

# Sang-Eun Lee

## List of Publications by Year in descending order

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93  
papers

2,714  
citations

218381

26  
h-index

205818

48  
g-index

95  
all docs

95  
docs citations

95  
times ranked

3038  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plaque progression: Where, why, and how fast? A review of what we have learned from the analysis of patient data from the PARADIGM registry. <i>Journal of Cardiovascular Computed Tomography</i> , 2022, 16, 294-302.	0.7	3
2	Association of Plaque Location and Vessel Geometry Determined by Coronary Computed Tomographic Angiography With Future Acute Coronary Syndrome—Causing Culprit Lesions. <i>JAMA Cardiology</i> , 2022, 7, 309.	3.0	13
3	Vessel-specific plaque features on coronary computed tomography angiography among patients of varying atherosclerotic cardiovascular disease risk. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 1171-1179.	0.5	2
4	Fully automated quantification of cardiac chamber and function assessment in 2-D echocardiography: clinical feasibility of deep learning-based algorithms. <i>International Journal of Cardiovascular Imaging</i> , 2022, 38, 1047-1059.	0.7	3
5	OUP accepted manuscript. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, , .	0.5	0
6	Relationship Between Coronary Artery Calcium and Atherosclerosis Progression Among Patients With Suspected Coronary Artery Disease. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 1063-1074.	2.3	20
7	Longitudinal Quantitative Assessment of Coronary Atherosclerotic Plaque Burden Related to Serum Hemoglobin Levels. <i>JACC Asia</i> , 2022, 2, 311-319.	0.5	2
8	Age related compositional plaque burden by CT in patients with future ACS. <i>Journal of Cardiovascular Computed Tomography</i> , 2022, 16, 491-497.	0.7	4
9	Association Between Changes in Perivascular Adipose Tissue Density and Plaque Progression. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 1760-1767.	2.3	19
10	Age- and sex-related features of atherosclerosis from coronary computed tomography angiography in patients prior to acute coronary syndrome: results from the ICONIC study. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 24-33.	0.5	19
11	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.	0.7	12
12	The Relationship Between Coronary Calcification and the Natural History of Coronary Artery Disease. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 233-242.	2.3	44
13	Atherogenic index of plasma and the risk of rapid progression of coronary atherosclerosis beyond traditional risk factors. <i>Atherosclerosis</i> , 2021, 324, 46-51.	0.4	41
14	Development and Validation of a Deep Learning Based Diabetes Prediction System Using a Nationwide Population-Based Cohort. <i>Diabetes and Metabolism Journal</i> , 2021, 45, 515-525.	1.8	8
15	Progression of whole-heart Atherosclerosis by coronary CT and major adverse cardiovascular events. <i>Journal of Cardiovascular Computed Tomography</i> , 2021, 15, 322-330.	0.7	19
16	Association between Aortic Valve Calcification Progression and Coronary Atherosclerotic Plaque Volume Progression in the PARADIGM Registry. <i>Radiology</i> , 2021, 300, 79-86.	3.6	10
17	Differential progression of coronary atherosclerosis according to plaque composition: a cluster analysis of PARADIGM registry data. <i>Scientific Reports</i> , 2021, 11, 17121.	1.6	11
18	Association of Tube Voltage With Plaque Composition on Coronary CT Angiography. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 2429-2440.	2.3	15

