Joel A Swanson

List of Publications by Year
in descending order

121 papers	14,511 citations	22099 59 h-index	20900 115 g-index
135 all docs	135 docs citations	135 times ranked	14202 citing authors

#	Article	IF	Citations
1	Drug delivery strategy utilizing conjugation via reversible disulfide linkages: role and site of cellular reducing activities. Advanced Drug Delivery Reviews, 2003, 55, 199-215.	6.6	1,270
2	A role for phosphoinositide 3-kinase in the completion of macropinocytosis and phagocytosis by macrophages.. Journal of Cell Biology, 1996, 135, 1249-1260.	2.3	851
3	Shaping cups into phagosomes and macropinosomes. Nature Reviews Molecular Cell Biology, 2008, 9, 639-649.	16.1	787
4	Macropinocytosis. Trends in Cell Biology, 1995, 5, 424-428.	3.6	702
5	Salmonella typhimurium activates virulence gene transcription within acidified macrophage phagosomes.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 10079-10083.	3.3	438
6	pH-dependent regulation of lysosomal calcium in macrophages. Journal of Cell Science, 2002, 115, 599-607.	1.2	426
7	Detection of prokaryotic mRNA signifies microbial viability and promotes immunity. Nature, 2011, 474, 385-389.	13.7	378
8	pH-dependent regulation of lysosomal calcium in macrophages. Journal of Cell Science, 2002, 115, 599-607.	1.2	342
9	Salmonella stimulate macrophage macropinocytosis and persist within spacious phagosomes.. Journal of Experimental Medicine, 1994, 179, 601-608.	4.2	336
10	Fluorescence Resonance Energy Transfer-Based Stoichiometry in Living Cells. Biophysical Journal, 2002, 83, 3652-3664.	0.2	327
11	Macropinosome maturation and fusion with tubular lysosomes in macrophages.. Journal of Cell Biology, 1993, 121, 1011-1020.	2.3	313
12	Cdc42, Rac1, and Rac2 Display Distinct Patterns of Activation during Phagocytosis. Molecular Biology of the Cell, 2004, 15, 3509-3519.	0.9	312
13	Phagocytosis by zippers and triggers. Trends in Cell Biology, 1995, 5, 89-93.	3.6	279
14	The endocytic activity of dendritic cells.. Journal of Experimental Medicine, 1995, 182, 283-288.	4.2	270
15	Phorbol esters and horseradish peroxidase stimulate pinocytosis and redirect the flow of pinocytosed fluid in macrophages.. Journal of Cell Biology, 1985, 100, 851-859.	2.3	269
16	Radial extension of macrophage tubular lysosomes supported by kinesin. Nature, 1990, 346, 864-866.	13.7	262
17	The coordination of signaling during Fc receptor-mediated phagocytosis. Journal of Leukocyte Biology, 2004, 76, 1093-1103.	1.5	260
18	Tubular lysosome morphology and distribution within macrophages depend on the integrity of cytoplasmic microtubules.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 1921-1925.	3.3	258

