

Byoung Kwon Lee

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

2,226
citations

257450

24
h-index

243625

44
g-index

66
all docs

66
docs citations

66
times ranked

2383
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Statins on Coronary Atherosclerotic Plaques. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1475-1484.	5.3	335
2	Elevated TyG Index Predicts Progression of Coronary Artery Calcification. <i>Diabetes Care</i> , 2019, 42, 1569-1573.	8.6	180
3	Clinical Feasibility of 3D Automated Coronary Atherosclerotic Plaque Quantification Algorithm on Coronary Computed Tomography Angiography: Comparison with Intravascular Ultrasound. <i>European Radiology</i> , 2015, 25, 3073-3083.	4.5	95
4	Deep-learning-based cardiovascular risk stratification using coronary artery calcium scores predicted from retinal photographs. <i>The Lancet Digital Health</i> , 2021, 3, e306-e316.	12.3	93
5	Prediction of systemic biomarkers from retinal photographs: development and validation of deep-learning algorithms. <i>The Lancet Digital Health</i> , 2020, 2, e526-e536.	12.3	83
6	Quantification of Coronary Atherosclerosis in the Assessment of Coronary Artery Disease. <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e007562.	2.6	81
7	Rationale and design of the Progression of Atherosclerotic Plaque Determined by Computed Tomographic Angiography Imaging (PARADIGM) registry: A comprehensive exploration of plaque progression and its impact on clinical outcomes from a multicenter serial coronary computed tomographic angiography study. <i>American Heart Journal</i> , 2016, 182, 72-79.	2.7	75
8	Impact of Intensive LDL Cholesterol Lowering on Coronary Artery Atherosclerosis Progression. <i>JACC: Cardiovascular Imaging</i> , 2017, 10, 437-446.	5.3	73
9	Association of Statin Treatment With Progression of Coronary Atherosclerotic Plaque Composition. <i>JAMA Cardiology</i> , 2021, 6, 1257.	6.1	70
10	Natural History of Diabetic Coronary Atherosclerosis by Quantitative Measurement of Serial Coronary Computed Tomographic Angiography. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1461-1471.	5.3	64
11	Local increase in microparticles from the aspirate of culprit coronary arteries in patients with ST-segment elevation myocardial infarction. <i>Atherosclerosis</i> , 2013, 227, 323-328.	0.8	60
12	Differential association between the progression of coronary artery calcium score and coronary plaque volume progression according to statins: the Progression of Atherosclerotic Plaque Determined by Computed Tomographic Angiography Imaging (PARADIGM) study. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, 1307-1314.	1.2	60
13	Differences in Progression to Obstructive Lesions per High-Risk Plaque Features and Plaque Volumes With CCTA. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1409-1417.	5.3	58
14	Machine Learning Framework to Identify Individuals at Risk of Rapid Progression of Coronary Atherosclerosis: From the PARADIGM Registry. <i>Journal of the American Heart Association</i> , 2020, 9, e013958.	3.7	53
15	Coexpression of cyclooxygenase-2 and matrix metalloproteinases in human aortic atherosclerotic lesions. <i>Yonsei Medical Journal</i> , 2000, 41, 82.	2.2	52
16	The Relationship Between Coronary Calcification and the Natural History of Coronary Artery Disease. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 233-242.	5.3	44
17	Atherogenic index of plasma and the risk of rapid progression of coronary atherosclerosis beyond traditional risk factors. <i>Atherosclerosis</i> , 2021, 324, 46-51.	0.8	41
18	Impact of Metabolic Syndrome and Its Individual Components on the Presence and Severity of Angiographic Coronary Artery Disease. <i>Yonsei Medical Journal</i> , 2010, 51, 676.	2.2	40

