Guo-Ping Shi

List of Publications by Year
in descending order

109 papers	10,049 citations	50276 46 h-index	36028 97 g-index
111 all docs	111 docs citations	111 times ranked	10592 citing authors

#	Article	IF	Citations
1	EMERGING ROLES FOR CYSTEINE PROTEASES IN HUMAN BIOLOGY. Annual Review of Physiology, 1997, 59, 63-88.	13.1	715
2	Genetic deficiency and pharmacological stabilization of mast cells reduce diet-induced obesity and diabetes in mice. Nature Medicine, 2009, 15, 940-945.	30.7	663
3	The ectodomain of Toll-like receptor 9 is cleaved to generate a functional receptor. Nature, 2008, 456, 658-662.	27.8	538
4	Cathepsin S Required for Normal MHC Class II Peptide Loading and Germinal Center Development. Immunity, 1999, 10, 197-206.	14.3	486
5	Cystatin C deficiency in human atherosclerosis and aortic aneurysms. Journal of Clinical Investigation, 1999, 104, 1191-1197.	8.2	397
6	Mast cells promote atherosclerosis by releasing proinflammatory cytokines. Nature Medicine, 2007, 13, 719-724.	30.7	379
7	Lysosomal Cysteine Proteases in Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 1359-1366.	2.4	350
8	Deficiency of cathepsin S reduces atherosclerosis in LDL receptorâ€“deficient mice. Journal of Clinical Investigation, 2003, 111, 897-906.	8.2	289
9	Arterial and Aortic Valve Calcification Abolished by Elastolytic Cathepsin S Deficiency in Chronic Renal Disease. Circulation, 2009, 119, 1785-1794.	1.6	272
10	Interleukin-17A Contributes to Myocardial Ischemia/Reperfusion Injury by Regulating Cardiomyocyte Apoptosis and Neutrophil Infiltration. Journal of the American College of Cardiology, 2012, 59, 420-429.	2.8	250
11	Optical Visualization of Cathepsin K Activity in Atherosclerosis With a Novel, Protease-Activatable Fluorescence Sensor. Circulation, 2007, 115, 2292-2298.	1.6	241
12	Cathepsin S Controls Angiogenesis and Tumor Growth via Matrix-derived Angiogenic Factors. Journal of Biological Chemistry, 2006, 281, 6020-6029.	3.4	229
13	Role for Cathepsin F in Invariant Chain Processing and Major Histocompatibility Complex Class II Peptide Loading by Macrophages. Journal of Experimental Medicine, 2000, 191, 1177-1186.	8.5	216
14	Cathepsin L-selective inhibitors: A potentially promising treatment for COVID-19 patients. , 2020, 213, 107587.		216
15	Cathepsin S Controls the Trafficking and Maturation of Mhc Class II Molecules in Dendritic Cells. Journal of Cell Biology, 1999, 147, 775-790.	5.2	210
16	Mast cells modulate the pathogenesis of elastase-induced abdominal aortic aneurysms in mice. Journal of Clinical Investigation, 2007, 117, 3359-3368.	8.2	209
17	Cathepsin L expression and regulation in human abdominal aortic aneurysm, atherosclerosis, and vascular cells. Atherosclerosis, 2006, 184, 302-311.	0.8	187
18	Deficiency of cathepsin S reduces atherosclerosis in LDL receptorâ€“deficient mice. Journal of Clinical Investigation, 2003, 111, 897-906.	8.2	161

