

Steven S Vogel

List of Publications by Year in descending order

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54
papers

5,036
citations

186265

28
h-index

161849

54
g-index

57
all docs

57
docs citations

57
times ranked

6312
citing authors

#	ARTICLE	IF	CITATIONS
1	Concurrent activation of striatal direct and indirect pathways during action initiation. <i>Nature</i> , 2013, 494, 238-242.	27.8	1,008
2	Defective membrane repair in dysferlin-deficient muscular dystrophy. <i>Nature</i> , 2003, 423, 168-172.	27.8	869
3	FRET as a biomolecular research tool – understanding its potential while avoiding pitfalls. <i>Nature Methods</i> , 2019, 16, 815-829.	19.0	354
4	Fanciful FRET. <i>Science Signaling</i> , 2006, 2006, re2-re2.	3.6	250
5	Cerulean, Venus, and VenusY67C FRET Reference Standards. <i>Biophysical Journal</i> , 2006, 91, L99-L101.	0.5	213
6	Measurement of FRET Efficiency and Ratio of Donor to Acceptor Concentration in Living Cells. <i>Biophysical Journal</i> , 2006, 91, L39-L41.	0.5	212
7	Lysolipids reversibly inhibit Ca ²⁺ , GTP- and pH-dependent fusion of biological membranes. <i>FEBS Letters</i> , 1993, 318, 71-76.	2.8	181
8	Quantitative Multiphoton Spectral Imaging and Its Use for Measuring Resonance Energy Transfer. <i>Biophysical Journal</i> , 2005, 89, 2736-2749.	0.5	171
9	The endomembrane requirement for cell surface repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4592-4597.	7.1	139
10	Deep brain optical measurements of cell type-specific neural activity in behaving mice. <i>Nature Protocols</i> , 2014, 9, 1213-1228.	12.0	115
11	Analysis of pancreatic development in living transgenic zebrafish embryos. <i>Molecular and Cellular Endocrinology</i> , 2001, 177, 117-124.	3.2	111
12	Dysferlin stabilizes stress-induced Ca ²⁺ signaling in the transverse tubule membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20831-20836.	7.1	104
13	Direct membrane retrieval into large vesicles after exocytosis in sea urchin eggs. <i>Journal of Cell Biology</i> , 1995, 131, 1183-1192.	5.2	84
14	Concurrent expression of recombination activating genes 1 and 2 in zebrafish olfactory sensory neurons. <i>Genesis</i> , 2001, 29, 156-162.	1.6	76
15	Structural rearrangement of CaMKII α catalytic domains encodes activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6369-6374.	7.1	72
16	Anomalous Surplus Energy Transfer Observed with Multiple FRET Acceptors. <i>PLoS ONE</i> , 2009, 4, e8031.	2.5	65
17	Exocytotic Insertion of Calcium Channels Constrains Compensatory Endocytosis to Sites of Exocytosis. <i>Journal of Cell Biology</i> , 2000, 148, 755-768.	5.2	61
18	The Impact of Heterogeneity and Dark Acceptor States on FRET: Implications for Using Fluorescent Protein Donors and Acceptors. <i>PLoS ONE</i> , 2012, 7, e49593.	2.5	60

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19	Estimating the distance separating fluorescent protein FRET pairs. <i>Methods</i> , 2014, 66, 131-138.	3.8	60
20	Energy migration alters the fluorescence lifetime of Cerulean: implications for fluorescence lifetime imaging Forster resonance energy transfer measurements. <i>Journal of Biomedical Optics</i> , 2008, 13, 031204.	2.6	59
21	Proteins on exocytic vesicles mediate calcium-triggered fusion.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 4749-4753.	7.1	54
22	Submaximal Responses in Calcium-triggered Exocytosis Are Explained by Differences in the Calcium Sensitivity of Individual Secretory Vesicles. <i>Journal of General Physiology</i> , 1998, 112, 559-567.	1.9	53
23	Calcium influx is required for endocytotic membrane retrieval. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 5019-5024.	7.1	48
24	Poisson-distributed active fusion complexes underlie the control of the rate and extent of exocytosis by calcium.. <i>Journal of Cell Biology</i> , 1996, 134, 329-338.	5.2	47
25	Photophysical properties of Cerulean and Venus fluorescent proteins. <i>Journal of Biomedical Optics</i> , 2009, 14, 034047.	2.6	46
26	Fluorescence Polarization and Fluctuation Analysis Monitors Subunit Proximity, Stoichiometry, and Protein Complex Hydrodynamics. <i>PLoS ONE</i> , 2012, 7, e38209.	2.5	46
27	Membrane wounding triggers ATP release and dysferlin-mediated intercellular calcium signaling. <i>Journal of Cell Science</i> , 2010, 123, 1884-1893.	2.0	44
28	The Sea Urchin Cortical Reaction.. <i>Annals of the New York Academy of Sciences</i> , 1991, 635, 35-44.	3.8	29
29	A Kinetic Analysis of Calcium-Triggered Exocytosis. <i>Journal of General Physiology</i> , 2001, 118, 145-156.	1.9	29
30	Sea urchin egg preparations as systems for the study of calcium-triggered exocytosis. <i>Journal of Physiology</i> , 1999, 520, 15-21.	2.9	26
31	Quantitative linear unmixing of CFP and YFP from spectral images acquired with two-photon excitation. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2006, 69A, 904-911.	1.5	26
32	Photobleaching of YFP does not produce a CFP-like species that affects FRET measurements. <i>Nature Methods</i> , 2006, 3, 491-491.	19.0	25
33	Reconstitution of Calcium-triggered Membrane Fusion Using α -Reserve-Granules. <i>Journal of Biological Chemistry</i> , 1998, 273, 2445-2451.	3.4	23
34	Zinc-Induced Polymerization of Killer-Cell Ig-like Receptor into Filaments Promotes Its Inhibitory Function at Cytotoxic Immunological Synapses. <i>Molecular Cell</i> , 2016, 62, 21-33.	9.7	23
35	Using Caged Calcium to Study Sea Urchin Egg Cortical Granule Exocytosis in Vitro. <i>Methods</i> , 1994, 6, 82-92.	3.8	20
36	Two independent forms of endocytosis maintain embryonic cell surface homeostasis during early development. <i>Developmental Biology</i> , 2008, 316, 135-148.	2.0	20

