Jennifer A Prescher

List of Publications by Year
in descending order

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63	11,806	101535 36	114455 63
papers	citations	h-index	g-index

68	68	68	10824
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	13.7	2,276
2	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.	7.1	1,587
3	Chemistry in living systems. Nature Chemical Biology, 2005, 1, 13-21.	8.0	1,290
4	Chemical remodelling of cell surfaces in living animals. Nature, 2004, 430, 873-877.	27.8	722
5	A Comparative Study of Bioorthogonal Reactions with Azides. ACS Chemical Biology, 2006, 1, 644-648.	3.4	647
6	Finding the Right (Bioorthogonal) Chemistry. ACS Chemical Biology, 2014, 9, 592-605.	3.4	589
7	Copper-free click chemistry in living animals. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1821-1826.	7.1	560
8	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.	7.1	408
9	Functionalized Cyclopropenes As Bioorthogonal Chemical Reporters. Journal of the American Chemical Society, 2012, 134, 18638-18643.	13.7	310
10	Guided by the light: visualizing biomolecular processes in living animals with bioluminescence. Current Opinion in Chemical Biology, 2010, 14, 80-89.	6.1	227
11	Bioorthogonal chemistry. Nature Reviews Methods Primers, 2021, 1, .	21.2	201
12	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.	7.1	198
13	Chemical Technologies for Probing Glycans. Cell, 2006, 126, 851-854.	28.9	196
14	Imaging Cell Surface Glycans with Bioorthogonal Chemical Reporters. Journal of the American Chemical Society, 2007, 129, 8400-8401.	13.7	182
15	A synthetic luciferin improves bioluminescence imaging in live mice. Nature Methods, 2014, 11, 393-395.	19.0	151
16	Constructing New Bioorthogonal Reagents and Reactions. Accounts of Chemical Research, 2018, 51, 1073-1081.	15.6	135
17	Isomeric Cyclopropenes Exhibit Unique Bioorthogonal Reactivities. Journal of the American Chemical Society, 2013, 135, 13680-13683.	13.7	134
18	1,2,4-Triazines Are Versatile Bioorthogonal Reagents. Journal of the American Chemical Society, 2015, 137, 8388-8391.	13.7	123

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19	Orthogonal bioorthogonal chemistries. Current Opinion in Chemical Biology, 2015, 28, 141-149.	6.1	121
20	Developing bioorthogonal probes to span a spectrum of reactivities. Nature Reviews Chemistry, 2020, 4, 476-489.	30.2	119
21	Directed Evolution of a Selective and Sensitive Serotonin Sensor via Machine Learning. Cell, 2020, 183, 1986-2002.e26.	28.9	104
22	Rapid detection, discovery, and identification of postâ€translationally myristoylated proteins during apoptosis using a bioâ€orthogonal azidomyristate analog. FASEB Journal, 2008, 22, 797-806.	0.5	103
23	Expedient Synthesis of Electronically Modified Luciferins for Bioluminescence Imaging. Journal of the American Chemical Society, 2012, 134, 7604-7607.	13.7	97
24	Bioluminescence: a versatile technique for imaging cellular and molecular features. MedChemComm, 2014, 5, 255-267.	3.4	97
25	Building better bioorthogonal reactions. Current Opinion in Chemical Biology, 2014, 21, 103-111.	6.1	90
26	Orthogonal Luciferaseâ€“Luciferin Pairs for Bioluminescence Imaging. Journal of the American Chemical Society, 2017, 139, 2351-2358.	13.7	89
27	Advances in bioluminescence imaging: new probes from old recipes. Current Opinion in Chemical Biology, 2018, 45, 148-156.	6.1	89
28	Improved cyclopropene reporters for probing protein glycosylation. Molecular BioSystems, 2014, 10, 1693.	2.9	67
29	A Bioorthogonal Ligation of Cyclopropenones Mediated by Triarylphosphines. Journal of the American Chemical Society, 2015, 137, 10036-10039.	13.7	64
30	A â€œCagedâ€•Luciferin for Imaging Cellâ€“Cell Contacts. Journal of the American Chemical Society, 2015, 137, 8656-8659.	13.7	64
31	Seeing (and Using) the Light: Recent Developments in Bioluminescence Technology. Cell Chemical Biology, 2020, 27, 904-920.	5.2	63
32	Cyclopropenones for Metabolic Targeting and Sequential Bioorthogonal Labeling. Journal of the American Chemical Society, 2017, 139, 7370-7375.	13.7	58
33	Bioluminescent Probes for Imaging Biology beyond the Culture Dish. Biochemistry, 2017, 56, 5178-5184.	2.5	53
34	Bioorthogonal Reactions of Triarylphosphines and Related Analogues. Chemical Reviews, 2021, 121, 6802-6849.	47.7	42
35	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.	7.1	40
36	Parallel Screening for Rapid Identification of Orthogonal Bioluminescent Tools. ACS Central Science, 2017, 3, 1254-1261.	11.3	39

