

Sanford M Simon

List of Publications by Year in descending order

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135
papers

12,826
citations

38742

50
h-index

24258

110
g-index

155
all docs

155
docs citations

155
times ranked

13852
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term multiple color imaging of live cells using quantum dot bioconjugates. <i>Nature Biotechnology</i> , 2003, 21, 47-51.	17.5	1,928
2	Tracking metastatic tumor cell extravasation with quantum dot nanocrystals and fluorescence emission-scanning microscopy. <i>Nature Medicine</i> , 2004, 10, 993-998.	30.7	669
3	A protein-conducting channel in the endoplasmic reticulum. <i>Cell</i> , 1991, 65, 371-380.	28.9	612
4	Synthesis of Compact Multidentate Ligands to Prepare Stable Hydrophilic Quantum Dot Fluorophores. <i>Journal of the American Chemical Society</i> , 2005, 127, 3870-3878.	13.7	534
5	Potentials and pitfalls of fluorescent quantum dots for biological imaging. <i>Trends in Cell Biology</i> , 2004, 14, 497-504.	7.9	497
6	Detection of a Recurrent <i>DNAJB1-PRKACA</i> Chimeric Transcript in Fibrolamellar Hepatocellular Carcinoma. <i>Science</i> , 2014, 343, 1010-1014.	12.6	388
7	Membrane proximal lysosomes are the major vesicles responsible for calcium-dependent exocytosis in nonsecretory cells. <i>Journal of Cell Biology</i> , 2002, 159, 625-635.	5.2	328
8	Use of quantum dots for live cell imaging. <i>Nature Methods</i> , 2004, 1, 73-78.	19.0	314
9	Imaging with total internal reflection fluorescence microscopy for the cell biologist. <i>Journal of Cell Science</i> , 2010, 123, 3621-3628.	2.0	306
10	Plasma Membrane Is the Site of Productive HIV-1 Particle Assembly. <i>PLoS Biology</i> , 2006, 4, e435.	5.6	299
11	Imaging the biogenesis of individual HIV-1 virions in live cells. <i>Nature</i> , 2008, 454, 236-240.	27.8	290
12	Defective Acidification in Human Breast Tumor Cells and Implications for Chemotherapy. <i>Journal of Experimental Medicine</i> , 1998, 187, 1583-1598.	8.5	256
13	Tracking Single Proteins within Cells. <i>Biophysical Journal</i> , 2000, 79, 2188-2198.	0.5	248
14	Defective pH Regulation of Acidic Compartments in Human Breast Cancer Cells (MCF-7) Is Normalized in Adriamycin-Resistant Cells (MCF-7adr). <i>Biochemistry</i> , 1996, 35, 2811-2817.	2.5	245
15	Imaging the interaction of HIV-1 genomes and Gag during assembly of individual viral particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19114-19119.	7.1	233
16	Signal peptides open protein-conducting channels in <i>E. coli</i> . <i>Cell</i> , 1992, 69, 677-684.	28.9	224
17	Three-dimensional analysis of post-Golgi carrier exocytosis in epithelial cells. <i>Nature Cell Biology</i> , 2003, 5, 126-136.	10.3	215
18	Dynamics of ESCRT protein recruitment during retroviral assembly. <i>Nature Cell Biology</i> , 2011, 13, 394-401.	10.3	198

