

Matthew L Steinhauser

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

6,456
citations

201674

27
h-index

168389

53
g-index

56
all docs

56
docs citations

56
times ranked

10766
citing authors

#	ARTICLE	IF	CITATIONS
1	Mammalian heart renewal by pre-existing cardiomyocytes. <i>Nature</i> , 2013, 493, 433-436.	27.8	1,182
2	Braveheart, a Long Noncoding RNA Required for Cardiovascular Lineage Commitment. <i>Cell</i> , 2013, 152, 570-583.	28.9	839
3	Growth Differentiation Factor 11 Is a Circulating Factor that Reverses Age-Related Cardiac Hypertrophy. <i>Cell</i> , 2013, 153, 828-839.	28.9	791
4	Amino Acids Rather than Glucose Account for the Majority of Cell Mass in Proliferating Mammalian Cells. <i>Developmental Cell</i> , 2016, 36, 540-549.	7.0	479
5	Bone Marrow-Derived Cell Therapy Stimulates Endogenous Cardiomyocyte Progenitors and Promotes Cardiac Repair. <i>Cell Stem Cell</i> , 2011, 8, 389-398.	11.1	365
6	Interleukin-33 Prevents Apoptosis and Improves Survival After Experimental Myocardial Infarction Through ST2 Signaling. <i>Circulation: Heart Failure</i> , 2009, 2, 684-691.	3.9	306
7	Multi-isotope imaging mass spectrometry quantifies stem cell division and metabolism. <i>Nature</i> , 2012, 481, 516-519.	27.8	274
8	Chronic Airway Hyperreactivity, Goblet Cell Hyperplasia, and Peribronchial Fibrosis during Allergic Airway Disease Induced by <i>Aspergillus fumigatus</i> . <i>American Journal of Pathology</i> , 2000, 156, 723-732.	3.8	173
9	FGF21 and the late adaptive response to starvation in humans. <i>Journal of Clinical Investigation</i> , 2015, 125, 4601-4611.	8.2	161
10	Loss of White Adipose Hyperplastic Potential Is Associated with Enhanced Susceptibility to Insulin Resistance. <i>Cell Metabolism</i> , 2014, 20, 1049-1058.	16.2	157
11	Exercise induces new cardiomyocyte generation in the adult mammalian heart. <i>Nature Communications</i> , 2018, 9, 1659.	12.8	134
12	Regeneration of the heart. <i>EMBO Molecular Medicine</i> , 2011, 3, 701-712.	6.9	129
13	Exaggerated Hepatic Injury Due to Acetaminophen Challenge in Mice Lacking C-C Chemokine Receptor 2. <i>American Journal of Pathology</i> , 2000, 156, 1245-1252.	3.8	128
14	Novel roles for chemokines and fibroblasts in interstitial fibrosis. <i>Kidney International</i> , 1998, 54, 2152-2159.	5.2	116
15	Multiethnic genome-wide meta-analysis of ectopic fat depots identifies loci associated with adipocyte development and differentiation. <i>Nature Genetics</i> , 2017, 49, 125-130.	21.4	116
16	Novel CXCR2-dependent liver regenerative qualities of ELR-containing CXC chemokines. <i>FASEB Journal</i> , 1999, 13, 1565-1574.	0.5	110
17	The circulating metabolome of human starvation. <i>JCI Insight</i> , 2018, 3, .	5.0	92
18	An Engineered Bivalent Neuregulin Protects Against Doxorubicin-Induced Cardiotoxicity With Reduced Proneoplastic Potential. <i>Circulation</i> , 2013, 128, 152-161.	1.6	84

