Eric R Schreiter

List of Publications by Year
in descending order

50 papers	16,235 citations	109321 35 h-index	189892 50 g-index
67 all docs	67 docs citations	67 times ranked	17926 citing authors

#	Article	IF	Citations
1	Ultrasensitive fluorescent proteins for imaging neuronal activity. Nature, 2013, 499, 295-300.	27.8	5,490
2	Imaging neural activity in worms, flies and mice with improved GCaMP calcium indicators. Nature Methods, 2009, 6, 875-881.	19.0	1,759
3	Optimization of a GCaMP Calcium Indicator for Neural Activity Imaging. Journal of Neuroscience, 2012, 32, 13819-13840.	3.6	1,099
4	IL-33 and ST2 comprise a critical biomechanically induced and cardioprotective signaling system. Journal of Clinical Investigation, 2007, 117, 1538-1549.	8.2	859
5	High-performance calcium sensors for imaging activity in neuronal populations and microcompartments. Nature Methods, 2019, 16, 649-657.	19.0	843
6	An optimized fluorescent probe for visualizing glutamate neurotransmission. Nature Methods, 2013, 10, 162-170.	19.0	827
7	Sensitive red protein calcium indicators for imaging neural activity. ELife, 2016, 5, .	6.0	813
8	Genetically encoded calcium indicators for multi-color neural activity imaging and combination with optogenetics. Frontiers in Molecular Neuroscience, 2013, 6, 2.	2.9	629
9	Labeling of active neural circuits in vivo with designed calcium integrators. Science, 2015, 347, 755-760.	12.6	377
10	Bright and photostable chemigenetic indicators for extended in vivo voltage imaging. Science, 2019, 365, 699-704.	12.6	362
11	Ionic Liquids Based on FeCl3and FeCl2. Raman Scattering and ab Initio Calculations. Inorganic Chemistry, 2001, 40, 2298-2304.	4.0	314
12	Crystal Structures of the GCaMP Calcium Sensor Reveal the Mechanism of Fluorescence Signal Change and Aid Rational Design. Journal of Biological Chemistry, 2009, 284, 6455-6464.	3.4	226
13	Axonal Endoplasmic Reticulum Ca2+ Content Controls Release Probability in CNS Nerve Terminals. Neuron, 2017, 93, 867-881.e6.	8.1	215
14	Thioredoxin-independent Regulation of Metabolism by the Î±-Arrestin Proteins. Journal of Biological Chemistry, 2009, 284, 24996-25003.	3.4	168
15	Crystal structure of the nickel-responsive transcription factor NikR. Nature Structural and Molecular Biology, 2003, 10, 794-799.	8.2	165
16	Ribbonâ€“helixâ€“helix transcription factors: variations on a theme. Nature Reviews Microbiology, 2007, 5, 710-720.	28.6	159
17	A genetically encoded near-infrared fluorescent calcium ion indicator. Nature Methods, 2019, 16, 171-174.	19.0	154
18	Kilohertz frame-rate two-photon tomography. Nature Methods, 2019, 16, 778-786.	19.0	122

