Erik Lee Snapp

List of Publications by Year
in descending order

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79 papers	6,762 citations	76326 40 h-index	85541 71 g-index
83 all docs	83 docs citations	83 times ranked	9343 citing authors

#	Article	IF	Citations
1	Studying protein dynamics in living cells. Nature Reviews Molecular Cell Biology, 2001, 2, 444-456.	37.0	1,112
2	Formation of stacked ER cisternae by low affinity protein interactions. Journal of Cell Biology, 2003, 163, 257-269.	5.2	420
3	Allosteric Inhibition of the IRE1Î± RNase Preserves Cell Viability and Function during Endoplasmic Reticulum Stress. Cell, 2014, 158, 534-548.	28.9	384
4	Membrane Protein Transport between the Endoplasmic Reticulum and the Golgi in Tobacco Leaves Is Energy Dependent but Cytoskeleton Independent. Plant Cell, 2002, 14, 1293-1309.	6.6	303
5	Endoplasmic Reticulum Export Sites and Golgi Bodies Behave as Single Mobile Secretory Units in Plant Cells[W]. Plant Cell, 2004, 16, 1753-1771.	6.6	258
6	Dynamics and retention of misfolded proteins in native ER membranes. Nature Cell Biology, 2000, 2, 288-295.	10.3	251
7	Evolutionarily conserved gene family important for fat storage. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 94-99.	7.1	222
8	A palette of fluorescent proteins optimized for diverse cellular environments. Nature Communications, 2015, 6, 7670.	12.8	219
9	Stable Binding of ATF6 to BiP in the Endoplasmic Reticulum Stress Response. Molecular and Cellular Biology, 2005, 25, 921-932.	2.3	194
10	Endoplasmic reticulum architecture: structures in flux. Current Opinion in Cell Biology, 2006, 18, 358-364.	5.4	188
11	Assessing the Tendency of Fluorescent Proteins to Oligomerize Under Physiologic Conditions. Traffic, 2012, 13, 643-649.	2.7	171
12	Fluorescent proteins: a cell biologist's user guide. Trends in Cell Biology, 2009, 19, 649-655.	7.9	142
13	A sphingolipid-dependent diffusion barrier confines ER stress to the yeast mother cell. ELife, 2014, 3, e01883.	6.0	134
14	Design and Use of Fluorescent Fusion Proteins in Cell Biology. Current Protocols in Cell Biology, 2005, 27, 21.4.1-21.4.13.	2.3	122
15	LULL1 Retargets TorsinA to the Nuclear Envelope Revealing an Activity That Is Impaired by theDYT1Dystonia Mutation. Molecular Biology of the Cell, 2009, 20, 2661-2672.	2.1	117
16	Superfolder GFP Is Fluorescent in Oxidizing Environments When Targeted via the Sec Translocon. Traffic, 2011, 12, 543-548.	2.7	112
17	Golgi Inheritance in Mammalian Cells Is Mediated through Endoplasmic Reticulum Export Activities. Molecular Biology of the Cell, 2006, 17, 990-1005.	2.1	108
18	Endoplasmic reticulum polymers impair luminal protein mobility and sensitize to cellular stress in alpha₁â€antitrypsin deficiency. Hepatology, 2013, 57, 2049-2060.	7.3	108

