Kranthi K Kolli

List of Publications by Year
in descending order

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		687220	477173
43	919	13	29
papers	citations	h-index	g-index

47	47	47	1317
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Clinical applications of machine learning in cardiovascular disease and its relevance to cardiac imaging. European Heart Journal, 2019, 40, 1975-1986.	1.0	327
2	Maximization of the usage of coronary CTA derived plaque information using a machine learning based algorithm to improve risk stratification; insights from the CONFIRM registry. Journal of Cardiovascular Computed Tomography, 2018, 12, 204-209.	0.7	137
3	Machine learning in cardiac CT: Basic concepts and contemporary data. Journal of Cardiovascular Computed Tomography, 2018, 12, 192-201.	0.7	86
4	Machine Learning Framework to Identify Individuals at Risk of Rapid Progression of Coronary Atherosclerosis: From the PARADIGM Registry. Journal of the American Heart Association, 2020, 9, e013958.	1.6	53
5	Determinants of Inâ€Hospital Mortality After Percutaneous Coronary Intervention: A Machine Learning Approach. Journal of the American Heart Association, 2019, 8, e011160.	1.6	52
6	Relationship Between Endothelial Wall Shear Stress and Highâ€Risk Atherosclerotic Plaque Characteristics for Identification of Coronary Lesions That Cause Ischemia: A Direct Comparison With Fractional Flow Reserve. Journal of the American Heart Association, 2016, 5, .	1.6	47
7	Influence of heart rate on fractional flow reserve, pressure drop coefficient, and lesion flow coefficient for epicardial coronary stenosis in a porcine model. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H382-H387.	1.5	27
8	Machine learning based risk prediction model for asymptomatic individuals who underwent coronary artery calcium score: Comparison with traditional risk prediction approaches. Journal of Cardiovascular Computed Tomography, 2020, 14, 168-176.	0.7	23
9	Effect of Varying Hemodynamic and Vascular Conditions on Fractional Flow Reserve: An In Vitro Study. Journal of the American Heart Association, 2016, 5, .	1.6	19
10	A Novel Deep Learning Approach for Automated Diagnosis of Acute Ischemic Infarction on Computed Tomography. JACC: Cardiovascular Imaging, 2018, 11, 1723-1725.	2.3	16
11	Effect of changes in contractility on pressure drop coefficient and fractional flow reserve in a porcine model. Journal of Invasive Cardiology, 2012, 24, 6-12.	0.4	16
12	Functional diagnosis of coronary stenoses using pressure drop coefficient: A pilot study in humans. Catheterization and Cardiovascular Interventions, 2014, 83, 377-385.	0.7	15
13	Effect of guidewire on contribution of loss due to momentum change and viscous loss to the translesional pressure drop across coronary artery stenosis: An analytical approach. BioMedical Engineering OnLine, 2011, 10, 51.	1.3	14
14	Effect of heart rate on hemodynamic endpoints under concomitant microvascular disease in a porcine model. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H1563-H1573.	1.5	13
15	Diagnostic cutoff for pressure drop coefficient in relation to fractional flow reserve and coronary flow reserve: A Patientâ€Level Analysis. Catheterization and Cardiovascular Interventions, 2016, 87, 273-282.	0.7	13
16	Benefit of cardiac N-13 PET CFR for combined anatomical and functional diagnosis of ischemic coronary artery disease: a pilot study. Annals of Nuclear Medicine, 2014, 28, 746-760.	1.2	10
17	Effect of myocardial contractility on hemodynamic end points under concomitant microvascular disease in a porcine model. Heart and Vessels, 2014, 29, 97-109.	0.5	9
18	Toward Development of Inflatable Stents with Application in Endovascular Treatments. Advanced Functional Materials, 2018, 28, 1804147.	7.8	9

