Michael Z Lin

List of Publications by Year
in descending order

65 papers	15,709 citations	87888 38 h-index	133252 59 g-index
76 all docs	76 docs citations	76 times ranked	22006 citing authors

#	Article	IF	Citations
1	FRET Imaging of Rho GTPase Activity with Red Fluorescent Protein-Based FRET Pairs. Methods in Molecular Biology, 2022, 2438, 31-43.	0.9	1
2	A red fluorescent protein with improved monomericity enables ratiometric voltage imaging with ASAP3. Scientific Reports, 2022, 12, 3678.	3.3	9
3	Enhanced safety and efficacy of protease-regulated CAR-T cell receptors. Cell, 2022, 185, 1745-1763.e22.	28.9	88
4	Optical regulation of endogenous RhoA reveals selection of cellular responses by signal amplitude. Cell Reports, 2022, 40, 111080.	6.4	8
5	Combinatorial effects of RhoA and Cdc42 on the actin cytoskeleton revealed by photoswitchable GEFs. Sensors and Actuators B: Chemical, 2022, 369, 132316.	7.8	4
6	Simultaneous Detection of Four Cell Cycle Phases with Live Fluorescence Imaging. Methods in Molecular Biology, 2021, 2274, 25-35.	0.9	0
7	Optical control of fast and processive engineered myosins in vitro and in living cells. Nature Chemical Biology, 2021, 17, 540-548.	8.0	17
8	Optobiochemistry: Genetically Encoded Control of Protein Activity by Light. Annual Review of Biochemistry, 2021, 90, 475-501.	11.1	30
9	Brightening up Biology: Advances in Luciferase Systems for <i>in Vivo</i> Imaging. ACS Chemical Biology, 2021, 16, 2707-2718.	3.4	42
10	Integrated Neurophotonics: Toward Dense Volumetric Interrogation of Brain Circuit Activityâ€”at Depth and in Real Time. Neuron, 2020, 108, 66-92.	8.1	40
11	Novel NanoLuc substrates enable bright two-population bioluminescence imaging in animals. Nature Methods, 2020, 17, 852-860.	19.0	123
12	On the cutting edge: protease-based methods for sensing and controlling cell biology. Nature Methods, 2020, 17, 885-896.	19.0	24
13	Two-Photon Voltage Imaging of Spontaneous Activity from Multiple Neurons Reveals Network Activity in Brain Tissue. IScience, 2020, 23, 101363.	4.1	17
14	Kilohertz two-photon fluorescence microscopy imaging of neural activity in vivo. Nature Methods, 2020, 17, 287-290.	19.0	155
15	Kinase pathway inhibition restores PSD95 induction in neurons lacking fragile X mental retardation protein. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12007-12012.	7.1	5
16	A compact synthetic pathway rewires cancer signaling to therapeutic effector release. Science, 2019, 364, .	12.6	33
17	An orange calcium-modulated bioluminescent indicator for non-invasive activity imaging. Nature Chemical Biology, 2019, 15, 433-436.	8.0	37
18	An Axonal Blueprint: Generating Neuronal Polarity with Light-Inducible Proteins. Cell Chemical Biology, 2019, 26, 1634-1636.	5.2	0

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19	Ultrafast Two-Photon Imaging of a High-Gain Voltage Indicator in Awake Behaving Mice. Cell, 2019, 179, 1590-1608.e23.	28.9	242
20	A Single-Chain Photoswitchable CRISPR-Cas9 Architecture for Light-Inducible Gene Editing and Transcription. ACS Chemical Biology, 2018, 13, 443-448.	3.4	103
21	StaPLs: versatile genetically encoded modules for engineering drug-inducible proteins. Nature Methods, 2018, 15, 523-526.	19.0	42
22	Excitation wavelength optimization improves photostability of ASAP-family GEVIs. Molecular Brain, 2018, 11, 32.	2.6	13
23	A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain-Cell-Type Targeting and Functionality. Cell, 2018, 174, 465-480.e22.	28.9	571
24	Optical control of cell signaling by single-chain photoswitchable kinases. Science, 2017, 355, 836-842.	12.6	151
25	Understanding CRY2 interactions for optical control of intracellular signaling. Nature Communications, 2017, 8, 547.	12.8	86
26	The Growing and Glowing Toolbox of Fluorescent and Photoactive Proteins. Trends in Biochemical Sciences, 2017, 42, 111-129.	7.5	514
27	Fast two-photon imaging of subcellular voltage dynamics in neuronal tissue with genetically encoded indicators. ELife, 2017, 6, .	6.0	161
28	Study protocol: multi-parametric magnetic resonance imaging for therapeutic response prediction in rectal cancer. BMC Cancer, 2017, 17, 465.	2.6	29
29	A Guide to Fluorescent Protein FRET Pairs. Sensors, 2016, 16, 1488.	3.8	332
30	Cell-Type-Specific Optical Recording of Membrane Voltage Dynamics in Freely Moving Mice. Cell, 2016, 167, 1650-1662.e15.	28.9	90
31	Improving brightness and photostability of green and red fluorescent proteins for live cell imaging and FRET reporting. Scientific Reports, 2016, 6, 20889.	3.3	339
32	Structure-guided wavelength tuning in far-red fluorescent proteins. Current Opinion in Structural Biology, 2016, 39, 124-133.	5.7	14
33	Genetically encoded indicators of neuronal activity. Nature Neuroscience, 2016, 19, 1142-1153.	14.8	553
34	Simultaneous dual-color fluorescence lifetime imaging with novel red-shifted fluorescent proteins. Nature Methods, 2016, 13, 989-992.	19.0	87
35	Fluorescent indicators for simultaneous reporting of all four cell cycle phases. Nature Methods, 2016, 13, 993-996.	19.0	171
36	Subcellular Imaging of Voltage and Calcium Signals Reveals Neural Processing InÂVivo. Cell, 2016, 166, 245-257.	28.9	228

