Timothy R Billiar

List of Publications by Year
in descending order

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620 papers	53,539 citations	1459 107 h-index	2277 200 g-index
633 all docs	633 docs citations	633 times ranked	47036 citing authors

#	Article	IF	Citations
1	Genomic responses in mouse models poorly mimic human inflammatory diseases. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3507-3512.	3.3	2,518
2	The nuclear factor HMGB1 mediates hepatic injury after murine liver ischemia-reperfusion. Journal of Experimental Medicine, 2005, 201, 1135-1143.	4.2	1,634
3	A genomic storm in critically injured humans. Journal of Experimental Medicine, 2011, 208, 2581-2590.	4.2	1,040
4	Nitric Oxide Inhibits Apoptosis by Preventing Increases in Caspase-3-like Activity via Two Distinct Mechanisms. Journal of Biological Chemistry, 1997, 272, 31138-31148.	1.6	804
5	Apoptosis induced in normal human hepatocytes by tumor necrosis factor-related apoptosis-inducing ligand. Nature Medicine, 2000, 6, 564-567.	15.2	789
6	HMGB1 in health and disease. Molecular Aspects of Medicine, 2014, 40, 1-116.	2.7	763
7	Inflammation, immunoregulation, and inducible nitric oxide synthase. Journal of Leukocyte Biology, 1993, 54, 171-178.	1.5	759
8	HMGB1: Endogenous Danger Signaling. Molecular Medicine, 2008, 14, 476-484.	1.9	687
9	The Tumor Suppressor p53 Limits Ferroptosis by Blocking DPP4 Activity. Cell Reports, 2017, 20, 1692-1704.	2.9	608
10	Prehospital Plasma during Air Medical Transport in Trauma Patients at Risk for Hemorrhagic Shock. New England Journal of Medicine, 2018, 379, 315-326.	13.9	573
11	The grateful dead: damageâ€associated molecular pattern molecules and reduction/oxidation regulate immunity. Immunological Reviews, 2007, 220, 60-81.	2.8	565
12	Nitrogen Oxide Levels in Patients After Trauma and During Sepsis. Annals of Surgery, 1991, 214, 621-626.	2.1	557
13	HMGB1 release induced by liver ischemia involves Toll-like receptor 4â€“dependent reactive oxygen species production and calcium-mediated signaling. Journal of Experimental Medicine, 2007, 204, 2913-2923.	4.2	554
14	Nitric Oxide Reversibly Inhibits Seven Members of the Caspase Family via S-Nitrosylation. Biochemical and Biophysical Research Communications, 1997, 240, 419-424.	1.0	503
15	Nitric Oxide Protects Cultured Rat Hepatocytes from Tumor Necrosis Factor-Î±-induced Apoptosis by Inducing Heat Shock Protein 70 Expression. Journal of Biological Chemistry, 1997, 272, 1402-1411.	1.6	494
16	Carbon monoxide suppresses arteriosclerotic lesions associated with chronic graft rejection and with balloon injury. Nature Medicine, 2003, 9, 183-190.	15.2	493
17	Nitric Oxide as a Bioregulator of Apoptosis. Biochemical and Biophysical Research Communications, 2001, 282, 1075-1079.	1.0	483
18	Linking oxidative stress to inflammation: Toll-like receptors. Free Radical Biology and Medicine, 2010, 48, 1121-1132.	1.3	461

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19	Essential Role of Induced Nitric Oxide in the Initiation of the Inflammatory Response after Hemorrhagic Shock. Journal of Experimental Medicine, 1998, 187, 917-928.	4.2	457
20	Enterocyte TLR4 Mediates Phagocytosis and Translocation of Bacteria Across the Intestinal Barrier. Journal of Immunology, 2006, 176, 3070-3079.	0.4	440
