Development of Anionically Decorated Caged Neurotransmitters: In Vitro Comparison of 7-Nitroindolyl- and 2-(<i>p</i> -Phenyl- <i>o</i> -nitrophenyl)propyl-Based Photochemical Probes. <i>ChemBioChem</i> , 2016, 17, 953-961.	2.6	23
10	Thermodynamically Stable, Photoreversible Pharmacology in Neurons with One- and Two-Photon Excitation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12554-12557.	13.8	17
11	Dendrimer Conjugation Enables Multiphoton Chemical Neurophysiology Studies with an Extended $\hat{\pm}$ -Electron Caging Chromophore. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12086-12090.	13.8	15
12	Optical probing of acetylcholine receptors on neurons in the medial habenula with a novel caged nicotine drug analogue. <i>Journal of Physiology</i> , 2018, 596, 5307-5318.	2.9	14
13	Facile Access to Ring-Fused Aminals via Direct $\hat{\pm}$ -Amination of Secondary Amines with <i>o</i> -Aminobenzaldehydes. Synthesis of Vasicine, Deoxyvasicine, Deoxyvasicinone, Mackinazolinone and Ruteacarpine. <i>Synthesis</i> , 2013, 45, 1430-1748.	2.3	14
14	Two-color, one-photon uncaging of glutamate and GABA. <i>PLoS ONE</i> , 2017, 12, e0187732.	2.5	13
15	Coumarin-diene photoswitches for rapid and efficient isomerization with visible light. <i>Chemical Communications</i> , 2018, 54, 4983-4986.	4.1	13
16	Cloaked Caged Compounds: Chemical Probes for Two-Photon Optoneurobiology. <i>Angewandte Chemie</i> , 2017, 129, 199-203.	2.0	11
17	Thermodynamically Stable, Photoreversible Pharmacology in Neurons with One- and Two-Photon Excitation. <i>Angewandte Chemie</i> , 2018, 130, 12734-12737.	2.0	6
18	Chemical tuning of photoswitchable azobenzenes: a photopharmacological case study using nicotinic transmission. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 2812-2821.	2.2	6

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19	Dendrimer Conjugation Enables Multiphoton Chemical Neurophysiology Studies with an Extended "Electron Caging Chromophore. <i>Angewandte Chemie</i> , 2019, 131, 12214-12218.	2.0	4