

# Makoto Suematsu

## List of Publications by Year in descending order

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457  
papers

28,137  
citations

5574

82  
h-index

8630

146  
g-index

472  
all docs

472  
docs citations

472  
times ranked

36650  
citing authors

#	ARTICLE	IF	CITATIONS
1	CD44 Variant Regulates Redox Status in Cancer Cells by Stabilizing the xCT Subunit of System xc <sup>+</sup> and Thereby Promotes Tumor Growth. <i>Cancer Cell</i> , 2011, 19, 387-400.	16.8	1,020
2	Distinct Metabolic Flow Enables Large-Scale Purification of Mouse and Human Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Cell Stem Cell</i> , 2013, 12, 127-137.	11.1	860
3	Regulation of the HIF-1 $\alpha$ Level Is Essential for Hematopoietic Stem Cells. <i>Cell Stem Cell</i> , 2010, 7, 391-402.	11.1	778
4	Reactive cysteine persulfides and S-polythiolation regulate oxidative stress and redox signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7606-7611.	7.1	757
5	A defined commensal consortium elicits CD8 T cells and anti-cancer immunity. <i>Nature</i> , 2019, 565, 600-605.	27.8	741
6	Regulation of Glycolysis by Pdk Functions as a Metabolic Checkpoint for Cell Cycle Quiescence in Hematopoietic Stem Cells. <i>Cell Stem Cell</i> , 2013, 12, 49-61.	11.1	659
7	Differential Metabolomics Reveals Ophthalmic Acid as an Oxidative Stress Biomarker Indicating Hepatic Glutathione Consumption*. <i>Journal of Biological Chemistry</i> , 2006, 281, 16768-16776.	3.4	640
8	Crosstalk between Glucocorticoid Receptor and Nutritional Sensor mTOR in Skeletal Muscle. <i>Cell Metabolism</i> , 2011, 13, 170-182.	16.2	410
9	Carbon monoxide: an endogenous modulator of sinusoidal tone in the perfused rat liver.. <i>Journal of Clinical Investigation</i> , 1995, 96, 2431-2437.	8.2	370
10	Induction of Heme Oxygenase-1 Suppresses Venular Leukocyte Adhesion Elicited by Oxidative Stress. <i>Circulation Research</i> , 1999, 85, 663-671.	4.5	345
11	Mitochondrial dysfunction associated with increased oxidative stress and $\alpha$ -synuclein accumulation in PARK2 iPSC-derived neurons and postmortem brain tissue. <i>Molecular Brain</i> , 2012, 5, 35.	2.6	333
12	Alternative splicing of CD44 mRNA by ESRP1 enhances lung colonization of metastatic cancer cell. <i>Nature Communications</i> , 2012, 3, 883.	12.8	324
13	Hypoxia-Sensitive Fluorescent Probes for <i>in Vivo</i> Real-Time Fluorescence Imaging of Acute Ischemia. <i>Journal of the American Chemical Society</i> , 2010, 132, 15846-15848.	13.7	321
14	The reconstituted $\alpha$ -humanized liver <sup>TM</sup> in TK-NOG mice is mature and functional. <i>Biochemical and Biophysical Research Communications</i> , 2011, 405, 405-410.	2.1	285
15	Peyer's patch is the essential site in initiating murine acute and lethal graft-versus-host reaction. <i>Nature Immunology</i> , 2003, 4, 154-160.	14.5	284
16	Hydrogen sulfide anion regulates redox signaling via electrophile sulfhydration. <i>Nature Chemical Biology</i> , 2012, 8, 714-724.	8.0	274
17	Stress-induced production of chemokines by hair follicles regulates the trafficking of dendritic cells in skin. <i>Nature Immunology</i> , 2012, 13, 744-752.	14.5	274
18	ERK and p38 MAPK, but not NF- $\kappa$ B, Are Critically Involved in Reactive Oxygen Species-Mediated Induction of IL-6 by Angiotensin II in Cardiac Fibroblasts. <i>Circulation Research</i> , 2001, 89, 661-669.	4.5	272