21	Nitric Oxide as a Bifunctional Regulator of Apoptosis. Circulation Research, 1999, 84, 253-256.	2.0	404
22	Lipid Peroxidation Drives Gasdermin D-Mediated Pyroptosis in Lethal Polymicrobial Sepsis. Cell Host and Microbe, 2018, 24, 97-108.e4.	5.1	390
23	Inducible Nitric Oxide Synthase and Inflammatory Diseases. Molecular Medicine, 2000, 6, 347-373.	1.9	381
24	The Endotoxin Delivery Protein HMGB1 Mediates Caspase-11-Dependent Lethality in Sepsis. Immunity, 2018, 49, 740-753.e7.	6.6	377
25	Multiple NF-ÎºB Enhancer Elements Regulate Cytokine Induction of the Human Inducible Nitric Oxide Synthase Gene. Journal of Biological Chemistry, 1998, 273, 15148-15156.	1.6	371
26	Damageâ€associated molecular patternâ€“activated neutrophil extracellular trap exacerbates sterile inflammatory liver injury. Hepatology, 2015, 62, 600-614.	3.6	370
27	PKM2-dependent glycolysis promotes NLRP3 and AIM2 inflammasome activation. Nature Communications, 2016, 7, 13280.	5.8	356
28	PKM2 regulates the Warburg effect and promotes HMGB1 release in sepsis. Nature Communications, 2014, 5, 4436.	5.8	346
29	The regulatory role of nitric oxide in apoptosis. International Immunopharmacology, 2001, 1, 1421-1441.	1.7	342
30	Hepatic Ischemia/Reperfusion Injury Involves Functional TLR4 Signaling in Nonparenchymal Cells. Journal of Immunology, 2005, 175, 7661-7668.	0.4	342
31	Masquerader: High Mobility Group Box-1 and Cancer. Clinical Cancer Research, 2007, 13, 2836-2848.	3.2	335
32	Nitric oxide and wound repair: role of cytokines?. Nitric Oxide - Biology and Chemistry, 2002, 7, 1-10.	1.2	330
33	Endogenous histones function as alarmins in sterile inflammatory liver injury through Tollâ€like receptor 9 in mice. Hepatology, 2011, 54, 999-1008.	3.6	307
34	MD-2 is required for disulfide HMGB1â€“dependent TLR4 signaling. Journal of Experimental Medicine, 2015, 212, 5-14.	4.2	295
35	EMERGING PARADIGM. Shock, 2006, 26, 430-437.	1.0	282
36	Molecular biology of nitric oxide synthases. , 1998, 17, 7-23.		281

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37	Platelet-derived HMGB1 is a critical mediator of thrombosis. Journal of Clinical Investigation, 2015, 125, 4638-4654.	3.9	281
38	Carbon monoxide signals via inhibition of cytochrome c oxidase and generation of mitochondrial reactive oxygen species. FASEB Journal, 2007, 21, 1099-1106.	0.2	278
39	Targeting Nitric Oxide (NO) Deliveryin Vivo. Design of a Liver-Selective NO Donor Prodrug That Blocks Tumor Necrosis Factor-Î±-Induced Apoptosis and Toxicity in the Liver. Journal of Medicinal Chemistry, 1997, 40, 1947-1954.	2.9	268
40	Hemorrhagic Shock Induces NAD(P)H Oxidase Activation in Neutrophils: Role of HMGB1-TLR4 Signaling. Journal of Immunology, 2007, 178, 6573-6580.	0.4	268
41	High-Mobility Group Box 1 Is Essential for Mitochondrial Quality Control. Cell Metabolism, 2011, 13, 701-711.	7.2	266
42	p53 and vascular endothelial growth factor regulate tumor growth of NOS2-expressing human carcinoma cells. Nature Medicine, 1998, 4, 1371-1376.	15.2	265
43	Multiple Cytokines Are Required to Induce Hepatocyte Nitric Oxide Production and Inhibit Total Protein Synthesis. Annals of Surgery, 1990, 212, 462-471.	2.1	257
44	Intestinal Epithelial Toll-Like Receptor 4 Regulates Goblet Cell Development and Is Required for Necrotizing Enterocolitis in Mice. Gastroenterology, 2012, 143, 708-718.e5.	0.6	250
