

Michael Z Lin

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

15,709
citations

100601

38
h-index

150775

59
g-index

76
all docs

76
docs citations

76
times ranked

24677
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | FRET Imaging of Rho GTPase Activity with Red Fluorescent Protein-Based FRET Pairs. <i>Methods in Molecular Biology</i> , 2022, 2438, 31-43. | 0.4 | 1 |
| 2 | A red fluorescent protein with improved monomericity enables ratiometric voltage imaging with ASAP3. <i>Scientific Reports</i> , 2022, 12, 3678. | 1.6 | 9 |
| 3 | Enhanced safety and efficacy of protease-regulated CAR-T cell receptors. <i>Cell</i> , 2022, 185, 1745-1763.e22. | 13.5 | 88 |
| 4 | Optical regulation of endogenous RhoA reveals selection of cellular responses by signal amplitude. <i>Cell Reports</i> , 2022, 40, 111080. | 2.9 | 8 |
| 5 | Combinatorial effects of RhoA and Cdc42 on the actin cytoskeleton revealed by photoswitchable GEFs. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132316. | 4.0 | 4 |
| 6 | Simultaneous Detection of Four Cell Cycle Phases with Live Fluorescence Imaging. <i>Methods in Molecular Biology</i> , 2021, 2274, 25-35. | 0.4 | 0 |
| 7 | Optical control of fast and processive engineered myosins in vitro and in living cells. <i>Nature Chemical Biology</i> , 2021, 17, 540-548. | 3.9 | 17 |
| 8 | Optobiochemistry: Genetically Encoded Control of Protein Activity by Light. <i>Annual Review of Biochemistry</i> , 2021, 90, 475-501. | 5.0 | 30 |
| 9 | Brightening up Biology: Advances in Luciferase Systems for <i>in Vivo</i> Imaging. <i>ACS Chemical Biology</i> , 2021, 16, 2707-2718. | 1.6 | 42 |
| 10 | Integrated Neurophotonics: Toward Dense Volumetric Interrogation of Brain Circuit Activity at Depth and in Real Time. <i>Neuron</i> , 2020, 108, 66-92. | 3.8 | 40 |
| 11 | Novel NanoLuc substrates enable bright two-population bioluminescence imaging in animals. <i>Nature Methods</i> , 2020, 17, 852-860. | 9.0 | 123 |
| 12 | On the cutting edge: protease-based methods for sensing and controlling cell biology. <i>Nature Methods</i> , 2020, 17, 885-896. | 9.0 | 24 |
| 13 | Two-Photon Voltage Imaging of Spontaneous Activity from Multiple Neurons Reveals Network Activity in Brain Tissue. <i>iScience</i> , 2020, 23, 101363. | 1.9 | 17 |
| 14 | Kilohertz two-photon fluorescence microscopy imaging of neural activity in vivo. <i>Nature Methods</i> , 2020, 17, 287-290. | 9.0 | 155 |
| 15 | Kinase pathway inhibition restores PSD95 induction in neurons lacking fragile X mental retardation protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12007-12012. | 3.3 | 5 |
| 16 | A compact synthetic pathway rewires cancer signaling to therapeutic effector release. <i>Science</i> , 2019, 364, . | 6.0 | 33 |
| 17 | An orange calcium-modulated bioluminescent indicator for non-invasive activity imaging. <i>Nature Chemical Biology</i> , 2019, 15, 433-436. | 3.9 | 37 |
| 18 | An Axonal Blueprint: Generating Neuronal Polarity with Light-Inducible Proteins. <i>Cell Chemical Biology</i> , 2019, 26, 1634-1636. | 2.5 | 0 |