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19	Formation and Toxicity of Soluble Polyglutamine Oligomers in Living Cells. PLoS ONE, 2010, 5, e15245.	2.5	108
20	The Fusome Mediates Intercellular Endoplasmic Reticulum Connectivity in Drosophila Ovarian Cysts. Molecular Biology of the Cell, 2004, 15, 4512-4521.	2.1	106
21	Monitoring chaperone engagement of substrates in the endoplasmic reticulum of live cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6536-6541.	7.1	105
22	Measuring Protein Mobility by Photobleaching GFP Chimeras in Living Cells. Current Protocols in Cell Biology, 2003, 19, Unit 21.1.	2.3	103
23	Regulation of Protein Compartmentalization Expands the Diversity of Protein Function. Developmental Cell, 2005, 9, 545-554.	7.0	103
24	Sec24p and Sec16p cooperate to regulate the GTP cycle of the COPII coat. EMBO Journal, 2012, 31, 1014-1027.	7.8	88
25	Evolutionary Gain of Function for the ER Membrane Protein Sec62 from Yeast to Humans. Molecular Biology of the Cell, 2010, 21, 691-703.	2.1	85
26	Kar2p availability defines distinct forms of endoplasmic reticulum stress in living cells. Molecular Biology of the Cell, 2012, 23, 955-964.	2.1	82
27	The organization of engaged and quiescent translocons in the endoplasmic reticulum of mammalian cells. Journal of Cell Biology, 2004, 164, 997-1007.	5.2	79
28	Maturation of BRI2 generates a specific inhibitor that reduces APP processing at the plasma membrane and in endocytic vesicles. Neurobiology of Aging, 2011, 32, 1400-1408.	3.1	79
29	Proinsulin Intermolecular Interactions during Secretory Trafficking in Pancreatic Î² Cells. Journal of Biological Chemistry, 2013, 288, 1896-1906.	3.4	77
30	ERdj4 Protein Is a Soluble Endoplasmic Reticulum (ER) DnaJ Family Protein That Interacts with ER-associated Degradation Machinery. Journal of Biological Chemistry, 2012, 287, 7969-7978.	3.4	70
31	BiP Availability Distinguishes States of Homeostasis and Stress in the Endoplasmic Reticulum of Living Cells. Molecular Biology of the Cell, 2010, 21, 1909-1921.	2.1	64
32	An essential role for ATP binding and hydrolysis in the chaperone activity of GRP94 in cells. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11600-11605.	7.1	61
33	Active translocon complexes labeled with GFPâ€“Dad1 diffuse slowly as large polysome arrays in the endoplasmic reticulum. Journal of Cell Biology, 2002, 158, 497-506.	5.2	58
34	The Development and Enhancement of FRAP as a Key Tool for Investigating Protein Dynamics. Biophysical Journal, 2018, 115, 1146-1155.	0.5	53
35	Structural Insights into Triglyceride Storage Mediated by Fat Storage-Inducing Transmembrane (FIT) Protein 2. PLoS ONE, 2010, 5, e10796.	2.5	52
36	Static retention of the lumenal monotopic membrane protein torsinA in the endoplasmic reticulum. EMBO Journal, 2011, 30, 3217-3231.	7.8	51

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37	Fluorescent Proteins in Cellular Organelles: Serious Pitfalls and Some Solutions. DNA and Cell Biology, 2013, 32, 622-627.	1.9	48
38	Changes in BiP availability reveal hypersensitivity to acute endoplasmic reticulum stress in cells expressing mutant huntingtin. Journal of Cell Science, 2011, 124, 3332-3343.	2.0	47
39	Alcohol Disrupts Endoplasmic Reticulum Function and Protein Secretion in Hepatocytes. Alcoholism: Clinical and Experimental Research, 2012, 36, 14-23.	2.4	47
40	Cytoskeletal Association Is Important for Differential Targeting of Glucose Transporter Isoforms in Leishmania. Journal of Cell Biology, 1997, 139, 1775-1783.	5.2	44
41	A New Transferrin Receptor Aptamer Inhibits New World Hemorrhagic Fever Mammarenavirus Entry. Molecular Therapy - Nucleic Acids, 2016, 5, e321.	5.1	41
42	Structure and topology around the cleavage site regulate post-translational cleavage of the HIV-1 gp160 signal peptide. ELife, 2017, 6, .	6.0	41
43	ERdj3 Regulates BiP Occupancy in Living Cells. Journal of Cell Science, 2013, 126, 1429-39.	2.0	39
44	Trans-endocytosis of intact IL-15RÎ±â€“IL-15 complex from presenting cells into NK cells favors signaling for proliferation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 522-531.	7.1	38
45	Connexin Type and Fluorescent Protein Fusion Tag Determine Structural Stability of Gap Junction Plaques. Journal of Biological Chemistry, 2015, 290, 23497-23514.	3.4	32
46	Glycan-independent Role of Calnexin in the Intracellular Retention of Charcot-Marie-Tooth 1A Gas3/PMP22 Mutants. Journal of Biological Chemistry, 2005, 280, 2378-2387.	3.4	31
47	Characterization of a Targeting Motif for a Flagellar Membrane Protein in Leishmania enriettii. Journal of Biological Chemistry, 1999, 274, 29543-29548.	3.4	30
48	Traffic of p24 Proteins and COPII Coat Composition Mutually Influence Membrane Scaffolding. Current Biology, 2015, 25, 1296-1305.	3.9	29
49	Rational Design and Evaluation of FRET Experiments to Measure Protein Proximities in Cells. Current Protocols in Cell Biology, 2006, 32, Unit 17.9.	2.3	26
50	BiP Modulates the Affinity of Its Co-chaperone ERj1 for Ribosomes. Journal of Biological Chemistry, 2010, 285, 36427-36433.	3.4	26
51	An in vitro compartmentalizationâ€based method for the selection of bondâ€forming enzymes from large libraries. Biotechnology and Bioengineering, 2016, 113, 1647-1657.	3.3	26
52	Interleukin 2 modulates thymic-derived regulatory T cell epigenetic landscape. Nature Communications, 2018, 9, 5368.	12.8	26
53	Biochemical and Cellular Analysis of Human Variants of the DYT1 Dystonia Protein, TorsinA/TOR1A. Human Mutation, 2014, 35, 1101-1113.	2.5	25
54	Cysteineless non-glycosylated monomeric blue fluorescent protein, secBFP2, for studies in the eukaryotic secretory pathway. Biochemical and Biophysical Research Communications, 2013, 430, 1114-1119.	2.1	18