45	Hemorrhagic shock. Current Problems in Surgery, 1995, 32, 925-1002.	0.6	243
46	Application of genome-wide expression analysis to human health and disease. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4801-4806.	3.3	238
47	Nitric Oxide Suppresses Apoptosis via Interrupting Caspase Activation and Mitochondrial Dysfunction in Cultured Hepatocytes. Journal of Biological Chemistry, 1999, 274, 17325-17333.	1.6	237
48	Endogenous nitric oxide inhibits the synthesis of cyclooxygenase products and interleukin-6 by rat Kupffer cells. Journal of Leukocyte Biology, 1993, 53, 165-172.	1.5	231
49	Nitric oxide and nitric oxideâ€generating compounds inhibit hepatocyte protein synthesis. FASEB Journal, 1991, 5, 2085-2092.	0.2	229
50	Protection Against Ischemia/Reperfusion Injury in Cardiac and Renal Transplantation with Carbon Monoxide, Biliverdin and Both. American Journal of Transplantation, 2005, 5, 282-291.	2.6	227
51	Role of Toll-Like Receptors in Changes in Gene Expression and NF-ÎºB Activation in Mouse Hepatocytes Stimulated with Lipopolysaccharide. Infection and Immunity, 2002, 70, 3433-3442.	1.0	226
52	Efficient inhibition of intimal hyperplasia by adenovirus-mediated inducible nitric oxide synthase gene transfer to rats and pigs in vivo. Journal of the American College of Surgeons, 1998, 187, 295-306.	0.2	219
53	Intra-Abdominal Activation of a Local Inflammatory Response Within the Human Muscularis Externa During Laparotomy. Annals of Surgery, 2003, 237, 301-315.	2.1	219
54	Anti-HMGB1 Neutralizing Antibody Ameliorates Gut Barrier Dysfunction and Improves Survival after Hemorrhagic Shock. Molecular Medicine, 2006, 12, 105-114.	1.9	219

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55	Nitric Oxide Suppression of Apoptosis Occurs in Association with an Inhibition of Bcl-2 Cleavage and Cytochrome cRelease. Journal of Biological Chemistry, 1998, 273, 31437-31441.	1.6	215
56	Cellular Non-heme Iron Content Is a Determinant of Nitric Oxide-mediated Apoptosis, Necrosis, and Caspase Inhibition. Journal of Biological Chemistry, 2000, 275, 10954-10961.	1.6	211
57	Nitric Oxide Protects PC12 Cells from Serum Deprivation-Induced Apoptosis by cGMP-Dependent Inhibition of Caspase Signaling. Journal of Neuroscience, 1999, 19, 6740-6747.	1.7	209
58	High Mobility Group Box 1 Release from Hepatocytes during Ischemia and Reperfusion Injury Is Mediated by Decreased Histone Deacetylase Activity. Journal of Biological Chemistry, 2010, 285, 39888-39897.	1.6	208
59	Nitric Oxide Prevents Tumor Necrosis Factor Î±â€“Induced Rat Hepatocyte Apoptosis by the Interruption of Mitochondrial Apoptotic Signaling Through S-Nitrosylation of Caspase-8. Hepatology, 2000, 32, 770-778.	3.6	205
60	Inducible nitric oxide synthase is an endogenous neuroprotectant after traumatic brain injury in rats and mice. Journal of Clinical Investigation, 1999, 104, 647-656.	3.9	200
61	Intracellular Hmgb1 Inhibits Inflammatory Nucleosome Release and Limits Acute Pancreatitis in Mice. Gastroenterology, 2014, 146, 1097-1107.e8.	0.6	200
62	Carbon Monoxide Protects against Liver Failure through Nitric Oxideâ€“induced Heme Oxygenase 1. Journal of Experimental Medicine, 2003, 198, 1707-1716.	4.2	199