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19	The Listeria monocytogenes hemolysin has an acidic pH optimum to compartmentalize activity and prevent damage to infected host cells. Journal of Cell Biology, 2002, 156, 1029-1038.	2.3	244
20	pH-dependent Perforation of Macrophage Phagosomes by Listeriolysin O from Listeria monocytogenes. Journal of Experimental Medicine, 1997, 186, 1159-1163.	4.2	227
21	Bnip3 Mediates the Hypoxia-induced Inhibition on Mammalian Target of Rapamycin by Interacting with Rheb. Journal of Biological Chemistry, 2007, 282, 35803-35813.	1.6	224
22	Macrophage colony-stimulating factor (rM-CSF) stimulates pinocytosis in bone marrow-derived macrophages.. Journal of Experimental Medicine, 1989, 170, 1635-1648.	4.2	217
23	Early Bacillus anthracis-macrophage interactions: intracellular survival and escape. Cellular Microbiology, 2000, 2, 453-463.	1.1	213
24	Phosphoinositide-3-kinase-independent contractile activities associated with FcÎ³-receptor-mediated phagocytosis and macropinocytosis in macrophages. Journal of Cell Science, 2003, 116, 247-257.	1.2	185
25	Transcellular delivery of vesicular SOCS proteins from macrophages to epithelial cells blunts inflammatory signaling. Journal of Experimental Medicine, 2015, 212, 729-742.	4.2	172
26	Macrophages possess probenecid-inhibitable organic anion transporters that remove fluorescent dyes from the cytoplasmic matrix.. Journal of Cell Biology, 1987, 105, 2695-2702.	2.3	167
27	Sequential signaling in plasma-membrane domains during macropinosome formation in macrophages. Journal of Cell Science, 2009, 122, 3250-3261.	1.2	155
28	The uniformity of phagosome maturation in macrophages. Journal of Cell Biology, 2004, 164, 185-194.	2.3	152
29	Membrane perforations inhibit lysosome fusion by altering pH and calcium in Listeria monocytogenes vacuoles. Cellular Microbiology, 2006, 8, 781-792.	1.1	148
30	Local and spatially coordinated movements in Dictyostelium discoideum amoebae during chemotaxis. Cell, 1982, 28, 225-232.	13.5	137
31	Cell Membrane Orientation Visualized by Polarized Total Internal Reflection Fluorescence. Biophysical Journal, 1999, 77, 2266-2283.	0.2	133
32	Dynamics of Cytoskeletal Proteins during FcÎ³ Receptor-mediated Phagocytosis in Macrophages. Molecular Biology of the Cell, 2002, 13, 402-411.	0.9	133
33	Kinesin-1 structural organization and conformational changes revealed by FRET stoichiometry in live cells. Journal of Cell Biology, 2007, 176, 51-63.	2.3	133
34	Molecular size-fractionation during endocytosis in macrophages.. Journal of Cell Biology, 1995, 129, 989-998.	2.3	131
35	Different fates of phagocytosed particles after delivery into macrophage lysosomes.. Journal of Cell Biology, 1996, 132, 585-593.	2.3	124
36	Tubular lysosomes accompany stimulated pinocytosis in macrophages.. Journal of Cell Biology, 1987, 104, 1217-1222.	2.3	119

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37	Cytolysin-dependent delay of vacuole maturation in macrophages infected with Listeria monocytogenes. Cellular Microbiology, 2006, 8, 107-119.	1.1	117
38	A Phosphatidylinositol-3-Kinase-Dependent Signal Transition Regulates ARF1 and ARF6 during FcÎ³ Receptor-Mediated Phagocytosis. PLoS Biology, 2006, 4, e162.	2.6	109
39	Localized Reactive Oxygen and Nitrogen Intermediates Inhibit Escape of<i>Listeria monocytogenes</i>from Vacuoles in Activated Macrophages. Journal of Immunology, 2003, 171, 5447-5453.	0.4	106
40	Delivery of Macromolecules into Cytosol Using Liposomes Containing Hemolysin from Listeria monocytogenes. Journal of Biological Chemistry, 1996, 271, 7249-7252.	1.6	102
41	Proteolytic activation of receptor-bound anthrax protective antigen on macrophages promotes its internalization. Cellular Microbiology, 2000, 2, 251-258.	1.1	100
42	A Cdc42 Activation Cycle Coordinated by PI 3-Kinase during Fc Receptor-mediated Phagocytosis. Molecular Biology of the Cell, 2010, 21, 470-480.	0.9	99
43	A membrane cytoskeleton from Dictyostelium discoideum. I. Identification and partial characterization of an actin-binding activity.. Journal of Cell Biology, 1981, 88, 396-409.	2.3	98
44	Coordination of Fc receptor signaling regulates cellular commitment to phagocytosis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19332-19337.	3.3	93
45	Ratiometric and Fluorescence-Lifetime-Based Biosensors Incorporating CytochromecÂâ€˜and the Detection of Extra- and Intracellular Macrophage Nitric Oxide. Analytical Chemistry, 1999, 71, 1767-1772.	3.2	87
46	Growth factor signaling to mTORC1 by amino acidâ€“laden macropinosomes. Journal of Cell Biology, 2015, 211, 159-172.	2.3	84
47	The role of the activated macrophage in clearing Listeria monocytogenes infection. Frontiers in Bioscience - Landmark, 2007, 12, 2683.	3.0	84
48	Macropinocytosis, mTORC1 and cellular growth control. Cellular and Molecular Life Sciences, 2018, 75, 1227-1239.	2.4	83
49	Fine structure of the zoospore ofUlothrix belkae with emphasis on the flagellar apparatus. Protoplasma, 1980, 104, 17-31.	1.0	80
50	Chapter 9 Fluorescent Labeling of Endocytic Compartments. Methods in Cell Biology, 1988, 29, 137-151.	0.5	77
51	Differential Association of Phosphatidylinositol 3-Kinase, SHIP-1, and PTEN with Forming Phagosomes. Molecular Biology of the Cell, 2007, 18, 2463-2472.	0.9	76
52	A growth factor signaling cascade confined to circular ruffles in macrophages. Biology Open, 2012, 1, 754-760.	0.6	75
53	Fc-receptor-mediated phagocytosis occurs in macrophages without an increase in average [Ca++]i.. Journal of Cell Biology, 1986, 102, 1586-1592.	2.3	71
54	Parkinsonâ€™s disease-risk protein TMEM175 is a proton-activated proton channel in lysosomes. Cell, 2022, 185, 2292-2308.e20.	13.5	69

