Yiannis S Chatzizisis

List of Publications by Year in Descending Order

132 papers	4,942 citations	32 h-index	68 g-index
152 ext. papers	5,817 ext. citations	4 avg, IF	5.41 L-index

#	Paper	IF	Citations
132	Real time reduced order model for angiography fractional flow reserve.. *Computer Methods and Programs in Biomedicine*, **2022**, 216, 106674	6.9	0
131	Case Report: ST-Elevation Myocardial Infarction Secondary to Acute Atherothrombotic Occlusion Treated With No Stent Strategy.. *Frontiers in Cardiovascular Medicine*, **2022**, 9, 834676	5.4	
130	First-in-Human Computational Preprocedural Planning of Left Main Interventions Using a New Everolimus-Eluting Stent.. *JACC: Case Reports*, **2022**, 4, 325-335	1.2	0
129	Triggering receptor expressed on myeloid cells-1 (TREM-1) inhibition in atherosclerosis.. *Pharmacology & Therapeutics*, **2022**, 108182	13.9	0
128	Practice Patterns in the Interventional Treatment of Coronary Bifurcation Lesions: A Global Survey.. *Journal of Invasive Cardiology*, **2022**, 34, E43-E48	0.7	0
127	Case Report: Invasive and Non-invasive Hemodynamic Assessment of Coronary Artery Disease: Strengths and Weaknesses.. *Frontiers in Cardiovascular Medicine*, **2022**, 9, 885249	5.4	
126	Smooth muscle cells affect differential nanoparticle accumulation in disturbed blood flow-induced murine atherosclerosis. *PLoS ONE*, **2021**, 16, e0260606	3.7	0
125	Percutaneous coronary intervention for bifurcation coronary lesions: the 15 consensus document from the European Bifurcation Club. *EuroIntervention*, **2021**, 16, 1307-1317	3.1	45
124	Blunt Chest Trauma Presenting with Acute Coronary Event. *Oman Medical Journal*, **2021**, 36, e275	1.4	
123	Local fluid dynamics in patients with bifurcated coronary lesions undergoing percutaneous coronary interventions. *Cardiology Journal*, **2021**, 28, 321-329	1.4	10
122	Computational and experimental mechanical performance of a new everolimus-eluting stent purpose-built for left main interventions. *Scientific Reports*, **2021**, 11, 8728	4.9	4
121	Study of Coronary Atherosclerosis Using Blood Residence Time. *Frontiers in Physiology*, **2021**, 12, 625420	4.6	3
120	Three dimensional reconstruction of coronary artery stents from optical coherence tomography: experimental validation and clinical feasibility. *Scientific Reports*, **2021**, 11, 12252	4.9	2
119	Meta-Analysis of Transradial vs Transfemoral Access for Percutaneous Coronary Intervention in Patients With ST Elevation Myocardial Infarction. *American Journal of Cardiology*, **2021**, 141, 23-30	3	6
118	Myocardial infarction secondary to coronary embolus in a patient with left ventricular non-compaction cardiomyopathy: a case report. *European Heart Journal - Case Reports*, **2021**, 5, ytab077	0.9	0
117	Patient-specific computational simulation of coronary artery bifurcation stenting. *Scientific Reports*, **2021**, 11, 16486	4.9	2
116	Role of Coronary Computed Tomography Angiography in Percutaneous Coronary Intervention of Chronic Total Occlusions. *Current Cardiovascular Imaging Reports*, **2020**, 13, 1	0.7	3

