Ilze Bot

List of Publications by Year
in descending order

104 papers	4,972 citations	81743 39 h-index	102304 66 g-index
104 all docs	104 docs citations	104 times ranked	7257 citing authors

#	Article	IF	Citations
1	Protective Role of CXC Receptor 4/CXC Ligand 12 Unveils the Importance of Neutrophils in Atherosclerosis. Circulation Research, 2008, 102, 209-217.	2.0	363
2	SDF-1Î±/CXCR4 Axis Is Instrumental in Neointimal Hyperplasia and Recruitment of Smooth Muscle Progenitor Cells. Circulation Research, 2005, 96, 784-791.	2.0	345
3	Microanatomy of the Human Atherosclerotic Plaque by Single-Cell Transcriptomics. Circulation Research, 2020, 127, 1437-1455.	2.0	283
4	Perivascular Mast Cells Promote Atherogenesis and Induce Plaque Destabilization in Apolipoprotein Eâ€"Deficient Mice. Circulation, 2007, 115, 2516-2525.	1.6	248
5	Acute and chronic psychological stress as risk factors for cardiovascular disease: Insights gained from epidemiological, clinical and experimental studies. Brain, Behavior, and Immunity, 2015, 50, 18-30.	2.0	176
6	Growth differentiation factor 15 deficiency protects against atherosclerosis by attenuating CCR2-mediated macrophage chemotaxis. Journal of Experimental Medicine, 2011, 208, 217-225.	4.2	168
7	Fibrin and Activated Platelets Cooperatively Guide Stem Cells to a Vascular Injury and Promote Differentiation Towards an Endothelial Cell Phenotype. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 1653-1659.	1.1	136
8	Mast Cells as Effectors in Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 265-271.	1.1	115
9	Exendinâ€4 decreases liver inflammation and atherosclerosis development simultaneously by reducing macrophage infiltration. British Journal of Pharmacology, 2014, 171, 723-734.	2.7	95
10	Mast cells in human and experimental cardiometabolic diseases. Nature Reviews Cardiology, 2015, 12, 643-658.	6.1	95
11	Myocardin Regulates Vascular Smooth Muscle Cell Inflammatory Activation and Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 817-828.	1.1	92
12	Y-Box Binding Protein-1 Controls CC Chemokine Ligand-5 (CCL5) Expression in Smooth Muscle Cells and Contributes to Neointima Formation in Atherosclerosis-Prone Mice. Circulation, 2007, 116, 1812-1820.	1.6	91
13	Quaking promotes monocyte differentiation into pro-atherogenic macrophages by controlling pre-mRNA splicing and gene expression. Nature Communications, 2016, 7, 10846.	5.8	87
14	Quaking, an RNA-Binding Protein, Is a Critical Regulator of Vascular Smooth Muscle Cell Phenotype. Circulation Research, 2013, 113, 1065-1075.	2.0	86
15	Mast cells in human carotid atherosclerotic plaques are associated with intraplaque microvessel density and the occurrence of future cardiovascular events. European Heart Journal, 2013, 34, 3699-3706.	1.0	85
16	Differential effects of regulatory T cells on the initiation and regression of atherosclerosis. Atherosclerosis, 2011, 218, 53-60.	0.4	83
17	Vascular endothelial growth factor-A induces plaque expansion in ApoE knock-out mice by promoting de novo leukocyte recruitment. Blood, 2007, 109, 122-129.	0.6	73
18	Vaccination against Foxp3+ regulatory T cells aggravates atherosclerosis. Atherosclerosis, 2010, 209, 74-80.	0.4	72

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19	Short Communication: The Neuropeptide Substance P Mediates Adventitial Mast Cell Activation and Induces Intraplaque Hemorrhage in Advanced Atherosclerosis. Circulation Research, 2010, 106, 89-92.	2.0	62
