

Richard S Givens

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/718007/publications.pdf>

Version: 2024-02-01

50
papers

2,978
citations

331670

21
h-index

289244

40
g-index

52
all docs

52
docs citations

52
times ranked

3001
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In Situ</i> Electrochemical Monitoring of Caged Compound Photochemistry: An Internal Actinometer for Substrate Release. <i>Analytical Chemistry</i> , 2021, 93, 2776-2784.	6.5	4
2	The Discovery, Development and Demonstration of Three Caged Compounds. <i>Photochemistry and Photobiology</i> , 2021, , .	2.5	5
3	Competing pathways for photoremovable protecting groups: the effects of solvent, oxygen and encapsulation. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 1364-1372.	2.9	6
4	Visible photorelease of liquid biopsy markers following microfluidic affinity-enrichment. <i>Chemical Communications</i> , 2020, 56, 4098-4101.	4.1	12
5	Supramolecular photochemistry of encapsulated caged ortho-nitrobenzyl triggers. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2411-2420.	2.9	2
6	Melding Caged Compounds with Supramolecular Containers: Photogeneration and Miscreant Behavior of the Coumarylmethyl Carbocation. <i>Organic Letters</i> , 2017, 19, 3588-3591.	4.6	18
7	Photorelease of Incarcerated Caged Acids from Hydrophobic Coumaryl Esters into Aqueous Solution. <i>Organic Letters</i> , 2016, 18, 5480-5483.	4.6	16
8	Excitation by Axon Terminal GABA Spillover in a Sound Localization Circuit. <i>Journal of Neuroscience</i> , 2016, 36, 911-925.	3.6	21
9	Two-Photon Activation of <i>p</i> -Hydroxyphenacyl Phototriggers: Toward Spatially Controlled Release of Diethyl Phosphate and ATP. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3178-3186.	2.6	21
10	Photorelease of Incarcerated Guests in Aqueous Solution with Phenacyl Esters as the Trigger. <i>Organic Letters</i> , 2015, 17, 1276-1279.	4.6	22
11	4-Hydroxyphenacyl Ammonium Salts: A Photoremovable Protecting Group for Amines in Aqueous Solutions. <i>Journal of Organic Chemistry</i> , 2015, 80, 9713-9721.	3.2	15
12	Caged Fluoride: Photochemistry and Applications of 4-Hydroxyphenacyl Fluoride. <i>Organic Letters</i> , 2015, 17, 4814-4817.	4.6	11
13	Photorelease of phosphates: Mild methods for protecting phosphate derivatives. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2038-2054.	2.2	3
14	The Pivotal Role of Oxyallyl Diradicals in Photo-Favorskii Rearrangements: Transient Spectroscopic and Computational Studies. <i>Journal of the American Chemical Society</i> , 2013, 135, 15209-15215.	13.7	22
15	A Photo-Favorskii Ring Contraction Reaction: The Effect of Ring Size. <i>Journal of Organic Chemistry</i> , 2013, 78, 1718-1729.	3.2	22
16	Photoremovable Protecting Groups in Chemistry and Biology: Reaction Mechanisms and Efficacy. <i>Chemical Reviews</i> , 2013, 113, 119-191.	47.7	1,386
17	Stereochemically Probing the Photo-Favorskii Rearrangement: A Mechanistic Investigation. <i>Journal of Organic Chemistry</i> , 2013, 78, 1709-1717.	3.2	16
18	An Optical Fiber-Based Uncaging System. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.top072900.	0.3	8