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37	Size, stoichiometry, and organization of soluble LC3-associated complexes. <i>Autophagy</i> , 2014, 10, 861-877.	9.1	19
38	Low pH Inhibits Compensatory Endocytosis at a Step Between Depolarization and Calcium Influx. <i>Traffic</i> , 2002, 3, 397-406.	2.7	18
39	Covert Changes in CaMKII Holoenzyme Structure Identified for Activation and Subsequent Interactions. <i>Biophysical Journal</i> , 2015, 108, 2158-2170.	0.5	17
40	Characterization of synaptophysin and G proteins in synaptic vesicles and plasma membrane of <i>Aplysia californica</i> . <i>Brain Research</i> , 1990, 508, 265-272.	2.2	16
41	Deciphering CaMKII Multimerization Using Fluorescence Correlation Spectroscopy and Homo-FRET Analysis. <i>Biophysical Journal</i> , 2017, 112, 1270-1281.	0.5	16
42	G proteins in <i>Aplysia</i> : biochemical characterization and regional and subcellular distribution. <i>Brain Research</i> , 1989, 478, 281-292.	2.2	15
43	The Calcium Sensitivity of Individual Secretory Vesicles Is Invariant with the Rate of Calcium Delivery. <i>Journal of General Physiology</i> , 1998, 112, 569-576.	1.9	14
44	A Single Amino Acid Change in Inhibitory Killer Cell Ig-like Receptor Results in Constitutive Receptor Self-Association and Phosphorylation. <i>Journal of Immunology</i> , 2015, 194, 817-826.	0.8	13
45	VenusA206 Dimers Behave Coherently at Room Temperature. <i>Biophysical Journal</i> , 2019, 116, 1918-1930.	0.5	10
46	Plasma Membrane Resident 'Fusion Complexes' Mediate Reconstituted Exocytosis. <i>Traffic</i> , 2001, 2, 654-667.	2.7	8
47	FRET 65: A Celebration of Förster. <i>Journal of Biomedical Optics</i> , 2012, 17, 011001.	2.6	8
48	A Guide to Fluorescence Lifetime Microscopy and Förster's Resonance Energy Transfer in Neuroscience. <i>Current Protocols in Neuroscience</i> , 2020, 94, e108.	2.6	8
49	Application of a membrane fusion assay for rapid drug screening. <i>Pharmaceutical Research</i> , 1995, 12, 1417-1422.	3.5	7
50	An increase in surface area is not required for cell division in early sea urchin development. <i>Developmental Biology</i> , 2003, 259, 62-70.	2.0	7
51	Channeling Calcium: A Shared Mechanism for Exocytosis-Endocytosis Coupling. <i>Science Signaling</i> , 2009, 2, pe80.	3.6	7
52	Auto-FPFA: An Automated Microscope for Characterizing Genetically Encoded Biosensors. <i>Scientific Reports</i> , 2018, 8, 7374.	3.3	5
53	Chapter 8 Spectral imaging and its use in the measurement of Förster resonance energy transfer in living cells. <i>Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work</i> , 2009, 33, 351-394.	0.2	4
54	An Introduction to Interpreting Time Resolved Fluorescence Anisotropy Curves. <i>Springer Series in Chemical Physics</i> , 2015, , 385-406.	0.2	2