

# Amir Ravandi

## List of Publications by Year in descending order

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113  
papers

3,426  
citations

147801

31  
h-index

161849

54  
g-index

117  
all docs

117  
docs citations

117  
times ranked

4264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidized Phospholipids on Lipoprotein(a) Elicit Arterial Wall Inflammation and an Inflammatory Monocyte Response in Humans. <i>Circulation</i> , 2016, 134, 611-624.	1.6	396
2	Differential expression of oxidation-specific epitopes and apolipoprotein(a) in progressing and ruptured human coronary and carotid atherosclerotic lesions. <i>Journal of Lipid Research</i> , 2012, 53, 2773-2790.	4.2	131
3	Differential effects of pentaerythritol tetranitrate and nitroglycerin on the development of tolerance and evidence of lipid peroxidation: a human in vivo study. <i>Journal of the American College of Cardiology</i> , 2001, 38, 854-859.	2.8	127
4	Apolipoprotein A-I Promotes the Formation of Phosphatidylcholine Core Aldehydes That Are Hydrolyzed by Paraoxonase (PON-1) during High Density Lipoprotein Oxidation with a Peroxynitrite Donor. <i>Journal of Biological Chemistry</i> , 2001, 276, 24473-24481.	3.4	127
5	Relationship of IgG and IgM autoantibodies and immune complexes to oxidized LDL with markers of oxidation and inflammation and cardiovascular events: results from the EPIC-Norfolk Study. <i>Journal of Lipid Research</i> , 2011, 52, 1829-1836.	4.2	113
6	Flaxseed Consumption Reduces Blood Pressure in Patients With Hypertension by Altering Circulating Oxylipins via an $\omega$ -3-Linolenic Acid-Induced Inhibition of Soluble Epoxide Hydrolase. <i>Hypertension</i> , 2014, 64, 53-59.	2.7	106
7	Oxidized phospholipids in Doxorubicin-induced cardiotoxicity. <i>Chemico-Biological Interactions</i> , 2019, 303, 35-39.	4.0	95
8	Release and Capture of Bioactive Oxidized Phospholipids and Oxidized Cholesteryl Esters During Percutaneous Coronary and Peripheral Arterial Interventions in Humans. <i>Journal of the American College of Cardiology</i> , 2014, 63, 1961-1971.	2.8	88
9	Multiple Substrates for Paraoxonase-1 during Oxidation of Phosphatidylcholine by Peroxynitrite. <i>Biochemical and Biophysical Research Communications</i> , 2002, 290, 391-396.	2.1	84
10	A cardioprotective preservation strategy employing ex vivo heart perfusion facilitates successful transplant of donor hearts after cardiocirculatory death. <i>Journal of Heart and Lung Transplantation</i> , 2013, 32, 734-743.	0.6	81
11	Phospholipids and oxophospholipids in atherosclerotic plaques at different stages of plaque development. <i>Lipids</i> , 2004, 39, 97-109.	1.7	74
12	Blockade of endothelin receptors markedly reduces atherosclerosis in LDL receptor deficient mice: role of endothelin in macrophage foam cell formation. <i>Cardiovascular Research</i> , 2000, 48, 158-167.	3.8	72
13	Glucosylated Glycerophosphoethanolamines are the Major LDL Glycation Products and Increase LDL Susceptibility to Oxidation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000, 20, 467-477.	2.4	71
14	A whole blood-based perfusate provides superior preservation of myocardial function during ex vivo heart perfusion. <i>Journal of Heart and Lung Transplantation</i> , 2015, 34, 113-121.	0.6	71
15	Determination of lipid ester ozonides and core aldehydes by high-performance liquid chromatography with on-line mass spectrometry. <i>Journal of Proteomics</i> , 1995, 30, 271-285.	2.4	70
16	Oxidized phosphatidylcholines trigger ferroptosis in cardiomyocytes during ischemia-reperfusion injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1170-H1184.	3.2	64
17	Radiation Dose Reduction in the Cardiac Catheterization Laboratory Utilizing a Novel Protocol. <i>JACC: Cardiovascular Interventions</i> , 2014, 7, 550-557.	2.9	62
18	Elevated levels of pro-inflammatory oxylipins in older subjects are normalized by flaxseed consumption. <i>Experimental Gerontology</i> , 2014, 59, 51-57.	2.8	61