#	ARTICLE	IF	CITATIONS
19	Applications of p-hydroxyphenacyl (pHP) and coumarin-4-ylmethyl photoremovable protecting groups. Photochemical and Photobiological Sciences, 2012, 11, 472-488.	2.9	134
20	p-Hydroxyphenacyl photoremovable protecting groups – Robust photochemistry despite substituent diversity. Canadian Journal of Chemistry, 2011, 89, 364-384.	1.1	34
21	Collagen Cross Linking Agents: Design and Development of a Multifunctional Cross Linker. Photochemistry and Photobiology, 2008, 84, 185-192.	2.5	9
22	The Photo-Favorskii Reaction of p-Hydroxyphenacyl Compounds Is Initiated by Water-Assisted, Adiabatic Extrusion of a Triplet Biradical. Journal of the American Chemical Society, 2008, 130, 3307-3309.	13.7	70
23	Dynamics of Switch-Binding by a Linear Ligand That Transforms to a Macrocycle upon Chelation to a Metal Ion: Synthesis, Kinetics, and Equilibria. ACS Symposium Series, 2006, , 186-222.	0.5	0
24	Caged Compounds and Solid-Phase Synthesis. , 2005, , 131-154.		3
25	Control of Cellular Activity. , 2005, , 155-251.		9
26	Photoregulation of Proteins. , 2005, , 253-340.		17
27	Photoremovable Protecting Groups in DNA Synthesis and Microarray Fabrication. , 2005, , 341-368.		12
28	Multiphoton Phototriggers for Exploring Cell Physiology. , 2005, , 435-459.		15
29	Analytical Time-Resolved Studies Using Photochemical Triggering Methods. , 2005, , 369-434.		6
30	New Challenges. , 2005, , 461-538.		2
31	Astrocytic Connectivity in the Hippocampus. Neuron Glia Biology, 2004, 1, 3-11.	1.6	81
32	A Photoactivated Diazopyruvoyl Cross-linking Agent for Bonding Tissue Containing Type-I Collagen. Photochemistry and Photobiology, 2003, 78, 23-29.	2.5	9
33	A Photoactivated Diazopyruvoyl Cross-linking Agent for Bonding Tissue Containing Type-I Collagen. Photochemistry and Photobiology, 2003, 78, 23.	2.5	8
34	Photoactivated Coumaryl-diazopyruvate Fluorescent Label for Amine Functional Groups of Tissues Containing Type-I Collagen. Photochemistry and Photobiology, 2002, 76, 473-479.	2.5	1
35	New Phototriggers: p-Hydroxyphenacyl as a C-Terminal Photoremovable Protecting Group for Oligopeptides. Journal of the American Chemical Society, 2000, 122, 2687-2697.	13.7	115
36	New Phototriggers: Extending the p-Hydroxyphenacyl Absorption Range. Organic Letters, 2000, 2, 1545-1547.	4.6	82

#	ARTICLE	IF	CITATIONS
37	p-Hydroxyphenacyl Phototriggers: The Reactive Excited State of Phosphate Photorelease. Journal of the American Chemical Society, 2000, 122, 9346-9347.	13.7	76
38	Photographic detection of fluorescent-labelled oligodeoxynucleotide in the blotting format by peroxyoxalate chemiluminescence. , 1998, 13, 101-105.		3
39	[1] New photoprotecting groups: Desyl and p-hydroxyphenacyl phosphate and carboxylate esters. Methods in Enzymology, 1998, 291, 1-29.	1.0	64
40	New Photoactivated Protecting Groups. 7.p-Hydroxyphenacyl: A Phototrigger for Excitatory Amino Acids and Peptides1. Journal of the American Chemical Society, 1997, 119, 8369-8370.	13.7	117
41	New Photoactivated Protecting Groups. 6. p-Hydroxyphenacyl: A Phototrigger for Chemical and Biochemical Probes1,2. Journal of the American Chemical Society, 1997, 119, 2453-2463.	13.7	200
42	A Model for Mechanism of Peroxyoxalate Chemiluminescence as Applied to Detection in Liquid Chromatography. Critical Reviews in Analytical Chemistry, 1996, 26, 1-27.	3.5	31
43	Photochemistry of phosphate esters. Chemical Reviews, 1993, 93, 55-66.	47.7	139
44	Oxalate/hydrogen peroxide chemiluminescence reaction. A19F NMR probe of the reaction mechanism. Biomedical Chromatography, 1990, 4, 96-99.	1.7	28
45	Photochemistry of phosphate esters: an efficient method for the generation of electrophiles. Journal of the American Chemical Society, 1990, 112, 6016-6021.	13.7	39
46	High-performance liquid chromatography/chemiluminescence determination of biological thiols with n-[4-(6-dimethylamino-2-benzofuranyl)phenyl]maleimide. Biomedical Chromatography, 1989, 3, 39-42.	1.7	23
47	Peroxyoxalate Chemiluminescence Reaction. ACS Symposium Series, 1989, , 127-154.	0.5	5
48	Photodecarboxylation. A labeling study. Mechanistic studies in photochemistry. 15. Journal of the American Chemical Society, 1977, 99, 1896-1903.	13.7	22
49	Photodecarboxylation. Labeling study. Mechanistic studies in photochemistry. XIV. Journal of the American Chemical Society, 1975, 97, 5617-5619.	13.7	11
50	The photochemistry of organic acids, esters, anhydrides, lactones and imides. , 0, , 641-753.		3