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19	Quantitative assessment of coronary plaque volume change related to triglyceride glucose index: The Progression of Atherosclerotic Plaque Determined by Computed Tomographic Angiography Imaging (PARADIGM) registry. <i>Cardiovascular Diabetology</i> , 2020, 19, 113.	6.8	39
20	Microcirculatory Dysfunction in Cardiac Syndrome X: Role of Abnormal Blood Rheology. <i>Microcirculation</i> , 2008, 15, 451-459.	1.8	36
21	The relationship of insulin resistance estimated by triglyceride glucose index and coronary plaque characteristics. <i>Medicine (United States)</i> , 2018, 97, e10726.	1.0	33
22	Potential role of HMG CoA reductase inhibitor on oxidative stress induced by advanced glycation endproducts in vascular smooth muscle cells of diabetic vasculopathy. <i>Experimental and Molecular Medicine</i> , 2009, 41, 802.	7.7	31
23	Relationship Between Multiple Plasma Biomarkers and Vulnerable Plaque Determined by Virtual Histology Intravascular Ultrasound. <i>Circulation Journal</i> , 2010, 74, 332-336.	1.6	29
24	Percent atheroma volume: Optimal variable to report whole-heart atherosclerotic plaque burden with coronary CTA, the PARADIGM study. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 400-406.	1.3	29
25	Sex Differences in Compositional Plaque Volume Progression in Patients With Coronary Artery Disease. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 2386-2396.	5.3	26
26	Association of Cardiovascular Disease Risk Factor Burden With Progression of Coronary Atherosclerosis Assessed by Serial Coronary Computed Tomographic Angiography. <i>JAMA Network Open</i> , 2020, 3, e2011444.	5.9	26
27	Longitudinal assessment of coronary plaque volume change related to glycemic status using serial coronary computed tomography angiography: A PARADIGM (Progression of Atherosclerotic Plaque) Tj ETQq1 1 0.784314 rgBT /Over Computed Tomography. 2019, 13, 142-147.	1.3	25
28	Retinal photograph-based deep learning predicts biological age, and stratifies morbidity and mortality risk. <i>Age and Ageing</i> , 2022, 51, .	1.6	25
29	Automatic segmentation of multiple cardiovascular structures from cardiac computed tomography angiography images using deep learning. <i>PLoS ONE</i> , 2020, 15, e0232573.	2.5	23
30	Consistency of quantitative analysis of coronary computed tomography angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2019, 13, 48-54.	1.3	22
31	Relationship Between Coronary Artery Calcium and Atherosclerosis Progression Among Patients With Suspected Coronary Artery Disease. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 1063-1074.	5.3	20
32	Usefulness of metabolic syndrome score in the prediction of angiographic coronary artery disease severity according to the presence of diabetes mellitus: relation with inflammatory markers and adipokines. <i>Cardiovascular Diabetology</i> , 2013, 12, 140.	6.8	19
33	Optimal boundary detection method and window settings for coronary atherosclerotic plaque volume analysis in coronary computed tomography angiography: comparison with intravascular ultrasound. <i>European Radiology</i> , 2016, 26, 3190-3198.	4.5	19
34	Progression of whole-heart Atherosclerosis by coronary CT and major adverse cardiovascular events. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 322-330.	1.3	19
35	Association Between Changes in Perivascular Adipose Tissue Density and Plaque Progression. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 1760-1767.	5.3	19
36	Hemodynamic Effects on Atherosclerosis-Prone Coronary Artery: Wall Shear Stress / Rate Distribution and Impedance Phase Angle in Coronary and Aortic Circulation. <i>Yonsei Medical Journal</i> , 2001, 42, 375.	2.2	17