20	Mast cell chymase inhibition reduces atherosclerotic plaque progression and improves plaque stability in ApoEâ^ˆ'/â^ˆ' mice. Cardiovascular Research, 2011, 89, 244-252.	1.8	61
21	Serine Protease Inhibitor Serp-1 Strongly Impairs Atherosclerotic Lesion Formation and Induces a Stable Plaque Phenotype in ApoEâˆ'/âˆ'Mice. Circulation Research, 2003, 93, 464-471.	2.0	59
22	Mast cells in atherosclerosis. Thrombosis and Haemostasis, 2011, 106, 820-826.	1.8	59
23	Scavenger Receptor-AIâ€"Targeted Iron Oxide Nanoparticles for In Vivo MRI Detection of Atherosclerotic Lesions. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1812-1819.	1.1	59
24	Leukocyte-Specific CCL3 Deficiency Inhibits Atherosclerotic Lesion Development by Affecting Neutrophil Accumulation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, e75-83.	1.1	59
25	Atherosclerotic Lesion Progression Changes Lysophosphatidic Acid Homeostasis to Favor its Accumulation. American Journal of Pathology, 2010, 176, 3073-3084.	1.9	58
26	Protease-Activated Receptor-2 Induces Myofibroblast Differentiation and Tissue Factor Up-Regulation during Bleomycin-Induced Lung Injury. American Journal of Pathology, 2010, 177, 2753-2764.	1.9	55
27	Lysophosphatidic acid triggers mast cell-driven atherosclerotic plaque destabilization by increasing vascular inflammation. Journal of Lipid Research, 2013, 54, 1265-1274.	2.0	55
28	Increased Plasma IgE Accelerate Atherosclerosis in Secreted IgM Deficiency. Circulation Research, 2017, 120, 78-84.	2.0	52
29	Interruption of the OX40â€"OX40 Ligand Pathway in LDL Receptorâ€"Deficient Mice Causes Regression of Atherosclerosis. Journal of Immunology, 2013, 191, 4573-4580.	0.4	51
30	A novel CCR2 antagonist inhibits atherogenesis in apoE deficient mice by achieving high receptor occupancy. Scientific Reports, 2017, 7, 52.	1.6	50
31	Leukocyte Cathepsin S Is a Potent Regulator of Both Cell and Matrix Turnover in Advanced Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 188-194.	1.1	49
32	Complement factor C5a as mast cell activator mediates vascular remodelling in vein graft disease. Cardiovascular Research, 2013, 97, 311-320.	1.8	49
33	Mast Cells Induce Vascular Smooth Muscle Cell Apoptosis via a Toll-Like Receptor 4 Activation Pathway. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1960-1969.	1.1	48
34	Mast cells in atherosclerotic cardiovascular disease â€" Activators and actions. European Journal of Pharmacology, 2017, 816, 37-46.	1.7	47
35	Nuclear Receptor Nurr1 Is Expressed In and Is Associated With Human Restenosis and Inhibits Vascular Lesion Formation In Mice Involving Inhibition of Smooth Muscle Cell Proliferation and Inflammation. Circulation, 2010, 121, 2023-2032.	1.6	46
36	Myocardin Regulates Vascular Response to Injury Through miR-24/-29a and Platelet-Derived Growth Factor Receptor-Î². Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 2355-2365.	1.1	46

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37	Systemic MCP1/CCR2 blockade and leukocyte specific MCP1/CCR2 inhibition affect aortic aneurysm formation differently. Atherosclerosis, 2010, 211, 84-89.	0.4	45
38	Atorvastatin inhibits plaque development and adventitial neovascularization in ApoE deficient mice independent of plasma cholesterol levels. Atherosclerosis, 2011, 214, 295-300.	0.4	44
39	CXCR4 blockade induces atherosclerosis by affecting neutrophil function. Journal of Molecular and Cellular Cardiology, 2014, 74, 44-52.	0.9	44