63	Systemic inflammation and remote organ injury following trauma require HMGB1. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1538-R1544.	0.9	199
64	Nitric Oxide Novel Biology with Clinical Relevance. Annals of Surgery, 1995, 221, 339-349.	2.1	194
65	BNIP3 Protein Suppresses PINK1 Kinase Proteolytic Cleavage to Promote Mitophagy. Journal of Biological Chemistry, 2016, 291, 21616-21629.	1.6	194
66	Histones Activate the NLRP3 Inflammasome in Kupffer Cells during Sterile Inflammatory Liver Injury. Journal of Immunology, 2013, 191, 2665-2679.	0.4	189
67	Differential regulation of NO availability from macrophages and endothelial cells by the garlic component S-allyl cysteine. Free Radical Biology and Medicine, 2001, 30, 747-756.	1.3	188
68	Attenuation of Myocardial Ischemia/Reperfusion Injury by Superinduction of Inducible Nitric Oxide Synthase. Circulation, 2000, 101, 2742-2748.	1.6	187
69	THE ACUTE INFLAMMATORY RESPONSE IN DIVERSE SHOCK STATES. Shock, 2005, 24, 74-84.	1.0	187
70	Bacterial Endotoxin Activates the Coagulation Cascade through Gasdermin D-Dependent Phosphatidylserine Exposure. Immunity, 2019, 51, 983-996.e6.	6.6	187
71	Endothelial TLR4 activation impairs intestinal microcirculatory perfusion in necrotizing enterocolitis via eNOSâ€“NOâ€“nitrite signaling. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9451-9456.	3.3	186
72	Sphingosine 1-Phosphate Protects Human Umbilical Vein Endothelial Cells from Serum-deprived Apoptosis by Nitric Oxide Production. Journal of Biological Chemistry, 2001, 276, 10627-10633.	1.6	184

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73	Nitric oxide synthesis serves to reduce hepatic damage during acute murine endotoxemia. Critical Care Medicine, 1992, 20, 1568.	0.4	178
74	Cytosolic HMGB1 controls the cellular autophagy/apoptosis checkpoint during inflammation. Journal of Clinical Investigation, 2015, 125, 1098-1110.	3.9	173
75	Highâ€mobility group boxâ€1 in sterile inflammation. Journal of Internal Medicine, 2014, 276, 425-443.	2.7	171
76	Lipopolysaccharide Clearance, Bacterial Clearance, and Systemic Inflammatory Responses Are Regulated by Cell Typeâ€“Specific Functions of TLR4 during Sepsis. Journal of Immunology, 2013, 190, 5152-5160.	0.4	165
77	Signaling of High Mobility Group Box 1 (HMGB1) through Toll-like Receptor 4 in Macrophages Requires CD14. Molecular Medicine, 2013, 19, 88-98.	1.9	161
78	Nitric oxide facilitates cardiomyogenesis in mouse embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12277-12281.	3.3	157
79	A Caspase-9 Variant Missing the Catalytic Site Is an Endogenous Inhibitor of Apoptosis. Journal of Biological Chemistry, 1999, 274, 2072-2076.	1.6	155
80	Oral hydrogen water prevents chronic allograft nephropathy in rats. Kidney International, 2010, 77, 101-109.	2.6	155
81	Inflammasome and Autophagy Regulation: A Two-way Street. Molecular Medicine, 2017, 23, 188-195.	1.9	155
82	Carbon monoxide reverses established pulmonary hypertension. Journal of Experimental Medicine, 2006, 203, 2109-2119.	4.2	154
83	Adenoviral transfer of the inducible nitric oxide synthase gene blocks endothelial cell apoptosis. Surgery, 1997, 122, 255-263.	1.0	153
84	Thioredoxin and Lipoic Acid Catalyze the Denitrosation of Low Molecular Weight and ProteinS-Nitrosothiols. Journal of the American Chemical Society, 2005, 127, 15815-15823.	6.6	151