115	European Bifurcation Club white paper on stenting techniques for patients with bifurcated coronary artery lesions. *Catheterization and Cardiovascular Interventions*, **2020**, 96, 1067-1079	2.7	17
114	Computational Simulations of Provisional Stenting of a Diseased Coronary Artery Bifurcation Model. *Scientific Reports*, **2020**, 10, 9667	4.9	2
113	What to Do: Retrieval of a Kinked and Trapped Coronary Catheter. *JACC: Case Reports*, **2020**, 2, 1657-1661	1.2	
112	Left Ventricular Assist Device Outflow Cannula Obstruction: Importance of Multimodality Imaging. *JACC: Case Reports*, **2020**, 2, 1454-1456	1.2	0
111	Infliximab Treatment of Refractory Cardiac Sarcoidosis. *JACC: Case Reports*, **2020**, 2, 1553-1557	1.2	
110	3D reconstruction of coronary artery bifurcations from coronary angiography and optical coherence tomography: feasibility, validation, and reproducibility. *Scientific Reports*, **2020**, 10, 18049	4.9	9
109	Quantification of Renal Sympathetic Vasomotion as a Novel End Point for Renal Denervation. *Hypertension*, **2020**, 76, 1247-1255	8.5	3
108	Computational optimization of a novel atraumatic catheter for local drug delivery in coronary atherosclerotic plaques. *Medical Engineering and Physics*, **2020**, 79, 26-32	2.4	0
107	Duration of Dual Antiplatelet Therapy in Patients with CKD and Drug-Eluting Stents: A Meta-Analysis. *Clinical Journal of the American Society of Nephrology: CJASN*, **2019**, 14, 810-822	6.9	9
106	The Relationship of Capillary Blood Flow Assessments with Real Time Myocardial Perfusion Echocardiography to Invasively Derived Microvascular and Epicardial Assessments. *Journal of the American Society of Echocardiography*, **2019**, 32, 1095-1101	5.8	2
105	Mechanisms of Stent Failure: Lessons from IVUS and OCT. *Current Cardiovascular Imaging Reports*, **2019**, 12, 1	0.7	
104	Left Ventricular Pseudoaneurysm Complicated With Very Late Rupture 5 Years After Myocardial Infarction. *JACC: Case Reports*, **2019**, 1, 569-572	1.2	2
103	Role of Invasive Functional Assessment in Surgical Revascularization of Coronary Artery Disease. *Circulation*, **2018**, 137, 1731-1739	16.7	7
102	A rare case of granulomatosis with polyangiitis-induced burnout cardiomyopathy: role of combined viability and metabolic imaging. *European Heart Journal Cardiovascular Imaging*, **2018**, 19, 584	4.1	2
101	Lost and found: Coronary stent retrieval and review of literature. *Catheterization and Cardiovascular Interventions*, **2018**, 92, 50-53	2.7	6
100	Fractional Flow Reserve Estimated at Coronary CT Angiography in Intermediate Lesions: Comparison of Diagnostic Accuracy of Different Methods to Determine Coronary Flow Distribution. *Radiology*, **2018**, 287, 76-84	20.5	22
99	Rupture of a stenotic thin-cap fibroatheroma in an area of low endothelial shear stress: Implication for mechanism of acute coronary syndromes. *European Heart Journal Cardiovascular Imaging*, **2018**, 19, 950-951	4.1	2
98	Pleiotropic Anti-atherosclerotic Effects of PCSK9 InhibitorsFrom Molecular Biology to Clinical Translation. *Current Atherosclerosis Reports*, **2018**, 20, 20	6	30

97	Acute right ventricular myocardial infarction. *Expert Review of Cardiovascular Therapy*, **2018**, 16, 455-464	2.5	15
96	Tyrosine Kinase Inhibitor-Induced Acute Myocarditis, Myositis, and Cardiogenic Shock. *Methodist DeBakey Cardiovascular Journal*, **2018**, 14, e5-e6	2.1	5
95	Bench testing and coronary artery bifurcations: a consensus document from the European Bifurcation Club. *EuroIntervention*, **2018**, 13, e1794-e1803	3.1	19
94	Percutaneous coronary intervention in left main coronary artery disease: the 13th consensus document from the European Bifurcation Club. *EuroIntervention*, **2018**, 14, 112-120	3.1	61
93	A Giant Aortic Root Abscess. *Methodist DeBakey Cardiovascular Journal*, **2018**, 14, 150	2.1	
92	Living with an inferior sinus venosus defect. *Cardiology Journal*, **2018**, 25, 646-647	1.4	
91	High-Risk Plaque Regression and Stabilization: Hybrid Noninvasive Morphological and Hemodynamic Assessment. *Circulation: Cardiovascular Imaging*, **2018**, 11, e007888	3.9	1
90	Combined non-invasive assessment of endothelial shear stress and molecular imaging of inflammation for the prediction of inflamed plaque in hyperlipidaemic rabbit aortas. *European Heart Journal Cardiovascular Imaging*, **2017**, 18, 19-30	4.1	12
89	Flow Perturbation Mediates Neutrophil Recruitment and Potentiates Endothelial Injury via TLR2 in Mice: Implications for Superficial Erosion. *Circulation Research*, **2017**, 121, 31-42	15.7	94
88	The evolution of heart failure with reduced ejection fraction pharmacotherapy: What do we have and where are we going?. *Pharmacology & Therapeutics*, **2017**, 178, 67-82	13.9	2
87	ARCOCT: Automatic detection of lumen border in intravascular OCT images. *Computer Methods and Programs in Biomedicine*, **2017**, 151, 21-32	6.9	14
86	New heart failure pharmacotherapy in clinical trials: a hope in progress. *Expert Review of Cardiovascular Therapy*, **2017**, 15, 649-651	2.5	1
85	Assessment of endothelial shear stress in patients with mild or intermediate coronary stenoses using coronary computed tomography angiography: comparison with invasive coronary angiography. *International Journal of Cardiovascular Imaging*, **2017**, 33, 1101-1110	2.5	4
84	Association of global and local low endothelial shear stress with high-risk plaque using intracoronary 3D optical coherence tomography: Introduction of "shear stress score". *European Heart Journal Cardiovascular Imaging*, **2017**, 18, 888-897	4.1	19
83	Vasospastic Angina Presenting With Syncope and Chest Pain: A Case Report and Brief Literature Review. *South Dakota Medicine: the Journal of the South Dakota State Medical Association*, **2017**, 70, 498-502	0.2	
82	Arterial Remodeling and Endothelial Shear Stress Exhibit Significant Longitudinal Heterogeneity Along the Length of Coronary Plaques. *JACC: Cardiovascular Imaging*, **2016**, 9, 1007-9	8.4	7
81	Drug-loaded particles: "Trojan horses" in the therapy of atherosclerosis. *Atherosclerosis*, **2016**, 251, 528-530	3.9	3
80	Applications of 3D printing in cardiovascular diseases. *Nature Reviews Cardiology*, **2016**, 13, 701-718	14.8	230

