

# Lemin Zheng

## List of Publications by Year in descending order

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107  
papers

5,134  
citations

109321

35  
h-index

102487

66  
g-index

108  
all docs

108  
docs citations

108  
times ranked

6996  
citing authors

#	ARTICLE	IF	CITATIONS
1	Apolipoprotein A-I is a selective target for myeloperoxidase-catalyzed oxidation and functional impairment in subjects with cardiovascular disease. <i>Journal of Clinical Investigation</i> , 2004, 114, 529-541.	8.2	584
2	Apolipoprotein A-I is a selective target for myeloperoxidase-catalyzed oxidation and functional impairment in subjects with cardiovascular disease. <i>Journal of Clinical Investigation</i> , 2004, 114, 529-541.	8.2	333
3	Embedding Perovskite Nanocrystals into a Polymer Matrix for Tunable Luminescence Probes in Cell Imaging. <i>Advanced Functional Materials</i> , 2017, 27, 1604382.	14.9	328
4	The refined structure of nascent HDL reveals a key functional domain for particle maturation and dysfunction. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 861-868.	8.2	189
5	Localization of Nitration and Chlorination Sites on Apolipoprotein A-I Catalyzed by Myeloperoxidase in Human Atheroma and Associated Oxidative Impairment in ABCA1-dependent Cholesterol Efflux from Macrophages. <i>Journal of Biological Chemistry</i> , 2005, 280, 38-47.	3.4	180
6	Gut flora-dependent metabolite Trimethylamine-N-oxide accelerates endothelial cell senescence and vascular aging through oxidative stress. <i>Free Radical Biology and Medicine</i> , 2018, 116, 88-100.	2.9	174
7	Trimethylamine N-oxide in atherogenesis: impairing endothelial self-repair capacity and enhancing monocyte adhesion. <i>Bioscience Reports</i> , 2017, 37, .	2.4	171
8	Trimethylamine-N-oxide promotes brain aging and cognitive impairment in mice. <i>Aging Cell</i> , 2018, 17, e12768.	6.7	168
9	Insufficient Radiofrequency Ablation Promotes Angiogenesis of Residual Hepatocellular Carcinoma via HIF-1 $\alpha$ /VEGFA. <i>PLoS ONE</i> , 2012, 7, e37266.	2.5	111
10	Macrophage Foam Cell-Derived Extracellular Vesicles Promote Vascular Smooth Muscle Cell Migration and Adhesion. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	108
11	Apolipoprotein A-I Tryptophan Substitution Leads to Resistance to Myeloperoxidase-Mediated Loss of Function. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008, 28, 2063-2070.	2.4	91
12	Remote Ischemic Conditioning May Improve Outcomes of Patients With Cerebral Small-Vessel Disease. <i>Stroke</i> , 2017, 48, 3064-3072.	2.0	91
13	Ambient Air Pollution Is Associated With HDL (High-Density Lipoprotein) Dysfunction in Healthy Adults. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 513-522.	2.4	87
14	TMAVA, a Metabolite of Intestinal Microbes, Is Increased in Plasma From Patients With Liver Steatosis, Inhibits [ $^3$ -Butyrobetaine Hydroxylase, and Exacerbates Fatty Liver in Mice. <i>Gastroenterology</i> , 2020, 158, 2266-2281.e27.	1.3	87
15	Extreme Levels of Air Pollution Associated With Changes in Biomarkers of Atherosclerotic Plaque Vulnerability and Thrombogenicity in Healthy Adults. <i>Circulation Research</i> , 2019, 124, e30-e43.	4.5	79
16	After insufficient radiofrequency ablation, tumor-associated endothelial cells exhibit enhanced angiogenesis and promote invasiveness of residual hepatocellular carcinoma. <i>Journal of Translational Medicine</i> , 2012, 10, 230.	4.4	73
17	Insufficient radiofrequency ablation promotes epithelial-mesenchymal transition of hepatocellular carcinoma cells through Akt and ERK signaling pathways. <i>Journal of Translational Medicine</i> , 2013, 11, 273.	4.4	66
18	Untargeted metabolomics identifies succinate as a biomarker and therapeutic target in aortic aneurysm and dissection. <i>European Heart Journal</i> , 2021, 42, 4373-4385.	2.2	65