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19	NikR-operator complex structure and the mechanism of repressor activation by metal ions. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13676-13681.	7.1	117
20	Neural signatures of dynamic stimulus selection in Drosophila. Nature Neuroscience, 2017, 20, 1104-1113.	14.8	113
21	Improved methods for marking active neuron populations. Nature Communications, 2018, 9, 4440.	12.8	110
22	Common genetic variation at the IL1RL1 locus regulates IL-33/ST2 signaling. Journal of Clinical Investigation, 2013, 123, 4208-4218.	8.2	101
23	Role of Thioredoxin in Cell Growth Through Interactions with Signaling Molecules. Antioxidants and Redox Signaling, 2006, 8, 2143-2151.	5.4	100
24	A genetically encoded, highâ€signalâ€toâ€noise maltose sensor. Proteins: Structure, Function and Bioinformatics, 2011, 79, 3025-3036.	2.6	96
25	The HaloTag as a general scaffold for far-red tunable chemigenetic indicators. Nature Chemical Biology, 2021, 17, 718-723.	8.0	86
26	A genetically encoded Ca2+ indicator based on circularly permutated sea anemone red fluorescent protein eqFP578. BMC Biology, 2018, 16, 9.	3.8	83
27	A Neuron-Based Screening Platform for Optimizing Genetically-Encoded Calcium Indicators. PLoS ONE, 2013, 8, e77728.	2.5	66
28	Structure of the Escherichia coli Phosphonate Binding Protein PhnD and Rationally Optimized Phosphonate Biosensors. Journal of Molecular Biology, 2011, 414, 356-369.	4.2	60
29	Neural activity imaging with genetically encoded calcium indicators. Progress in Brain Research, 2012, 196, 79-94.	1.4	58
30	Structural Basis of the Metal Specificity for Nickel Regulatory Protein NikR,. Biochemistry, 2008, 47, 1938-1946.	2.5	54
31	S-Nitrosylation-induced Conformational Change in Blackfin Tuna Myoglobin. Journal of Biological Chemistry, 2007, 282, 19773-19780.	3.4	53
32	A Low Affinity GCaMP3 Variant (GCaMPer) for Imaging the Endoplasmic Reticulum Calcium Store. PLoS ONE, 2015, 10, e0139273.	2.5	51
33	jYCaMP: an optimized calcium indicator for two-photon imaging at fiber laser wavelengths. Nature Methods, 2020, 17, 694-697.	19.0	45
34	Allâ€optical functional synaptic connectivity mapping in acute brain slices using the calcium integrator CaMPARI. Journal of Physiology, 2017, 595, 1465-1477.	2.9	42
35	The heparin-binding domain of HB-EGF mediates localization to sites of cell-cell contact and prevents HB-EGF proteolytic release. Journal of Cell Science, 2010, 123, 2308-2318.	2.0	40
36	A Room-Temperature Molten Salt Prepared from AuCl3and 1-Ethyl-3-methylimidazolium Chloride. Inorganic Chemistry, 1999, 38, 3935-3937.	4.0	36

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37	A general approach to engineer positive-going eFRET voltage indicators. Nature Communications, 2020, 11, 3444.	12.8	31
38	The structure, molecular dynamics, and energetics of centrinâ€“melittin complex. Proteins: Structure, Function and Bioinformatics, 2011, 79, 3132-3143.	2.6	29
39	Structural Basis of Low-Affinity Nickel Binding to the Nickel-Responsive Transcription Factor NikR from Escherichia coli. Biochemistry, 2010, 49, 7830-7838.	2.5	24
40	Freeze-frame imaging of synaptic activity using SynTagMA. Nature Communications, 2020, 11, 2464.	12.8	19
41	Erasable labeling of neuronal activity using a reversible calcium marker. ELife, 2020, 9, .	6.0	18
42	Green-to-Red Photoconversion of GCaMP. PLoS ONE, 2015, 10, e0138127.	2.5	17
43	Design and Synthesis of a Calciumâ€Sensitive Photocage. Angewandte Chemie - International Edition, 2016, 55, 8363-8366.	13.8	13
44	Inverse-response Ca2+ indicators for optogenetic visualization of neuronal inhibition. Scientific Reports, 2018, 8, 11758.	3.3	8
45	Crystallization and preliminary X-ray characterization of the genetically encoded fluorescent calcium indicator protein GCaMP2. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 629-631.	0.7	7
46	Structure of fully liganded Hb Î¶2Î²2strapped in a tense conformation. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 2061-2071.	2.5	5
47	Structural basis for the antipolymer activity of HbÎ¶2Î²s2trapped in a tense conformation. Journal of Molecular Structure, 2015, 1099, 99-107.	3.6	3
48	Design and Synthesis of a Calciumâ€Sensitive Photocage. Angewandte Chemie, 2016, 128, 8503-8506.	2.0	2
49	Freeze-Frame Imaging of Synaptic Activity Using SynTagMA. SSRN Electronic Journal, 0, , .	0.4	1
50	Structural and Enzymatic Analysis of Orf6, a Novel Dehydratase from a Deepâ€Sea Polyunsaturated Fatty Acid Synthase. FASEB Journal, 2010, 24, lb193.	0.5	0