#	Article	IF	Citations
19	Diagnostic performance of pressure drop coefficient in relation to fractional flow reserve and coronary flow reserve. Journal of Invasive Cardiology, 2014, 26, 188-95.	0.4	7
20	Lesion flow coefficient: a combined anatomical and functional parameter for detection of coronary artery disease--a clinical study. Journal of Invasive Cardiology, 2015, 27, 54-64.	0.4	6
21	Hyperemia-Free Delineation of Epicardial and Microvascular Impairments Using a Basal Index. Annals of Biomedical Engineering, 2014, 42, 1681-1690.	1.3	4
22	Evaluation of lesion flow coefficient for the detection of coronary artery disease in patient groups from two academic medical centers. Cardiovascular Revascularization Medicine, 2018, 19, 348-354.	0.3	4
23	Benefit of ECG-gated rest and stress N-13 cardiac PET imaging for quantification of LVEF in ischemic patients. Nuclear Medicine Communications, 2015, 36, 986-998.	0.5	3
24	Advanced Manufacturing of Patientâ€Specific Occluders for the Left Atrial Appendage with Minimally Invasive Delivery. Advanced Engineering Materials, 2020, 22, 1901074.	1.6	2
25	Optimization of balloon obstruction for simulating equivalent pressure drop in physiological stenoses. Biorheology, 2013, 50, 257-268.	1.2	1
26	Image-Based Computational Fluid Dynamic Analysis for Surgical Planning of Sequential Grafts in Coronary Artery Bypass Grafting. , 2018, 2018, 4893-4896.		1
27	Machine learning algorithm to predict coronary artery calcification in asymptomatic healthy population. , 2019, , .		1
28	Abstract 17031: Noninvasive CT-Based Hemodynamic Assessment Using 3D Printing and Virtual Functional Assessment Index. Circulation, 2020, 142, .	1.6	1
29	Distinguishing Epicardial and Microvascular Disease Using Combined Functional and Anatomical Endpoints in a Porcine Model. , 2012, , .		0
30	CRT-200.29 Evaluation Of Lesion Flow Coefficient For The Detection Of Coronary Artery Disease In Patient Groups From Two Academic Medical Centers. JACC: Cardiovascular Interventions, 2017, 10, S38.	1.1	0
31	Assessing Perfusion Using 3D Bioprinting. , 2018, , 211-226.		0
32	Influence of Heart Rate and Area Stenosis on Coronary Diagnostic Parameters in a Porcine Model. , 2009, , .		0
33	Influence of Heart Rate and Contractility on Coronary Diagnostic Parameters With Normal Microvasculature in Porcine Model. , 2010, , .		0
34	Influence of Heart Rate and Epicardial Stenosis Severity on Cardiac Contractility Under Concomitant Microvascular Disease in a Porcine Model. , 2011, , .		0
35	Functional Diagnosis of Coronary Artery Stenoses Using Pressure Drop Coefficient: A Pilot Study in Humans. , 2011, , .		0
36	Functional and Anatomical Diagnosis of Coronary Artery Stenoses: A Retrospective Study in Humans. , 2012, , .		0

#	Article	IF	Citations
37	Comparison Between Actual Stenosis and Internal Balloon Obstruction for Equivalent Pressure in a Porcine Model. , 2012, , .		0
38	Improved Assessment of Coronary Flow Impairment Using N-13 Ammonia Positron Emission Tomography. , 2013, , .		0
39	Optimization of Balloon Obstruction for Simulating Equivalent Pressure Drop in In-Vivo Conditions. , 2013, , .		0
40	Abstract 13069: Prescribed Flow Reserve as a Novel Method for Diagnosis of Coronary Artery Ischemia Under Physiologically-Realistic Conditions. Circulation, 2015, 132, .	1.6	0
41	Abstract TP58: A Novel Deep Learning Approach for Automated Diagnosis of Cerebral Infarction on Computed Tomography. Stroke, 2018, 49, .	1.0	0
42	Improved functional asssessment of ischemic severity using 3D printed models. , 2019, , .		0
43	Improved Functional Assessment of Ischemic Severity Using 3D Printed Models. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	0