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19	High-density lipoprotein of patients with Type 2 Diabetes Mellitus upregulates cyclooxygenase-2 expression and prostacyclin I-2 release in endothelial cells: relationship with HDL-associated sphingosine-1-phosphate. <i>Cardiovascular Diabetology</i> , 2013, 12, 27.	6.8	64
20	Comprehensive metabolomics identified lipid peroxidation as a prominent feature in human plasma of patients with coronary heart diseases. <i>Redox Biology</i> , 2017, 12, 899-907.	9.0	59
21	Hypochlorite-induced oxidative stress elevates the capability of HDL in promoting breast cancer metastasis. <i>Journal of Translational Medicine</i> , 2012, 10, 65.	4.4	53
22	Coronary Plaque Characterization Assessed by Optical Coherence Tomography and Plasma Trimethylamine-N-oxide Levels in Patients With Coronary Artery Disease. <i>American Journal of Cardiology</i> , 2016, 118, 1311-1315.	1.6	53
23	Human apolipoprotein A-I induces cyclooxygenase-2 expression and prostaglandin I-2 release in endothelial cells through ATP-binding cassette transporter A1. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 301, C739-C748.	4.6	51
24	Screening of House Dust from Chinese Homes for Chemicals with Liver X Receptors Binding Activities and Characterization of Atherosclerotic Activity Using an <i>in Vitro</i> Macrophage Cell Line and ApoE <sup>-/-</sup> Mice. <i>Environmental Health Perspectives</i> , 2019, 127, 117003.	6.0	50
25	High-density lipoprotein of patients with type 2 diabetes mellitus elevates the capability of promoting migration and invasion of breast cancer cells. <i>International Journal of Cancer</i> , 2012, 131, 70-82.	5.1	49
26	HDL of Patients with Type 2 Diabetes Mellitus Elevates the Capability of Promoting Breast Cancer Metastasis. <i>Clinical Cancer Research</i> , 2012, 18, 1246-1256.	7.0	48
27	A Non-invasive Nanoprobe for In Vivo Photoacoustic Imaging of Vulnerable Atherosclerotic Plaque. <i>Advanced Materials</i> , 2020, 32, e2000037.	21.0	48
28	Diabetic HDL Is Dysfunctional in Stimulating Endothelial Cell Migration and Proliferation Due to Down Regulation of SR-BI Expression. <i>PLoS ONE</i> , 2012, 7, e48530.	2.5	47
29	Nonenzymatic glycation of high-density lipoprotein impairs its anti-inflammatory effects in innate immunity. <i>Diabetes/Metabolism Research and Reviews</i> , 2012, 28, 186-195.	4.0	44
30	YC-1 enhances the anti-tumor activity of sorafenib through inhibition of signal transducer and activator of transcription 3 (STAT3) in hepatocellular carcinoma. <i>Molecular Cancer</i> , 2014, 13, 7.	19.2	44
31	Annexin A1 alleviates kidney injury by promoting the resolution of inflammation in diabetic nephropathy. <i>Kidney International</i> , 2021, 100, 107-121.	5.2	44
32	Dux4 induces cell cycle arrest at G1 phase through upregulation of p21 expression. <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 235-240.	2.1	42
33	Construction of Nanodroplet/Adiposome and Artificial Lipid Droplets. <i>ACS Nano</i> , 2016, 10, 3312-3322.	14.6	42
34	The Attenuation of Diabetic Nephropathy by Annexin A1 via Regulation of Lipid Metabolism Through the AMPK/PPAR $\alpha$ /CPT1b Pathway. <i>Diabetes</i> , 2021, 70, 2192-2203.	0.6	42
35	Phloretin induces cell cycle arrest and apoptosis of human glioblastoma cells through the generation of reactive oxygen species. <i>Journal of Neuro-Oncology</i> , 2016, 128, 217-223.	2.9	40
36	Red AIE Luminogens with Tunable Organelle Specific Anchoring for Live Cell Dynamic Super Resolution Imaging. <i>Advanced Functional Materials</i> , 2021, 31, 2009329.	14.9	39

