Jennifer A Prescher

List of Publications by Year
in descending order

63	11,806	116194	129628
papers	citations	36 h-index	63 g-index

68	68	68	12136
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluorogenic Cyclopropenones for Multicomponent, Real-Time Imaging. Journal of the American Chemical Society, 2022, 144, 7871-7880.	6.6	15
2	Multiplexed bioluminescence microscopy via phasor analysis. Nature Methods, 2022, 19, 893-898.	9.0	22
3	Coumarin luciferins and mutant luciferases for robust multi-component bioluminescence imaging. Chemical Science, 2021, 12, 11684-11691.	3.7	13
4	Orthogonal Bioluminescent Probes from Disubstituted Luciferins. Biochemistry, 2021, 60, 563-572.	1.2	8
5	Rapid Multicomponent Bioluminescence Imaging via Substrate Unmixing. ACS Chemical Biology, 2021, 16, 682-690.	1.6	11
6	Bioorthogonal chemistry. Nature Reviews Methods Primers, 2021, 1, .	11.8	201
7	Bioorthogonal Reactions of Triarylphosphines and Related Analogues. Chemical Reviews, 2021, 121, 6802-6849.	23.0	42
8	Caged Cumate Enables ProximityâEĐependent Control Over Gene Expression. ChemBioChem, 2021, 22, 2440-2448.	1.3	1
9	Multicomponent Bioluminescence Imaging with Naphthylamino Luciferins. ChemBioChem, 2021, 22, 2650-2654.	1.3	5
10	Transcriptome analysis of heterogeneity in mouse model of metastatic breast cancer. Breast Cancer Research, 2021, 23, 93.	2.2	12
11	A Bioluminescent Sensor for Rapid Detection of PPEP-1, a Clostridioides difficile Biomarker. Sensors, 2021, 21, 7485.	2.1	5
12	Developing bioorthogonal probes to span a spectrum of reactivities. Nature Reviews Chemistry, 2020, 4, 476-489.	13.8	119
13	Multicomponent Bioluminescence Imaging with a Ï€-Extended Luciferin. Journal of the American Chemical Society, 2020, 142, 14080-14089.	6.6	39
14	Seeing (and Using) the Light: Recent Developments in Bioluminescence Technology. Cell Chemical Biology, 2020, 27, 904-920.	2.5	63
15	Chemically triggered crosslinking with bioorthogonal cyclopropenones. Chemical Communications, 2020, 56, 10883-10886.	2.2	10
16	Directed Evolution of a Selective and Sensitive Serotonin Sensor via Machine Learning. Cell, 2020, 183, 1986-2002.e26.	13.5	104
17	Isomeric triazines exhibit unique profiles of bioorthogonal reactivity. Chemical Science, 2019, 10, 9109-9114.	3.7	33
18	Building Biological Flashlights: Orthogonal Luciferases and Luciferins for in Vivo Imaging. Accounts of Chemical Research, 2019, 52, 3039-3050.	7.6	33

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19	Butenolide Synthesis from Functionalized Cyclopropenones. Organic Letters, 2019, 21, 8695-8699.	2.4	23
20	Cyclopropeniminium Ions Exhibit Unique Reactivity Profiles with Bioorthogonal Phosphines. Journal of Organic Chemistry, 2019, 84, 7443-7448.	1.7	11
21	Pyridone Luciferins and Mutant Luciferases for Bioluminescence Imaging. ChemBioChem, 2018, 19, 470-477.	1.3	24
22	Constructing New Bioorthogonal Reagents and Reactions. Accounts of Chemical Research, 2018, 51, 1073-1081.	7.6	135
23	Gaussia princeps luciferase: a bioluminescent substrate for oxidative protein folding. Protein Science, 2018, 27, 1509-1517.	3.1	9
24	Statistical Coupling Analysis-Guided Library Design for the Discovery of Mutant Luciferases. Biochemistry, 2018, 57, 663-671.	1.2	11
25	A Cyclopropenethione-Phosphine Ligation for Rapid Biomolecule Labeling. Organic Letters, 2018, 20, 5614-5617.	2.4	15
26	Advances in bioluminescence imaging: new probes from old recipes. Current Opinion in Chemical Biology, 2018, 45, 148-156.	2.8	89
27	Orthogonal Luciferaseâ€“Luciferin Pairs for Bioluminescence Imaging. Journal of the American Chemical Society, 2017, 139, 2351-2358.	6.6	89
28	Cyclopropenones for Metabolic Targeting and Sequential Bioorthogonal Labeling. Journal of the American Chemical Society, 2017, 139, 7370-7375.	6.6	58
29	Unraveling cell-to-cell signaling networks with chemical biology. Nature Chemical Biology, 2017, 13, 564-568.	3.9	26
30	Brominated Luciferins Are Versatile Bioluminescent Probes. ChemBioChem, 2017, 18, 96-100.	1.3	35
31	Bioluminescent Probes for Imaging Biology beyond the Culture Dish. Biochemistry, 2017, 56, 5178-5184.	1.2	53
32	Parallel Screening for Rapid Identification of Orthogonal Bioluminescent Tools. ACS Central Science, 2017, 3, 1254-1261.	5.3	39
33	Design and Synthesis of an Alkynyl Luciferin Analogue for Bioluminescence Imaging. Chemistry - A European Journal, 2016, 22, 3671-3675.	1.7	29
34	Tetrazine Marks the Spot. ACS Central Science, 2016, 2, 493-494.	5.3	9
35	Extracellular Toxoplasma gondii tachyzoites metabolize and incorporate unnatural sugars into cellular proteins. Microbes and Infection, 2016, 18, 199-210.	1.0	6
36	Visualizing Cell Proximity with Genetically Encoded Bioluminescent Reporters. ACS Chemical Biology, 2015, 10, 933-938.	1.6	15