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19	Molecular cloning of human cathepsin O, a novel endoproteinase and homologue of rabbit OC2. FEBS Letters, 1995, 357, 129-134.	2.8	151
20	IgE stimulates human and mouse arterial cell apoptosis and cytokine expression and promotes atherogenesis in Apoeâ€"/â€" mice. Journal of Clinical Investigation, 2011, 121, 3564-3577.	8.2	149
21	Cystatin C Deficiency Increases Elastic Lamina Degradation and Aortic Dilatation in Apolipoprotein Eâ€"Null Mice. Circulation Research, 2005, 96, 368-375.	4.5	144
22	Human Cathepsin F. Journal of Biological Chemistry, 1998, 273, 32000-32008.	3.4	136
23	Cysteine protease cathepsins in cardiovascular disease: from basic research to clinical trials. Nature Reviews Cardiology, 2018, 15, 351-370.	13.7	136
24	Role for Cysteine Protease Cathepsins in Heart Disease. Circulation, 2012, 125, 1551-1562.	1.6	133
25	Cathepsin L Deficiency Reduces Diet-Induced Atherosclerosis in Low-Density Lipoprotein Receptorâ€"Knockout Mice. Circulation, 2007, 115, 2065-2075.	1.6	120
26	Increased serum cathepsin S in patients with atherosclerosis and diabetes. Atherosclerosis, 2006, 186, 411-419.	0.8	108
27	Leptin Deficiency Shifts Mast Cells toward Anti-Inflammatory Actions and Protects Mice from Obesity and Diabetes by Polarizing M2 Macrophages. Cell Metabolism, 2015, 22, 1045-1058.	16.2	107
28	Expression of cathepsin K is regulated by shear stress in cultured endothelial cells and is increased in endothelium in human atherosclerosis. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H1479-H1486.	3.2	104
29	Deficiency of cathepsin S attenuates angiotensin II-induced abdominal aortic aneurysm formation in apolipoprotein E-deficient mice. Cardiovascular Research, 2012, 96, 401-410.	3.8	97
30	Mast cells in human and experimental cardiometabolic diseases. Nature Reviews Cardiology, 2015, 12, 643-658.	13.7	95
31	Cathepsin K Deficiency Reduces Elastase Perfusionâ€"Induced Abdominal Aortic Aneurysms in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 15-23.	2.4	89
32	Elastolytic Cathepsin Induction/Activation System Exists in Myocardium and Is Upregulated in Hypertensive Heart Failure. Hypertension, 2006, 48, 979-987.	2.7	87
33	Interleukin 18 function in atherosclerosis is mediated by the interleukin 18 receptor and the Na-Cl co-transporter. Nature Medicine, 2015, 21, 820-826.	30.7	81
34	Deficiency and Inhibition of Cathepsin K Reduce Body Weight Gain and Increase Glucose Metabolism in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 2202-2208.	2.4	78
35	Cathepsin K Knockout Mitigates High-Fat Dietâ€"Induced Cardiac Hypertrophy and Contractile Dysfunction. Diabetes, 2013, 62, 498-509.	0.6	77
36	Deficiency of Antigen-Presenting Cell Invariant Chain Reduces Atherosclerosis in Mice. Circulation, 2010, 122, 808-820.	1.6	76