85	Role of Nitric Oxide in Liver Injury. Current Molecular Medicine, 2003, 3, 519-526.	0.6	148
86	Nitric oxide, a protective molecule in the cardiovascular system. Nitric Oxide - Biology and Chemistry, 2013, 35, 175-185.	1.2	148
87	Nitric oxide prevents 6â€hydroxydopamineâ€induced apoptosis in PC12 cells through cGMPâ€dependent PI3 kinase/Akt activation. FASEB Journal, 2003, 17, 1036-1047.	0.2	145
88	Pre-Trauma Center Red Blood Cell Transfusion Is Associated with Improved Early Outcomes in Air Medical Trauma Patients. Journal of the American College of Surgeons, 2015, 220, 797-808.	0.2	145
89	Toll-like Receptor 4-mediated Endoplasmic Reticulum Stress in Intestinal Crypts Induces Necrotizing Enterocolitis. Journal of Biological Chemistry, 2014, 289, 9584-9599.	1.6	141
90	Hemorrhagic Shock Activation of NLRP3 Inflammasome in Lung Endothelial Cells. Journal of Immunology, 2011, 187, 4809-4817.	0.4	136

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91	Nitric Oxide and Ionizing Radiation Synergistically Promote Apoptosis and Growth Inhibition of Cancer by Activating p53. Cancer Research, 2004, 64, 8015-8021.	0.4	126
92	Cytokines and Lipopolysaccharide Induce Nitric Oxide Synthase in Cultured Rat Pulmonary Artery Smooth Muscle. American Journal of Respiratory Cell and Molecular Biology, 1992, 7, 471-476.	1.4	125
93	Enhanced Oxidative Stress in iNOS-Deficient Mice after Traumatic Brain Injury: Support for a Neuroprotective Role of iNOS. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 673-684.	2.4	125
94	Molecular mechanisms in the early phase of hemorrhagic shock. Langenbeck's Archives of Surgery, 2001, 386, 302-308.	0.8	124
95	Immuneâ€Responsive Gene 1/Itaconate Activates Nuclear Factor Erythroid 2â€“Related Factor 2 in Hepatocytes to Protect Against Liver Ischemiaâ€“Reperfusion Injury. Hepatology, 2020, 72, 1394-1411.	3.6	124
96	Regulation and Function of Inducible Nitric Oxide Synthase during Sepsis and Acute Inflammation. Advances in Pharmacology, 1995, 34, 155-170.	1.2	123
97	Inhaled Hydrogen Gas Therapy for Prevention of Lung Transplant-Induced Ischemia/Reperfusion Injury in Rats. Transplantation, 2010, 90, 1344-1351.	0.5	123
98	Hepatocyte-specific high-mobility group box 1 deletion worsens the injury in liver ischemia/reperfusion: A role for intracellular high-mobility group box 1 in cellular protection. Hepatology, 2014, 59, 1984-1997.	3.6	123
99	Temporal Patterns of Circulating Inflammation Biomarker Networks Differentiate Susceptibility to Nosocomial Infection Following Blunt Trauma in Humans. Annals of Surgery, 2016, 263, 191-198.	2.1	122
100	Essential role for IL-6 in postresuscitation inflammation in hemorrhagic shock. American Journal of Physiology - Cell Physiology, 2001, 280, C343-C351.	2.1	121
101	Neuronal NOS-mediated nitration and inactivation of manganese superoxide dismutase in brain after experimental and human brain injury. Journal of Neurochemistry, 2006, 101, 168-181.	2.1	121
102	The Circadian Clock Controls Immune Checkpoint Pathway in Sepsis. Cell Reports, 2018, 24, 366-378.	2.9	120
103	Cell Death and DAMPs in Acute Pancreatitis. Molecular Medicine, 2014, 20, 466-477.	1.9	119
104	TMEM173 Drives Lethal Coagulation in Sepsis. Cell Host and Microbe, 2020, 27, 556-570.e6.	5.1	119