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37	A Bioorthogonal Ligation of Cyclopropenones Mediated by Triarylphosphines. Journal of the American Chemical Society, 2015, 137, 10036-10039.	6.6	64
38	A â€œCagedâ€•Luciferin for Imaging Cellâ€“Cell Contacts. Journal of the American Chemical Society, 2015, 137, 8656-8659.	6.6	64
39	1,2,4-Triazines Are Versatile Bioorthogonal Reagents. Journal of the American Chemical Society, 2015, 137, 8388-8391.	6.6	123
40	Orthogonal bioorthogonal chemistries. Current Opinion in Chemical Biology, 2015, 28, 141-149.	2.8	121
41	Tools for visualizing cellâ€“cell â€˜interactomesâ€™. Current Opinion in Chemical Biology, 2015, 24, 121-130.	2.8	19
42	Rapid and scalable assembly of firefly luciferase substrates. Organic and Biomolecular Chemistry, 2015, 13, 2117-2121.	1.5	31
43	A synthetic luciferin improves bioluminescence imaging in live mice. Nature Methods, 2014, 11, 393-395.	9.0	151
44	Bioluminescence: a versatile technique for imaging cellular and molecular features. MedChemComm, 2014, 5, 255-267.	3.5	97
45	Finding the Right (Bioorthogonal) Chemistry. ACS Chemical Biology, 2014, 9, 592-605.	1.6	589
46	Improved cyclopropene reporters for probing protein glycosylation. Molecular BioSystems, 2014, 10, 1693.	2.9	67
47	Building better bioorthogonal reactions. Current Opinion in Chemical Biology, 2014, 21, 103-111.	2.8	90
48	Isomeric Cyclopropenes Exhibit Unique Bioorthogonal Reactivities. Journal of the American Chemical Society, 2013, 135, 13680-13683.	6.6	134
49	Visualizing cellular interactions with a generalized proximity reporter. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8567-8572.	3.3	40
50	Expedient Synthesis of Electronically Modified Luciferins for Bioluminescence Imaging. Journal of the American Chemical Society, 2012, 134, 7604-7607.	6.6	97
51	Functionalized Cyclopropenes As Bioorthogonal Chemical Reporters. Journal of the American Chemical Society, 2012, 134, 18638-18643.	6.6	310
52	Guided by the light: visualizing biomolecular processes in living animals with bioluminescence. Current Opinion in Chemical Biology, 2010, 14, 80-89.	2.8	227
53	Cancer stem cells from human breast tumors are involved in spontaneous metastases in orthotopic mouse models. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18115-18120.	3.3	408
54	Copper-free click chemistry in living animals. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1821-1826.	3.3	560

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55	Rapid detection, discovery, and identification of postâ€translationally myristoylated proteins during apoptosis using a bioâ€orthogonal azidomyristate analog. FASEB Journal, 2008, 22, 797-806.	0.2	103
56	Imaging Cell Surface Glycans with Bioorthogonal Chemical Reporters. Journal of the American Chemical Society, 2007, 129, 8400-8401.	6.6	182
57	Copper-free click chemistry for dynamic in vivo imaging. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16793-16797.	3.3	1,587
58	Chemical Technologies for Probing Glycans. Cell, 2006, 126, 851-854.	13.5	196
59	A Comparative Study of Bioorthogonal Reactions with Azides. ACS Chemical Biology, 2006, 1, 644-648.	1.6	647
60	Probing mucin-type O-linked glycosylation in living animals. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4819-4824.	3.3	198
61	Chemistry in living systems. Nature Chemical Biology, 2005, 1, 13-21.	3.9	1,290
62	Chemical remodelling of cell surfaces in living animals. Nature, 2004, 430, 873-877.	13.7	722
63	A Strain-Promoted [3 + 2] Azideâ˜'Alkyne Cycloaddition for Covalent Modification of Biomolecules in Living Systems. Journal of the American Chemical Society, 2004, 126, 15046-15047.	6.6	2,276