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19	Restoring metabolism of myeloid cells reverses cognitive decline in ageing. <i>Nature</i> , 2021, 590, 122-128.	27.8	264
20	Adrenocortical Zonation in Humans under Normal and Pathological Conditions. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, 2296-2305.	3.6	258
21	Distribution of heme oxygenase isoforms in rat liver. Topographic basis for carbon monoxide-mediated microvascular relaxation.. <i>Journal of Clinical Investigation</i> , 1998, 101, 604-612.	8.2	258
22	Novel bile acid biosynthetic pathways are enriched in the microbiome of centenarians. <i>Nature</i> , 2021, 599, 458-464.	27.8	251
23	Interactions of Multiple Gas-Transducing Systems: Hallmarks and Uncertainties of CO, NO, and H <sub>2</sub> S Gas Biology. <i>Antioxidants and Redox Signaling</i> , 2010, 13, 157-192.	5.4	250
24	Inflammation, But Not Telomere Length, Predicts Successful Ageing at Extreme Old Age: A Longitudinal Study of Semi-supercentenarians. <i>EBioMedicine</i> , 2015, 2, 1549-1558.	6.1	243
25	Xanthine oxidase activity associated with arterial blood pressure in spontaneously hypertensive rats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 4754-4759.	7.1	231
26	Hypoxic regulation of the cerebral microcirculation is mediated by a carbon monoxide-sensitive hydrogen sulfide pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1293-1298.	7.1	230
27	Senolysis by glutaminolysis inhibition ameliorates various age-associated disorders. <i>Science</i> , 2021, 371, 265-270.	12.6	222
28	Modulation of Glucose Metabolism by CD44 Contributes to Antioxidant Status and Drug Resistance in Cancer Cells. <i>Cancer Research</i> , 2012, 72, 1438-1448.	0.9	219
29	Serum metabolomics reveals $\hat{1}^3$ -glutamyl dipeptides as biomarkers for discrimination among different forms of liver disease. <i>Journal of Hepatology</i> , 2011, 55, 896-905.	3.7	217
30	Glutamine Oxidation Is Indispensable for Survival of Human Pluripotent Stem Cells. <i>Cell Metabolism</i> , 2016, 23, 663-674.	16.2	207
31	Pyruvate Kinase M2: Multiple Faces for Conferring Benefits on Cancer Cells. <i>Clinical Cancer Research</i> , 2012, 18, 5554-5561.	7.0	205
32	Reduced methylation of PFKFB3 in cancer cells shunts glucose towards the pentose phosphate pathway. <i>Nature Communications</i> , 2014, 5, 3480.	12.8	199
33	Cystathionine $\hat{1}^3$ -Lyase-deficient Mice Require Dietary Cysteine to Protect against Acute Lethal Myopathy and Oxidative Injury. <i>Journal of Biological Chemistry</i> , 2010, 285, 26358-26368.	3.4	198
34	Variant tricarboxylic acid cycle in <i>Mycobacterium tuberculosis</i> : Identification of $\hat{A}$ -ketoglutarate decarboxylase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10670-10675.	7.1	193
35	Characterization of the 17 strains of regulatory T cell-inducing human-derived <i>Clostridia</i> . <i>Gut Microbes</i> , 2014, 5, 333-339.	9.8	182
36	Chronic inflammation upregulates chemokine receptors and induces neutrophil migration to monocyte chemoattractant protein-1. <i>Journal of Clinical Investigation</i> , 1999, 103, 1269-1276.	8.2	171