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55	Nuclear reassembly excludes large macromolecules. Science, 1987, 238, 548-550.	6.0	68
56	Determination of the physical environment within the Chlamydia trachomatis inclusion using ion-selective ratiometric probes. Cellular Microbiology, 2002, 4, 273-283.	1.1	68
57	<i>Cryptococcus neoformansâ€“</i>Induced Macrophage Lysosome Damage Crucially Contributes to Fungal Virulence. Journal of Immunology, 2015, 194, 2219-2231.	0.4	68
58	A prelysosomal compartment sequesters membrane-impermeant fluorescent dyes from the cytoplasmic matrix of J774 macrophages.. Journal of Cell Biology, 1988, 107, 887-896.	2.3	67
59	Mechanisms and modulation of microvesicle uptake in a model of alveolar cell communication. Journal of Biological Chemistry, 2017, 292, 20897-20910.	1.6	64
60	Abundance, relative gelation activity, and distribution of the 95,000-dalton actin-binding protein from Dictyostelium discoideum.. Journal of Cell Biology, 1983, 97, 178-185.	2.3	61
61	A FRET analysis to unravel the role of cholesterol in Rac1 and PI 3-kinase activation in the InlB/Met signalling pathway. Cellular Microbiology, 2007, 9, 790-803.	1.1	61
62	Cellular dimensions affecting the nucleocytoplasmic volume ratio.. Journal of Cell Biology, 1991, 115, 941-948.	2.3	60
63	<i>Listeria monocytogenes</i> exploits cystic fibrosis transmembrane conductance regulator (CFTR) to escape the phagosome. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1633-1638.	3.3	59
64	Differential signaling during macropinocytosis in response to M-CSF and PMA in macrophages. Frontiers in Physiology, 2015, 6, 8.	1.3	57
65	SHIP-1 Increases Early Oxidative Burst and Regulates Phagosome Maturation in Macrophages. Journal of Immunology, 2008, 180, 7497-7505.	0.4	53
66	The breadth of macropinocytosis research. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180146.	1.8	48
67	Phosphoinositides and engulfment. Cellular Microbiology, 2014, 16, 1473-1483.	1.1	45
68	Macropinocytosis drives T cell growth by sustaining the activation of mTORC1. Nature Communications, 2020, 11, 180.	5.8	45
69	Coordination of the Rab5 Cycle on Macropinosomes. Traffic, 2011, 12, 1911-1922.	1.3	44
70	Ruffles limit diffusion in the plasma membrane during macropinosome formation. Journal of Cell Science, 2011, 124, 4106-4114.	1.2	44
71	N-Way FRET Microscopy of Multiple Protein-Protein Interactions in Live Cells. PLoS ONE, 2013, 8, e64760.	1.1	44
72	Calcium spikes in activated macrophages during Fcgamma receptor-mediated phagocytosis. Journal of Leukocyte Biology, 2002, 72, 677-84.	1.5	41