79	Refractory angina: new drugs on the block. *Expert Review of Cardiovascular Therapy*, **2016**, 14, 881-3	2.5	1
78	Quantifying the effect of side branches in endothelial shear stress estimates. *Atherosclerosis*, **2016**, 251, 213-218	3.1	17
77	Acute Coronary Syndrome in a 52-Year-Old Woman With Scleroderma. *Circulation*, **2016**, 133, 2576-82	16.7	1
76	Contrast inhomogeneity in CT angiography of the abdominal aortic aneurysm. *Journal of Cardiovascular Computed Tomography*, **2016**, 10, 179-83	2.8	5
75	Pharmacological approaches of refractory angina. *Pharmacology & Therapeutics*, **2016**, 163, 118-31	13.9	5
74	Foretelling plaque disruption: Is the journey to Ithaca reaching destination?. *Atherosclerosis*, **2016**, 244, 147-8	3.1	
73	Recurrent myocardial infarctions and premature coronary atherosclerosis in a 23-year-old man with antiphospholipid syndrome. *Thrombosis and Haemostasis*, **2016**, 115, 237-9	7	12
72	Erosion of Thin-Cap Fibroatheroma in an Area of Low Endothelial Shear Stress: Anatomy and Local Hemodynamic Environment Dictate Outcomes. *JACC: Cardiovascular Interventions*, **2016**, 9, e77-e78	5	7
71	How do we prevent the vulnerable atherosclerotic plaque from rupturing? Insights from in vivo assessments of plaque, vascular remodeling, and local endothelial shear stress. *Journal of Cardiovascular Pharmacology and Therapeutics*, **2015**, 20, 261-75	2.6	22
70	Statins and the coronary plaque calcium "paradox": Insights from non-invasive and invasive imaging. *Atherosclerosis*, **2015**, 241, 783-5	3.1	9
69	Bivalirudin in ST-segment-elevation myocardial infarction: for better or worse?. *Expert Review of Cardiovascular Therapy*, **2015**, 13, 893-5	2.5	
68	Accurate and reproducible reconstruction of coronary arteries and endothelial shear stress calculation using 3D OCT: comparative study to 3D IVUS and 3D QCA. *Atherosclerosis*, **2015**, 240, 510-9	3.1	44
67	Quantification of aortic calcification - how and why should we do it?. *Atherosclerosis*, **2015**, 240, 469-71	3.1	5
66	Vulnerable plaque imaging: updates on new pathobiological mechanisms. *European Heart Journal*, **2015**, 36, 3147-54	9.5	61
65	P wave analysis with wavelets identifies hypertensive patients at risk of recurrence of atrial fibrillation: A case-control study and 1year follow-up. *Journal of Electrocardiology*, **2015**, 48, 845-52	1.4	2
64	Biomechanical Modeling to Improve Coronary Artery Bifurcation Stenting: Expert Review Document on Techniques and Clinical Implementation. *JACC: Cardiovascular Interventions*, **2015**, 8, 1281-1296	5	65
63	Advanced anatomical and functional imaging guides management of coronary artery ulcerated plaque. *European Heart Journal Cardiovascular Imaging*, **2015**, 16, 1042	4.1	
62	Bivalirudin in stable angina and acute coronary syndromes. *Pharmacology & Therapeutics*, **2015**, 152, 1-10	13.9	5