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19	<i>Staphylococcus aureus</i> RN6390 Replicates and Induces Apoptosis in a Pulmonary Epithelial Cell Line. <i>Infection and Immunity</i> , 2000, 68, 5385-5392.	2.2	189
20	Imaging Constitutive Exocytosis with Total Internal Reflection Fluorescence Microscopy. <i>Journal of Cell Biology</i> , 2000, 149, 23-32.	5.2	187
21	Receptor-mediated glutamate release from volume sensitive channels in astrocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16466-16471.	7.1	186
22	A quantitative rotational model for studying serotonergic function in the rat. <i>Brain Research</i> , 1977, 124, 271-281.	2.2	180
23	S100A11 is required for efficient plasma membrane repair and survival of invasive cancer cells. <i>Nature Communications</i> , 2014, 5, 3795.	12.8	175
24	Subcellular Localization and Activity of Multidrug Resistance Proteins. <i>Molecular Biology of the Cell</i> , 2003, 14, 3389-3399.	2.1	167
25	Real-time analysis of clathrin-mediated endocytosis during cell migration. <i>Journal of Cell Science</i> , 2003, 116, 847-855.	2.0	156
26	Imaging single membrane fusion events mediated by SNARE proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7311-7316.	7.1	155
27	Migrating fibroblasts perform polarized, microtubule-dependent exocytosis towards the leading edge. <i>Journal of Cell Science</i> , 2003, 116, 4513-4519.	2.0	139
28	Biogenesis of Polytopic Membrane Proteins: Membrane Segments Assemble within Translocation Channels prior to Membrane Integration. <i>Cell</i> , 1996, 85, 379-389.	28.9	132
29	<i>DNAJB1</i> fusion kinase interacts with β -catenin and the liver regenerative response to drive fibrolamellar hepatocellular carcinoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13076-13084.	7.1	125
30	Imaging single events at the cell membrane. , 2007, 3, 92-98.		121
31	Insulin-regulated Release from the Endosomal Recycling Compartment Is Regulated by Budding of Specialized Vesicles. <i>Molecular Biology of the Cell</i> , 2001, 12, 3489-3501.	2.1	119
32	Exocytosis of Post-Golgi Vesicles Is Regulated by Components of the Endocytic Machinery. <i>Cell</i> , 2009, 137, 1308-1319.	28.9	110
33	Transcriptomic characterization of fibrolamellar hepatocellular carcinoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5916-25.	7.1	103
34	An Aqueous Channel for Filamentous Phage Export. <i>Science</i> , 1999, 284, 1516-1519.	12.6	98
35	Synaptotagmin VII Restricts Fusion Pore Expansion during Lysosomal Exocytosis. <i>PLoS Biology</i> , 2004, 2, e233.	5.6	98
36	Endocytic trafficking of activated EGFR is AP-2 dependent and occurs through preformed clathrin spots. <i>Journal of Cell Science</i> , 2009, 122, 1301-1305.	2.0	94

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37	Temporal and spatial organization of ESCRT protein recruitment during HIV-1 budding. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12211-12216.	7.1	93
38	Resolving vesicle fusion from lysis to monitor calcium-triggered lysosomal exocytosis in astrocytes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14151-14156.	7.1	83
39	Mapping the orientation of nuclear pore proteins in living cells with polarized fluorescence microscopy. Nature Structural and Molecular Biology, 2011, 18, 643-649.	8.2	81
40	Understanding Living Clathrin-Coated Pits. Traffic, 2004, 5, 327-337.	2.7	76
41	Visualizing HIV-1 Assembly. Journal of Molecular Biology, 2011, 410, 501-511.	4.2	73
42	Simulations of nuclear pore transport yield mechanistic insights and quantitative predictions. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E351-8.	7.1	71
43	A Mechanism for Tamoxifen-mediated Inhibition of Acidification. Journal of Biological Chemistry, 1999, 274, 18364-18373.	3.4	69
44	Understanding Living Clathrin-Coated Pits. Traffic, 2004, 5, 327-337.	2.7	68
45	Role of Microtubules in Fusion of Post-Golgi Vesicles to the Plasma Membrane. Molecular Biology of the Cell, 2003, 14, 1558-1569.	2.1	66
46	Timing of ESCRT-III protein recruitment and membrane scission during HIV-1 assembly. ELife, 2018, 7, .	6.0	64
47	The AP-2 Complex Is Excluded from the Dynamic Population of Plasma Membrane-associated Clathrin. Journal of Biological Chemistry, 2003, 278, 47357-47360.	3.4	61
48	Stem cell-derived polarized hepatocytes. Nature Communications, 2020, 11, 1677.	12.8	60
49	Role of organelle pH in tumor cell biology and drug resistance. Drug Discovery Today, 1999, 4, 32-38.	6.4	59
50	Dynamics of clathrin and adaptor proteins during endocytosis. American Journal of Physiology - Cell Physiology, 2006, 291, C1072-C1081.	4.6	59
51	The genomic landscape of fibrolamellar hepatocellular carcinoma: whole genome sequencing of ten patients. Oncotarget, 2015, 6, 755-770.	1.8	59
52	Patients with a Non-dysferlin Miyoshi Myopathy have a Novel Membrane Repair Defect. Traffic, 2007, 8, 77-88.	2.7	56
53	Fluorescence Anisotropy Reveals Order and Disorder of Protein Domains in the Nuclear Pore Complex. Biophysical Journal, 2010, 99, 1706-1717.	0.5	54
54	In Situ Biochemical Demonstration That P-Glycoprotein Is a Drug Efflux Pump with Broad Specificity. Journal of Cell Biology, 2000, 148, 863-870.	5.2	50