105	Prehospital Blood Product and Crystalloid Resuscitation in the Severely Injured Patient. Annals of Surgery, 2021, 273, 358-364.	2.1	119
106	iNOS promotes CD24 ⁺ CD133 ⁺ liver cancer stem cell phenotype through a TACE/ADAM17-dependent Notch signaling pathway. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10127-E10136.	3.3	118
107	HMGB1 as a potential biomarker and therapeutic target for severe COVID-19. Heliyon, 2020, 6, e05672.	1.4	118
108	Differential Effects of Nonselective Nitric Oxide Synthase (NOS) and Selective Inducible NOS Inhibition on Hepatic Necrosis, Apoptosis, ICAM-1 Expression, and Neutrophil Accumulation during Endotoxemia. Nitric Oxide - Biology and Chemistry, 1997, 1, 404-416.	1.2	117

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109	Location is the key to function: HMGB1 in sepsis and trauma-induced inflammation. Journal of Leukocyte Biology, 2019, 106, 161-169.	1.5	115
110	Not all prehospital time is equal. Journal of Trauma and Acute Care Surgery, 2016, 81, 93-100.	1.1	114
111	Inducible nitric oxide synthase (iNOS) expression upregulates p21 and inhibits vascular smooth muscle cell proliferation through p42/44 mitogen-activated protein kinase activation and independent of p53 and cyclic guanosine monophosphate. Journal of Vascular Surgery, 2000, 31, 1214-1228.	0.6	113
112	Cutting Edge: High-Mobility Group Box 1 Preconditioning Protects against Liver Ischemia-Reperfusion Injury. Journal of Immunology, 2006, 176, 7154-7158.	0.4	113
113	Tumor Necrosis Factor Alpha Inhibits Hepatocyte Mitochondrial Respiration. Annals of Surgery, 1992, 216, 539-546.	2.1	112
114	Toll-Like Receptor-4 Signaling Mediates Hepatic Injury and Systemic Inflammation in Hemorrhagic Shock. Journal of the American College of Surgeons, 2006, 202, 407-417.	0.2	111
115	Early events in the recognition of danger signals after tissue injury. Journal of Leukocyte Biology, 2008, 83, 546-552.	1.5	111
116	Thioredoxin Catalyzes the Denitrosation of Low-Molecular Mass and Protein S-Nitrosothiols. Biochemistry, 2007, 46, 8472-8483.	1.2	110
117	Nitric-oxide production by murine mammary adenocarcinoma cells promotes tumor-cell invasiveness. , 1999, 81, 889-896.		109
118	Peroxisomal localization of inducible nitric oxide synthase in hepatocytes. Hepatology, 2002, 36, 81-93.	3.6	109
119	MOLECULAR AND FUNCTIONAL CONTRACTILE SEQUELAE OF RAT INTESTINAL ISCHEMIA/REPERFUSION INJURY1. Transplantation, 1999, 68, 1244-1254.	0.5	109
120	Calcium/Calmodulin-Dependent Protein Kinase (CaMK) IV Mediates Nucleocytoplasmic Shuttling and Release of HMGB1 during Lipopolysaccharide Stimulation of Macrophages. Journal of Immunology, 2008, 181, 5015-5023.	0.4	108
121	Systolic blood pressure criteria in the National Trauma Triage Protocol for geriatric trauma. Journal of Trauma and Acute Care Surgery, 2015, 78, 352-359.	1.1	108
122	Vascular Gene Transfer of the Human Inducible Nitric Oxide Synthase: Characterization of Activity and Effects on Myointimal Hyperplasia. Molecular Medicine, 1996, 2, 211-225.	1.9	107
123	Increasing numbers of hepatic dendritic cells promote HMGB1-mediated ischemia-reperfusion injury. Journal of Leukocyte Biology, 2007, 81, 119-128.	1.5	107
124	Cellular-specific role of toll-like receptor 4 in hepatic ischemia-reperfusion injury in mice. Hepatology, 2013, 58, 374-387.	3.6	107