40	Mast cells mediate neutrophil recruitment during atherosclerotic plaque progression. Atherosclerosis, 2015, 241, 289-296.	0.4	42
41	CD8+ T-cells contribute to lesion stabilization in advanced atherosclerosis by limiting macrophage content and CD4+ T-cell responses. Cardiovascular Research, 2019, 115, 729-738.	1.8	41
42	T-Cell Immunoglobulin and Mucin Domain 3 Acts as a Negative Regulator of Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 2558-2565.	1.1	40
43	Lentiviral shRNA silencing of murine bone marrow cell CCR2 leads to persistent knockdown of CCR2 function in vivo. Blood, 2005, 106, 1147-1153.	0.6	39
44	Inhibition of MicroRNA-494 Reduces Carotid Artery Atherosclerotic Lesion Development and Increases Plaque Stability. Annals of Surgery, 2015, 262, 841-848.	2.1	39
45	Complement factor C5a induces atherosclerotic plaque disruptions. Journal of Cellular and Molecular Medicine, 2014, 18, 2020-2030.	1.6	36
46	Local lentiviral short hairpin RNA silencing of CCR2 inhibits vein graft thickening in hypercholesterolemic apolipoprotein E3-Leiden mice. Journal of Vascular Surgery, 2009, 50, 152-160.	0.6	35
47	Mast Cells in Cardiovascular Disease: From Bench to Bedside. International Journal of Molecular Sciences, 2019, 20, 3395.	1.8	34
48	Leucocyte cathepsin K affects atherosclerotic lesion composition and bone mineral density in low-density lipoprotein receptor deficient mice. Cardiovascular Research, 2008, 81, 278-285.	1.8	33
49	Myocardial regeneration by transplantation of modified endothelial progenitor cells expressing <scp>SDF</scp>â€1 in a rat model. Journal of Cellular and Molecular Medicine, 2012, 16, 2311-2320.	1.6	31
50	Viral Cross-Class Serpin Inhibits Vascular Inflammation and T Lymphocyte Fratricide; A Study in Rodent Models In Vivo and Human Cell Lines In Vitro. PLoS ONE, 2012, 7, e44694.	1.1	31
51	Vascular neuropeptide Y contributes to atherosclerotic plaque progression and perivascular mast cell activation. Atherosclerosis, 2014, 235, 196-203.	0.4	31
52	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC Working Group on Myocardial Function and the ESC Working Group on Cellular Biology of the Heart. Cardiovascular Research, 2022, 118, 3016-3051.	1.8	30
53	The Serpin Saga; Development of a New Class of Virus Derived Anti-Inflammatory Protein Immunotherapeutics. Advances in Experimental Medicine and Biology, 2009, 666, 132-156.	0.8	29
54	Akt2/LDLr double knockout mice display impaired glucose tolerance and develop more complex atherosclerotic plaques than LDLr knockout mice. Cardiovascular Research, 2014, 101, 277-287.	1.8	27

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55	The impact of mast cells on cardiovascular diseases. European Journal of Pharmacology, 2016, 778, 103-115.	1.7	26
56	Flow Cytometry-Based Characterization of Mast Cells in Human Atherosclerosis. Cells, 2019, 8, 334.	1.8	26
57	Hematopoietic Sphingosine 1-Phosphate Lyase Deficiency Decreases Atherosclerotic Lesion Development in LDL-Receptor Deficient Mice. PLoS ONE, 2013, 8, e63360.	1.1	26
58	RP105 deficiency attenuates early atherosclerosis via decreased monocyte influx in a CCR2 dependent manner. Atherosclerosis, 2015, 238, 132-139.	0.4	25
59	Low-Dose FK506 Blocks Collar-Induced Atherosclerotic Plaque Development and Stabilizes Plaques in ApoE-/- Mice. American Journal of Transplantation, 2005, 5, 1204-1215.	2.6	24
