

Richard S Givens

List of Publications by Year in descending order

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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	Photoremovable Protecting Groups in Chemistry and Biology: Reaction Mechanisms and Efficacy. <i>Chemical Reviews</i> , 2013, 113, 119-191.	47.7	1,386
2	New Photoactivated Protecting Groups. 6. p-Hydroxyphenacyl: A Phototrigger for Chemical and Biochemical Probes. <i>Journal of the American Chemical Society</i> , 1997, 119, 2453-2463.	13.7	200
3	Photochemistry of phosphate esters. <i>Chemical Reviews</i> , 1993, 93, 55-66.	47.7	139
4	Applications of p-hydroxyphenacyl (pHP) and coumarin-4-ylmethyl photoremovable protecting groups. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 472-488.	2.9	134
5	New Photoactivated Protecting Groups. 7. p-Hydroxyphenacyl: A Phototrigger for Excitatory Amino Acids and Peptides. <i>Journal of the American Chemical Society</i> , 1997, 119, 8369-8370.	13.7	117
6	New Phototriggers. 9. p-Hydroxyphenacyl as a C-Terminal Photoremovable Protecting Group for Oligopeptides. <i>Journal of the American Chemical Society</i> , 2000, 122, 2687-2697.	13.7	115
7	New Phototriggers: Extending the p-Hydroxyphenacyl Absorption Range. <i>Organic Letters</i> , 2000, 2, 1545-1547.	4.6	82
8	Astrocytic Connectivity in the Hippocampus. <i>Neuron Glia Biology</i> , 2004, 1, 3-11.	1.6	81
9	p-Hydroxyphenacyl Phototriggers: The Reactive Excited State of Phosphate Photorelease. <i>Journal of the American Chemical Society</i> , 2000, 122, 9346-9347.	13.7	76
10	The Photo-Favorskii Reaction of p-Hydroxyphenacyl Compounds Is Initiated by Water-Assisted, Adiabatic Extrusion of a Triplet Biradical. <i>Journal of the American Chemical Society</i> , 2008, 130, 3307-3309.	13.7	70
11	[1] New photoprotecting groups: Desyl and p-hydroxyphenacyl phosphate and carboxylate esters. <i>Methods in Enzymology</i> , 1998, 291, 1-29.	1.0	64
12	Photochemistry of phosphate esters: an efficient method for the generation of electrophiles. <i>Journal of the American Chemical Society</i> , 1990, 112, 6016-6021.	13.7	39
13	p-Hydroxyphenacyl photoremovable protecting groups: Robust photochemistry despite substituent diversity. <i>Canadian Journal of Chemistry</i> , 2011, 89, 364-384.	1.1	34
14	A Model for Mechanism of Peroxyoxalate Chemiluminescence as Applied to Detection in Liquid Chromatography. <i>Critical Reviews in Analytical Chemistry</i> , 1996, 26, 1-27.	3.5	31
15	Oxalate/hydrogen peroxide chemiluminescence reaction. A ¹⁹ F NMR probe of the reaction mechanism. <i>Biomedical Chromatography</i> , 1990, 4, 96-99.	1.7	28
16	High-performance liquid chromatography/chemiluminescence determination of biological thiols with [4-(6-dimethylamino-2-benzofuranyl)phenyl]maleimide. <i>Biomedical Chromatography</i> , 1989, 3, 39-42.	1.7	23
17	Photodecarboxylation. A labeling study. Mechanistic studies in photochemistry. <i>Journal of the American Chemical Society</i> , 1977, 99, 1896-1903.	13.7	22
18	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