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19	Lipoprotein(a)-Associated Molecules Are Prominent Components in Plasma and Valve Leaflets in Calcific Aortic Valve Stenosis. <i>JACC Basic To Translational Science</i> , 2017, 2, 229-240.	4.1	61
20	Reduction of myocardial ischaemia-reperfusion injury by inactivating oxidized phospholipids. <i>Cardiovascular Research</i> , 2019, 115, 179-189.	3.8	61
21	Oxidative Stress Is Markedly Elevated in Lecithin:Cholesterol Acyltransferase-deficient Mice and Is Paradoxically Reversed in the Apolipoprotein E Knockout Background in Association with a Reduction in Atherosclerosis. <i>Journal of Biological Chemistry</i> , 2002, 277, 11715-11720.	3.4	55
22	Dietary Flaxseed Reduces Central Aortic Blood Pressure Without Cardiac Involvement but Through Changes in Plasma Oxylipins. <i>Hypertension</i> , 2016, 68, 1031-1038.	2.7	49
23	Fas-Induced Apoptosis in Rat Thecal/Interstitial Cells Signals Through Sphingomyelin-Ceramide Pathway*. <i>Endocrinology</i> , 1998, 139, 2041-2047.	2.8	46
24	Glycated Phosphatidylethanolamine Promotes Macrophage Uptake of Low Density Lipoprotein and Accumulation of Cholesteryl Esters and Triacylglycerols. <i>Journal of Biological Chemistry</i> , 1999, 274, 16494-16500.	3.4	45
25	Polyoxygenated Cholesterol Ester Hydroperoxide Activates TLR4 and SYK Dependent Signaling in Macrophages. <i>PLoS ONE</i> , 2013, 8, e83145.	2.5	44
26	Alpha linolenic acid decreases apoptosis and oxidized phospholipids in cardiomyocytes during ischemia/reperfusion. <i>Molecular and Cellular Biochemistry</i> , 2018, 437, 163-175.	3.1	43
27	The utility of cardiac biomarkers and echocardiography for the early detection of bevacizumab- and sunitinib-mediated cardiotoxicity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H692-H701.	3.2	41
28	Statins in patients with COVID-19: a retrospective cohort study in Iranian COVID-19 patients. <i>Translational Medicine Communications</i> , 2021, 6, 3.	1.4	41
29	Generation of Bioactive Oxylipins from Exogenously Added Arachidonic, Eicosapentaenoic and Docosahexaenoic Acid in Primary Human Brain Microvessel Endothelial Cells. <i>Lipids</i> , 2016, 51, 591-599.	1.7	39
30	Phospholipid oxidation products in ferroptotic myocardial cell death. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H156-H163.	3.2	36
31	Metabolomic characterization of myocardial ischemia-reperfusion injury in ST-segment elevation myocardial infarction patients undergoing percutaneous coronary intervention. <i>Scientific Reports</i> , 2019, 9, 11742.	3.3	34
32	The plasma peptides of ovarian cancer. <i>Clinical Proteomics</i> , 2018, 15, 41.	2.1	33
33	The Cardioprotective Role of N-Acetyl Cysteine Amide in the Prevention of Doxorubicin and Trastuzumab-Mediated Cardiac Dysfunction. <i>Canadian Journal of Cardiology</i> , 2016, 32, 1513-1519.	1.7	30
34	Distinct oxylipin alterations in diverse models of cystic kidney diseases. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 1562-1574.	2.4	29
35	Expression of human monolysocardiolipin acyltransferase-1 improves mitochondrial function in Barth syndrome lymphoblasts. <i>Journal of Biological Chemistry</i> , 2018, 293, 7564-7577.	3.4	29
36	Early passaging of mesenchymal stem cells does not instigate significant modifications in their immunological behavior. <i>Stem Cell Research and Therapy</i> , 2018, 9, 121.	5.5	29