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37	Multicomponent Bioluminescence Imaging with a Ï€-Extended Luciferin. Journal of the American Chemical Society, 2020, 142, 14080-14089.	13.7	39
38	Brominated Luciferins Are Versatile Bioluminescent Probes. ChemBioChem, 2017, 18, 96-100.	2.6	35
39	Isomeric triazines exhibit unique profiles of bioorthogonal reactivity. Chemical Science, 2019, 10, 9109-9114.	7.4	33
40	Building Biological Flashlights: Orthogonal Luciferases and Luciferins for in Vivo Imaging. Accounts of Chemical Research, 2019, 52, 3039-3050.	15.6	33
41	Rapid and scalable assembly of firefly luciferase substrates. Organic and Biomolecular Chemistry, 2015, 13, 2117-2121.	2.8	31
42	Design and Synthesis of an Alkynyl Luciferin Analogue for Bioluminescence Imaging. Chemistry - A European Journal, 2016, 22, 3671-3675.	3.3	29
43	Unraveling cell-to-cell signaling networks with chemical biology. Nature Chemical Biology, 2017, 13, 564-568.	8.0	26
44	Pyridone Luciferins and Mutant Luciferases for Bioluminescence Imaging. ChemBioChem, 2018, 19, 470-477.	2.6	24
45	Butenolide Synthesis from Functionalized Cyclopropenones. Organic Letters, 2019, 21, 8695-8699.	4.6	23
46	Multiplexed bioluminescence microscopy via phasor analysis. Nature Methods, 2022, 19, 893-898.	19.0	22
47	Tools for visualizing cellâ€“cell â€˜interactomesâ€™. Current Opinion in Chemical Biology, 2015, 24, 121-130.	6.1	19
48	Visualizing Cell Proximity with Genetically Encoded Bioluminescent Reporters. ACS Chemical Biology, 2015, 10, 933-938.	3.4	15
49	A Cyclopropenethione-Phosphine Ligation for Rapid Biomolecule Labeling. Organic Letters, 2018, 20, 5614-5617.	4.6	15
50	Fluorogenic Cyclopropenones for Multicomponent, Real-Time Imaging. Journal of the American Chemical Society, 2022, 144, 7871-7880.	13.7	15
51	Coumarin luciferins and mutant luciferases for robust multi-component bioluminescence imaging. Chemical Science, 2021, 12, 11684-11691.	7.4	13
52	Transcriptome analysis of heterogeneity in mouse model of metastatic breast cancer. Breast Cancer Research, 2021, 23, 93.	5.0	12
53	Statistical Coupling Analysis-Guided Library Design for the Discovery of Mutant Luciferases. Biochemistry, 2018, 57, 663-671.	2.5	11
54	Cyclopropeniminium Ions Exhibit Unique Reactivity Profiles with Bioorthogonal Phosphines. Journal of Organic Chemistry, 2019, 84, 7443-7448.	3.2	11

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55	Rapid Multicomponent Bioluminescence Imaging via Substrate Unmixing. ACS Chemical Biology, 2021, 16, 682-690.	3.4	11
56	Chemically triggered crosslinking with bioorthogonal cyclopropenones. Chemical Communications, 2020, 56, 10883-10886.	4.1	10
57	Tetrazine Marks the Spot. ACS Central Science, 2016, 2, 493-494.	11.3	9
58	Gaussia princeps luciferase: a bioluminescent substrate for oxidative protein folding. Protein Science, 2018, 27, 1509-1517.	7.6	9
59	Orthogonal Bioluminescent Probes from Disubstituted Luciferins. Biochemistry, 2021, 60, 563-572.	2.5	8
60	Extracellular Toxoplasma gondii tachyzoites metabolize and incorporate unnatural sugars into cellular proteins. Microbes and Infection, 2016, 18, 199-210.	1.9	6
61	Multicomponent Bioluminescence Imaging with Naphthylamino Luciferins. ChemBioChem, 2021, 22, 2650-2654.	2.6	5
62	A Bioluminescent Sensor for Rapid Detection of PPEP-1, a Clostridioides difficile Biomarker. Sensors, 2021, 21, 7485.	3.8	5
63	Caged Cumate Enables Proximityâ€Dependent Control Over Gene Expression. ChemBioChem, 2021, 22, 2440-2448.	2.6	1