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37	Carbon monoxide from heme catabolism protects against hepatobiliary dysfunction in endotoxin-treated rat liver. <i>Gastroenterology</i> , 2001, 120, 1227-1240.	1.3	165
38	Future of Rare Diseases Research 2017â€“2027: An IRDiRC Perspective. <i>Clinical and Translational Science</i> , 2018, 11, 21-27.	3.1	154
39	Haem-dependent dimerization of PGRMC1/Sigma-2 receptor facilitates cancer proliferation and chemoresistance. <i>Nature Communications</i> , 2016, 7, 11030.	12.8	153
40	Inhibition of Endothelial Nitric Oxide Synthase Activity by Protein Kinase C. <i>Hypertension</i> , 1995, 25, 180-185.	2.7	150
41	B cell-derived GABA elicits IL-10+ macrophages to limit anti-tumour immunity. <i>Nature</i> , 2021, 599, 471-476.	27.8	145
42	Carbon Monoxide as an Endogenous Modulator of Hepatic Vascular Perfusion. <i>Biochemical and Biophysical Research Communications</i> , 1994, 205, 1333-1337.	2.1	143
43	Autophagy regulates lipid metabolism through selective turnover of NCoR1. <i>Nature Communications</i> , 2019, 10, 1567.	12.8	143
44	MathDAMP: a package for differential analysis of metabolite profiles. <i>BMC Bioinformatics</i> , 2006, 7, 530.	2.6	142
45	Purified cardiomyocytes from bone marrow mesenchymal stem cells produce stable intracardiac grafts in mice. <i>Cardiovascular Research</i> , 2005, 65, 334-344.	3.8	132
46	The proton pumping pathway of bovine heart cytochrome c oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4200-4205.	7.1	132
47	Deep whole-genome sequencing reveals recent selection signatures linked to evolution and disease risk of Japanese. <i>Nature Communications</i> , 2018, 9, 1631.	12.8	132
48	Metabolic Remodeling Induced by Mitochondrial Aldehyde Stress Stimulates Tolerance to Oxidative Stress in the Heart. <i>Circulation Research</i> , 2009, 105, 1118-1127.	4.5	129
49	The Inflammatory Aspect of the Microcirculation in Hypertension: Oxidative Stress, Leukocytes/Endothelial Interaction, Apoptosis. <i>Microcirculation</i> , 2002, 9, 259-276.	1.8	128
50	4-Hydroxy-2-nonenal protects against cardiac ischemiaâ€“reperfusion injury via the Nrf2-dependent pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 576-586.	1.9	128
51	Visualization of Volatile Substances in Different Organelles with an Atmospheric-Pressure Mass Microscope. <i>Analytical Chemistry</i> , 2009, 81, 9153-9157.	6.5	127
52	The heme oxygenase-carbon monoxide system: a regulator of hepatobiliary function. <i>Hepatology</i> , 2000, 31, 3-6.	7.3	126
53	Active oxygen species generated by monocytes and polymorphonuclear cells in Crohn's disease. <i>Digestive Diseases and Sciences</i> , 1988, 33, 951-955.	2.3	123
54	Pioglitazone prevents alcohol-induced fatty liver in rats through up-regulation of c-Met. <i>Gastroenterology</i> , 2004, 126, 873-885.	1.3	123

