

Jonathan B Grimm

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

6,901
citations

94269

37
h-index

214527

47
g-index

59
all docs

59
docs citations

59
times ranked

7961
citing authors

#	ARTICLE	IF	CITATIONS
1	A general method to improve fluorophores for live-cell and single-molecule microscopy. <i>Nature Methods</i> , 2015, 12, 244-250.	9.0	1,236
2	A general method to fine-tune fluorophores for live-cell and in vivo imaging. <i>Nature Methods</i> , 2017, 14, 987-994.	9.0	502
3	Bright and photostable chemigenetic indicators for extended in vivo voltage imaging. <i>Science</i> , 2019, 365, 699-704.	6.0	362
4	Bright photoactivatable fluorophores for single-molecule imaging. <i>Nature Methods</i> , 2016, 13, 985-988.	9.0	338
5	Real-time quantification of single RNA translation dynamics in living cells. <i>Science</i> , 2016, 352, 1425-1429.	6.0	317
6	High-density three-dimensional localization microscopy across large volumes. <i>Nature Methods</i> , 2016, 13, 359-365.	9.0	262
7	Steroid Receptors Reprogram FoxA1 Occupancy through Dynamic Chromatin Transitions. <i>Cell</i> , 2016, 165, 593-605.	13.5	257
8	RNA Polymerase II cluster dynamics predict mRNA output in living cells. <i>ELife</i> , 2016, 5, .	2.8	215
9	Robust model-based analysis of single-particle tracking experiments with Spot-On. <i>ELife</i> , 2018, 7, .	2.8	213
10	3D imaging of Sox2 enhancer clusters in embryonic stem cells. <i>ELife</i> , 2014, 3, e04236.	2.8	204
11	Carbofluoresceins and Carborhodamines as Scaffolds for High-Contrast Fluorogenic Probes. <i>ACS Chemical Biology</i> , 2013, 8, 1303-1310.	1.6	189
12	Glutamate-induced RNA localization and translation in neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6877-E6886.	3.3	159
13	Rational Design of Fluorogenic and Spontaneously Blinking Labels for Super-Resolution Imaging. <i>ACS Central Science</i> , 2019, 5, 1602-1613.	5.3	159
14	A general method to optimize and functionalize red-shifted rhodamine dyes. <i>Nature Methods</i> , 2020, 17, 815-821.	9.0	155
15	Synthesis of a Far-Red Photoactivatable Silicon-Containing Rhodamine for Super-Resolution Microscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1723-1727.	7.2	142
16	General Synthetic Method for Si-Fluoresceins and Si-Rhodamines. <i>ACS Central Science</i> , 2017, 3, 975-985.	5.3	139
17	Caveat fluorophore: an insiders'™ guide to small-molecule fluorescent labels. <i>Nature Methods</i> , 2022, 19, 149-158.	9.0	122
18	Multi-Color Single-Molecule Imaging Uncovers Extensive Heterogeneity in mRNA Decoding. <i>Cell</i> , 2019, 178, 458-472.e19.	13.5	120