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37	Oxidized High-Density Lipoprotein Induces the Proliferation and Migration of Vascular Smooth Muscle Cells by Promoting the Production of ROS. <i>Journal of Atherosclerosis and Thrombosis</i> , 2014, 21, 204-216.	2.0	38
38	A novel anti-inflammatory mechanism of high density lipoprotein through up-regulating annexin A1 in vascular endothelial cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 501-512.	2.4	38
39	Endogenous cholesterol ester hydroperoxides modulate cholesterol levels and inhibit cholesterol uptake in hepatocytes and macrophages. <i>Redox Biology</i> , 2019, 21, 101069.	9.0	38
40	Sorafenib suppresses the epithelial-mesenchymal transition of hepatocellular carcinoma cells after insufficient radiofrequency ablation. <i>BMC Cancer</i> , 2015, 15, 939.	2.6	37
41	High-density lipoprotein nitration and chlorination catalyzed by myeloperoxidase impair its effect of promoting endothelial repair. <i>Free Radical Biology and Medicine</i> , 2013, 60, 272-281.	2.9	35
42	Gut microbiota production of trimethyl-5-aminovaleric acid reduces fatty acid oxidation and accelerates cardiac hypertrophy. <i>Nature Communications</i> , 2022, 13, 1757.	12.8	35
43	Proteomic analysis of porcine mesenchymal stem cells derived from bone marrow and umbilical cord: implication of the proteins involved in the higher migration capability of bone marrow mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , 2015, 6, 77.	5.5	31
44	Identification of a novel series of anti-inflammatory and anti-oxidative phospholipid oxidation products containing the cyclopentenone moiety in vitro and in vivo: Implication in atherosclerosis. <i>Journal of Biological Chemistry</i> , 2017, 292, 5378-5391.	3.4	30
45	Apolipoprotein A-1 mimetic peptide 4F promotes endothelial repairing and compromises reendothelialization impaired by oxidized HDL through SR-B1. <i>Redox Biology</i> , 2018, 15, 228-242.	9.0	30
46	HuR regulates phospholamban expression in isoproterenol-induced cardiac remodelling. <i>Cardiovascular Research</i> , 2020, 116, 944-955.	3.8	30
47	The compensatory enrichment of sphingosine -1- phosphate harbored on glycated high-density lipoprotein restores endothelial protective function in type 2 diabetes mellitus. <i>Cardiovascular Diabetology</i> , 2014, 13, 82.	6.8	28
48	Simultaneous targeted analysis of trimethylamine-N-oxide, choline, betaine, and carnitine by high performance liquid chromatography tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1035, 42-48.	2.3	28
49	Anxiolytic effects of hippocampal neurosteroids in normal and neuropathic rats with spared nerve injury. <i>Journal of Neurochemistry</i> , 2017, 141, 137-150.	3.9	28
50	Lamivudine/telbivudine-associated neuromyopathy: neurogenic damage, mitochondrial dysfunction and mitochondrial DNA depletion. <i>Journal of Clinical Pathology</i> , 2014, 67, 999-1005.	2.0	27
51	Oxidized low-density lipoprotein-induced microparticles promote endothelial monocyte adhesion via intercellular adhesion molecule 1. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 313, C567-C574.	4.6	27
52	Loss of LCAT activity in the golden Syrian hamster elicits pro-atherogenic dyslipidemia and enhanced atherosclerosis. <i>Metabolism: Clinical and Experimental</i> , 2018, 83, 245-255.	3.4	26
53	Elevated Neurosteroids in the Lateral Thalamus Relieve Neuropathic Pain in Rats with Spared Nerve Injury. <i>Neuroscience Bulletin</i> , 2016, 32, 311-322.	2.9	25
54	Endothelial microparticles after antihypertensive and lipid-lowering therapy inhibit the adhesion of monocytes to endothelial cells. <i>International Journal of Cardiology</i> , 2016, 202, 756-759.	1.7	25