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55	Sodium-glucose cotransporter 2 inhibition normalizes glucose metabolism and suppresses oxidative stress in the kidneys of diabetic mice. <i>Kidney International</i> , 2018, 94, 912-925.	5.2	123
56	The Histidine Transporter SLC15A4 Coordinates mTOR-Dependent Inflammatory Responses and Pathogenic Antibody Production. <i>Immunity</i> , 2014, 41, 375-388.	14.3	121
57	PKM1 Confers Metabolic Advantages and Promotes Cell-Autonomous Tumor Cell Growth. <i>Cancer Cell</i> , 2018, 33, 355-367.e7.	16.8	121
58	Detection of potentially novel bacterial components of the human skin microbiota using culture-independent molecular profiling. <i>Journal of Medical Microbiology</i> , 2005, 54, 1231-1238.	1.8	119
59	Relaxation effects of clustered particles. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 14, 72-77.	3.4	113
60	Capillary Endothelial Fatty Acid Binding Proteins 4 and 5 Play a Critical Role in Fatty Acid Uptake in Heart and Skeletal Muscle. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 2549-2557.	2.4	110
61	Vascular Smooth Muscle Cell-Directed Overexpression of Heme Oxygenase-1 Elevates Blood Pressure Through Attenuation of Nitric Oxide-Induced Vasodilation in Mice. <i>Circulation Research</i> , 2001, 89, 55-62.	4.5	108
62	IMP dehydrogenase-2 drives aberrant nucleolar activity and promotes tumorigenesis in glioblastoma. <i>Nature Cell Biology</i> , 2019, 21, 1003-1014.	10.3	107
63	Protective roles of endogenous carbon monoxide in neointimal development elicited by arterial injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 278, H623-H632.	3.2	106
64	Omeprazole attenuates oxygen-derived free radical production from human neutrophils. <i>Free Radical Biology and Medicine</i> , 1996, 21, 727-731.	2.9	104
65	Gene Transfection of H25A Mutant Heme Oxygenase-1 Protects Cells against Hydroperoxide-induced Cytotoxicity. <i>Journal of Biological Chemistry</i> , 2002, 277, 10712-10718.	3.4	102
66	Paradoxical ATP Elevation in Ischemic Penumbra Revealed by Quantitative Imaging Mass Spectrometry. <i>Antioxidants and Redox Signaling</i> , 2010, 13, 1157-1167.	5.4	102
67	HIF-1 $\alpha$ induction suppresses excessive lipid accumulation in alcoholic fatty liver in mice. <i>Journal of Hepatology</i> , 2012, 56, 441-447.	3.7	101
68	Mechanism of Hepatic Parenchyma-Specific Contrast of Microbubble-Based Contrast Agent for Ultrasonography. <i>Investigative Radiology</i> , 2007, 42, 643-651.	6.2	99
69	Rebamipide, a novel antiulcer agent, attenuates <i>Helicobacter pylori</i> induced gastric mucosal cell injury associated with neutrophil derived oxidants.. <i>Gut</i> , 1994, 35, 1375-1378.	12.1	98
70	Cystathionine $\beta$ -synthase as a carbon monoxide-sensitive regulator of bile excretion. <i>Hepatology</i> , 2009, 49, 141-150.	7.3	96
71	Mode of Bioenergetic Metabolism during B Cell Differentiation in the Intestine Determines the Distinct Requirement for Vitamin B1. <i>Cell Reports</i> , 2015, 13, 122-131.	6.4	96
72	Constitutive Lymphocyte Transmigration across the Basal Lamina of High Endothelial Venules Is Regulated by the Autotaxin/Lysophosphatidic Acid Axis. <i>Journal of Immunology</i> , 2013, 190, 2036-2048.	0.8	95

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73	Gut bacteria identified in colorectal cancer patients promote tumourigenesis via butyrate secretion. <i>Nature Communications</i> , 2021, 12, 5674.	12.8	95
74	In Vivo Visualization of Oxyradical-Dependent Photoemission during Endothelium-Granulocyte Interaction in Microvascular Beds Treated with Platelet-Activating Factor1. <i>Journal of Biochemistry</i> , 1989, 106, 355-360.	1.7	93
75	<i>Helicobacter pylori</i> -associated ammonia production enhances neutrophil-dependent gastric mucosal cell injury. <i>American Journal of Physiology - Renal Physiology</i> , 1992, 263, G719-G725.	3.4	93
76	p38 $\beta$ Activates Purine Metabolism to Initiate Hematopoietic Stem/Progenitor Cell Cycling in Response to Stress. <i>Cell Stem Cell</i> , 2016, 19, 192-204.	11.1	92
77	Characterization of rat LECAM-1 (L-selectin) by the use of monoclonal antibodies and evidence for the presence of soluble LECAM-1 in rat sera. <i>European Journal of Immunology</i> , 1993, 23, 2181-2188.	2.9	87
78	Nonendothelial Source of Nitric Oxide in Arterioles But Not in Venules. <i>Circulation Research</i> , 2002, 91, e55-64.	4.5	87
79	Bilirubin rinse: A simple protectant against the rat liver graft injury mimicking heme oxygenase-1 preconditioning. <i>Hepatology</i> , 2003, 38, 364-373.	7.3	87
80	Characterization of skin microbiota in patients with atopic dermatitis and in normal subjects using 16S rRNA gene-based comprehensive analysis. <i>Journal of Medical Microbiology</i> , 2007, 56, 1675-1683.	1.8	87
81	Establishment of a humanized model of liver using NOD/Shi-scid IL2R $\gamma$ null mice. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 248-252.	2.1	87
82	Molecular Mechanisms of How Mercury Inhibits Water Permeation through Aquaporin-1: Understanding by Molecular Dynamics Simulation. <i>Biophysical Journal</i> , 2010, 98, 1512-1519.	0.5	86
83	Nitric oxide mediates lipopolysaccharide-induced alteration of mitochondrial function in cultured hepatocytes and isolated perfused liver. <i>Hepatology</i> , 1993, 18, 380-388.	7.3	85
84	The EGF Receptor Promotes the Malignant Potential of Glioma by Regulating Amino Acid Transport System xc <sup>-</sup> . <i>Cancer Research</i> , 2016, 76, 2954-2963.	0.9	84
85	Development of Functional Zonation in the Rat Adrenal Cortex*. <i>Endocrinology</i> , 1999, 140, 3342-3353.	2.8	83
86	Roles of Hemoglobin Allosterism in Hypoxia-induced Metabolic Alterations in Erythrocytes. <i>Journal of Biological Chemistry</i> , 2007, 282, 10731-10741.	3.4	83
87	Caloric Restriction Primes Mitochondria for Ischemic Stress by Deacetylating Specific Mitochondrial Proteins of the Electron Transport Chain. <i>Circulation Research</i> , 2011, 109, 396-406.	4.5	83
88	Metabolic shift induced by systemic activation of T cells in PD-1-deficient mice perturbs brain monoamines and emotional behavior. <i>Nature Immunology</i> , 2017, 18, 1342-1352.	14.5	83
89	Altered expression of heme oxygenase-1 in the livers of patients with portal hypertensive diseases. <i>Hepatology</i> , 2001, 33, 32-42.	7.3	82
90	Gaseous monoxides: a new class of micro vascular regulator in the liver. <i>Cardiovascular Research</i> , 1996, 32, 679-686.	3.8	81