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55	Mechanism of Collapse of Endoplasmic Reticulum Cisternae During African Swine Fever Virus Infection. Traffic, 2012, 13, 30-42.	2.7	17
56	Unfolded Protein Responses With or Without Unfolded Proteins?. Cells, 2012, 1, 926-950.	4.1	15
57	Probing Endoplasmic Reticulum Dynamics using Fluorescence Imaging and Photobleaching Techniques. Current Protocols in Cell Biology, 2013, 60, Unit 21.7..	2.3	15
58	Sizeâ€dependent secretory protein reflux into the cytosol in association with acute endoplasmic reticulum stress. Traffic, 2020, 21, 419-429.	2.7	13
59	Going Viral with Fluorescent Proteins. Journal of Virology, 2015, 89, 9706-9708.	3.4	12
60	moxDendra2: an inert photoswitchable protein for oxidizing environments. Chemical Communications, 2017, 53, 2106-2109.	4.1	12
61	moxMaple3: a Photoswitchable Fluorescent Protein for PALM and Protein Highlighting in Oxidizing Cellular Environments. Scientific Reports, 2018, 8, 14738.	3.3	12
62	Approaches to imaging unfolded secretory protein stress in living cells. Endoplasmic Reticulum Stress in Diseases, 2014, 1, 27-39.	0.2	11
63	Photobleaching Regions of Living Cells to Monitor Membrane Traffic. Cold Spring Harbor Protocols, 2011, 2011, pdb.prot066563-pdb.prot066563.	0.3	8
64	Endoplasmic Reticulum Biogenesis. , 2005, , 63-95.		7
65	Imaging of Membrane Systems and Membrane Traffic in Living Cells. Cold Spring Harbor Protocols, 2011, 2011, pdb.top066548-pdb.top066548.	0.3	5
66	Photobleaching Methods to Study Golgi Complex Dynamics in Living Cells. Methods in Cell Biology, 2013, 118, 195-216.	1.1	5
67	Engineering and exploitation of a fluorescent HIV-1 gp120 for live cell CD4 binding assays. Virology, 2015, 476, 240-248.	2.4	5
68	Time-Lapse Imaging of Membrane Traffic in Living Cells. Cold Spring Harbor Protocols, 2011, 2011, pdb.prot066555.	0.3	4
69	Activating Photoactivatable Proteins with Laser Light to Visualize Membrane Systems and Membrane Traffic in Living Cells. Cold Spring Harbor Protocols, 2011, 2011, pdb.prot066571.	0.3	4
70	How to design a chalk talkâ€”the million dollar sales pitch. Molecular Biology of the Cell, 2019, 30, 1575-1577.	2.1	3
71	Detecting Soluble PolyQ Oligomers and Investigating Their Impact on Living Cells Using Split-GFP. Methods in Molecular Biology, 2013, 1017, 229-239.	0.9	3
72	Imaging the Alphavirus Exit Pathway. Microscopy and Microanalysis, 2015, 21, 409-410.	0.4	1

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73	Changes in BiP availability reveal hypersensitivity to acute endoplasmic reticulum stress in cells expressing mutant huntingtin. Journal of Cell Science, 2012, 125, 789-789.	2.0	0
74	Human Liver Cell Trafficking Mutants: Characterization and Whole Exome Sequencing. PLoS ONE, 2014, 9, e87043.	2.5	0
75	Imaging of Organelle Membrane Systems and Membrane Traffic in Living Cells. Cold Spring Harbor Protocols, 2006, 2006, pdb.prot4603-pdb.prot4603.	0.3	0
76	Membrane Trafficking and Organelle Reagents. Cold Spring Harbor Protocols, 2006, 2006, pdb.ip23-pdb.ip23.	0.3	0
77	Expression and regulation of ERp57 in hepatocellular carcinoma. FASEB Journal, 2008, 22, 826.2.	0.5	0
78	FRAP and Other Photobleaching Methods. , 2005, , 605-609.		0
79	Imaging Cellular Proteins and Structures: Smaller, Brighter, and Faster. , 0, , 1053-1066.		0