Elisa Anamaria Liehn

List of Publications by Year
in descending order

106	5,901	71061	76872
papers	citations	41 h-index	74 g-index

109	109	109	7699
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Disrupting functional interactions between platelet chemokines inhibits atherosclerosis in hyperlipidemic mice. Nature Medicine, 2009, 15, 97-103.	15.2	404
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	Statin Treatment After Onset of Sepsis in a Murine Model Improves Survival. Circulation, 2005, 112, 117-124.	1.6	266
4	Ccr5 But Not Ccr1 Deficiency Reduces Development of Diet-Induced Atherosclerosis in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 373-379.	1.1	254
5	HMG-CoA Reductase Inhibitor Simvastatin Profoundly Improves Survival in a Murine Model of Sepsis. Circulation, 2004, 109, 2560-2565.	1.6	247
6	Importance of CXC Chemokine Receptor 2 in the Homing of Human Peripheral Blood Endothelial Progenitor Cells to Sites of Arterial Injury. Circulation Research, 2007, 100, 590-597.	2.0	224
7	Platelet Microparticles Enhance the Vasoregenerative Potential of Angiogenic Early Outgrowth Cells After Vascular Injury. Circulation, 2010, 122, 495-506.	1.6	184
8	Repair After Myocardial Infarction, Between Fantasy and Reality. Journal of the American College of Cardiology, 2011, 58, 2357-2362.	1.2	149
9	Regulation of endothelial progenitor cell homing after arterial injury. Thrombosis and Haemostasis, 2007, 98, 274-277.	1.8	139
10	Reduced numbers of circulating endothelial progenitor cells in patients with coronary artery disease associated with long-term statin treatment. Atherosclerosis, 2007, 192, 413-420.	0.4	135
11	CD73/Ecto-5â€²-Nucleotidase Protects Against Vascular Inflammation and Neointima Formation. Circulation, 2006, 113, 2120-2127.	1.6	128
12	Deficiency in CCR5 but not CCR1 protects against neointima formation in atherosclerosis-prone mice: involvement of IL-10. Blood, 2006, 107, 4240-4243.	0.6	126
13	Crucial Role of the CCL2/CCR2 Axis in Neointimal Hyperplasia After Arterial Injury in Hyperlipidemic Mice Involves Early Monocyte Recruitment and CCL2 Presentation on Platelets. Circulation Research, 2004, 95, 1125-1133.	2.0	125
14	Immune cells as targets for cardioprotection: new players and novel therapeutic opportunities. Cardiovascular Research, 2019, 115, 1117-1130.	1.8	125
15	CXCR6 Promotes Atherosclerosis by Supporting T-Cell Homing, Interferon-Î³ Production, and Macrophage Accumulation in the Aortic Wall. Circulation, 2007, 116, 1801-1811.	1.6	114
16	Double-Edged Role of the CXCL12/CXCR4 Axis in Experimental Myocardial Infarction. Journal of the American College of Cardiology, 2011, 58, 2415-2423.	1.2	114
17	Neointimal Smooth Muscle Cells Display a Proinflammatory Phenotype Resulting in Increased Leukocyte Recruitment Mediated by P-Selectin and Chemokines. Circulation Research, 2004, 94, 776-784.	2.0	110
18	A New Monocyte Chemotactic Protein-1/Chemokine CC Motif Ligand-2 Competitor Limiting Neointima Formation and Myocardial Ischemia/Reperfusion Injury in Mice. Journal of the American College of Cardiology, 2010, 56, 1847-1857.	1.2	110

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19	Transplantation of endothelial progenitor cells improves neovascularization and left ventricular function after myocardial infarction in a rat model. Basic Research in Cardiology, 2008, 103, 69-77.	2.5	106
20	NADPH Oxidase Nox2 Is Required for Hypoxia-Induced Mobilization of Endothelial Progenitor Cells. Circulation Research, 2009, 105, 537-544.	2.0	105