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91	Epidermal cell turnover across tight junctions based on Kelvin's tetrakaidecahedron cell shape. <i>ELife</i> , 2016, 5, .	6.0	81
92	Endogenous Prostaglandin D <sub>2</sub> and Its Metabolites Protect the Heart Against Ischemiaâ€“Reperfusion Injury by Activating Nrf2. <i>Hypertension</i> , 2014, 63, 80-87.	2.7	79
93	Carbon Monoxide From Heme Oxygenase-2 Is a Tonic Regulator Against NO-Dependent Vasodilatation in the Adult Rat Cerebral Microcirculation. <i>Circulation Research</i> , 2005, 97, e104-14.	4.5	78
94	Early midzonal oxidative stress preceding cell death in hypoperfused rat liver. <i>Gastroenterology</i> , 1992, 103, 994-1001.	1.3	77
95	Subthreshold UV Radiation-induced Peroxide Formation in Cultured Corneal Epithelial Cells: The Protective Effects of Lactoferrin. <i>Experimental Eye Research</i> , 1996, 63, 519-526.	2.6	77
96	Mercury chloride decreases the water permeability of aquaporinâ€“reconstituted proteoliposomes. <i>Biology of the Cell</i> , 2008, 100, 355-363.	2.0	77
97	Effect of rat CINC/gro, a member of the interleukin-8 family, on leukocytes in microcirculation of the rat mesentery. <i>Experimental and Molecular Pathology</i> , 1992, 56, 60-69.	2.1	76
98	The undifferentiated cell zone is a stem cell zone in adult rat adrenal cortex. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2003, 1619, 317-324.	2.4	75
99	Leydig cellâ€“derived heme oxygenase-1 regulates apoptosis of premeiotic germ cells in response to stress. <i>Journal of Clinical Investigation</i> , 2002, 109, 457-467.	8.2	75
100	Japanâ€™s initiative on rare and undiagnosed diseases (IRUD): towards an end to the diagnostic odyssey. <i>European Journal of Human Genetics</i> , 2017, 25, 1025-1028.	2.8	74
101	Gold-nanofiber surface-enhanced Raman spectroscopy visualizes hypotaurine as a robust anti-oxidant consumed in cancer survival. <i>Nature Communications</i> , 2018, 9, 1561.	12.8	74
102	Immunoneutralization of Glycoprotein Ib $\beta$ Attenuates Endotoxin-Induced Interactions of Platelets and Leukocytes With Rat Venular Endothelium In Vivo. <i>Circulation Research</i> , 2000, 86, 1031-1037.	4.5	72
103	Increased Expression of Heme Oxygenase-1 and Bilirubin Accumulation in Foam Cells of Rabbit Atherosclerotic Lesions. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2001, 21, 1373-1377.	2.4	72
104	Identification of mutations in the prostaglandin transporter gene SLCO2A1 and its phenotypeâ€“genotype correlation in Japanese patients with pachydermoperiostosis. <i>Journal of Dermatological Science</i> , 2012, 68, 36-44.	1.9	72
105	Optogenetic astrocyte activation evokes BOLD fMRI response with oxygen consumption without neuronal activity modulation. <i>Glia</i> , 2018, 66, 2013-2023.	4.9	72
106	Myeloperoxidase Is a Key Regulator of Oxidative Stressâ€“Mediated Apoptosis in Myeloid Leukemic Cells. <i>Clinical Cancer Research</i> , 2007, 13, 5436-5445.	7.0	70
107	von Hippel-Lindau protein regulates transition from the fetal to the adult circulatory system in retina. <i>Development (Cambridge)</i> , 2010, 137, 1563-1571.	2.5	70
108	Rewiring of embryonic glucose metabolism via suppression of PFK-1 and aldolase during mouse chorioallantoic branching. <i>Development (Cambridge)</i> , 2017, 144, 63-73.	2.5	70