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55	Intracellular near-Infrared Microlaser Probes Based on Organic Microsphereâ€“SiO <sub>2</sub> Coreâ€“Shell Structures for Cell Tagging and Tracking. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32981-32987.	8.0	24
56	Trimethylamine N-Oxide and Stroke Recurrence Depends on Ischemic Stroke Subtypes. <i>Stroke</i> , 2022, 53, 1207-1215.	2.0	24
57	High density lipoprotein promotes proliferation of adipose-derived stem cells via S1P1 receptor and Akt, ERK1/2 signal pathways. <i>Stem Cell Research and Therapy</i> , 2015, 6, 95.	5.5	23
58	COMP-prohibitin 2 interaction maintains mitochondrial homeostasis and controls smooth muscle cell identity. <i>Cell Death and Disease</i> , 2018, 9, 676.	6.3	23
59	Lysine glycation of apolipoprotein A-I impairs its anti-inflammatory function in type 2 diabetes mellitus. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 122, 47-57.	1.9	22
60	ICAM-1 Activates Platelets and Promotes Endothelial Permeability through VE-Cadherin after Insufficient Radiofrequency Ablation. <i>Advanced Science</i> , 2021, 8, 2002228.	11.2	22
61	Low Concentration of Caffeine Inhibits the Progression of the Hepatocellular Carcinoma & via Akt Signaling Pathway. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2015, 15, 484-492.	1.7	22
62	Myeloperoxidase-oxidized high density lipoprotein impairs atherosclerotic plaque stability by inhibiting smooth muscle cell migration. <i>Lipids in Health and Disease</i> , 2017, 16, 3.	3.0	21
63	Serum Metabolomic Profiling Identifies Characterization of Non-Obstructive Azoospermic Men. <i>International Journal of Molecular Sciences</i> , 2017, 18, 238.	4.1	21
64	Dapsone protects brain microvascular integrity from high-fat diet induced LDL oxidation. <i>Cell Death and Disease</i> , 2018, 9, 683.	6.3	21
65	ATPase Inhibitory Factor 1 Promotes Hepatocellular Carcinoma Progression After Insufficient Radiofrequency Ablation, and Attenuates Cell Sensitivity to Sorafenib Therapy. <i>Frontiers in Oncology</i> , 2020, 10, 1080.	2.8	21
66	Eva1a ameliorates atherosclerosis by promoting re-endothelialization of injured arteries via Rac1/Cdc42/Arpc1b. <i>Cardiovascular Research</i> , 2021, 117, 450-461.	3.8	21
67	High-density lipoprotein of patients with breast cancer complicated with type 2 diabetes mellitus promotes cancer cells adhesion to vascular endothelium via ICAM-1 and VCAM-1 upregulation. <i>Breast Cancer Research and Treatment</i> , 2016, 155, 441-455.	2.5	20
68	Organic-Nanowireâ€“SiO <sub>2</sub> Coreâ€“Shell Microlasers with Highly Polarized and Narrow Emissions for Biological Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7385-7391.	8.0	20
69	Association between Low Estimated Glomerular Filtration Rate and Risk of Cerebral Small-Vessel Diseases: A Meta-Analysis. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2016, 25, 710-716.	1.6	19
70	Anx1 in smooth muscle cells protects against acute aortic dissection. <i>Cardiovascular Research</i> , 2022, 118, 1564-1582.	3.8	19
71	AG1296 enhances plaque stability via inhibiting inflammatory responses and decreasing MMP-2 and MMP-9 expression in ApoE <sup>-/-</sup> mice. <i>Biochemical and Biophysical Research Communications</i> , 2017, 489, 426-431.	2.1	18
72	Treatment with the herbal medicine, naoxintong improves the protective effect of high-density lipoproteins on endothelial function in patients with type 2 diabetes. <i>Molecular Medicine Reports</i> , 2016, 13, 2007-2016.	2.4	17