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37	A bright cyan-excitable orange fluorescent protein facilitates dual-emission microscopy and enhances bioluminescence imaging in vivo. Nature Biotechnology, 2016, 34, 760-767.	17.5	221
38	Quantitative Multiscale Cell Imaging in Controlled 3D Microenvironments. Developmental Cell, 2016, 36, 462-475.	7.0	70
39	Investigating neuronal function with optically controllable proteins. Frontiers in Molecular Neuroscience, 2015, 8, 37.	2.9	17
40	Experimental systems for optogenetic control of protein activity with photodissociable fluorescent proteins. , 2015, , .		1
41	Tunable and reversible drug control of protein production via a self-excising degron. Nature Chemical Biology, 2015, 11, 713-720.	8.0	180
42	Designs and sensing mechanisms of genetically encoded fluorescent voltage indicators. Current Opinion in Chemical Biology, 2015, 27, 31-38.	6.1	84
43	Optical control of biological processes by lightâ€switchable proteins. Wiley Interdisciplinary Reviews: Developmental Biology, 2015, 4, 545-554.	5.9	22
44	Replication-Competent Influenza Virus and Respiratory Syncytial Virus Luciferase Reporter Strains Engineered for Co-Infections Identify Antiviral Compounds in Combination Screens. Biochemistry, 2015, 54, 5589-5604.	2.5	38
45	Non-invasive intravital imaging of cellular differentiation with a bright red-excitable fluorescent protein. Nature Methods, 2014, 11, 572-578.	19.0	196
46	High-fidelity optical reporting of neuronal electrical activity with an ultrafast fluorescent voltage sensor. Nature Neuroscience, 2014, 17, 884-889.	14.8	381
47	Photoswitchable fluorescent proteins: ten years of colorful chemistry and exciting applications. Current Opinion in Chemical Biology, 2013, 17, 682-690.	6.1	144
48	Optobiology: optical control of biological processes via protein engineering. Biochemical Society Transactions, 2013, 41, 1183-1188.	3.4	42
49	Optical Control of Protein Activity by Fluorescent Protein Domains. Science, 2012, 338, 810-814.	12.6	249
50	Fluorescent and photo-oxidizing TimeSTAMP tags track protein fates in light and electron microscopy. Nature Neuroscience, 2012, 15, 1742-1751.	14.8	71
51	Improving FRET dynamic range with bright green and red fluorescent proteins. Nature Methods, 2012, 9, 1005-1012.	19.0	694
52	New Alternately Colored FRET Sensors for Simultaneous Monitoring of Zn2+ in Multiple Cellular Locations. PLoS ONE, 2012, 7, e49371.	2.5	77
53	Beyond the rainbow: new fluorescent proteins brighten the infrared scene. Nature Methods, 2011, 8, 726-728.	19.0	19
54	Toward the Second Generation of Optogenetic Tools. Journal of Neuroscience, 2010, 30, 14998-15004.	3.6	95

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55	TimeSTAMP Tagging of Newly Synthesized Proteins. Current Protocols in Protein Science, 2010, 59, Unit 26.5.	2.8	9
56	Autofluorescent Proteins with Excitation in the Optical Window for Intravital Imaging in Mammals. Chemistry and Biology, 2009, 16, 1169-1179.	6.0	244
57	Mammalian Expression of Infrared Fluorescent Proteins Engineered from a Bacterial Phytochrome. Science, 2009, 324, 804-807.	12.6	638
58	Characterization of Engineered Channelrhodopsin Variants with Improved Properties and Kinetics. Biophysical Journal, 2009, 96, 1803-1814.	0.5	638
59	Improving the photostability of bright monomeric orange and red fluorescent proteins. Nature Methods, 2008, 5, 545-551.	19.0	915
60	A drug-controllable tag for visualizing newly synthesized proteins in cells and whole animals. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7744-7749.	7.1	63
61	Selective Labeling of Proteins with Chemical Probes in Living Cells. Physiology, 2008, 23, 131-141.	3.1	67
62	Eph-Dependent Tyrosine Phosphorylation of Ephexin1 Modulates Growth Cone Collapse. Neuron, 2005, 46, 191-204.	8.1	216
63	Akt Promotes Cell Survival by Phosphorylating and Inhibiting a Forkhead Transcription Factor. Cell, 1999, 96, 857-868.	28.9	5,895
64	A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain Cell Type Targeting and Functionality. SSRN Electronic Journal, 0, , .	0.4	2
65	A Bright, Nontoxic, and Non-aggregating red Fluorescent Protein for Long-Term Labeling of Fine Structures in Neurons. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	4