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109	Impaired leukocyte-endothelial cell interaction in spontaneously hypertensive rats.. Hypertension, 1994, 24, 719-727.	2.7	67
110	Metabolic Profiling of the Protozoan Parasite Entamoeba invadens Revealed Activation of Unpredicted Pathway during Encystation. PLoS ONE, 2012, 7, e37740.	2.5	67
111	Methionine excess in diet induces acute lethal hepatitis in mice lacking cystathionine $\beta$ -lyase, an animal model of cystathioninuria. Free Radical Biology and Medicine, 2012, 52, 1716-1726.	2.9	66
112	Microscopic imaging mass spectrometry assisted by on-tissue chemical derivatization for visualizing multiple amino acids in human colon cancer xenografts. Proteomics, 2014, 14, 810-819.	2.2	65
113	Case Report: Nodule Development From Subcapsular Aldosterone-Producing Cell Clusters Causes Hyperaldosteronism. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 6-9.	3.6	64
114	Carbon monoxide as a regulator of bile canalicular contractility in cultured rat hepatocytes. Hepatology, 1998, 28, 286-295.	7.3	63
115	Physiological Capacity of the Reticuloendothelial System for the Degradation of Hemoglobin Vesicles (Artificial Oxygen Carriers) after Massive Intravenous Doses by Daily Repeated Infusions for 14 Days. Journal of Pharmacology and Experimental Therapeutics, 2004, 311, 874-884.	2.5	63
116	Large-Area Surface-Enhanced Raman Spectroscopy Imaging of Brain Ischemia by Gold Nanoparticles Grown on Random Nanoarrays of Transparent Boehmite. ACS Nano, 2014, 8, 5622-5632.	14.6	63
117	Nitric oxide suppression reversibly attenuates mitochondrial dysfunction and cholestasis in endotoxemic rat liver. Hepatology, 1998, 27, 108-115.	7.3	62
118	Albumin Rescues Ocular Epithelial Cells from Cell Death in Dry Eye. Current Eye Research, 2007, 32, 83-88.	1.5	62
119	Curriculum vitae of intestinal intraepithelial T cells: their developmental and behavioral characteristics. Immunological Reviews, 2007, 215, 154-165.	6.0	62
120	Semi-quantitative analyses of metabolic systems of human colon cancer metastatic xenografts in livers of superimmunodeficient NOG mice. Analytical and Bioanalytical Chemistry, 2011, 400, 1895-1904.	3.7	62
121	Carbon Monoxide Modulates Endotoxin-induced Microvascular Leukocyte Adhesion through Platelet-dependent Mechanisms. Anesthesiology, 2002, 97, 701-709.	2.5	61
122	Visualization and quantification of cerebral metabolic fluxes of glucose in awake mice. Proteomics, 2014, 14, 829-838.	2.2	61
123	HIF-1 $\alpha$ is necessary to support gluconeogenesis during liver regeneration. Biochemical and Biophysical Research Communications, 2009, 387, 789-794.	2.1	59
124	Decreased Expression of Cystathionine $\beta$ -Synthase Promotes Glioma Tumorigenesis. Molecular Cancer Research, 2014, 12, 1398-1406.	3.4	59
125	Non-neuronal acetylcholine as an endogenous regulator of proliferation and differentiation of Lgr5 $^+$ stem cells in mice. FEBS Journal, 2014, 281, 4672-4690.	4.7	59
126	Prostaglandin E1 abrogates early reductive stress and zone-specific paradoxical oxidative injury in hypoperfused rat liver.. Journal of Clinical Investigation, 1994, 93, 155-164.	8.2	59