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73	Short-term effects of ambient air pollution and outdoor temperature on biomarkers of myocardial damage, inflammation and oxidative stress in healthy adults. <i>Environmental Epidemiology</i> , 2019, 3, e078.	3.0	17
74	Organic nanoparticles with ultrahigh stimulated emission depletion efficiency for low-power STED nanoscopy. <i>Nanoscale</i> , 2019, 11, 12990-12996.	5.6	16
75	Association of endothelial microparticle with NO, eNOS, ET-1, and fractional flow reserve in patients with coronary intermediate lesions. <i>Biomarkers</i> , 2015, 20, 429-435.	1.9	15
76	Changes in the concentrations of trimethylamine N-oxide (TMAO) and its precursors in patients with amyotrophic lateral sclerosis. <i>Scientific Reports</i> , 2020, 10, 15198.	3.3	15
77	Organic Nanoparticles-Assisted Low-Power STED Nanoscopy. <i>Nano Letters</i> , 2021, 21, 3487-3494.	9.1	15
78	FMO3-TMAO axis modulates the clinical outcome in chronic heart-failure patients with reduced ejection fraction: evidence from an Asian population. <i>Frontiers of Medicine</i> , 2022, 16, 295-305.	3.4	14
79	Effect of Lipoprotein(a) on Stroke Recurrence Attenuates at Low LDL-C (Low-Density Lipoprotein) and Inflammation Levels. <i>Stroke</i> , 2022, 53, 2504-2511.	2.0	14
80	VEGF111b, a new member of VEGFxxxb isoforms and induced by mitomycin C, inhibits angiogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2013, 441, 18-24.	2.1	13
81	15-oxoeicosatetraenoic acid mediates monocyte adhesion to endothelial cell. <i>Lipids in Health and Disease</i> , 2017, 16, 137.	3.0	13
82	p38 $\delta$ in macrophages aggravates arterial endothelium injury by releasing IL-6 through phosphorylating megakaryocytic leukemia 1. <i>Redox Biology</i> , 2021, 38, 101775.	9.0	13
83	Perturbation of amino acid metabolism mediates air pollution associated vascular dysfunction in healthy adults. <i>Environmental Research</i> , 2021, 201, 111512.	7.5	13
84	Prognostic Value of Elevated Levels of Plasma N-Acetylneuraminic Acid in Patients With Heart Failure. <i>Circulation: Heart Failure</i> , 2021, 14, e008459.	3.9	13
85	HDL in diabetic nephropathy has less effect in endothelial repairing than diabetes without complications. <i>Lipids in Health and Disease</i> , 2016, 15, 76.	3.0	12
86	Autophagy inhibits C2-ceramide-mediated cell death by decreasing the reactive oxygen species levels in SH-SY5Y cells. <i>Neuroscience Letters</i> , 2017, 651, 198-206.	2.1	12
87	Polarity-activated super-resolution imaging probe for the formation and morphology of amyloid fibrils. <i>Nano Research</i> , 2020, 13, 2556-2563.	10.4	12
88	High-circulating gut microbiota-dependent metabolite trimethylamine N-oxide is associated with poor prognosis in pulmonary arterial hypertension. <i>European Heart Journal Open</i> , 2022, 2, .	2.3	12
89	Connexin43 and Myocardial Ischemia-Reperfusion Injury. <i>Cardiovascular &amp; Hematological Disorders Drug Targets</i> , 2018, 18, 14-16.	0.7	10
90	Exercise training prevented endothelium dysfunction from particulate matter instillation in Wistar rats. <i>Science of the Total Environment</i> , 2019, 694, 133674.	8.0	10