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55	Movement of Plasma-Membrane-Associated Clathrin Spots Along the Microtubule Cytoskeleton. <i>Traffic</i> , 2003, 4, 460-467.	2.7	48
56	Fibrolamellar carcinoma in the Carney complex: PRKAR1A loss instead of the classic DNAJB1-PRKACA fusion. <i>Hepatology</i> , 2018, 68, 1441-1447.	7.3	48
57	Fibrolamellar Carcinoma: Recent Advances and Unresolved Questions on the Molecular Mechanisms. <i>Seminars in Liver Disease</i> , 2018, 38, 051-059.	3.6	46
58	Analysis of the AP-2 Adaptor Complex and Cargo During Clathrin-Mediated Endocytosis. <i>Traffic</i> , 2005, 6, 539-547.	2.7	45
59	Dynamic Interaction of HIV-1 Nef with the Clathrin-Mediated Endocytic Pathway at the Plasma Membrane. <i>Traffic</i> , 2007, 8, 61-76.	2.7	44
60	Spatial and Temporal Dynamics of Mitochondrial Membrane Permeability Waves during Apoptosis. <i>Biophysical Journal</i> , 2009, 97, 2222-2231.	0.5	44
61	A Human Organoid Model of Aggressive Hepatoblastoma for Disease Modeling and Drug Testing. <i>Cancers</i> , 2020, 12, 2668.	3.7	37
62	Biogenesis of Polytopic Membrane Proteins: Membrane Segments of P-glycoprotein Sequentially Translocate To Span the ER Membrane. <i>Biochemistry</i> , 1996, 35, 10587-10594.	2.5	36
63	Video abstracts and plain language summaries are more effective than graphical abstracts and published abstracts. <i>PLoS ONE</i> , 2019, 14, e0224697.	2.5	36
64	Injured astrocytes are repaired by Synaptotagmin XI-regulated lysosome exocytosis. <i>Cell Death and Differentiation</i> , 2016, 23, 596-607.	11.2	34
65	The Conserved Isoleucine-Valine-Phenylalanine Motif Couples Activation State and Endocytic Functions of β -Arrestins. <i>Traffic</i> , 2007, 8, 914-931.	2.7	33
66	Conserved Spatial Organization of FG Domains in the Nuclear Pore Complex. <i>Biophysical Journal</i> , 2013, 104, 37-50.	0.5	31
67	APP intracellular domain-“WAVE1 pathway reduces amyloid- β production. <i>Nature Medicine</i> , 2015, 21, 1054-1059.	30.7	31
68	Translocation of proteins across the endoplasmic reticulum. <i>Current Opinion in Cell Biology</i> , 1993, 5, 581-588.	5.4	30
69	Determinism and divergence of apoptosis susceptibility in mammalian cells. <i>Journal of Cell Science</i> , 2009, 122, 4296-4302.	2.0	29
70	Dynamics of Dynamin during Clathrin Mediated Endocytosis in PC12 Cells. <i>PLoS ONE</i> , 2008, 3, e2416.	2.5	29
71	Studying Individual Events in Biology. <i>Annual Review of Biochemistry</i> , 2007, 76, 419-446.	11.1	28
72	Differential Regulation of Lipoprotein and Hepatitis C Virus Secretion by Rab1b. <i>Cell Reports</i> , 2017, 21, 431-441.	6.4	28