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|----|---|------|-----------|
| 19 | Ultrafast Two-Photon Imaging of a High-Gain Voltage Indicator in Awake Behaving Mice. <i>Cell</i> , 2019, 179, 1590-1608.e23. | 13.5 | 242 |
| 20 | A Single-Chain Photoswitchable CRISPR-Cas9 Architecture for Light-Inducible Gene Editing and Transcription. <i>ACS Chemical Biology</i> , 2018, 13, 443-448. | 1.6 | 103 |
| 21 | StaPLs: versatile genetically encoded modules for engineering drug-inducible proteins. <i>Nature Methods</i> , 2018, 15, 523-526. | 9.0 | 42 |
| 22 | Excitation wavelength optimization improves photostability of ASAP-family GEVIs. <i>Molecular Brain</i> , 2018, 11, 32. | 1.3 | 13 |
| 23 | A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain-Cell-Type Targeting and Functionality. <i>Cell</i> , 2018, 174, 465-480.e22. | 13.5 | 571 |
| 24 | Optical control of cell signaling by single-chain photoswitchable kinases. <i>Science</i> , 2017, 355, 836-842. | 6.0 | 151 |
| 25 | Understanding CRY2 interactions for optical control of intracellular signaling. <i>Nature Communications</i> , 2017, 8, 547. | 5.8 | 86 |
| 26 | The Growing and Glowing Toolbox of Fluorescent and Photoactive Proteins. <i>Trends in Biochemical Sciences</i> , 2017, 42, 111-129. | 3.7 | 514 |
| 27 | Fast two-photon imaging of subcellular voltage dynamics in neuronal tissue with genetically encoded indicators. <i>ELife</i> , 2017, 6, . | 2.8 | 161 |
| 28 | Study protocol: multi-parametric magnetic resonance imaging for therapeutic response prediction in rectal cancer. <i>BMC Cancer</i> , 2017, 17, 465. | 1.1 | 29 |
| 29 | A Guide to Fluorescent Protein FRET Pairs. <i>Sensors</i> , 2016, 16, 1488. | 2.1 | 332 |
| 30 | Cell-Type-Specific Optical Recording of Membrane Voltage Dynamics in Freely Moving Mice. <i>Cell</i> , 2016, 167, 1650-1662.e15. | 13.5 | 90 |
| 31 | Improving brightness and photostability of green and red fluorescent proteins for live cell imaging and FRET reporting. <i>Scientific Reports</i> , 2016, 6, 20889. | 1.6 | 339 |
| 32 | Structure-guided wavelength tuning in far-red fluorescent proteins. <i>Current Opinion in Structural Biology</i> , 2016, 39, 124-133. | 2.6 | 14 |
| 33 | Genetically encoded indicators of neuronal activity. <i>Nature Neuroscience</i> , 2016, 19, 1142-1153. | 7.1 | 553 |
| 34 | Simultaneous dual-color fluorescence lifetime imaging with novel red-shifted fluorescent proteins. <i>Nature Methods</i> , 2016, 13, 989-992. | 9.0 | 87 |
| 35 | Fluorescent indicators for simultaneous reporting of all four cell cycle phases. <i>Nature Methods</i> , 2016, 13, 993-996. | 9.0 | 171 |
| 36 | Subcellular Imaging of Voltage and Calcium Signals Reveals Neural Processing In Vivo. <i>Cell</i> , 2016, 166, 245-257. | 13.5 | 228 |