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127	Infrared Spectroscopic and Mutational Studies on Putidaredoxin-Induced Conformational Changes in Ferrous CO-P450cam. <i>Biochemistry</i> , 2003, 42, 14507-14514.	2.5	58
128	Energy Management by Enhanced Glycolysis in G1-phase in Human Colon Cancer Cells <i>In Vitro</i> and <i>In Vivo</i> . <i>Molecular Cancer Research</i> , 2013, 11, 973-985.	3.4	58
129	<i>Helicobacter pylori</i> -associated gastric pro- and antioxidant formation in Mongolian gerbils. <i>Free Radical Biology and Medicine</i> , 1999, 26, 679-684.	2.9	57
130	Two Amino Acids Mutation of Ferric Uptake Regulator Determines <i>Helicobacter pylori</i> Resistance to Metronidazole. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 15-23.	5.4	57
131	Visualization of gaseous monoxide reception by soluble guanylate cyclase in the rat retina. <i>FASEB Journal</i> , 2003, 17, 1-23.	0.5	55
132	Activation of macrophage function by intraperitoneal administration of the streptococcal antitumor agent OK-432. <i>Immunopharmacology</i> , 1983, 6, 177-189.	2.0	54
133	Intravital and Electron Microscopic Observation of Ito Cells in Rat Hepatic Microcirculation. <i>Microvascular Research</i> , 1993, 46, 28-42.	2.5	54
134	Role of thromboxane derived from COX-1 and -2 in hepatic microcirculatory dysfunction during endotoxemia in mice. <i>Hepatology</i> , 2004, 39, 139-150.	7.3	54
135	HIF-1 in T cells ameliorated dextran sodium sulfate-induced murine colitis. <i>Journal of Leukocyte Biology</i> , 2012, 91, 901-909.	3.3	54
136	Environmental Optimization Enables Maintenance of Quiescent Hematopoietic Stem Cells <i>Ex Vivo</i> . <i>Cell Reports</i> , 2019, 28, 145-158.e9.	6.4	54
137	Mutant ASXL1 induces age-related expansion of phenotypic hematopoietic stem cells through activation of Akt/mTOR pathway. <i>Nature Communications</i> , 2021, 12, 1826.	12.8	54
138	Increased respiratory burst of leukocytes in inflammatory bowel diseases—the analysis of free radical generation by using chemiluminescence probe. <i>Journal of Clinical &amp; Laboratory Immunology</i> , 1987, 24, 125-8.	0.1	54
139	Kupffer cell-independent acute hepatocellular oxidative stress and decreased bile formation in post-cold-ischemic rat liver. <i>Hepatology</i> , 1999, 30, 1454-1463.	7.3	53
140	Genetic background conversion ameliorates semi-lethality and permits behavioral analyses in cystathionine $\beta$ -synthase-deficient mice, an animal model for hyperhomocysteinemia. <i>Human Molecular Genetics</i> , 2008, 17, 1994-2005.	2.9	53
141	Two Atypical l-Cysteine-regulated NADPH-dependent Oxidoreductases Involved in Redox Maintenance, l-Cystine and Iron Reduction, and Metronidazole Activation in the Enteric Protozoan <i>Entamoeba histolytica</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 26889-26899.	3.4	53
142	Development of a Highly Sensitive Device for Counting the Number of Disease-Specific Exosomes in Human Sera. <i>Clinical Chemistry</i> , 2018, 64, 1463-1473.	3.2	53
143	Critical Role for CXC Chemokine Ligand 16 (SR-PSOX) in Th1 Response Mediated by NKT Cells. <i>Journal of Immunology</i> , 2007, 179, 8172-8179.	0.8	52
144	Stabilization of mast cells by heme oxygenase-1: an anti-inflammatory role. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H861-H870.	3.2	51

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