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73	In vivo analysis of human multidrug resistance protein 1 (MRP1) activity using transient expression of fluorescently tagged MRP1. <i>Cancer Research</i> , 2002, 62, 391-6.	0.9	28
74	Total Internal Reflection Fluorescence (TIRF) Microscopy Illuminator for Improved Imaging of Cell Surface Events. <i>Current Protocols in Cytometry</i> , 2012, 61, Unit 12.29.	3.7	27
75	Structures of the PKA RIÎ± Holoenzyme with the FLHCC Driver J-PKAcÎ± or Wild-Type PKAcÎ±. <i>Structure</i> , 2019, 27, 816-828.e4.	3.3	27
76	Identification of Novel Therapeutic Targets for Fibrolamellar Carcinoma Using Patient-Derived Xenografts and Direct-from-Patient Screening. <i>Cancer Discovery</i> , 2021, 11, 2544-2563.	9.4	27
77	Imaging Single Endocytic Events Reveals Diversity in Clathrin, Dynamin and Vesicle Dynamics. <i>Traffic</i> , 2011, 12, 1394-1406.	2.7	26
78	Polarization-Controlled TIRFM with Focal Drift and Spatial Field Intensity Correction. <i>Biophysical Journal</i> , 2014, 106, 1008-1019.	0.5	26
79	Partial internal reflections on total internal reflection fluorescent microscopy. <i>Trends in Cell Biology</i> , 2009, 19, 661-668.	7.9	24
80	Non coding RNA analysis in fibrolamellar hepatocellular carcinoma. <i>Oncotarget</i> , 2018, 9, 10211-10227.	1.8	24
81	Conformational Landscape of the PRKACA-DNAJB1 Chimeric Kinase, the Driver for Fibrolamellar Hepatocellular Carcinoma. <i>Scientific Reports</i> , 2018, 8, 720.	3.3	23
82	Structural analyses of the PKA RIÎ² holoenzyme containing the oncogenic DnajB1-PKAc fusion protein reveal protomer asymmetry and fusion-induced allosteric perturbations in fibrolamellar hepatocellular carcinoma. <i>PLoS Biology</i> , 2020, 18, e3001018.	5.6	22
83	A Functional GFP Fusion for Imaging Clathrinâ€Mediated Endocytosis. <i>Traffic</i> , 2008, 9, 1250-1255.	2.7	21
84	Defective internal allosteric network imparts dysfunctional ATP/substrate-binding cooperativity in oncogenic chimera of protein kinase A. <i>Communications Biology</i> , 2021, 4, 321.	4.4	21
85	Dynamics of clathrin-mediated endocytosis and its requirement for organelle biogenesis in <i>Dictyostelium</i> . <i>Journal of Cell Science</i> , 2012, 125, 5721-5732.	2.0	20
86	Real-time fluorescence imaging with 20â€nm axial resolution. <i>Nature Communications</i> , 2015, 6, 8307.	12.8	20
87	Conformation of the nuclear pore in living cells is modulated by transport state. <i>ELife</i> , 2020, 9, .	6.0	19
88	Glycosylation Affects the Rate of Traffic of the Shaker Potassium Channel through the Secretory Pathway. <i>Biochemistry</i> , 2002, 41, 11351-11361.	2.5	18
89	Quantum dot-based sensor for improved detection of apoptotic cells. <i>Nanomedicine</i> , 2007, 2, 71-78.	3.3	18
90	Mechanisms of Translocation of Proteins across Membranes. <i>Sub-Cellular Biochemistry</i> , 1993, 21, 1-15.	2.4	17