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19	A Photo-Favorskii Ring Contraction Reaction: The Effect of Ring Size. <i>Journal of Organic Chemistry</i> , 2013, 78, 1718-1729.	3.2	22
20	Photorelease of Incarcerated Guests in Aqueous Solution with Phenacyl Esters as the Trigger. <i>Organic Letters</i> , 2015, 17, 1276-1279.	4.6	22
21	Excitation by Axon Terminal GABA Spillover in a Sound Localization Circuit. <i>Journal of Neuroscience</i> , 2016, 36, 911-925.	3.6	21
22	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
23	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
24	Photoregulation of Proteins. , 2005, , 253-340.		17
25	Stereochemically Probing the Photo-Favorskii Rearrangement: A Mechanistic Investigation. <i>Journal of Organic Chemistry</i> , 2013, 78, 1709-1717.	3.2	16
26	Photorelease of Incarcerated Caged Acids from Hydrophobic Coumaryl Esters into Aqueous Solution. <i>Organic Letters</i> , 2016, 18, 5480-5483.	4.6	16
27	Multiphoton Phototriggers for Exploring Cell Physiology. , 2005, , 435-459.		15
28	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
29	Photoremovable Protecting Groups in DNA Synthesis and Microarray Fabrication. , 2005, , 341-368.		12
30	Visible photorelease of liquid biopsy markers following microfluidic affinity-enrichment. <i>Chemical Communications</i> , 2020, 56, 4098-4101.	4.1	12
31	Photodecarboxylation. Labeling study. Mechanistic studies in photochemistry. XIV. <i>Journal of the American Chemical Society</i> , 1975, 97, 5617-5619.	13.7	11
32	Caged Fluoride: Photochemistry and Applications of 4-Hydroxyphenacyl Fluoride. <i>Organic Letters</i> , 2015, 17, 4814-4817.	4.6	11
33	A Photoactivated Diazopyruvoyl Cross-linking Agent for Bonding Tissue Containing Type-I Collagen. <i>Photochemistry and Photobiology</i> , 2003, 78, 23-29.	2.5	9
34	Control of Cellular Activity. , 2005, , 155-251.		9
35	Collagen Cross Linking Agents: Design and Development of a Multifunctional Cross Linker. <i>Photochemistry and Photobiology</i> , 2008, 84, 185-192.	2.5	9
36	An Optical Fiber-Based Uncaging System. <i>Cold Spring Harbor Protocols</i> , 2013, 2013, pdb.top072900.	0.3	8

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37	A Photoactivated Diazopyruvoyl Cross-linking Agent for Bonding Tissue Containing Type-I Collagen. <i>Photochemistry and Photobiology</i> , 2003, 78, 23.	2.5	8
38	Analytical Time-Resolved Studies Using Photochemical Triggering Methods. , 2005, , 369-434.		6
39	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
40	Peroxyoxalate Chemiluminescence Reaction. <i>ACS Symposium Series</i> , 1989, , 127-154.	0.5	5
41	The Discovery, Development and Demonstration of Three Caged Compounds. <i>Photochemistry and Photobiology</i> , 2021, , .	2.5	5
42	<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
43	Photographic detection of fluorescent-labelled oligodeoxynucleotide in the blotting format by peroxyoxalate chemiluminescence. , 1998, 13, 101-105.		3
44	Caged Compounds and Solid-Phase Synthesis. , 2005, , 131-154.		3
45	Photorelease of phosphates: Mild methods for protecting phosphate derivatives. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2038-2054.	2.2	3
46	The photochemistry of organic acids, esters, anhydrides, lactones and imides. , 0, , 641-753.		3
47	New Challenges. , 2005, , 461-538.		2
48	Supramolecular photochemistry of encapsulated caged ortho-nitrobenzyl triggers. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2411-2420.	2.9	2
49	Photoactivated Coumaryl-diazopyruvate Fluorescent Label for Amine Functional Groups of Tissues Containing Type-I Collagen. <i>Photochemistry and Photobiology</i> , 2002, 76, 473-479.	2.5	1
50	Dynamics of Switch-Binding by a Linear Ligand That Transforms to a Macrocycle upon Chelation to a Metal Ion: Synthesis, Kinetics, and Equilibria. <i>ACS Symposium Series</i> , 2006, , 186-222.	0.5	0