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37	Evidence That Apolipoprotein A-I <sup>&lt;sub&gt;Milano&lt;/sub&gt; Has Reduced Capacity, Compared With Wild-Type Apolipoprotein A-I, to Recruit Membrane Cholesterol. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i>, 1997, 17, 1637-1643.</sup>	2.4	28
38	Involvement of a Triton-insoluble Floating Fraction in Dictyostelium Cell-Cell Adhesion. <i>Journal of Biological Chemistry</i> , 2001, 276, 18640-18648.	3.4	27
39	Lipidomics of Bioactive Lipids in Acute Coronary Syndromes. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1051.	4.1	27
40	Reversible Mitochondrial Fragmentation in iPSC-Derived Cardiomyocytes From Children With DCMA, a Mitochondrial Cardiomyopathy. <i>Canadian Journal of Cardiology</i> , 2020, 36, 554-563.	1.7	27
41	Core aldehydes of alkyl glycerophosphocholines in atheroma induce platelet aggregation and inhibit endothelium-dependent arterial relaxation. <i>Journal of Lipid Research</i> , 2002, 43, 158-166.	4.2	27
42	Regiospecific analysis of neutral ether lipids by liquid chromatography/electrospray ionization/single quadrupole mass spectrometry: validation with synthetic compounds. <i>Journal of Mass Spectrometry</i> , 2001, 36, 1116-1124.	1.6	25
43	Specific plasma oxylipins increase the odds of cardiovascular and cerebrovascular events in patients with peripheral artery disease. <i>Canadian Journal of Physiology and Pharmacology</i> , 2017, 95, 961-968.	1.4	25
44	SS-31 Peptide Reverses the Mitochondrial Fragmentation Present in Fibroblasts From Patients With DCMA, a Mitochondrial Cardiomyopathy. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 167.	2.4	24
45	Core aldehydes of alkyl glycerophosphocholines in atheroma induce platelet aggregation and inhibit endothelium-dependent arterial relaxation. <i>Journal of Lipid Research</i> , 2002, 43, 158-66.	4.2	24
46	The plasma peptidome. <i>Clinical Proteomics</i> , 2018, 15, 39.	2.1	22
47	Assembly of Glycoprotein-80 Adhesion Complexes in Dictyostelium. <i>Journal of Biological Chemistry</i> , 2001, 276, 48764-48774.	3.4	21
48	Oxidized phosphatidylcholines are produced in renal ischemia reperfusion injury. <i>PLoS ONE</i> , 2018, 13, e0195172.	2.5	21
49	Rapid analysis of oxidized cholesterol derivatives by high-performance liquid chromatography combined with diode-array ultraviolet and evaporative laser light-scattering detection. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1999, 76, 863-871.	1.9	20
50	Formation of apolipoprotein A1- <sup>ε</sup> -phosphatidylcholine core aldehyde Schiff base adducts promotes uptake by THP-1 macrophages. <i>Cardiovascular Research</i> , 2003, 58, 712-720.	3.8	20
51	Congenital Absence of Nitric Oxide Synthase 3 Potentiates Cardiac Dysfunction and Reduces Survival in Doxorubicin- and Trastuzumab-Mediated Cardiomyopathy. <i>Canadian Journal of Cardiology</i> , 2014, 30, 359-367.	1.7	19
52	The Cardioprotective Role of Flaxseed in the Prevention of Doxorubicin- and Trastuzumab-Mediated Cardiotoxicity in C57BL/6 Mice. <i>Journal of Nutrition</i> , 2020, 150, 2353-2363.	2.9	18
53	1-O-alkyl-2-(1-oxo)acyl-sn-glycerols from shark oil and human milk fat are potential precursors of PAF mimics and GHB. <i>Lipids</i> , 2006, 41, 679-693.	1.7	17
54	Physiologic significance of coronary collaterals in chronic total occlusions. <i>Canadian Journal of Physiology and Pharmacology</i> , 2015, 93, 867-871.	1.4	17