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19	Plaque Character and Progression According to the Location of Coronary Atherosclerotic Plaque. American Journal of Cardiology, 2021, 158, 15-22.	0.7	3
20	Association of Statin Treatment With Progression of Coronary Atherosclerotic Plaque Composition. JAMA Cardiology, 2021, 6, 1257.	3.0	70
21	Measurement of compensatory arterial remodelling over time with serial coronary computed tomography angiography and 3D metrics. European Heart Journal Cardiovascular Imaging, 2021, , .	0.5	0
22	Topological Data Analysis of Coronary Plaques Demonstrates the Natural History of Coronary Atherosclerosis. JACC: Cardiovascular Imaging, 2021, 14, 1410-1421.	2.3	16
23	Comparative differences in the atherosclerotic disease burden between the epicardial coronary arteries: quantitative plaque analysis on coronary computed tomography angiography. European Heart Journal Cardiovascular Imaging, 2021, 22, 322-330.	0.5	11
24	Predictors of 18F-sodium fluoride uptake in patients with stable coronary artery disease and adverse plaque features on computed tomography angiography. European Heart Journal Cardiovascular Imaging, 2020, 21, 58-66.	0.5	50
25	Differences in Progression to Obstructive Lesions per High-Risk Plaque Features and Plaque Volumes With CCTA. JACC: Cardiovascular Imaging, 2020, 13, 1409-1417.	2.3	58
26	Sex Differences in Compositional Plaque Volume Progression in Patients With Coronary Artery Disease. JACC: Cardiovascular Imaging, 2020, 13, 2386-2396.	2.3	26
27	Determinants of clinical outcomes in patients with mixed mitral valve disease. Echocardiography, 2020, 37, 1164-1170.	0.3	1
28	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. Cardiovascular Diabetology, 2020, 19, 113.	2.7	39
29	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. International Journal of Cardiovascular Imaging, 2020, 36, 2357-2364.	0.7	7
30	Association of Cardiovascular Disease Risk Factor Burden With Progression of Coronary Atherosclerosis Assessed by Serial Coronary Computed Tomographic Angiography. JAMA Network Open, 2020, 3, e2011444.	2.8	26
31	A Boosted Ensemble Algorithm for Determination of Plaque Stability in High-Risk Patients on Coronary CTA. JACC: Cardiovascular Imaging, 2020, 13, 2162-2173.	2.3	34
32	Automatic segmentation of multiple cardiovascular structures from cardiac computed tomography angiography images using deep learning. PLoS ONE, 2020, 15, e0232573.	1.1	23
33	Non-obstructive high-risk plaques increase the risk of future culprit lesions comparable to obstructive plaques without high-risk features: the ICONIC study. European Heart Journal Cardiovascular Imaging, 2020, 21, 973-980.	0.5	26
34	Multicenter Study on the Diagnostic Performance of Native-T1 Cardiac Magnetic Resonance of Chronic Myocardial Infarctions at 3T. Circulation: Cardiovascular Imaging, 2020, 13, e009894.	1.3	10
35	Feasibility and accuracy of a novel automated three-dimensional ultrasonographic analysis system for abdominal aortic aneurysm: comparison with two-dimensional ultrasonography and computed tomography. Cardiovascular Ultrasound, 2020, 18, 24.	0.5	6
36	Machine learning insight into the role of imaging and clinical variables for the prediction of obstructive coronary artery disease and revascularization: An exploratory analysis of the CONSERVE study. PLoS ONE, 2020, 15, e0233791.	1.1	14

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37	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.	1.6	53
38	Association of High-Density Calcified 1K Plaque With Risk of Acute Coronary Syndrome. <i>JAMA Cardiology</i> , 2020, 5, 282.	3.0	90
39	Development and External Validation of a Deep Learning Algorithm for Prognostication of Cardiovascular Outcomes. <i>Korean Circulation Journal</i> , 2020, 50, 72.	0.7	5
40	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.	0.7	29
41	Diagnostic Accuracy of a Novel On-site Virtual Fractional Flow Reserve Parallel Computing System. <i>Yonsei Medical Journal</i> , 2020, 61, 137.	0.9	1
42	PM2.5 concentration in the ambient air is a risk factor for the development of high-risk coronary plaques. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, 1355-1364.	0.5	53
43	Should CT replace IVUS for evaluation of CAD in large-scale clinical trials: Effects of medical therapy on atherosclerotic plaque. <i>Journal of Cardiovascular Computed Tomography</i> , 2019, 13, 248-253.	0.7	8
44	Increased risk of atherosclerotic cardiovascular disease among patients with psoriasis in Korea: A 15-year nationwide population-based cohort study. <i>Journal of Dermatology</i> , 2019, 46, 859-866.	0.6	23
45	Recent Advances in Cardiac Magnetic Resonance Imaging. <i>Korean Circulation Journal</i> , 2019, 49, 146.	0.7	15
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.	0.5	10
47	Prognostic Implications of the Left Atrial Volume Index in Patients with Progressive Mitral Stenosis. <i>Journal of Cardiovascular Imaging</i> , 2019, 27, 122.	0.2	5
48	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.	0.5	60
49	Peri-Coronary Adipose Tissue Density Is Associated With 18F-Sodium Fluoride Coronary Uptake in Stable Patients With High-Risk Plaques. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 2000-2010.	2.3	129
50	Comparing the feasibility and accuracy of three-dimensional ultrasound to two-dimensional ultrasound and computed tomography angiography in the assessment of carotid atherosclerosis. <i>Echocardiography</i> , 2019, 36, 2241-2250.	0.3	6
51	Three-Hour Delayed Imaging Improves Assessment of Coronary <sup>18</sup> F-Sodium Fluoride PET. <i>Journal of Nuclear Medicine</i> , 2019, 60, 530-535.	2.8	44
52	Longitudinal assessment of coronary plaque volume change related to glycemic status using serial coronary computed tomography angiography: A PARADIGM (Progression of Atherosclerotic Plaque) Study. <i>Journal of Cardiovascular Computed Tomography</i> , 2019, 13, 142-147.	0.7	25
53	Infective Endocarditis in Cancer Patients—Causative Organisms, Predisposing Procedures, and Prognosis Differ From Infective Endocarditis in Non-Cancer Patients. <i>Circulation Journal</i> , 2019, 83, 452-460.	0.7	13
54	Selective Referral Using CCTA Versus Direct Referral for Individuals Referred to Invasive Coronary Angiography for Suspected CAD. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 1303-1312.	2.3	99

