Stephen C Miller

List of Publications by Year
in descending order

35 papers	1,595 citations	361413 20 h-index	395702 33 g-index
37 all docs	37 docs citations	37 times ranked	1626 citing authors

#	Article	IF	Citations
1	Site-Selective N-Methylation of Peptides on Solid Support. Journal of the American Chemical Society, 1997, 119, 2301-2302.	13.7	228
2	A synthetic luciferin improves bioluminescence imaging in live mice. Nature Methods, 2014, 11, 393-395.	19.0	151
3	Robust Light Emission from Cyclic Alkylaminoluciferin Substrates for Firefly Luciferase. Journal of the American Chemical Society, 2010, 132, 13586-13587.	13.7	128
4	Beyond D-luciferin: expanding the scope of bioluminescence imaging in vivo. Current Opinion in Chemical Biology, 2014, 21, 112-120.	6.1	122
5	Aminoluciferins Extend Firefly Luciferase Bioluminescence into the Near-Infrared and Can Be Preferred Substrates over <scp>d</scp>-Luciferin. Journal of the American Chemical Society, 2014, 136, 13277-13282.	13.7	116
6	oNBSâˆ'SPPS:â€‰ A New Method for Solid-Phase Peptide Synthesis. Journal of the American Chemical Society, 1998, 120, 2690-2691.	13.7	86
7	Luciferin Amides Enable <i>in Vivo</i> Bioluminescence Detection of Endogenous Fatty Acid Amide Hydrolase Activity. Journal of the American Chemical Society, 2015, 137, 8684-8687.	13.7	74
8	Identification of Mutant Firefly Luciferases that Efficiently Utilize Aminoluciferins. Chemistry and Biology, 2011, 18, 1649-1657.	6.0	72
9	Profiling Sulfonate Ester Stability: Identification of Complementary Protecting Groups for Sulfonates. Journal of Organic Chemistry, 2010, 75, 4632-4635.	3.2	66
10	A Biocompatible <i>in Vivo</i> Ligation Reaction and Its Application for Noninvasive Bioluminescent Imaging of Protease Activity in Living Mice. ACS Chemical Biology, 2013, 8, 987-999.	3.4	51
11	Firefly Luciferase Mutants Allow Substrateâ€Selective Bioluminescence Imaging in the Mouse Brain. Angewandte Chemie - International Edition, 2016, 55, 4943-4946.	13.8	49
12	Coupling between <i>trans/cis</i> proline isomerization and protein stability in staphylococcal nuclease. Protein Science, 1996, 5, 1907-1916.	7.6	41
13	Synthesis of Near-IR Fluorescent Oxazine Dyes with Esterase-Labile Sulfonate Esters. Organic Letters, 2011, 13, 6196-6199.	4.6	41
14	Rapid Access to a Broad Range of 6â€²-Substituted Firefly Luciferin Analogues Reveals Surprising Emitters and Inhibitors. Organic Letters, 2017, 19, 5836-5839.	4.6	40
15	Labeling Tetracysteineâ€Tagged Proteins with a SplAsH of Color: A Modular Approach to Bisâ€Arsenical Fluorophores. ChemBioChem, 2007, 8, 1642-1645.	2.6	37
16	Latent luciferase activity in the fruit fly revealed by a synthetic luciferin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4443-4448.	7.1	35
17	Sulfonamides Are an Overlooked Class of Electron Donors in Luminogenic Luciferins and Fluorescent Dyes. Organic Letters, 2019, 21, 1641-1644.	4.6	32
18	A Trifluoroacetic Acid-labile Sulfonate Protecting Group and Its Use in the Synthesis of a Near-IR Fluorophore. Journal of Organic Chemistry, 2013, 78, 711-716.	3.2	25

#	ARTICLE	IF	CITATIONS
19	Design and application of esterase-labile sulfonate protecting groups. Chemical Communications, 2011, 47, 2038.	4.1	24
20	Lessons Learned from Luminous Luciferins and Latent Luciferases. ACS Chemical Biology, 2018, 13, 1734-1740.	3.4	23
21	Enzymatic promiscuity and the evolution of bioluminescence. FEBS Journal, 2020, 287, 1369-1380.	4.7	21
22	Luciferins Behave Like Drugs. ACS Chemical Neuroscience, 2015, 6, 1273-1275.	3.5	20
23	Luciferase Activity of Insect Fatty Acyl-CoA Synthetases with Synthetic Luciferins. ACS Chemical Biology, 2017, 12, 2946-2951.	3.4	17
24	Silicon Substitution in Oxazine Dyes Yields Near-Infrared Azasiline Fluorophores That Absorb and Emit beyond 700 nm. Organic Letters, 2018, 20, 4482-4485.	4.6	17
25	Palladium-Mediated Synthesis of a Near-Infrared Fluorescent K⁺ Sensor. Journal of Organic Chemistry, 2017, 82, 8199-8205.	3.2	14
26	Reductively-labile sulfonate ester protecting groups that are rapidly cleaved by physiological glutathione. Organic and Biomolecular Chemistry, 2017, 15, 1346-1349.	2.8	13
27	Silicon functionalization expands the repertoire of Si-rhodamine fluorescent probes. Chemical Science, 2022, 13, 6081-6088.	7.4	11
28	Bioluminescence imaging in mice with synthetic luciferin analogues. Methods in Enzymology, 2020, 640, 165-183.	1.0	8
29	Leveraging a Smallâ€Molecule Modification to Enable the Photoactivation of Rho GTPases. ChemBioChem, 2009, 10, 2855-2857.	2.6	7
30	Computational investigation into the fluorescence of luciferin analogues. Journal of Computational Chemistry, 2019, 40, 527-531.	3.3	7
31	Methods for Detecting PER2:LUCIFERASE Bioluminescence Rhythms in Freely Moving Mice. Journal of Biological Rhythms, 2022, 37, 78-93.	2.6	7
32	Synthesis and Phenotypic Screening of a Guanine-Mimetic Library. ChemBioChem, 2004, 5, 1010-1012.	2.6	6
33	Firefly Luciferase Mutants Allow Substrateâ€Selective Bioluminescence Imaging in the Mouse Brain. Angewandte Chemie, 2016, 128, 5027-5030.	2.0	5
34	Structural Comparison of Firefly Luciferase with the Latent Luciferase CG6178. FASEB Journal, 2015, 29, 573.46.	0.5	0
35	Latent Luciferase Activity in Fatty Acylâ€CoA Synthetases Revealed by Synthetic Luciferins. FASEB Journal, 2015, 29, 573.47.	0.5	0