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73	Three-Dimensional FRET Reconstruction Microscopy for Analysis of Dynamic Molecular Interactions in Live Cells. Biophysical Journal, 2008, 95, 400-418.	0.2	40
74	The efficiency of antigen delivery from macrophage phagosomes into cytoplasm for MHC class I-restricted antigen presentation. Vaccine, 1997, 15, 511-518.	1.7	39
75	Protection from Anthrax Toxin-Mediated Killing of Macrophages by the Combined Effects of Furin Inhibitors and Chloroquine. Antimicrobial Agents and Chemotherapy, 2005, 49, 3875-3882.	1.4	37
76	CXCL12-induced macropinocytosis modulates two distinct pathways to activate mTORC1 in macrophages. Journal of Leukocyte Biology, 2017, 101, 683-692.	1.5	37
77	ULTRASTRUCTURE OF THE BIFLAGELLATE MOTILE CELLS OF ULVARIA OXYSPERMA (KÃœTZ.) BLIDING AND PHYLOGENETIC RELATIONSHIPS AMONG ULVAPHYCEAN ALGAE. American Journal of Botany, 1982, 69, 150-159.	0.8	35
78	Loss of PTEN promotes formation of signaling-capable clathrin-coated pits. Journal of Cell Science, 2018, 131, .	1.2	34
79	Effect of alterations in the size of the vacuolar compartment on pinocytosis in J774.2 macrophages. Journal of Cellular Physiology, 1986, 128, 195-201.	2.0	33
80	Macropinosomes as units of signal transduction. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180157.	1.8	33
81	Technical Advance: caspase-1 activation and IL-1Î² release correlate with the degree of lysosome damage, as illustrated by a novel imaging method to quantify phagolysosome damage. Journal of Leukocyte Biology, 2010, 88, 813-822.	1.5	31
82	Microtubules can modulate pseudopod activity from a distance inside macrophages. , 1996, 34, 230-245.		30
83	The role of the activated macrophage in clearing Listeria monocytogenes nbsp infection. Frontiers in Bioscience - Landmark, 2007, 12, 2683-2692.	3.0	28
84	Live cell fluorescence microscopy to study microbial pathogenesis. Cellular Microbiology, 2009, 11, 540-550.	1.1	28
85	Inducible Renitence Limits <i>Listeria monocytogenes</i> Escape from Vacuoles in Macrophages. Journal of Immunology, 2012, 189, 4488-4495.	0.4	28
86	Host cell perforation by listeriolysin O (LLO) activates a Ca²⁺-dependent cPKC/Rac1/Arp2/3 signaling pathway that promotes<i>Listeria monocytogenes</i>internalization independently of membrane resealing. Molecular Biology of the Cell, 2018, 29, 270-284.	0.9	26
87	Actin and Phosphoinositide Recruitment to Fully Formed <i>Candida albicans </i>Phagosomes in Mouse Macrophages. Journal of Innate Immunity, 2009, 1, 244-253.	1.8	25
88	Dorsal ruffles enhance activation of Akt by growth factors. Journal of Cell Science, 2018, 131, .	1.2	23
89	Coated vesicles in Dictyostelium discoideum. Journal of Ultrastructure Research, 1981, 75, 243-249.	1.4	21
90	CRISPR knockout screen implicates three genes in lysosome function. Scientific Reports, 2019, 9, 9609.	1.6	21