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55	Consistency of quantitative analysis of coronary computed tomography angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2019, 13, 48-54.	0.7	22
56	Prediction of infarct size and adverse cardiac outcomes by tissue tracking-cardiac magnetic resonance imaging in ST-segment elevation myocardial infarction. <i>European Radiology</i> , 2018, 28, 3454-3463.	2.3	17
57	Three-dimensional Cardiomyocytes Structure Revealed By Diffusion Tensor Imaging and Its Validation Using a Tissue-Clearing Technique. <i>Scientific Reports</i> , 2018, 8, 6640.	1.6	22
58	Accelerated Cardiac Diffusion Tensor Imaging Using Joint Low-Rank and Sparsity Constraints. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 2219-2230.	2.5	12
59	The Authors's™ Reply:. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1931-1932.	2.3	0
60	Relationship of insulin resistance estimated by triglyceride glucose index to arterial stiffness. <i>Lipids in Health and Disease</i> , 2018, 17, 268.	1.2	69
61	Feasibility of Coronary <sup>18</sup> F-Sodium Fluoride Positron-Emission Tomography Assessment With the Utilization of Previously Acquired Computed Tomography Angiography. <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e008325.	1.3	36
62	Demographics, treatment trends, and survival rate in incident pulmonary artery hypertension in Korea: A nationwide study based on the health insurance review and assessment service database. <i>PLoS ONE</i> , 2018, 13, e0209148.	1.1	22
63	The Authors Reply:. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1551-1552.	2.3	0
64	The Authors Reply:. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1553.	2.3	0
65	Coronary computed tomographic imaging in women: An expert consensus statement from the Society of Cardiovascular Computed Tomography. <i>Journal of Cardiovascular Computed Tomography</i> , 2018, 12, 451-466.	0.7	41
66	End-Stage Renal Disease Impairs the Multidirectional Movements of the Common Carotid Artery: Assessment Using Dimensional Speckle-Tracking Carotid Strain Ultrasonography. <i>Journal of Cardiovascular Imaging</i> , 2018, 26, 155.	0.2	2
67	Coronary Atherosclerotic Precursors of Acute Coronary Syndromes. <i>Journal of the American College of Cardiology</i> , 2018, 71, 2511-2522.	1.2	328
68	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.	0.7	17
69	Quantitative measurement of lipid rich plaque by coronary computed tomography angiography: A correlation of histology in sudden cardiac death. <i>Atherosclerosis</i> , 2018, 275, 426-433.	0.4	24
70	Risk of new-onset diabetes among patients treated with statins according to hypertension and gender: Results from a nationwide health-screening cohort. <i>PLoS ONE</i> , 2018, 13, e0195459.	1.1	8
71	Quantification of Coronary Atherosclerosis in the Assessment of Coronary Artery Disease. <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e007562.	1.3	81
72	Evaluation of the impact of glycemic status on the progression of coronary artery calcification in asymptomatic individuals. <i>Cardiovascular Diabetology</i> , 2018, 17, 4.	2.7	8

