

Jonathan S Marvin

List of Publications by Year in descending order

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36
papers

5,646
citations

257429

24
h-index

361001

35
g-index

50
all docs

50
docs citations

50
times ranked

6673
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of a GCaMP Calcium Indicator for Neural Activity Imaging. <i>Journal of Neuroscience</i> , 2012, 32, 13819-13840.	3.6	1,099
2	An optimized fluorescent probe for visualizing glutamate neurotransmission. <i>Nature Methods</i> , 2013, 10, 162-170.	19.0	827
3	Genetically encoded calcium indicators for multi-color neural activity imaging and combination with optogenetics. <i>Frontiers in Molecular Neuroscience</i> , 2013, 6, 2.	2.9	629
4	Stability, affinity, and chromatic variants of the glutamate sensor iGluSnFR. <i>Nature Methods</i> , 2018, 15, 936-939.	19.0	310
5	A genetically encoded fluorescent sensor for in vivo imaging of GABA. <i>Nature Methods</i> , 2019, 16, 763-770.	19.0	242
6	Engineering Human IgG1 Affinity to Human Neonatal Fc Receptor: Impact of Affinity Improvement on Pharmacokinetics in Primates. <i>Journal of Immunology</i> , 2009, 182, 7663-7671.	0.8	237
7	Crystal Structures of the GCaMP Calcium Sensor Reveal the Mechanism of Fluorescence Signal Change and Aid Rational Design. <i>Journal of Biological Chemistry</i> , 2009, 284, 6455-6464.	3.4	226
8	Conditions and Constraints for Astrocyte Calcium Signaling in the Hippocampal Mossy Fiber Pathway. <i>Neuron</i> , 2014, 82, 413-429.	8.1	206
9	Engineering Biosensors by Introducing Fluorescent Allosteric Signal Transducers: A Construction of a Novel Glucose Sensor. <i>Journal of the American Chemical Society</i> , 1998, 120, 7-11.	13.7	194
10	A genetically encoded single-wavelength sensor for imaging cytosolic and cell surface ATP. <i>Nature Communications</i> , 2019, 10, 711.	12.8	185
11	Two-Photon Imaging of Nonlinear Glutamate Release Dynamics at Bipolar Cell Synapses in the Mouse Retina. <i>Journal of Neuroscience</i> , 2013, 33, 10972-10985.	3.6	181
12	Manipulation of ligand binding affinity by exploitation of conformational coupling. , 2001, 8, 795-798.		137
13	Protein engineering and the development of generic biosensors. <i>Trends in Biotechnology</i> , 1998, 16, 183-189.	9.3	128
14	Kilohertz frame-rate two-photon tomography. <i>Nature Methods</i> , 2019, 16, 778-786.	19.0	122
15	Directed Evolution of a Selective and Sensitive Serotonin Sensor via Machine Learning. <i>Cell</i> , 2020, 183, 1986-2002.e26.	28.9	104
16	A genetically encoded, high-signal-to-noise maltose sensor. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 3025-3036.	2.6	96
17	Recombinant approaches to IgG-like bispecific antibodies. <i>Acta Pharmacologica Sinica</i> , 2005, 26, 649-658.	6.1	86
18	Direct wavefront sensing enables functional imaging of infragranular axons and spines. <i>Nature Methods</i> , 2019, 16, 615-618.	19.0	71

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19	Quantitative <i>in vivo</i> imaging of neuronal glucose concentrations with a genetically encoded fluorescence lifetime sensor. <i>Journal of Neuroscience Research</i> , 2019, 97, 946-960.	2.9	67
20	Multiplex imaging relates quantal glutamate release to presynaptic Ca ²⁺ homeostasis at multiple synapses <i>in situ</i> . <i>Nature Communications</i> , 2019, 10, 1414.	12.8	66
21	Structure of the <i>Escherichia coli</i> Phosphonate Binding Protein PhnD and Rationally Optimized Phosphonate Biosensors. <i>Journal of Molecular Biology</i> , 2011, 414, 356-369.	4.2	60
22	Determining the pharmacokinetics of nicotinic drugs in the endoplasmic reticulum using biosensors. <i>Journal of General Physiology</i> , 2019, 151, 738-757.	1.9	50
23	jYCaMP: an optimized calcium indicator for two-photon imaging at fiber laser wavelengths. <i>Nature Methods</i> , 2020, 17, 694-697.	19.0	45
24	Optimized Vivid-derived Magnets photodimerizers for subcellular optogenetics in mammalian cells. <i>ELife</i> , 2020, 9, .	6.0	37
25	Role of Adaptor TrfA and ClpPC in Controlling Levels of SsrA-Tagged Proteins and Antitoxins in <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 2014, 196, 4140-4151.	2.2	29
26	<i>In vivo</i> glucose imaging in multiple model organisms with an engineered single-wavelength sensor. <i>Cell Reports</i> , 2021, 35, 109284.	6.4	24
27	The functional organization of excitatory synaptic input to place cells. <i>Nature Communications</i> , 2021, 12, 3558.	12.8	22
28	Nanoscope Visualization of Restricted Nonvolume Cholinergic and Monoaminergic Transmission with Genetically Encoded Sensors. <i>Nano Letters</i> , 2020, 20, 4073-4083.	9.1	18
29	Biosensors Show the Pharmacokinetics of S-Ketamine in the Endoplasmic Reticulum. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 499.	3.7	14
30	Fluorescence activation mechanism and imaging of drug permeation with new sensors for smoking-cessation ligands. <i>ELife</i> , 2022, 11, .	6.0	14
31	Bispecific antibodies for dual-modality cancer therapy: killing two signaling cascades with one stone. <i>Current Opinion in Drug Discovery & Development</i> , 2006, 9, 184-93.	1.9	6
32	Three Mutations Convert the Selectivity of a Protein Sensor from Nicotinic Agonists to S-Methadone for Use in Cells, Organelles, and Biofluids. <i>Journal of the American Chemical Society</i> , 2022, 144, 8480-8486.	13.7	6
33	Microscopy Using Fluorescent Drug Biosensors for <i>Inside-Out Pharmacology</i> . <i>Biophysical Journal</i> , 2018, 114, 358a.	0.5	2
34	<i>In Vivo</i> Glucose Imaging in Multiple Model Organisms with an Engineered Single-Wavelength Sensor. <i>SSRN Electronic Journal</i> , 0, .	0.4	2
35	Crystal structures of the GCaMP calcium sensor protein reveal the mechanism of fluorescence signal change and aid rational design. <i>FASEB Journal</i> , 2009, 23, 517.1.	0.5	0
36	Falling apart. <i>ELife</i> , 2016, 5, .	6.0	0