61	Impact of local flow haemodynamics on atherosclerosis in coronary artery bifurcations. *EuroIntervention*, **2015**, 11 Suppl V, V18-22	3.1	27
60	Virtual bench testing to study coronary bifurcation stenting. *EuroIntervention*, **2015**, 11 Suppl V, V31-4	3.1	20
59	QRS analysis using wavelet transformation for the prediction of response to cardiac resynchronization therapy: a prospective pilot study. *Journal of Electrocardiology*, **2014**, 47, 59-65	1.4	12
58	Myocardial catastrophe: a case of sudden, severe myocardial dysfunction. *Circulation*, **2014**, 130, 854-62	16.7	7
57	Vulnerable plaque: the biomechanics of matter. *Atherosclerosis*, **2014**, 236, 351-2	3.1	11
56	Accuracy and reproducibility of automated, standardized coronary transluminal attenuation gradient measurements. *International Journal of Cardiovascular Imaging*, **2014**, 30, 1181-9	2.5	13
55	Inflammation goes with the flow: implications for non-invasive identification of high-risk plaque. *Atherosclerosis*, **2014**, 234, 476-8	3.1	9
54	Association of remodeling with endothelial shear stress, plaque elasticity, and volume in coronary arteries: a pilot coronary computed tomography angiography study. *Angiology*, **2014**, 65, 413-9	2.1	5
53	Wavelet-based analysis of P waves identifies patients with lone atrial fibrillation: a cross-sectional pilot study. *International Journal of Cardiology*, **2014**, 174, 389-92	3.2	1
52	Hypoplastic left coronary artery with large collateral vessels from an ectatic right coronary artery: multimodality imaging-based diagnostic work-up. *International Journal of Cardiology*, **2014**, 172, e396-7	3.2	2
51	Superior vena cava syndrome associated with right-to-left shunt through systemic-to-pulmonary venous collaterals. *Korean Journal of Radiology*, **2014**, 15, 185-7	6.9	3
50	Real-time three-dimensional transoesophageal echocardiography enables preoperative pulmonary valvulopathy assessment. *European Heart Journal Cardiovascular Imaging*, **2014**, 15, 713	4.1	4
49	Multimodality imaging for the assessment of total artificial heart function: complementary utility of 2- and 3-dimensional transesophageal echocardiography and computed tomography. *Journal of the American College of Cardiology*, **2014**, 63, e7	15.1	
48	Clinical validation of an algorithm for rapid and accurate automated segmentation of intracoronary optical coherence tomography images. *International Journal of Cardiology*, **2014**, 172, 568-80	3.2	13
47	Tumor encasement of the right coronary artery: role of anatomic and functional imaging in diagnosis and therapeutic management. *Open Cardiovascular Medicine Journal*, **2014**, 8, 110-2	0.7	5
46	Synergistic effect of local endothelial shear stress and systemic hypercholesterolemia on coronary atherosclerotic plaque progression and composition in pigs. *International Journal of Cardiology*, **2013**, 169, 394-401	3.2	28
45	IVUSAngio tool: a publicly available software for fast and accurate 3D reconstruction of coronary arteries. *Computers in Biology and Medicine*, **2013**, 43, 1793-803	7	16
44	Echocardiographic evaluation of coronary artery disease. *Coronary Artery Disease*, **2013**, 24, 613-23	1.4	11