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19	Yap regulates glucose utilization and sustains nucleotide synthesis to enable organ growth. <i>EMBO Journal</i> , 2018, 37, .	7.8	73
20	Control of cytokinesis by β -adrenergic receptors indicates an approach for regulating cardiomyocyte endowment. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	73
21	Imaging mass spectrometry demonstrates age-related decline in human adipose plasticity. <i>JCI Insight</i> , 2017, 2, e90349.	5.0	66
22	Quantitative imaging of subcellular metabolism with stable isotopes and multi-isotope imaging mass spectrometry. <i>Seminars in Cell and Developmental Biology</i> , 2013, 24, 661-667.	5.0	58
23	Macrophage/fibroblast coculture induces macrophage inflammatory protein-1 α production mediated by intercellular adhesion molecule-1 and oxygen radicals. <i>Journal of Leukocyte Biology</i> , 1998, 64, 636-641.	3.3	46
24	Therapeutic Effects of Nitric Oxide Inhibition during Experimental Fecal Peritonitis: Role of Interleukin-10 and Monocyte Chemoattractant Protein 1. <i>Infection and Immunity</i> , 1998, 66, 650-655.	2.2	43
25	A low resistance microfluidic system for the creation of stable concentration gradients in a defined 3D microenvironment. <i>Biomedical Microdevices</i> , 2010, 12, 1027-1041.	2.8	40
26	Pulse-Chase Proteomics of the App Knockin Mouse Models of Alzheimer's Disease Reveals that Synaptic Dysfunction Originates in Presynaptic Terminals. <i>Cell Systems</i> , 2021, 12, 141-158.e9.	6.2	32
27	Fetal alcohol spectrum disorder predisposes to metabolic abnormalities in adulthood. <i>Journal of Clinical Investigation</i> , 2020, 130, 2252-2269.	8.2	31
28	Novel Protective Effects of Stem Cell Factor in a Murine Model of Acute Septic Peritonitis. <i>American Journal of Pathology</i> , 2000, 157, 1177-1186.	3.8	28
29	Biological explorations with nanoscale secondary ion mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1534-1545.	3.0	28
30	Prolonged fasting drives a program of metabolic inflammation in human adipose tissue. <i>Molecular Metabolism</i> , 2020, 42, 101082.	6.5	25
31	Amyloid- β Plaques in Clinical Alzheimer's Disease Brain Incorporate Stable Isotope Tracer In Vivo and Exhibit Nanoscale Heterogeneity. <i>Frontiers in Neurology</i> , 2018, 9, 169.	2.4	24
32	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
33	Targeting nuclear receptor NR4A1-dependent adipocyte progenitor quiescence promotes metabolic adaptation to obesity. <i>Journal of Clinical Investigation</i> , 2018, 128, 4898-4911.	8.2	23
34	Imaging mass spectrometry reveals heterogeneity of proliferation and metabolism in atherosclerosis. <i>JCI Insight</i> , 2019, 4, .	5.0	19
35	Single-cell RNA sequencing reveals metallothionein heterogeneity during hESC differentiation to definitive endoderm. <i>Stem Cell Research</i> , 2018, 28, 48-55.	0.7	18
36	Coupling APEX labeling to imaging mass spectrometry of single organelles reveals heterogeneity in lysosomal protein turnover. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	18

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37	Quantitative imaging of deuterated metabolic tracers in biological tissues with nanoscale secondary ion mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2017, 422, 42-50.	1.5	17
38	Imaging Mass Spectrometry Reveals Tumor Metabolic Heterogeneity. <i>IScience</i> , 2020, 23, 101355.	4.1	17
39	Aging Is a Powerful Risk Factor for Type 2 Diabetes Mellitus Independent of Body Mass Index. <i>Gerontology</i> , 2020, 66, 209-210.	2.8	13
40	Therapeutic Use of Chemokines. <i>Current Pharmaceutical Design</i> , 2000, 6, 651-663.	1.9	12
41	Cardiovascular Regeneration: Pushing and Pulling on Progenitors. <i>Cell Stem Cell</i> , 2009, 4, 277-278.	11.1	10
42	Quasi-simultaneous acquisition of nine secondary ions with seven detectors on NanoSIMS50L: application to biological samples. <i>Surface and Interface Analysis</i> , 2014, 46, 150-153.	1.8	9
43	Design and rationale of a clinical trial to increase cardiomyocyte division in infants with tetralogy of Fallot. <i>International Journal of Cardiology</i> , 2021, 339, 36-42.	1.7	9
44	New Frontiers in Cytokine Involvement during Experimental Sepsis. <i>ILAR Journal</i> , 1999, 40, 142-150.	1.8	8
45	Pericyte Progenitors at the Crossroads Between Fibrosis and Regeneration. <i>Circulation Research</i> , 2013, 112, 230-232.	4.5	8
46	Use of stable isotope-tagged thymidine and multi-isotope imaging mass spectrometry (MIMS) for quantification of human cardiomyocyte division. <i>Nature Protocols</i> , 2021, 16, 1995-2022.	12.0	8
47	Brain stem cell division and maintenance studied using multi-isotope imaging mass spectrometry (MIMS). <i>Surface and Interface Analysis</i> , 2014, 46, 140-143.	1.8	7
48	Approaches to increasing analytical throughput of human samples with multi-isotope imaging mass spectrometry. <i>Surface and Interface Analysis</i> , 2014, 46, 165-168.	1.8	7
49	Metabolic Analysis at the Nanoscale with Multi-isotope Imaging Mass Spectrometry (MIMS). <i>Current Protocols in Cell Biology</i> , 2020, 88, e111.	2.3	6
50	Risk stratification and management of aortic stenosis with concomitant left ventricular dysfunction. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2007, 9, 490-500.	0.9	4
51	Quantifying cell division with deuterated water and multi-isotope imaging mass spectrometry (MIMS). <i>Surface and Interface Analysis</i> , 2014, 46, 161-164.	1.8	4
52	A Cycle of Inflammatory Adipocyte Death and Regeneration in Murine Adipose Tissue. <i>Diabetes</i> , 2022, 71, 412-423.	0.6	4
53	High-Fidelity Quantification of Cell Cycle Activity with Multi-Isotope Imaging Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2021, 2158, 257-268.	0.9	2
54	Exploring Cell Turnover and Metabolism in Health and Disease with NanoSIMS. <i>Microscopy and Microanalysis</i> , 2020, 26, 2506-2506.	0.4	0