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37	IgE actions on <scp>CD</scp>4⁺ T cells, mast cells, and macrophages participate in the pathogenesis of experimental abdominal aortic aneurysms. EMBO Molecular Medicine, 2014, 6, 952-969.	6.9	76
38	Localization of Cysteine Protease, Cathepsin S, to the Surface of Vascular Smooth Muscle Cells by Association with Integrin Î±Î½Î²3. American Journal of Pathology, 2006, 168, 685-694.	3.8	74
39	Cathepsin L Activity Is Essential to Elastase Perfusionâ€“Induced Abdominal Aortic Aneurysms in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2500-2508.	2.4	71
40	Cathepsin S Activity Controls Injury-Related Vascular Repair in Mice via the TLR2-Mediated p38MAPK and PI3Kâ^Akt/p-HDAC6 Signaling Pathway. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1549-1557.	2.4	70
41	Eosinophils improve cardiac function after myocardial infarction. Nature Communications, 2020, 11, 6396.	12.8	68
42	Cathepsin K-mediated notch1 activation contributes to neovascularization in response to hypoxia. Nature Communications, 2014, 5, 3838.	12.8	67
43	Superoxide-Dependent Cathepsin Activation Is Associated with Hypertensive Myocardial Remodeling and Represents a Target for Angiotensin II Type 1 Receptor Blocker Treatment. American Journal of Pathology, 2008, 173, 358-369.	3.8	55
44	Cystatin C Deficiency Promotes Inflammation in Angiotensin IIâ€“Induced Abdominal Aortic Aneurisms in Atherosclerotic Mice. American Journal of Pathology, 2010, 177, 456-463.	3.8	53
45	Cysteinyl cathepsins and mast cell proteases in the pathogenesis and therapeutics of cardiovascular diseases. , 2011, 131, 338-350.		53
46	Cathepsin S-mediated fibroblast trans-differentiation contributes to left ventricular remodelling after myocardial infarction. Cardiovascular Research, 2013, 100, 84-94.	3.8	50
47	Different Roles of Mast Cells in Obesity and Diabetes: Lessons from Experimental Animals and Humans. Frontiers in Immunology, 2012, 3, 7.	4.8	47
48	Regulatory T cells in human and angiotensin II-induced mouse abdominal aortic aneurysms. Cardiovascular Research, 2015, 107, 98-107.	3.8	47
49	The Transcription Factor Early Growth-response Factor 1 Modulates Tumor Necrosis Factor- Î± , Immunoglobulin E, and Airway Responsiveness in Mice. American Journal of Respiratory and Critical Care Medicine, 2001, 163, 778-785.	5.6	46
50	Usefulness of Serum Cathepsin L as an Independent Biomarker in Patients With Coronary Heart Disease. American Journal of Cardiology, 2009, 103, 476-481.	1.6	46
51	Plasma Cathepsin S and Cystatin C Levels and Risk of Abdominal Aortic Aneurysm: A Randomized Populationâ€“Based Study. PLoS ONE, 2012, 7, e41813.	2.5	46
52	Cathepsin K Activity Controls Injury-Related Vascular Repair in Mice. Hypertension, 2014, 63, 607-615.	2.7	46
53	Functional Inactivation of Mast Cells Enhances Subcutaneous Adipose Tissue Browning in Mice. Cell Reports, 2019, 28, 792-803.e4.	6.4	45
54	Cathepsin K Knockout Alleviates Pressure Overloadâ€“Induced Cardiac Hypertrophy. Hypertension, 2013, 61, 1184-1192.	2.7	43

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55	IL (Interleukin)-33 Suppresses Abdominal Aortic Aneurysm by Enhancing Regulatory T-Cell Expansion and Activity. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 446-458.	2.4	43
56	Adipocytes promote interleukin-18 binding to its receptors during abdominal aortic aneurysm formation in mice. European Heart Journal, 2020, 41, 2456-2468.	2.2	42
57	Cathepsin K knockout alleviates agingâ€induced cardiac dysfunction. Aging Cell, 2015, 14, 345-351.	6.7	41
58	Cathepsin S Deficiency Mitigated Chronic Stressâ€"Related Neointimal Hyperplasia in Mice. Journal of the American Heart Association, 2019, 8, e011994.	3.7	41
59	IgE Contributes to Atherosclerosis and Obesity by Affecting Macrophage Polarization, Macrophage Protein Network, and Foam Cell Formation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 597-610.	2.4	41
60	Plasma levels of cathepsins L, K, and V and risks of abdominal aortic aneurysms: A randomized population-based study. Atherosclerosis, 2013, 230, 100-105.	0.8	34
61	Cutting Edge: Deficiency of Macrophage Migration Inhibitory Factor Impairs Murine Airway Allergic Responses. Journal of Immunology, 2006, 177, 5779-5784.	0.8	33
62	Eosinophils Protect Mice From Angiotensin-II Perfusionâ€"Induced Abdominal Aortic Aneurysm. Circulation Research, 2021, 128, 188-202.	4.5	33
63	Cathepsin <scp>K</scp> activity controls cardiotoxinâ€induced skeletal muscle repair in mice. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 160-175.	7.3	32
64	Calcium-activated chloride channel regulator 1 (CLCA1): More than a regulator of chloride transport and mucus production. World Allergy Organization Journal, 2019, 12, 100077.	3.5	31
65	Differential Roles of Cysteinyl Cathepsins in TGF-Î² Signaling and Tissue Fibrosis. IScience, 2019, 19, 607-622.	4.1	30
66	Allergic Lung Inflammation Aggravates Angiotensin IIâ€"Induced Abdominal Aortic Aneurysms in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 69-77.	2.4	29
67	Impaired Thymic Export and Apoptosis Contribute to Regulatory T-Cell Defects in Patients with Chronic Heart Failure. PLoS ONE, 2011, 6, e24272.	2.5	27
68	Renin inhibition reduces atherosclerotic plaque neovessel formation and regresses advanced atherosclerotic plaques. Atherosclerosis, 2014, 237, 739-747.	0.8	27
69	Na+-H+ exchanger 1 determines atherosclerotic lesion acidification and promotes atherogenesis. Nature Communications, 2019, 10, 3978.	12.8	25
70	Pharmaceutical stabilization of mast cells attenuates experimental atherogenesis in low-density lipoprotein receptor-deficient mice. Atherosclerosis, 2013, 229, 304-309.	0.8	24
71	Mechanisms With Clinical Implications for Atrial Fibrillationâ€"Associated Remodeling: Cathepsin K Expression, Regulation, and Therapeutic Target and Biomarker. Journal of the American Heart Association, 2013, 2, e000503.	3.7	24
72	Cystatin C Deficiency Promotes Epidermal Dysplasia in K14-HPV16 Transgenic Mice. PLoS ONE, 2010, 5, e13973.	2.5	24