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91	Human Surfactant Protein A2 Gene Mutations Impair Dimer/Trimer Assembly Leading to Deficiency in Protein Sialylation and Secretion. <i>PLoS ONE</i> , 2012, 7, e46559.	2.5	10
92	VEGF111b, a C-terminal splice variant of VEGF-A and induced by mitomycin C, inhibits ovarian cancer growth. <i>Journal of Translational Medicine</i> , 2015, 13, 164.	4.4	9
93	Time course of various cell origin circulating microparticles in ST-segment elevation myocardial infarction patients undergoing percutaneous transluminal coronary intervention. <i>Experimental and Therapeutic Medicine</i> , 2016, 11, 1481-1486.	1.8	9
94	HDL Structure. <i>Advances in Experimental Medicine and Biology</i> , 2022, 1377, 1-11.	1.6	9
95	Correlations of platelet-derived microparticles with thromboxane B2, platelet-activating factor, endothelin-1, and neutrophil to lymphocyte ratio in patients with coronary intermediate lesions. <i>Biomarkers</i> , 2014, 19, 684-692.	1.9	8
96	Association of betaine with blood pressure in dialysis patients. <i>Journal of Clinical Hypertension</i> , 2018, 20, 388-393.	2.0	8
97	LC-MS-Based Metabolomics and Lipidomics Study of High-Density-Lipoprotein-Modulated Glucose Metabolism with an apoA-I Knockout Mouse Model. <i>Journal of Proteome Research</i> , 2018, 18, 48-56.	3.7	7
98	Apolipoprotein C-III in the high-density lipoprotein proteome of cerebral lacunar infarction patients impairs its anti-inflammatory function. <i>International Journal of Molecular Medicine</i> , 2018, 41, 61-68.	4.0	7
99	Integrating Choline and Specific Intestinal Microbiota to Classify Type 2 Diabetes in Adults: A Machine Learning Based Metagenomics Study. <i>Frontiers in Endocrinology</i> , 0, 13, .	3.5	7
100	A novel hydrodynamic approach of drag-reducing polymers to improve left ventricular hypertrophy and aortic remodeling in spontaneously hypertensive rats. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 6743-6751.	6.7	6
101	Association Between Plasma Trimethyllysine and Prognosis of Patients With Ischemic Stroke. <i>Journal of the American Heart Association</i> , 2021, 10, e020979.	3.7	6
102	Elevated lipoprotein(a) and lipoprotein-associated phospholipase A2 are associated with unfavorable functional outcomes in patients with ischemic stroke. <i>Journal of Neuroinflammation</i> , 2021, 18, 307.	7.2	6
103	Proteomic research of high-glucose-activated endothelial microparticles and related proteins to Alzheimer's disease. <i>Diabetes and Vascular Disease Research</i> , 2015, 12, 467-470.	2.0	5
104	Discrepant relationships between admission blood pressure and mortality in different stroke subtypes. <i>Journal of the Neurological Sciences</i> , 2017, 383, 47-51.	0.6	5
105	Neuraminidase inhibitor treatment is associated with decreased mortality in COVID-19 patients: a retrospective analysis. <i>European Heart Journal - Cardiovascular Pharmacotherapy</i> , 2022, 8, 392-401.	3.0	4
106	Effects of Diabetic HDL on Endothelial Cell Function. <i>Cardiovascular &amp; Hematological Disorders Drug Targets</i> , 2014, 14, 137-141.	0.7	3
107	Plasma Metabolomic and Lipidomic Profiling of a Genetically Modified Mouse Model of Scavenger Receptor Class B Type I. <i>Proteomics</i> , 2020, 20, 2000050.	2.2	1