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19	Facile and General Synthesis of Photoactivatable Xanthene Dyes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11206-11209.	7.2	116
20	The Chemistry of Small-Molecule Fluorogenic Probes. <i>Progress in Molecular Biology and Translational Science</i> , 2013, 113, 1-34.	0.9	110
21	Whole-Cell, 3D, and Multicolor STED Imaging with Exchangeable Fluorophores. <i>Nano Letters</i> , 2019, 19, 500-505.	4.5	110
22	Synthesis of Rhodamines from Fluoresceins Using Pd-Catalyzed C–N Cross-Coupling. <i>Organic Letters</i> , 2011, 13, 6354-6357.	2.4	108
23	A General Method to Improve Fluorophores Using Deuterated Auxochromes. <i>Jacs Au</i> , 2021, 1, 690-696.	3.6	106
24	Bioorthogonal labeling with tetrazine-dyes for super-resolution microscopy. <i>Communications Biology</i> , 2019, 2, 261.	2.0	101
25	Live-cell single-molecule tracking reveals co-recognition of H3K27me3 and DNA targets polycomb Cbx7-PRC1 to chromatin. <i>ELife</i> , 2016, 5, .	2.8	95
26	Nanoscale subcellular architecture revealed by multicolor three-dimensional salvaged fluorescence imaging. <i>Nature Methods</i> , 2020, 17, 225-231.	9.0	95
27	Quantifying transcription factor binding dynamics at the single-molecule level in live cells. <i>Methods</i> , 2017, 123, 76-88.	1.9	81
28	Synthesis of Janelia Fluor HaloTag and SNAP-Tag Ligands and Their Use in Cellular Imaging Experiments. <i>Methods in Molecular Biology</i> , 2017, 1663, 179-188.	0.4	81
29	Visualizing long-term single-molecule dynamics in vivo by stochastic protein labeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 343-348.	3.3	79
30	Semisynthetic fluorescent pH sensors for imaging exocytosis and endocytosis. <i>Nature Communications</i> , 2017, 8, 1412.	5.8	77
31	Real-time imaging of Huntingtin aggregates diverting target search and gene transcription. <i>ELife</i> , 2016, 5, .	2.8	74
32	A toolbox for multiplexed super-resolution imaging of the E. coli nucleoid and membrane using novel PAINT labels. <i>Scientific Reports</i> , 2018, 8, 14768.	1.6	68
33	Rapid dynamics of general transcription factor TFIIB binding during preinitiation complex assembly revealed by single-molecule analysis. <i>Genes and Development</i> , 2016, 30, 2106-2118.	2.7	60
34	Cohesin Can Remain Associated with Chromosomes during DNA Replication. <i>Cell Reports</i> , 2017, 20, 2749-2755.	2.9	59
35	Virginia Orange: A Versatile, Red-Shifted Fluorescein Scaffold for Single- and Dual-Input Fluorogenic Probes. <i>Bioconjugate Chemistry</i> , 2016, 27, 474-480.	1.8	56
36	A dynamic interplay of enhancer elements regulates <i>Klf4</i> expression in naïve pluripotency. <i>Genes and Development</i> , 2017, 31, 1795-1808.	2.7	49

#	ARTICLE	IF	CITATIONS
37	Enabling <i>In Vivo</i> Photocatalytic Activation of Rapid Bioorthogonal Chemistry by Repurposing Silicon-Rhodamine Fluorophores as Cytocompatible Far-Red Photocatalysts. <i>Journal of the American Chemical Society</i> , 2021, 143, 10793-10803.	6.6	47
38	Desensitized D2 autoreceptors are resistant to trafficking. <i>Scientific Reports</i> , 2017, 7, 4379.	1.6	42
39	Synthesis of a Far-Red Photoactivatable Silicon-Containing Rhodamine for Super-Resolution Microscopy. <i>Angewandte Chemie</i> , 2016, 128, 1755-1759.	1.6	40
40	Cell-Specific Chemical Delivery Using a Selective Nitroreductase-Nitroaryl Pair. <i>ACS Chemical Biology</i> , 2018, 13, 2888-2896.	1.6	38
41	Rational Design of Bioavailable Photosensitizers for Manipulation and Imaging of Biological Systems. <i>Cell Chemical Biology</i> , 2020, 27, 1063-1072.e7.	2.5	23
42	Optimization of fluorophores for chemical tagging and immunohistochemistry of Drosophila neurons. <i>PLoS ONE</i> , 2018, 13, e0200759.	1.1	21
43	Biosensors based on peptide exposure show single molecule conformations in live cells. <i>Cell</i> , 2021, 184, 5670-5685.e23.	13.5	15
44	Design and Synthesis of a Calcium-Sensitive Photocage. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8363-8366.	7.2	13
45	Novel Fluorescent Ligands Enable Single-Molecule Localization Microscopy of the Dopamine Transporter. <i>ACS Chemical Neuroscience</i> , 2020, 11, 3288-3300.	1.7	12
46	Direct detection of SARS-CoV-2 RNA using high-contrast pH-sensitive dyes. <i>Journal of Biomolecular Techniques</i> , 2021, 32, 121-133.	0.8	9
47	Design and Synthesis of a Calcium-Sensitive Photocage. <i>Angewandte Chemie</i> , 2016, 128, 8503-8506.	1.6	2
48	Innenr¼cktitelbild: Synthesis of a Far-Red Photoactivatable Silicon-Containing Rhodamine for Super-Resolution Microscopy (<i>Angew. Chem.</i> 5/2016). <i>Angewandte Chemie</i> , 2016, 128, 1961-1961.	1.6	0