125	Cerebrospinal fluid and plasma nitrite and nitrate concentrations after head injury in humans. Critical Care Medicine, 1996, 24, 1243-1251.	0.4	107
126	Carbon Monoxide Inhibits T Lymphocyte Proliferation via Caspase-Dependent Pathway. Journal of Immunology, 2004, 172, 1220-1226.	0.4	106

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127	JTC801 Induces pH-dependent Death Specifically in Cancer Cells and Slows Growth of Tumors in Mice. Gastroenterology, 2018, 154, 1480-1493.	0.6	105
128	Therapeutic Antioxidant Medical Gas. Journal of Clinical Biochemistry and Nutrition, 2009, 44, 1-13.	0.6	104
129	Amelioration of rat cardiac cold ischemia/reperfusion injury with inhaled hydrogen or carbon monoxide, or both. Journal of Heart and Lung Transplantation, 2010, 29, 544-553.	0.3	104
130	Muscular Contractile Failure in Septic Patients. American Journal of Respiratory and Critical Care Medicine, 2000, 162, 2308-2315.	2.5	103
131	Cyclic Nucleotides Suppress Tumor Necrosis Factor Î±-Mediated Apoptosis by Inhibiting Caspase Activation and Cytochrome cRelease in Primary Hepatocytes via a Mechanism Independent of Akt Activation. Journal of Biological Chemistry, 2000, 275, 13026-13034.	1.6	103
132	Intracellular HMGB1 as a novel tumor suppressor of pancreatic cancer. Cell Research, 2017, 27, 916-932.	5.7	103
133	Apoptosis in sepsis. Critical Care Medicine, 2000, 28, N105-N113.	0.4	102
134	A Dynamic View of Trauma/Hemorrhage-Induced Inflammation in Mice: Principal Drivers and Networks. PLoS ONE, 2011, 6, e19424.	1.1	102
135	Intestinal Microbiota Mediates the Susceptibility to Polymicrobial Sepsisâ€Induced Liver Injury by Granisetron Generation in Mice. Hepatology, 2019, 69, 1751-1767.	3.6	102
136	THE ROLES OF iNOS IN LIVER ISCHEMIA-REPERFUSION INJURY. Shock, 2001, 16, 355-360.	1.0	101
137	Induction and stability of human Th17 cells require endogenous NOS2 and cGMP-dependent NO signaling. Journal of Experimental Medicine, 2013, 210, 1433-1445.	4.2	101
138	The value of the injury severity score in pediatric trauma. Journal of Trauma and Acute Care Surgery, 2017, 82, 995-1001.	1.1	100
139	IN SILICO MODELS OF ACUTE INFLAMMATION IN ANIMALS. Shock, 2006, 26, 235-244.	1.0	98
140	Regulation of Posttranslational Modifications of HMGB1 During Immune Responses. Antioxidants and Redox Signaling, 2016, 24, 620-634.	2.5	98
141	Mechanisms of Toll-Like Receptor 4 (TLR4)-Mediated Inflammation After Cold Ischemia/Reperfusion in the Heart. Transplantation, 2009, 87, 1455-1463.	0.5	96
142	Augmenting Autophagy to Treat Acute Kidney Injury during Endotoxemia in Mice. PLoS ONE, 2013, 8, e69520.	1.1	96
143	Sepsis: Something old, something new, and a systems view. Journal of Critical Care, 2012, 27, 314.e1-314.e11.	1.0	95
144	IRF-1 expression induces apoptosis and inhibits tumor growth in mouse mammary cancer cells in vitro and in vivo. Oncogene, 2004, 23, 1125-1135.	2.6	93

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145	Î²2-Integrin-induced p38 MAPK Activation Is a Key Mediator in the CD14/TLR4/MD2-dependent Uptake of Lipopolysaccharide by Hepatocytes. Journal of Biological Chemistry, 2008, 283, 29433-29446.	1.6	92
146	Benchmarking Outcomes in the Critically Injured Trauma Patient and the Effect of Implementing Standard Operating Procedures. Annals of Surgery, 2012, 255, 993-999.	2.1	92