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73	Inhibition of mineralocorticoid receptor is a renoprotective effect of the 3-hydroxy-3-methylglutaryl-coenzyme A reductase inhibitor pitavastatin. Journal of Hypertension, 2011, 29, 542-552.	0.5	23
74	Cysteinyl cathepsins in cardiovascular diseases. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140360.	2.3	23
75	Role of cathepsin C in elastase-induced mouse abdominal aortic aneurysms. Future Cardiology, 2007, 3, 591-593.	1.2	21
76	Plasma cytokine levels and risks of abdominal aortic aneurysms: A population-based prospective cohort study. Annals of Medicine, 2015, 47, 245-252.	3.8	21
77	Cathepsin K Deficiency Ameliorates Systemic Lupus Erythematosus-like Manifestations in Faslpr Mice. Journal of Immunology, 2017, 198, 1846-1854.	0.8	21
78	Asthma Associates With Human Abdominal Aortic Aneurysm and Rupture. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 570-578.	2.4	20
79	Toll-like receptor 7 deficiency protects apolipoprotein E-deficient mice from diet-induced atherosclerosis. Scientific Reports, 2017, 7, 847.	3.3	20
80	Cathepsin K-deficiency impairs mouse cardiac function after myocardial infarction. Journal of Molecular and Cellular Cardiology, 2019, 127, 44-56.	1.9	19
81	Innate Immune Cells in Pressure Overload-Induced Cardiac Hypertrophy and Remodeling. Frontiers in Cell and Developmental Biology, 2021, 9, 659666.	3.7	19
82	Defective circulating CD4+LAP+ regulatory T cells in patients with dilated cardiomyopathy. Journal of Leukocyte Biology, 2015, 97, 797-805.	3.3	18
83	Cathepsin B deficiency ameliorates liver lipid deposition, inflammatory cell infiltration, and fibrosis after diet-induced nonalcoholic steatohepatitis. Translational Research, 2020, 222, 28-40.	5.0	18
84	Mast Cells in Abdominal Aortic Aneurysms. Current Vascular Pharmacology, 2013, 11, 314-326.	1.7	18
85	Interaction between allergic asthma and atherosclerosis. Translational Research, 2016, 174, 5-22.	5.0	17
86	Comprehensive Transcriptome of Proteases and Protease Inhibitors in Vascular Cells. Stroke, 2006, 37, 537-541.	2.0	16
87	Mast cell-deficiency protects mice from streptozotocin-induced diabetic cardiomyopathy. Translational Research, 2019, 208, 1-14.	5.0	16
88	Regulatory T cells promote adipocyte beiging in subcutaneous adipose tissue. FASEB Journal, 2020, 34, 9755-9770.	0.5	16
89	Allergic lung inflammation promotes atherosclerosis in apolipoprotein E-deficient mice. Translational Research, 2016, 171, 1-16.	5.0	15
90	Dietary cholesterol is essential to mast cell activation and associated obesity and diabetes in mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 1690-1700.	3.8	14