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73	The relationship of insulin resistance estimated by triglyceride glucose index and coronary plaque characteristics. <i>Medicine (United States)</i> , 2018, 97, e10726.	0.4	33
74	Impact of optimal glycemic control on the progression of coronary artery calcification in asymptomatic patients with diabetes. <i>International Journal of Cardiology</i> , 2018, 266, 250-253.	0.8	14
75	Effects of Statins on Coronary Atherosclerotic Plaques. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1475-1484.	2.3	335
76	Impact of atrial fibrillation on the clinical course of apical hypertrophic cardiomyopathy. <i>Heart</i> , 2017, 103, 1496-1501.	1.2	43
77	Noninvasive measurement of pressure gradient across a coronary stenosis using phase contrast (PC) MRI: A feasibility study. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 529-537.	1.9	11
78	Rationale and design of the Coronary Computed Tomographic Angiography for Selective Cardiac Catheterization: Relation to Cardiovascular Outcomes, Cost Effectiveness and Quality of Life (CONSERVE) trial. <i>American Heart Journal</i> , 2017, 186, 48-55.	1.2	6
79	Prognostic Application of Thoracic Aortic Calcium Scoring for Adverse Clinical Outcome Risk in Elderly Patients with Left Ventricular Hypertrophy. <i>Korean Circulation Journal</i> , 2017, 47, 918.	0.7	5
80	Detection of mechanical complications related to the potential risk of sudden cardiac death in patients with pulmonary arterial hypertension by computed tomography. <i>International Journal of Cardiology</i> , 2017, 243, 460-465.	0.8	11
81	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.	1.2	75
82	Association of Thoracic Aorta Calcium Score With Exercise Blood Pressure Response and Clinical Outcomes in Elderly Individuals: Differential Impact of Aorta Calcification Compared With Coronary Artery Calcification. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	11
83	Screening of Mechanical Complications of Dilated Pulmonary Artery Related to the Risk for Sudden Cardiac Death in Patients with Pulmonary Arterial Hypertension by Transthoracic Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2016, 29, 561-566.	1.2	11
84	Left Atrial Volume Index as a Predictor for Persistent Left Ventricular Dysfunction after Aortic Valve Surgery in Patients with Chronic Aortic Regurgitation: The Role of Early Postoperative Echocardiography. <i>Echocardiography</i> , 2015, 32, 896-903.	0.3	3
85	Constrictive Pericarditis Long after a Gunshot Wound. <i>Korean Circulation Journal</i> , 2015, 45, 333.	0.7	2
86	Differential Impact of Constrictive Physiology after Pericardiocentesis in Malignancy Patients with Pericardial Effusion. <i>PLoS ONE</i> , 2015, 10, e0145461.	1.1	4
87	Metallic Foreign Body in Heart Mimicking Moderator Band. <i>Yonsei Medical Journal</i> , 2015, 56, 867.	0.9	3
88	Differential Prognostic Value of Coronary Computed Tomography Angiography in Relation to Exercise Electrocardiography in Asymptomatic Subjects. <i>Journal of Cardiovascular Imaging</i> , 2015, 23, 244.	0.8	4
89	Combined ECG, Echocardiographic, and Biomarker Criteria for Diagnosing Acute Myocardial Infarction in Out-of-Hospital Cardiac Arrest Patients. <i>Yonsei Medical Journal</i> , 2015, 56, 887.	0.9	20
90	Left atrial volume index is an independent predictor of hypertensive response to exercise in patients with hypertension. <i>Hypertension Research</i> , 2015, 38, 137-142.	1.5	11

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91	Transvenous Implantation of a DDDR Pacemaker in a Patient with Extracardiac Conduit Fontan Circulation. Korean Journal of Medicine, 2015, 88, 299.	0.1	2
92	Late Gadolinium Enhancement in Cardiac MRI in Patients with Severe Aortic Stenosis and Preserved Left Ventricular Systolic Function Is Related to Attenuated Improvement of Left Ventricular Geometry and Filling Pressure after Aortic Valve Replacement. Korean Circulation Journal, 2014, 44, 312.	0.7	14
93	Glycyrrhizin, inhibitor of high mobility group box-1, attenuates monocrotaline-induced pulmonary hypertension and vascular remodeling in rats. Respiratory Research, 2014, 15, 148.	1.4	53