21	Neutrophil-Derived Cathelicidin Protects from Neointimal Hyperplasia. Science Translational Medicine, 2011, 3, 103ra98.	5.8	100
22	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
23	Involvement of JAM-A in Mononuclear Cell Recruitment on Inflamed or Atherosclerotic Endothelium. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 729-735.	1.1	79
24	Differential roles of angiogenic chemokines in endothelial progenitor cell-induced angiogenesis. Basic Research in Cardiology, 2013, 108, 310.	2.5	79
25	RNase1 prevents the damaging interplay between extracellular RNA and tumour necrosis factor-Î± in cardiac ischaemia/reperfusion injury. Thrombosis and Haemostasis, 2014, 112, 1110-1119.	1.8	79
26	Contribution of Platelet CX ₃ CR1 to Plateletâ€“Monocyte Complex Formation and Vascular Recruitment During Hyperlipidemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1186-1193.	1.1	76
27	Blockade of Keratinocyte-Derived Chemokine Inhibits Endothelial Recovery and Enhances Plaque Formation After Arterial Injury in ApoE-Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 1891-1896.	1.1	74
28	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
29	Role of Extracellular RNA in Atherosclerotic Plaque Formation in Mice. Circulation, 2014, 129, 598-606.	1.6	73
30	Importance of Junctional Adhesion Molecule-A for Neointimal Lesion Formation and Infiltration in Atherosclerosis-Prone Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, e10-3.	1.1	63
31	Blocking CCL5-CXCL4 heteromerization preserves heart function after myocardial infarction by attenuating leukocyte recruitment and NETosis. Scientific Reports, 2018, 8, 10647.	1.6	63
32	Deficiency of Endothelial Cxcr4 Reduces Reendothelialization and Enhances Neointimal Hyperplasia After Vascular Injury in Atherosclerosis-Prone Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1209-1220.	1.1	57
33	Regulation of endothelial progenitor cell homing after arterial injury. Thrombosis and Haemostasis, 2007, 98, 274-7.	1.8	57
34	Chemokines: Inflammatory mediators of atherosclerosis. Archives of Physiology and Biochemistry, 2006, 112, 229-238.	1.0	56
35	C1-Esterase Inhibitor Protects Against Neointima Formation After Arterial Injury in Atherosclerosis-Prone Mice. Circulation, 2008, 117, 70-78.	1.6	54
36	Compartmentalized Protective and Detrimental Effects of Endogenous Macrophage Migration-Inhibitory Factor Mediated by CXCR2 in a Mouse Model of Myocardial Ischemia/Reperfusion. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 2180-2186.	1.1	54

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37	Indium-111 oxine labelling affects the cellular integrity of haematopoietic progenitor cells. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 715-721.	3.3	52
38	FURIN Inhibition Reduces Vascular Remodeling and Atherosclerotic Lesion Progression in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 387-401.	1.1	51
39	Nrf2 augments skeletal muscle regeneration after ischaemiaâ€“reperfusion injury. Journal of Pathology, 2014, 234, 538-547.	2.1	48
40	Caffeine Enhances Endothelial Repair by an AMPK-Dependent Mechanism. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, 1967-1974.	1.1	47
41	From basic mechanisms to clinical applications in heart protection, new players in cardiovascular diseases and cardiac theranostics: meeting report from the third international symposium on â€œNew frontiers in cardiovascular researchâ€. Basic Research in Cardiology, 2016, 111, 69.	2.5	41
42	Polymeric Selectin Ligands Mimicking Complex Carbohydrates: From Selectin Binders to Modifiers of Macrophage Migration. Angewandte Chemie - International Edition, 2017, 56, 1416-1421.	7.2	41