60	Oxidized Low-Density Lipoproteinâ€"Induced Apoptotic Dendritic Cells as a Novel Therapy for Atherosclerosis. Journal of Immunology, 2015, 194, 2208-2218.	0.4	24
61	Inhibition of lysophosphatidic acid receptors 1 and 3 attenuates atherosclerosis development in LDL-receptor deficient mice. Scientific Reports, 2016, 6, 37585.	1.6	23
62	Lipocalin-2 contributes to experimental atherosclerosis in a stage-dependent manner. Atherosclerosis, 2018, 275, 214-224.	0.4	23
63	Interference of the CD30â€"CD30L Pathway Reduces Atherosclerosis Development. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 2862-2868.	1.1	22
64	An Unexpected Intriguing Effect of Toll-Like Receptor Regulator RP105 (CD180) on Atherosclerosis Formation With Alterations on B-Cell Activation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 2810-2817.	1.1	22
65	Local Mast Cell Activation Promotes Neovascularization. Cells, 2020, 9, 701.	1.8	22
66	Mast cells in rheumatic disease. European Journal of Pharmacology, 2016, 778, 116-124.	1.7	21
67	Stress-induced mast cell activation contributes to atherosclerotic plaque destabilization. Scientific Reports, 2019, 9, 2134.	1.6	21
68	Diet-induced dyslipidemia induces metabolic and migratory adaptations in regulatory T cells. Cardiovascular Research, 2021, 117, 1309-1324.	1.8	21
69	Adenosine A_{2B}Receptor Agonism Inhibits Neointimal Lesion Development After Arterial Injury in Apolipoprotein Eâ€"Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 2197-2205.	1.1	20
70	Systemic mastocytosis associates with cardiovascular events despite lower plasma lipid levels. Atherosclerosis, 2018, 268, 152-156.	0.4	20
71	Mast Cells: Pivotal Players in Cardiovascular Diseases. Current Cardiology Reviews, 2008, 4, 170-178.	0.6	19
72	Deficiency of the TLR4 analogue RP105 aggravates vein graft disease by inducing a pro-inflammatory response. Scientific Reports, 2016, 6, 24248.	1.6	18

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73	Stressed brain, stressed heart?. Lancet, The, 2017, 389, 770-771.	6.3	18
74	Defective Autophagy in T Cells Impairs the Development of Diet-Induced Hepatic Steatosis and Atherosclerosis. Frontiers in Immunology, 2018, 9, 2937.	2.2	16
75	Antisense Oligonucleotide Inhibition of MicroRNA-494 Halts Atherosclerotic Plaque Progression and Promotes Plaque Stabilization. Molecular Therapy - Nucleic Acids, 2019, 18, 638-649.	2.3	16
76	Hematopoietic Gâ€proteinâ€coupled receptor kinase 2 deficiency decreases atherosclerotic lesion formation in LDL receptorâ€knockout mice. FASEB Journal, 2013, 27, 265-276.	0.2	15
77	Hypercholesterolemia Induces a Mast Cellâ€"CD4+ T Cell Interaction in Atherosclerosis. Journal of Immunology, 2019, 202, 1531-1539.	0.4	15
78	CD39 identifies a microenvironment-specific anti-inflammatory CD8+ T-cell population in atherosclerotic lesions. Atherosclerosis, 2019, 285, 71-78.	0.4	15
79	Circulating Immunoglobulins Are Not Associated with Intraplaque Mast Cell Number and Other Vulnerable Plaque Characteristics in Patients with Carotid Artery Stenosis. PLoS ONE, 2014, 9, e88984.	1.1	15
80	B- and T-lymphocyte attenuator stimulation protects against atherosclerosis by regulating follicular B cells. Cardiovascular Research, 2020, 116, 295-305.	1.8	13
81	Inhibition of microRNA-494-3p activates Wnt signaling and reduces proinflammatory macrophage polarization in atherosclerosis. Molecular Therapy - Nucleic Acids, 2021, 26, 1228-1239.	2.3	13