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91	Characterization of constitutive exocytosis in the yeast <i>Saccharomyces cerevisiae</i> . <i>Journal of Membrane Biology</i> , 1991, 123, 261-268.	2.1	16
92	The Amino Terminus of Opsin Translocates Posttranslationally as Efficiently as Cotranslationally. <i>Biochemistry</i> , 2002, 41, 7707-7715.	2.5	16
93	Ca ²⁺ transients in melanocyte dendrites and dendritic spine-like structures evoked by cell-to-cell signaling. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	13
94	<i>Escherichia coli</i> as a platform for the study of phosphoinositide biology. <i>Science Advances</i> , 2019, 5, eaat4872.	10.3	12
95	Morphologic and Molecular Findings in Myxoid Hepatic Adenomas. <i>American Journal of Surgical Pathology</i> , 2021, 45, 1098-1107.	3.7	12
96	Readily Accessible Multiplexed Microscopy: 3D Tracking the HIV-1 Genome in Living Cells. <i>Traffic</i> , 2016, 17, 179-186.	2.7	11
97	Modeling the dynamics and kinetics of HIV-1 Gag during viral assembly. <i>PLoS ONE</i> , 2018, 13, e0196133.	2.5	11
98	Total Internal Reflection Fluorescence Microscopy for High-Resolution Imaging of Cell Surface Events. <i>Current Protocols in Cell Biology</i> , 2003, 20, Unit 4.12.	2.3	10
99	Recruitment of 7SL RNA to assembling HIV-1 virus-like particles. <i>Traffic</i> , 2018, 19, 36-43.	2.7	10
100	Green fluorescent protein-tagged apolipoprotein E: A useful marker for the study of hepatic lipoprotein egress. <i>Traffic</i> , 2017, 18, 192-204.	2.7	9
101	Sequencing the peripheral blood B and T cell repertoire – Quantifying robustness and limitations. <i>Journal of Immunological Methods</i> , 2018, 463, 137-147.	1.4	9
102	Enter the 'swinging gate'. <i>Nature</i> , 1994, 371, 103-104.	27.8	8
103	Co-translational Targeting and Translocation of the Amino Terminus of Opsin across the Endoplasmic Membrane Requires GTP but Not ATP. <i>Journal of Biological Chemistry</i> , 2003, 278, 7920-7926.	3.4	8
104	Optical Monitoring of Single Cells Using Quantum Dots. , 2007, 374, 93-104.		8
105	A coarse-grained computational model of the nuclear pore complex predicts Phe-Gly nucleoporin dynamics. <i>Journal of General Physiology</i> , 2017, 149, 951-966.	1.9	8
106	RetroCHMP3 blocks budding of enveloped viruses without blocking cytokinesis. <i>Cell</i> , 2021, 184, 5419-5431.e16.	28.9	8
107	Human liver organoids for disease modeling of fibrolamellar carcinoma. <i>Stem Cell Reports</i> , 2022, , .	4.8	8
108	Endogenous Antibodies for Tumor Detection. <i>Scientific Reports</i> , 2014, 4, 5088.	3.3	7

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109	Imaging Live Cells Using Quantum Dots. Cold Spring Harbor Protocols, 2015, 2015, pdb.top086322.	0.3	7
110	An Award for Cell Biology. Journal of Cell Biology, 1999, 147, 1-2.	5.2	6
111	Signal Sequence Cleavage of Peptidyl-tRNA Prior to Release from the Ribosome and Translocon. Journal of Biological Chemistry, 2004, 279, 24919-24922.	3.4	6
112	Golgi Governance: The Third Way. Cell, 2008, 133, 951-953.	28.9	4
113	Intracranial metastasis in fibrolamellar hepatocellular carcinoma. Pediatric Blood and Cancer, 2018, 65, e26919.	1.5	4
114	Grant Blobel (1936-2018). Nature, 2018, 556, 32-32.	27.8	3
115	Cellular probes on the move. Nature Biotechnology, 1996, 14, 1221-1221.	17.5	2
116	The Multiple Mechanisms of Multidrug Resistance and Cellular pH. Novartis Foundation Symposium, 2008, 240, 269-289.	1.1	2
117	Viral Houseguests Undertake Interior Redesign. Cell, 2010, 141, 754-756.	28.9	2
118	Belling the Cat-Tagging Live Cells with Quantum Dots. Clinical Chemistry, 2013, 59, 995-996.	3.2	2
119	Translocation of Macromolecules across Membranes and Through Aqueous Channels. , 2002, , 37-66.		2
120	Use of fluorescent quantum dots for studying live cells and organisms (Invited Paper). , 2005, , .		1
121	Protein Domain Organization in the Nuclear Pore Complex Studied by Fluorescence Anisotropy. Biophysical Journal, 2011, 100, 139a-140a.	0.5	0
122	Grant Blobel (1936-2018). Cell, 2018, 173, 278-280.	28.9	0
123	Microscope Enclosure for Temperature Regulation and Light Isolation. Applied Sciences (Switzerland), 2021, 11, 6812.	2.5	0
124	Title is missing!. , 2020, 18, e3001018.		0
125	Title is missing!. , 2020, 18, e3001018.		0
126	Title is missing!. , 2020, 18, e3001018.		0

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127	Title is missing!. , 2020, 18, e3001018.		0
128	Title is missing!. , 2020, 18, e3001018.		0
129	Title is missing!. , 2020, 18, e3001018.		0
130	Title is missing!. , 2019, 14, e0224697.		0
131	Title is missing!. , 2019, 14, e0224697.		0
132	Title is missing!. , 2019, 14, e0224697.		0
133	Title is missing!. , 2019, 14, e0224697.		0
134	Title is missing!. , 2019, 14, e0224697.		0
135	Title is missing!. , 2019, 14, e0224697.		0