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91	Functional Diversities of Regulatory T Cells in the Context of Cancer Immunotherapy. Frontiers in Immunology, 2022, 13, 833667.	4.8	14
92	CD74 Deficiency Mitigates Systemic Lupus Erythematosusâ€“like Autoimmunity and Pathological Findings in Mice. Journal of Immunology, 2017, 198, 2568-2577.	0.8	13
93	Deficiency of cysteinyl cathepsin K suppresses the development of experimental intimal hyperplasia in response to chronic stress. Journal of Hypertension, 2020, 38, 1514-1524.	0.5	13
94	Cathepsin K Knockout Exacerbates Haemorrhagic Transformation Induced by Recombinant Tissue Plasminogen Activator After Focal Cerebral Ischaemia in Mice. Cellular and Molecular Neurobiology, 2019, 39, 823-831.	3.3	11
95	Therapeutic potential of tricarboxylic acid cycle metabolite itaconate in cardiovascular diseases. EBioMedicine, 2020, 59, 102938.	6.1	10
96	Cathepsin K Deficiency Prevents the Aggravated Vascular Remodeling Response to Flow Cessation in ApoE-/- Mice. PLoS ONE, 2016, 11, e0162595.	2.5	9
97	Deficiency of immunoglobulin E protects mice from experimental abdominal aortic aneurysms. FASEB Journal, 2020, 34, 3091-3104.	0.5	9
98	Plasma Cystatin B Association With Abdominal Aortic Aneurysms and Need for Later Surgical Repair: A Sub-study of the VIVA Trial. European Journal of Vascular and Endovascular Surgery, 2018, 56, 826-832.	1.5	8
99	Allergic asthma is a risk factor for human cardiovascular diseases. , 2022, 1, 417-430.		8
100	Cathepsin K Deficiency Prevented Kidney Damage and Dysfunction in Response to 5/6 Nephrectomy Injury in Mice With or Without Chronic Stress. Hypertension, 2022, 79, 1713-1723.	2.7	8
101	Deficiency of mouse mast cell protease 4 mitigates cardiac dysfunctions in mice after myocardium infarction. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 1170-1181.	3.8	7
102	Reduced Nhe1 (Na ⁺ -H ⁺ Exchanger-1) Function Protects ApoE-Deficient Mice From Ang II (Angiotensin II)â€“Induced Abdominal Aortic Aneurysms. Hypertension, 2020, 76, 87-100.	2.7	7
103	Interleukin-18, matrix metalloproteinase-22 and -29 are independent risk factors of human coronary heart disease. Journal of Zhejiang University: Science B, 2017, 18, 685-695.	2.8	6
104	Cathepsin S-Mediated Negative Regulation of Wnt5a/SC35 Activation Contributes to Ischemia-Induced Neovascularization in Aged Mice. Circulation Journal, 2019, 83, 2537-2546.	1.6	6
105	Deficiency of FcÏµR1 Increases Body Weight Gain but Improves Glucose Tolerance in Diet-Induced Obese Mice. Endocrinology, 2015, 156, 4047-4058.	2.8	5
106	Eosinophils protect pressure overload- and Î²-adrenoreceptor agonist-induced cardiac hypertrophy. Cardiovascular Research, 2023, 119, 195-212.	3.8	5
107	Tilting at the tilted protease balance in arterial aneurysmal disease. Cardiovascular Research, 2017, 113, 1279-1281.	3.8	4
108	Pathogenesis of aortic aneurysms. , 0, , 227-246.		1

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109	Abstract 15122: Il18 Uses Both Il18 Receptor and Na-cl Co-transporter to Support Islet Î² Cell Proliferation and Insulin Secretion. Circulation, 2020, 142, .	1.6	0