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55	IL-10 attenuates OxPCs-mediated lipid metabolic responses in ischemia reperfusion injury. <i>Scientific Reports</i> , 2020, 10, 12120.	3.3	17
56	The plasma peptides of breast versus ovarian cancer. <i>Clinical Proteomics</i> , 2019, 16, 43.	2.1	16
57	Identification of Oxidized Phosphatidylinositols Present in OxLDL and Human Atherosclerotic Plaque. <i>Lipids</i> , 2017, 52, 11-26.	1.7	15
58	Oxylipin profile of human low-density lipoprotein is dependent on its extent of oxidation. <i>Atherosclerosis</i> , 2019, 288, 101-111.	0.8	15
59	Cytoskeleton Interactions Involved in the Assembly and Function of Glycoprotein-80 Adhesion Complexes in Dictyostelium. <i>Journal of Biological Chemistry</i> , 2003, 278, 2614-2623.	3.4	14
60	Allergen inhalation generates pro-inflammatory oxidised phosphatidylcholine associated with airway dysfunction. <i>European Respiratory Journal</i> , 2021, 57, 2000839.	6.7	13
61	"Tip-in" technique for retrograde chronic total occlusion revascularization. <i>Journal of Invasive Cardiology</i> , 2015, 27, E62-4.	0.4	13
62	Covalent Binding of Acetone to Aminophospholipids in Vitro and in Vivo. <i>Annals of the New York Academy of Sciences</i> , 2005, 1043, 417-439.	3.8	12
63	Oxidized phosphatidylcholines induce multiple functional defects in airway epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L703-L717.	2.9	12
64	Happiness Can Break Your Heart: A Rare Case of Takotsubo Cardiomyopathy After Good News. <i>Canadian Journal of Cardiology</i> , 2015, 31, 228.e1-228.e2.	1.7	11
65	Glucose Uptake and Triacylglycerol Synthesis Are Increased in Barth Syndrome Lymphoblasts. <i>Lipids</i> , 2017, 52, 161-165.	1.7	11
66	Non-mitogenic FGF2 protects cardiomyocytes from acute doxorubicin-induced toxicity independently of the protein kinase CK2/heme oxygenase-1 pathway. <i>Cell and Tissue Research</i> , 2018, 374, 607-617.	2.9	11
67	Structural and compositional changes in very low density lipoprotein triacylglycerols during basal lipolysis. <i>FEBS Journal</i> , 2002, 269, 6223-6232.	0.2	10
68	Percutaneous Intervention of an Acute Left Main Coronary Occlusion Due to Dissection of the Aortic Root. <i>JACC: Cardiovascular Interventions</i> , 2011, 4, 713-715.	2.9	10
69	Arteria Lusoria: An Anomalous Finding during Right Transradial Coronary Intervention. <i>Case Reports in Cardiology</i> , 2016, 2016, 1-3.	0.2	10
70	Oxolipidomics profile in major depressive disorder: Comparing remitters and non-remitters to repetitive transcranial magnetic stimulation treatment. <i>PLoS ONE</i> , 2021, 16, e0246592.	2.5	10
71	Stroke prevention in patients with atrial fibrillation: The diagnosis and management of hypertension by specialists. <i>Canadian Journal of Cardiology</i> , 2006, 22, 485-488.	1.7	9
72	The Role of Tissue Doppler Imaging in Predicting Left Ventricular Filling Pressures in Patients Undergoing Cardiac Surgery: An Intraoperative Study. <i>Echocardiography</i> , 2013, 30, 271-278.	0.9	9