43	Controlled intramyocardial release of engineered chemokines by biodegradable hydrogels as a treatment approach of myocardial infarction. Journal of Cellular and Molecular Medicine, 2014, 18, 790-800.	1.6	36
44	Molecular Ultrasound Imaging of Junctional Adhesion Molecule A Depicts Acute Alterations in Blood Flow and Early Endothelial Dysregulation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 40-48.	1.1	34
45	Identification of the Vasoconstriction-Inhibiting Factor (VIF), a Potent Endogenous Cofactor of Angiotensin II Acting on the Angiotensin II Type 2 Receptor. Circulation, 2015, 131, 1426-1434.	1.6	33
46	Effect of catheter-based transendocardial delivery of stromal cell-derived factor 1Î± on left ventricular function and perfusion in a porcine model of myocardial infarction. Basic Research in Cardiology, 2006, 101, 69-77.	2.5	32
47	Importance of Junctional Adhesion Molecule-C for Neointimal Hyperplasia and Monocyte Recruitment in Atherosclerosis-Prone Miceâ€“Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1161-1163.	1.1	32
48	Transplantation of Fetal Cardiomyocytes into Infarcted Rat Hearts Results in Long-Term Functional Improvement. Tissue Engineering, 2004, 10, 849-864.	4.9	31
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	Role of cold shock Y-box protein-1 in inflammation, atherosclerosis and organ transplant rejection. European Journal of Cell Biology, 2012, 91, 567-575.	1.6	31
51	The effect of platelet rich plasma on angiogenesis in ischemic flaps in VEGFR2-luc mice. Biomaterials, 2013, 34, 2674-2682.	5.7	30
52	Neutrophils Modulate Fibroblast Function and Promote Healing and Scar Formation after Murine Myocardial Infarction â€. International Journal of Molecular Sciences, 2020, 21, 3685.	1.8	28
53	Inhibiting cardiac myeloperoxidase alleviates the relaxation defect in hypertrophic cardiomyocytes. Cardiovascular Research, 2022, 118, 517-530.	1.8	27
54	Improved left ventricular function after transplantation of microspheres and fibroblasts in a rat model of myocardial infarction. Basic Research in Cardiology, 2009, 104, 403-411.	2.5	26

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55	Noninvasive Molecular Ultrasound Monitoring of Vessel Healing After Intravascular Surgical Procedures in a Preclinical Setup. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1366-1373.	1.1	25
56	Ultrasound Microbubbles for Diagnosis and Treatment of Cardiovascular Diseases. Seminars in Thrombosis and Hemostasis, 2020, 46, 545-552.	1.5	25
57	Transplantation of human umbilical vein endothelial cells improves left ventricular function in a rat model of myocardial infarction. Basic Research in Cardiology, 2005, 100, 208-216.	2.5	24
58	CXC chemokine KC fails to induce neutrophil infiltration and neoangiogenesis in a mouse model of myocardial infarction. Journal of Molecular and Cellular Cardiology, 2013, 60, 1-7.	0.9	24
59	Rhodamine-Loaded Intercellular Adhesion Moleculeâ€“1-targeted Microbubbles for Dual-Modality Imaging Under Controlled Shear Stresses. Circulation: Cardiovascular Imaging, 2013, 6, 974-981.	1.3	24
60	Apolipoprotein E in Cardiovascular Diseases: Novel Aspects of anÂOld-fashioned Enigma. Archives of Medical Research, 2018, 49, 522-529.	1.5	22
61	Cardiac FGF23: new insights into the role and function of FGF23 after acute myocardial infarction. Cardiovascular Pathology, 2019, 40, 47-54.	0.7	20
62	Proteomic-Biostatistic Integrated Approach for Finding the Underlying Molecular Determinants of Hypertension in Human Plasma. Hypertension, 2017, 70, 412-419.	1.3	19