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37	Prognostic significance of elevated lipoprotein(a) in coronary artery revascularization patients. <i>International Journal of Cardiology</i> , 2013, 167, 1990-1994.	1.7	17
38	Impact of Non-obstructive left main disease on the progression of coronary artery disease: A PARADIGM substudy. <i>Journal of Cardiovascular Computed Tomography</i> , 2018, 12, 231-237.	1.3	17
39	Computed numerical analysis of the biomechanical effects on coronary atherogenesis using human hemodynamic and dimensional variables. <i>Yonsei Medical Journal</i> , 1998, 39, 166.	2.2	16
40	Topological Data Analysis of Coronary Plaques Demonstrates the Natural History of Coronary Atherosclerosis. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 1410-1421.	5.3	16
41	Association of Tube Voltage With Plaque Composition on Coronary CT Angiography. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 2429-2440.	5.3	15
42	Carotid Artery End-Diastolic Velocity and Future Cerebro-Cardiovascular Events in Asymptomatic High Risk Patients. <i>Korean Circulation Journal</i> , 2016, 46, 72.	1.9	14
43	Impact of age on coronary artery plaque progression and clinical outcome: A PARADIGM substudy. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 232-239.	1.3	12
44	Differential progression of coronary atherosclerosis according to plaque composition: a cluster analysis of PARADIGM registry data. <i>Scientific Reports</i> , 2021, 11, 17121.	3.3	11
45	Comparative differences in the atherosclerotic disease burden between the epicardial coronary arteries: quantitative plaque analysis on coronary computed tomography angiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 322-330.	1.2	11
46	Longitudinal quantitative assessment of coronary plaque progression related to body mass index using serial coronary computed tomography angiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, 591-599.	1.2	10
47	Association between Aortic Valve Calcification Progression and Coronary Atherosclerotic Plaque Volume Progression in the PARADIGM Registry. <i>Radiology</i> , 2021, 300, 79-86.	7.3	10
48	Elevated Lipoprotein(a) has Incremental Prognostic Value in Type 2 Diabetic Patients with Symptomatic Coronary Artery Disease. <i>Journal of Atherosclerosis and Thrombosis</i> , 2015, 22, 527-534.	2.0	9
49	Effects of chronic kidney disease and declining renal function on coronary atherosclerotic plaque progression: a PARADIGM substudy. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 1072-1082.	1.2	8
50	Per-lesion versus per-patient analysis of coronary artery disease in predicting the development of obstructive lesions: the Progression of Atherosclerotic Plaque Determined by Computed Tomographic Angiography Imaging (PARADIGM) study. <i>International Journal of Cardiovascular Imaging</i> , 2020, 36, 2357-2364.	1.5	7
51	Circulating Microparticles and Coronary Plaque Components Assessed by Virtual Histology Intravascular Ultrasound of the Target Lesion in Patients with Stable Angina. <i>PLoS ONE</i> , 2016, 11, e0148128.	2.5	7
52	Prognostic Value of Elevated Homocysteine Levels in Korean Patients with Coronary Artery Disease: A Propensity Score Matched Analysis. <i>Korean Circulation Journal</i> , 2016, 46, 154.	1.9	6
53	Significance of hemodynamic effects on the generation of atherosclerosis. <i>Journal of Mechanical Science and Technology</i> , 2005, 19, 836-845.	1.5	5
54	Effect of Abciximab on the Levels of Circulating Microparticles in Patients with Acute Myocardial Infarction Treated by Primary Angioplasty. <i>Korean Circulation Journal</i> , 2013, 43, 600.	1.9	5

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55	Outcomes and Associated Factors of Discrepant Coronary and Carotid Atherosclerosis. International Heart Journal, 2020, 61, 1142-1149.	1.0	5
56	Plaque Character and Progression According to the Location of Coronary Atherosclerotic Plaque. American Journal of Cardiology, 2021, 158, 15-22.	1.6	3
57	Vessel-specific plaque features on coronary computed tomography angiography among patients of varying atherosclerotic cardiovascular disease risk. European Heart Journal Cardiovascular Imaging, 2022, 23, 1171-1179.	1.2	2
58	Longitudinal Quantitative Assessment of Coronary Atherosclerotic Plaque Burden Related to Serum Hemoglobin Levels. JACC Asia, 2022, 2, 311-319.	1.5	2
59	Longitudinal quantitative assessment of coronary atherosclerosis related to normal systolic blood pressure maintenance in the absence of established cardiovascular disease. Clinical Cardiology, 0, , .	1.8	2
60	Assessment of Image Quality for Selective Intracoronary Contrast-Injected CT Angiography in a Hybrid Angio-CT System: A Feasibility Study in Swine. Yonsei Medical Journal, 2021, 62, 200.	2.2	1
61	Comparison of coronary atherosclerotic plaque progression in East Asians and Caucasians by serial coronary computed tomographic angiography: A PARADIGM substudy. Journal of Cardiovascular Computed Tomography, 2022, 16, 222-229.	1.3	1
62	Fluid dynamics and atherosclerotic risk burden according as coronary bifurcation angle. , 2010, , .		0
63	Clinical feasibility of catheter-directed selective intracoronary computed tomography angiography using an extremely low dose of iodine in patients with coronary artery disease. European Radiology, 2019, 29, 2218-2225.	4.5	0
64	Measurement of compensatory arterial remodelling over time with serial coronary computed tomography angiography and 3D metrics. European Heart Journal Cardiovascular Imaging, 2021, , .	1.2	0
65	Effect of Blood Donation on the Donor's Hemorheological Properties. The Korean Journal of Blood Transfusion, 2018, 29, 229-239.	0.4	0
66	OUP accepted manuscript. European Heart Journal Cardiovascular Imaging, 2022, , .	1.2	0