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73	Novel Use of the GuideLiner Catheter to Deliver Rotational Atherectomy Burrs in Tortuous Vessels. Case Reports in Cardiology, 2014, 2014, 1-5.	0.2	9
74	Oxidized lipids: not just another brick in the wall. Canadian Journal of Physiology and Pharmacology, 2019, 97, 473-485.	1.4	9
75	Role of renin-angiotensin system antagonists in the prevention of bevacizumab- and sunitinib-mediated cardiac dysfunction. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H446-H458.	3.2	9
76	Defining Acute Coronary Syndrome through Metabolomics. Metabolites, 2021, 11, 685.	2.9	9
77	Increase in Plasma Oxidized Phosphatidylcholines (OxPCs) in Patients Presenting With ST-Elevation Myocardial Infarction (STEMI). Frontiers in Medicine, 2021, 8, 716944.	2.6	9
78	Role of oxidized phospholipids in cardiovascular pathology. Clinical Lipidology, 2013, 8, 205-215.	0.4	8
79	Awake Extracorporeal Membrane Oxygenation for Very High-Risk Coronary Angioplasty. Canadian Journal of Cardiology, 2015, 31, 227.e11-227.e13.	1.7	8
80	A Case Of Awake Percutaneous Extracorporeal Membrane Oxygenation For High-risk Percutaneous Coronary Intervention. Cureus, 2017, 9, e1191.	0.5	8
81	The acutely occluded left main coronary artery culprit in cardiogenic shock and initial percutaneous coronary intervention: a substudy of the Manitoba "no option" left main PCI registry. Canadian Journal of Physiology and Pharmacology, 2012, 90, 1325-1331.	1.4	7
82	Diagnosis of Left Ventricular Assist Device Outflow Graft Obstruction Using Intravascular Ultrasound. Circulation: Heart Failure, 2016, 9, .	3.9	7
83	Bacteria and the growing threat of multidrug resistance for invasive cardiac interventions. Reviews in Cardiovascular Medicine, 2022, 23, 1.	1.4	7
84	Renal Insufficiency and Early Bystander CPR Predict In-Hospital Outcomes in Cardiac Arrest Patients Undergoing Mild Therapeutic Hypothermia and Cardiac Catheterization: Return of Spontaneous Circulation, Cooling, and Catheterization Registry (ROSCCC Registry). Cardiology Research and Practice, 2016, 2016, 1-7.	1.1	6
85	Linoleic acid derived oxylipins are elevated in kidney and liver and reduced in serum in rats given a high-protein diet. Journal of Nutritional Biochemistry, 2018, 61, 40-47.	4.2	6
86	Ferroptosis: beating on death's door. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H772-H775.	3.2	5
87	Overcoming the Bitter Taste of Oils Enriched in Fatty Acids to Obtain Their Effects on the Heart in Health and Disease. Nutrients, 2019, 11, 1179.	4.1	5
88	High throughput screening reveals no significant changes in protein synthesis, processing, and degradation machinery during passaging of mesenchymal stem cells. Canadian Journal of Physiology and Pharmacology, 2019, 97, 536-543.	1.4	5
89	Impact of myocardial reperfusion on human plasma lipidome. IScience, 2022, 25, 103828.	4.1	5
90	GuideLiner Balloon Assisted Tracking (GBAT): A New Addition to the Interventional Toolbox. Case Reports in Cardiology, 2016, 2016, 1-4.	0.2	4