82	Disruption of a CD1d-mediated interaction between mast cells and NKT cells aggravates atherosclerosis. Atherosclerosis, 2019, 280, 132-139.	0.4	12
83	Agonistic Anti-TIGIT Treatment Inhibits T Cell Responses in LDLr Deficient Mice without Affecting Atherosclerotic Lesion Development. PLoS ONE, 2013, 8, e83134.	1.1	11
84	Magnetic resonance imaging contrast-enhancement with superparamagnetic iron oxide nanoparticles amplifies macrophage foam cell apoptosis in human and murine atherosclerosis. Cardiovascular Research, 2023, 118, 3346-3359.	1.8	11
85	Stimulation of the PD-1 Pathway Decreases Atherosclerotic Lesion Development in Ldlr Deficient Mice. Frontiers in Cardiovascular Medicine, 2021, 8, 740531.	1.1	10
86	Identification of an Internalising Peptide in Differentiated Calu-3 Cells by Phage Display Technology; Application to Gene Delivery to the Airways. Journal of Drug Targeting, 2003, 11, 383-390.	2.1	8
87	Mutation in KERA Identified by Linkage Analysis and Targeted Resequencing in a Pedigree with Premature Atherosclerosis. PLoS ONE, 2014, 9, e98289.	1.1	8
88	Selective Modulation of Nuclear Factor of Activated T-Cell Function in Restenosis by a Potent Bipartite Peptide Inhibitor. Circulation Research, 2012, 110, 200-210.	2.0	7
89	Identification of a novel CD40 ligand for targeted imaging of inflammatory plaques by phage display. FASEB Journal, 2013, 27, 4136-4146.	0.2	7
90	The role of mast cells in atherosclerosis. Hamostaseologie, 2015, 35, 113-120.	0.9	7

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91	Low human and murine Mcl-1 expression leads to a pro-apoptotic plaque phenotype enriched in giant-cells. Scientific Reports, 2019, 9, 14547.	1.6	5
92	Induction of HLA-A2 restricted CD8 T cell responses against ApoB100 peptides does not affect atherosclerosis in a humanized mouse model. Scientific Reports, 2019, 9, 17391.	1.6	5
93	Tc17 CD8+ T cells accumulate in murine atherosclerotic lesions, but do not contribute to early atherosclerosis development. Cardiovascular Research, 2021, 117, 2755-2766.	1.8	5
94	The complexity of substance P-mediated mast cell activation. Nature Reviews Cardiology, 2017, 14, 124-124.	6.1	4
95	Uremia does not affect neointima formation in mice. Scientific Reports, 2017, 7, 6496.	1.6	4
96	Leukocyte Bim deficiency does not impact atherogenesis in ldlr â^'/â^' mice, despite a pronounced induction of autoimmune inflammation. Scientific Reports, 2017, 7, 3086.	1.6	4
97	High LDL levels lessen bone destruction during antigen-induced arthritis by inhibiting osteoclast formation and function. Bone, 2020, 130, 115140.	1.4	4
98	Mast Cell Distribution in Human Carotid Atherosclerotic Plaque Differs Significantly by Histological Segment. European Journal of Vascular and Endovascular Surgery, 2021, 62, 808-815.	0.8	4
99	The Mast Cell. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 1337-1338.	1.1	3
100	The origin of atherosclerotic plaque cells: Plasticity or not?. Atherosclerosis, 2016, 251, 536-537.	0.4	2
101	Viral serine protease inhibitors as anti-atherosclerotic therapy. Current Opinion in Investigational Drugs, 2007, 8, 729-35.	2.3	2
102	Reply to: â€œThe â€œcholesterol paradoxâ€•in patients with mastocytosisâ€• Atherosclerosis, 2019, 284, 262-263.	0.4	1
103	Relaxing the artery: A new strategy to limit atherogenesis. Atherosclerosis, 2016, 251, 510-511.	0.4	0
104	Reply to â€œLipocalin-2 contributes to experimental atherosclerosis in a stage-dependent mannerâ€• Atherosclerosis, 2018, 278, 323-324.	0.4	0