147	The Central Role of Arginine Catabolism in T-Cell Dysfunction and Increased Susceptibility to Infection After Physical Injury. Annals of Surgery, 2014, 259, 171-178.	2.1	92
148	TLR4-Upregulated IL-1Î² and IL-1RI Promote Alveolar Macrophage Pyroptosis and Lung Inflammation through an Autocrine Mechanism. Scientific Reports, 2016, 6, 31663.	1.6	92
149	Systemic inflammation and remote organ damage following bilateral femur fracture requires Toll-like receptor 4. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 291, R970-R976.	0.9	91
150	A Janus Tale of Two Active High Mobility Group Box 1 (HMGB1) Redox States. Molecular Medicine, 2012, 18, 1360-1362.	1.9	91
151	Expression of CD14 by Hepatocytes: Upregulation by Cytokines during Endotoxemia. Infection and Immunity, 1998, 66, 5089-5098.	1.0	91
152	Central Role for MCP-1/CCL2 in Injury-Induced Inflammation Revealed by In Vitro, In Silico, and Clinical Studies. PLoS ONE, 2013, 8, e79804.	1.1	91
153	ALK is a therapeutic target for lethal sepsis. Science Translational Medicine, 2017, 9, .	5.8	90
154	Debunking the survival bias myth. Journal of Trauma and Acute Care Surgery, 2012, 73, 358-364.	1.1	89
155	cAMP metabolism controls caspase-11 inflammasome activation and pyroptosis in sepsis. Science Advances, 2019, 5, eaav5562.	4.7	89
156	High Mobility Group Box 1 Contributes to the Pathogenesis of Experimental Pulmonary Hypertension via Activation of Toll-like Receptor 4. Molecular Medicine, 2012, 18, 1509-1518.	1.9	88
157	High mobility group protein B1 controls liver cancer initiation through yesâ€associated protein â€dependent aerobic glycolysis. Hepatology, 2018, 67, 1823-1841.	3.6	88
158	IL33-mediated ILC2 activation and neutrophil IL5 production in the lung response after severe trauma: A reverse translation study from a human cohort to a mouse trauma model. PLoS Medicine, 2017, 14, e1002365.	3.9	88
159	Antioxidant Enzymes Suppress Nitric Oxide Production through the Inhibition of NF-Î¹B Activation: Role of H2O2 and Nitric Oxide in Inducible Nitric Oxide Synthase Expression in Macrophages. Nitric Oxide - Biology and Chemistry, 2001, 5, 504-513.	1.2	84
160	Hydrogen inhalation ameliorates ventilator-induced lung injury. Critical Care, 2010, 14, R234.	2.5	84
161	Adenovirus-mediated gene transfer of human inducible nitric oxide synthase in porcine vein grafts inhibits intimal hyperplasia. Journal of Vascular Surgery, 2001, 34, 156-165.	0.6	83
162	Low-dose carbon monoxide inhalation prevents ischemia/reperfusion injury of transplanted rat lung grafts. Surgery, 2006, 140, 179-185.	1.0	83

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163	Biliverdin Administration Prevents the Formation of Intimal Hyperplasia Induced by Vascular Injury. Circulation, 2005, 112, 587-591.	1.6	82
164	In Silico and In Vivo Approach to Elucidate the Inflammatory Complexity of CD14-deficient Mice. Molecular Medicine, 2006, 12, 88-96.	1.9	82
165	Insights into the Role of Chemokines, Damage-Associated Molecular Patterns, and Lymphocyte-Derived Mediators from Computational Models of Trauma-Induced Inflammation. Antioxidants and Redox Signaling, 2015, 23, 1370-1387.	2.5	82
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