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91	An Unusual Cause of Ventricular Tachycardia: Port-A-Cath Fracture and Embolization into the Pulmonary Artery. <i>Heart International</i> , 2014, 9, HEART.2014.1250.	1.4	4
92	Comparing Flaxseed and Perindopril in the Prevention of Doxorubicin and Trastuzumab-Induced Cardiotoxicity in C57Bl/6 Mice. <i>Current Oncology</i> , 2022, 29, 2941-2953.	2.2	4
93	Plasma Levels of Advanced Glycation End Products Are Related to the Clinical Presentation and Angiographic Severity of Symptomatic Lower Extremity Peripheral Arterial Disease. <i>International Journal of Angiology</i> , 2016, 25, 044-053.	0.6	3
94	Transcatheter Aortic Valve Implantation in an Extremely Tortuous S-Shaped Aorta. <i>Case Reports in Cardiology</i> , 2017, 2017, 1-3.	0.2	3
95	Phosphokinome Analysis of Barth Syndrome Lymphoblasts Identify Novel Targets in the Pathophysiology of the Disease. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2026.	4.1	3
96	Amiodarone-induced thyrotoxicosis in heart failure with a reduced ejection fraction: A retrospective cohort study. <i>Health Science Reports</i> , 2018, 1, e36.	1.5	3
97	Venoplasty of a chronic venous occlusion allowing for cardiac device lead placement: A team approach. <i>Indian Pacing and Electrophysiology Journal</i> , 2016, 16, 197-200.	0.6	2
98	Iatrogenic Great Cardiac Vein Anastomosis during Coronary Artery Bypass Surgery. <i>International Journal of Angiology</i> , 2017, 26, 201-204.	0.6	2
99	An unusual cause of ventricular tachycardia: Port-A-Cath fracture and embolization into the pulmonary artery. <i>Heart International</i> , 2014, 9, 30-2.	1.4	2
100	Successful treatment of in-stent restenosis of a covered stent graft with a paclitaxel-eluting stent. <i>Journal of Cardiology Cases</i> , 2011, 4, e13-e15.	0.5	1
101	Successful cardiac resuscitation with extracorporeal membrane oxygenation in the setting of persistent ventricular fibrillation: a case report. <i>BMC Research Notes</i> , 2014, 7, 782.	1.4	1
102	Multimodality Imaging of a Cardiac Pheochromocytoma. <i>Journal of the American College of Cardiology</i> , 2014, 63, e189.	2.8	1
103	Patient outcomes in GuideLiner facilitated percutaneous coronary intervention stratified by the SYNTAX score: A retrospective analysis. <i>JRSM Cardiovascular Disease</i> , 2019, 8, 204800401983544.	0.7	1
104	Platypnea-Orthodeoxia Syndrome. <i>JACC: Cardiovascular Interventions</i> , 2019, 12, e15-e16.	2.9	1
105	Rotational Atherectomy in the Management of Ruptured and Entrapped Coronary Angioplasty Balloon. <i>Cardiovascular Revascularization Medicine</i> , 2021, 28, 140-143.	0.8	1
106	The Manitoba Personalized Lifestyle Research (TMPLR) study protocol: a multicentre bidirectional observational cohort study with administrative health record linkage investigating the interactions between lifestyle and health in Manitoba, Canada. <i>BMJ Open</i> , 2019, 9, e023318.	1.9	1
107	Role of Invasive Hemodynamic Assessment During Trans-Catheter Paravalvular Leak Intervention. <i>Circulation Journal</i> , 2020, 84, 531.	1.6	0
108	Zero-Contrast Intravascular Lithotripsy Angioplasty Facilitated by Intravascular Ultrasound. <i>Cardiovascular Revascularization Medicine</i> , 2020, 21, 123-125.	0.8	0

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109	“Tear in My Heart” A Multimodality Perspective. CJC Open, 2021, 3, 225-226.	1.5	0
110	When rotational atherectomy is not enough. Clinical Case Reports (discontinued), 2021, 9, e04131.	0.5	0
111	A targeted lipidomic analysis of renal oxylipins in kidney disease reveals differences in the effects of dietary flax compared to fish oil. FASEB Journal, 2013, 27, 1073.8.	0.5	0
112	Abstract 545: Generation of Oxidized Phosphatidylcholines During Hypoxia-Reoxygenation Triggers Cell Death of Postnatal Cardiac Myocytes. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, .	2.4	0
113	OxPCs-Mediated Lipid Metabolic Responses in Cardiomyocytes as well as During Ischemia Reperfusion Injury. FASEB Journal, 2019, 33, lb480.	0.5	0