63	Myocardial infarction is sufficient to increase GLPâ€1 secretion, leading to improved left ventricular contractility and mitochondrial respiratory capacity. Diabetes, Obesity and Metabolism, 2018, 20, 2911-2918.	2.2	19
64	Anti-Inflammatory Therapeutic Approaches to Reduce Acute Atherosclerotic Complications. Current Pharmaceutical Biotechnology, 2012, 13, 37-45.	0.9	18
65	Cardiomyocyte Hypertrophy in Arrhythmogenic Cardiomyopathy. American Journal of Pathology, 2017, 187, 752-766.	1.9	18
66	Lipid efflux mechanisms, relation to disease and potential therapeutic aspects. Advanced Drug Delivery Reviews, 2020, 159, 54-93.	6.6	18
67	Minimal Invasive Surgical Procedure of Inducing Myocardial Infarction in Mice. Journal of Visualized Experiments, 2015, , e52197.	0.2	17
68	Progress in interventional cardiology: challenges for the future. Thrombosis and Haemostasis, 2015, 113, 464-472.	1.8	17
69	Hemocompatibility of plasma electrolytic oxidation (PEO) coated Mg-RE and Mg-Zn-Ca alloys for vascular scaffold applications. Materials Science and Engineering C, 2018, 92, 819-826.	3.8	17
70	Biomechanical assessment of remote and postinfarction scar remodeling following myocardial infarction. Scientific Reports, 2019, 9, 16744.	1.6	17
71	Elevated expression of the metalloproteinase ADAM8 associates with vascular diseases in mice and humans. Atherosclerosis, 2019, 286, 163-171.	0.4	15
72	Identification of platelet-derived growth factor C as a mediator of both renal fibrosis and hypertension. Kidney International, 2019, 95, 1103-1119.	2.6	14

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73	Targeting In-Stent-Stenosis with RGD- and CXCL1-Coated Mini-Stents in Mice. PLoS ONE, 2016, 11, e0155829.	1.1	14
74	Effect of SDF-1 α on Endogenous Mobilized and Transplanted Stem Cells in Regeneration after Myocardial Infarction. Current Pharmaceutical Design, 2014, 20, 1964-1970.	0.9	14
75	A Novel Laser-Doppler Flowmetry Assisted Murine Model of Acute Hindlimb Ischemia-Reperfusion for Free Flap Research. PLoS ONE, 2013, 8, e66498.	1.1	13
76	Influence of Vitamin C on Antioxidant Capacity of In Vitro Perfused Porcine Kidneys. Nutrients, 2019, 11, 1774.	1.7	13
77	Apolipoprotein E deficient rats generated via zinc-finger nucleases exhibit pronounced in-stent restenosis. Scientific Reports, 2019, 9, 18153.	1.6	13
78	Response to Letter Regarding Article â€œRole of Extracellular RNA in Atherosclerotic Plaque Formation in Miceâ€• Circulation, 2014, 130, e144-5.	1.6	12
79	Phosphatidylserine Supplementation as a Novel Strategy for Reducing Myocardial Infarct Size and Preventing Adverse Left Ventricular Remodeling. International Journal of Molecular Sciences, 2021, 22, 4401.	1.8	11
80	Endothelial Progenitor Cells Modulate the Phenotype of Smooth Muscle Cells and Increase Their Neointimal Accumulation Following Vascular Injury. Thrombosis and Haemostasis, 2022, 122, 456-469.	1.8	11
81	AÂneutralizing IL-11 antibody reduces vessel hyperplasia in a mouse carotid artery wire injury model. Scientific Reports, 2021, 11, 20674.	1.6	11
82	An updated h-index measures both the primary and total scientific output of a researcher. Discoveries, 2015, 3, e50.	1.5	10
83	Role of the CX3C chemokine receptor CX3CR1 in the pathogenesis of atherosclerosis after aortic transplantation. PLoS ONE, 2017, 12, e0170644.	1.1	10
84	Recent Advancements of Specific Functionalized Surfaces of Magnetic Nano- and Microparticles as a Theranostics Source in Biomedicine. ACS Biomaterials Science and Engineering, 2021, 7, 1914-1932.	2.6	9
85	Intact fibroblast growth factor 23 levels and outcome prediction in patients with acute heart failure. Scientific Reports, 2021, 11, 15507.	1.6	9