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91	Ultrastructure of the flagellar apparatus of the green algaTetraselmis subcordiformis. Protoplasma, 1981, 107, 1-11.	1.0	20
92	Localization of protein kinase C ? to macrophage vacuoles perforated by Listeria monocytogenes cytolysin. Cellular Microbiology, 2007, 9, 1695-1704.	1.1	20
93	Measurement of phagosome-lysosome fusion and phagosomal pH. Methods in Enzymology, 1994, 236, 147-160.	0.4	19
94	Acid phosphatase in Asteromonas gracilis (Chlorophyceae, Volvocales): a biochemical and cytochemical characterization. Phycologia, 1979, 18, 362-368.	0.6	18
95	The structural dynamics of macropinosome formation and PI3-kinase-mediated sealing revealed by lattice light sheet microscopy. Nature Communications, 2021, 12, 4838.	5.8	18
96	Reverse Engineering the Intracellular Self-Assembly of a Functional Mechanopharmaceutical Device. Scientific Reports, 2018, 8, 2934.	1.6	16
97	ULTRASTRUCTURE OF THE BIFLAGELLATE MOTILE CELLS OF ULVARIA OXYSPERMA (KÃœTZ.) BLIDING AND PHYLOGENETIC RELATIONSHIPS AMONG ULVAPHYCEAN ALGAE. , 1982, 69, 150.		16
98	Two-photon imaging of multiple fluorescent proteins by phase-shaping and linear unmixing with a single broadband laser. Optics Express, 2013, 21, 17256.	1.7	15
99	Transient Increase in Cyclic AMP Localized to Macrophage Phagosomes. PLoS ONE, 2010, 5, e13962.	1.1	11
100	1 Ratiometric fluorescence microscopy. Methods in Microbiology, 2002, 31, 1-18.	0.4	10
101	Adapter Protein SH2-BÎ² Stimulates Actin-Based Motility of Listeria monocytogenes in a Vasodilator-Stimulated Phosphoprotein (VASP)-Dependent Fashion. Infection and Immunity, 2007, 75, 3581-3593.	1.0	10
102	Renitence vacuoles facilitate protection against phagolysosomal damage in activated macrophages. Molecular Biology of the Cell, 2018, 29, 657-668.	0.9	10
103	Fine Structure of the Zoospores and Thallus of Blidingia minima. Transactions of the American Microscopical Society, 1978, 97, 549.	0.3	8
104	Effects of Macromolecular Crowding on Nuclear Size. Experimental Cell Research, 1995, 218, 114-122.	1.2	8
105	Pulse-shaping based two-photon FRET stoichiometry. Optics Express, 2015, 23, 3353.	1.7	8
106	Alveolar macrophageâ€derived extracellular vesicles inhibit endosomal fusion of influenza virus. EMBO Journal, 2020, 39, e105057.	3.5	7
107	Pure thoughts with impure proteins: Permeabilized cell models of organelle motility. BioEssays, 1993, 15, 715-722.	1.2	6
108	The extraordinary phagosome. Nature, 2002, 418, 286-287.	13.7	5

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109	High Cholesterol at the Heart of Phagolysosomal Damage. Cell Metabolism, 2018, 27, 487-488.	7.2	4
110	Roles for 3â€™ Phosphoinositides in Macropinocytosis. Sub-Cellular Biochemistry, 2022, 98, 119-141.	1.0	4
111	The noodle defense. Journal of Cell Biology, 2013, 203, 871-873.	2.3	3
112	Amino acids suppress macropinocytosis and promote release of CSF1 receptor in macrophages. Journal of Cell Science, 2022, 135, .	1.2	3
113	Pathways through the macrophage vacuolar compartment. Advances in Cellular and Molecular Biology of Membranes and Organelles, 1999, , 267-284.	0.3	2
114	Pulse shaping multiphoton FRET microscopy. , 2012, 8226, .		2
115	Macrophage inflammatory state influences susceptibility to lysosomal damage. Journal of Leukocyte Biology, 2022, 111, 629-639.	1.5	2
116	Three-dimensional FRET microscopy. , 2006, , .		1
117	Pinocytic Flow through Macrophages. , 1988, , 15-27.		1
118	Signaling for Phagocytosis. , 2014, , 193-P2.		0
119	Two-photon Fluorescence Resonance Energy Transfer Stoichiometry in Living Cells. , 2014, , .		0
120	Transcellular delivery of vesicular SOCS proteins from macrophages to epithelial cells blunts inflammatory signaling. Journal of Cell Biology, 2015, 209, 2091OIA65.	2.3	0
121	Macropinocytosis. , 2022, , .		0