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|----|--|-----|-----------|
| 37 | A bright cyan-excitable orange fluorescent protein facilitates dual-emission microscopy and enhances bioluminescence imaging in vivo. <i>Nature Biotechnology</i> , 2016, 34, 760-767. | 9.4 | 221 |
| 38 | Quantitative Multiscale Cell Imaging in Controlled 3D Microenvironments. <i>Developmental Cell</i> , 2016, 36, 462-475. | 3.1 | 70 |
| 39 | Investigating neuronal function with optically controllable proteins. <i>Frontiers in Molecular Neuroscience</i> , 2015, 8, 37. | 1.4 | 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. <i>Nature Chemical Biology</i> , 2015, 11, 713-720. | 3.9 | 180 |
| 42 | Designs and sensing mechanisms of genetically encoded fluorescent voltage indicators. <i>Current Opinion in Chemical Biology</i> , 2015, 27, 31-38. | 2.8 | 84 |
| 43 | Optical control of biological processes by light-switchable proteins. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 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. <i>Biochemistry</i> , 2015, 54, 5589-5604. | 1.2 | 38 |
| 45 | Non-invasive intravital imaging of cellular differentiation with a bright red-excitable fluorescent protein. <i>Nature Methods</i> , 2014, 11, 572-578. | 9.0 | 196 |
| 46 | High-fidelity optical reporting of neuronal electrical activity with an ultrafast fluorescent voltage sensor. <i>Nature Neuroscience</i> , 2014, 17, 884-889. | 7.1 | 381 |
| 47 | Photoswitchable fluorescent proteins: ten years of colorful chemistry and exciting applications. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 682-690. | 2.8 | 144 |
| 48 | Optobiology: optical control of biological processes via protein engineering. <i>Biochemical Society Transactions</i> , 2013, 41, 1183-1188. | 1.6 | 42 |
| 49 | Optical Control of Protein Activity by Fluorescent Protein Domains. <i>Science</i> , 2012, 338, 810-814. | 6.0 | 249 |
| 50 | Fluorescent and photo-oxidizing TimeSTAMP tags track protein fates in light and electron microscopy. <i>Nature Neuroscience</i> , 2012, 15, 1742-1751. | 7.1 | 71 |
| 51 | Improving FRET dynamic range with bright green and red fluorescent proteins. <i>Nature Methods</i> , 2012, 9, 1005-1012. | 9.0 | 694 |
| 52 | New Alternately Colored FRET Sensors for Simultaneous Monitoring of Zn ²⁺ in Multiple Cellular Locations. <i>PLoS ONE</i> , 2012, 7, e49371. | 1.1 | 77 |
| 53 | Beyond the rainbow: new fluorescent proteins brighten the infrared scene. <i>Nature Methods</i> , 2011, 8, 726-728. | 9.0 | 19 |
| 54 | Toward the Second Generation of Optogenetic Tools. <i>Journal of Neuroscience</i> , 2010, 30, 14998-15004. | 1.7 | 95 |

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|----|---|------|-----------|
| 55 | TimeSTAMP Tagging of Newly Synthesized Proteins. <i>Current Protocols in Protein Science</i> , 2010, 59, Unit 26.5. | 2.8 | 9 |
| 56 | Autofluorescent Proteins with Excitation in the Optical Window for Intravital Imaging in Mammals. <i>Chemistry and Biology</i> , 2009, 16, 1169-1179. | 6.2 | 244 |
| 57 | Mammalian Expression of Infrared Fluorescent Proteins Engineered from a Bacterial Phytochrome. <i>Science</i> , 2009, 324, 804-807. | 6.0 | 638 |
| 58 | Characterization of Engineered Channelrhodopsin Variants with Improved Properties and Kinetics. <i>Biophysical Journal</i> , 2009, 96, 1803-1814. | 0.2 | 638 |
| 59 | Improving the photostability of bright monomeric orange and red fluorescent proteins. <i>Nature Methods</i> , 2008, 5, 545-551. | 9.0 | 915 |
| 60 | A drug-controllable tag for visualizing newly synthesized proteins in cells and whole animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7744-7749. | 3.3 | 63 |
| 61 | Selective Labeling of Proteins with Chemical Probes in Living Cells. <i>Physiology</i> , 2008, 23, 131-141. | 1.6 | 67 |
| 62 | Eph-Dependent Tyrosine Phosphorylation of Ephexin1 Modulates Growth Cone Collapse. <i>Neuron</i> , 2005, 46, 191-204. | 3.8 | 216 |
| 63 | Akt Promotes Cell Survival by Phosphorylating and Inhibiting a Forkhead Transcription Factor. <i>Cell</i> , 1999, 96, 857-868. | 13.5 | 5,895 |
| 64 | A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain Cell Type Targeting and Functionality. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 2 |
| 65 | A Bright, Nontoxic, and Non-aggregating red Fluorescent Protein for Long-Term Labeling of Fine Structures in Neurons. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, . | 1.8 | 4 |