86	Caffeine prevents restenosis and inhibits vascular smooth muscle cell proliferation through the induction of autophagy. Autophagy, 2022, 18, 2150-2160.	4.3	9
87	A Murine Model of Stent Implantation in the Carotid Artery for the Study of Restenosis. Journal of Visualized Experiments, 2013, , e50233.	0.2	5
88	Chemokine Contribution in Stem Cell Engraftment into the Infarcted Myocardium. Current Stem Cell Research and Therapy, 2013, 8, 278-283.	0.6	5
89	miR155 Deficiency Reduces Myofibroblast Density but Fails to Improve Cardiac Function after Myocardial Infarction in Dyslipidemic Mouse Model. International Journal of Molecular Sciences, 2021, 22, 5480.	1.8	5
90	Blockade of CCR3 retains the neutrophils, preserving their survival during healing after myocardial infarction. Discoveries, 2015, 3, e45.	1.5	5

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91	Advanced modular automated calculation of the morpho-histological parameters in myocardial infarction. Discoveries, 2016, 4, e66.	1.5	5
92	Induction of Accelerated Atherosclerosis in Mice: The "Wire-Injury" Model. Journal of Visualized Experiments, 2020, , .	0.2	5
93	Engagement of the CXCL12â€“CXCR4 Axis in the Interaction of Endothelial Progenitor Cell and Smooth Muscle Cell to Promote Phenotype Control and Guard Vascular Homeostasis. International Journal of Molecular Sciences, 2022, 23, 867.	1.8	5
94	Fibroblast Growth Factor 23 and Outcome Prediction in Patients with Acute Myocardial Infarction. Journal of Clinical Medicine, 2022, 11, 601.	1.0	5
95	Repetitive transplantation of different cell types sequentially improves heart function after infarction. Journal of Cellular and Molecular Medicine, 2012, 16, 1640-1647.	1.6	4
96	Establishment of a New Murine Elastase-Induced Aneurysm Model Combined with Transplantation. PLoS ONE, 2014, 9, e102648.	1.1	4
97	Apolipoprotein E4 Is Associated with Right Ventricular Dysfunction in Dilated Cardiomyopathyâ€”An Animal and In-Human Comparative Study. International Journal of Molecular Sciences, 2021, 22, 9688.	1.8	4
98	Heart function assessment during aging in apolipoprotein E knock-out mice. Discoveries, 2021, 9, e136.	1.5	4
99	Role of Microparticles as Messengers Enhancing Stem Cell Activity After Genetic Engineering. Circulation Research, 2012, 111, 265-267.	2.0	3
100	Introduction of a highâ€throughput doubleâ€stent animal model for the evaluation of biodegradable vascular stents. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 2023-2028.	1.6	2
101	Using the Sleeve Technique in a Mouse Model of Aortic Transplantation - An Instructional Video. Journal of Visualized Experiments, 2017, , .	0.2	2
102	Anti-inflammatory Gold-Induced Autologous Cytokines treatment triggers heart failure after myocardial infarction. Discoveries, 2017, 5, e80.	1.5	2
103	Implantation of Human-Sized Coronary Stents into Rat Abdominal Aorta Using a Trans-Femoral Access. Journal of Visualized Experiments, 2020, , .	0.2	2
104	CCR6 Deficiency Increases Infarct Size after Murine Acute Myocardial Infarction. Biomedicines, 2021, 9, 1532.	1.4	1
105	Abstract 16008: Improved Safety and Efficacy of a Novel Dual cRGD- and Everolimus-Coated Coronary Stent Compared to Everolimus-Eluting Stents in the Porcine Coronary Model. Circulation, 2014, 130, .	1.6	1
106	Dose-dependent impact of statin therapy intensity on circulating progenitor cells in patients undergoing percutaneous coronary intervention for the treatment of acute versus chronic coronary syndrome. PLoS ONE, 2022, 17, e0267433.	1.1	1