43	Thin-capped atheromata with reduced collagen content in pigs develop in coronary arterial regions exposed to persistently low endothelial shear stress. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 1494-504	9.4	67
42	Endothelial shear stress in the evolution of coronary atherosclerotic plaque and vascular remodelling: current understanding and remaining questions. *Cardiovascular Research*, **2012**, 96, 234-43	9.9	210
41	Role of endothelial shear stress in stent restenosis and thrombosis: pathophysiologic mechanisms and implications for clinical translation. *Journal of the American College of Cardiology*, **2012**, 59, 1337-49	15.1	211
40	Novel non-invasive P wave analysis for the prediction of paroxysmal atrial fibrillation recurrences in patients without structural heart disease: a prospective pilot study. *International Journal of Cardiology*, **2011**, 153, 165-72	3.2	18
39	Augmented expression and activity of extracellular matrix-degrading enzymes in regions of low endothelial shear stress colocalize with coronary atheromata with thin fibrous caps in pigs. *Circulation*, **2011**, 123, 621-30	16.7	119
38	Natural history of experimental coronary atherosclerosis and vascular remodeling in relation to endothelial shear stress: a serial, in vivo intravascular ultrasound study. *Circulation*, **2010**, 121, 2092-101	16.7	140
37	Metabolic syndrome and angiographic coronary artery disease prevalence in association with the Framingham risk score. *Metabolic Syndrome and Related Disorders*, **2010**, 8, 201-8	2.6	9
36	Association of reduced zinc status with angiographically severe coronary atherosclerosis: a pilot study. *Angiology*, **2010**, 61, 449-55	2.1	23
35	Risk factors and drug interactions predisposing to statin-induced myopathy: implications for risk assessment, prevention and treatment. *Drug Safety*, **2010**, 33, 171-87	5.1	132
34	Effect of HMG-CoA reductase inhibitors on vascular cell apoptosis: beneficial or detrimental?. *Atherosclerosis*, **2010**, 211, 9-14	3.1	41
33	Regulation of heparanase expression in coronary artery disease in diabetic, hyperlipidemic swine. *Atherosclerosis*, **2010**, 213, 436-42	3.1	42
32	In-vivo assessment of the natural history of coronary atherosclerosis: vascular remodeling and endothelial shear stress determine the complexity of atherosclerotic disease progression. *Current Opinion in Cardiology*, **2010**, 25, 627-38	2.1	22
31	Acute myocardial infarction manifested with headache. *Open Cardiovascular Medicine Journal*, **2010**, 4, 148-50	0.7	4
30	IVUS image processing and semantic analysis for Cardiovascular Diseases risk prediction. *International Journal of Biomedical Engineering and Technology*, **2010**, 3, 349	1.3	5
29	Spontaneous dissection of right coronary artery manifested with acute myocardial infarction. *Open Cardiovascular Medicine Journal*, **2010**, 4, 178-80	0.7	9
28	Flow and atherosclerosis in coronary bifurcations. *EuroIntervention*, **2010**, 6 Suppl J, J16-23	3.1	36
27	Adult congenital heart disease investigated with cardiac catheterization over a 20-year period. *Open Cardiovascular Medicine Journal*, **2009**, 3, 124-7	0.7	6
26	Molecular basis of statin-associated myopathy. *Atherosclerosis*, **2009**, 202, 18-28	3.1	89

25	Attenuation of inflammation and expansive remodeling by Valsartan alone or in combination with Simvastatin in high-risk coronary atherosclerotic plaques. *Atherosclerosis*, **2009**, 203, 387-94	3.1	28
24	Myocardial bridges spared from atherosclerosis: overview of the underlying mechanisms. *Canadian Journal of Cardiology*, **2009**, 25, 219-22	3.8	29
23	The role of low endothelial shear stress in the conversion of atherosclerotic lesions from stable to unstable plaque. *Current Opinion in Cardiology*, **2009**, 24, 580-90	2.1	80
22	Idiopathic left ventricular aneurysm causing ventricular tachycardia with 1:1 ventriculoatrial conduction and intermittent wenckebach block. *Open Cardiovascular Medicine Journal*, **2009**, 3, 105-9	0.7	6
21	In vivo comparative study of linear versus geometrically correct three-dimensional reconstruction of coronary arteries. *American Journal of Cardiology*, **2008**, 101, 263-7	3	4
20	Elevated heart rate and atherosclerosis: an overview of the pathogenetic mechanisms. *International Journal of Cardiology*, **2008**, 126, 302-12	3.2	167
19	Pathogenetic mechanisms of coronary ectasia. *International Journal of Cardiology*, **2008**, 130, 335-43	3.2	121
18	The syndrome of rhabdomyolysis: complications and treatment. *European Journal of Internal Medicine*, **2008**, 19, 568-74	3.9	176
17	Prediction of the localization of high-risk coronary atherosclerotic plaques on the basis of low endothelial shear stress: an intravascular ultrasound and histopathology natural history study. *Circulation*, **2008**, 117, 993-1002	16.7	292
16	Sex-related differences in the angiographic results of 14,500 cases referred for suspected coronary artery disease. *Coronary Artery Disease*, **2008**, 19, 9-14	1.4	8
15	Non-Newtonian models for molecular viscosity and wall shear stress in a 3D reconstructed human left coronary artery. *Medical Engineering and Physics*, **2008**, 30, 9-19	2.4	80
14	Image analysis techniques for automated IVUS contour detection. *Ultrasound in Medicine and Biology*, **2008**, 34, 1482-98	3.5	55
13	Role of endothelial shear stress in the natural history of coronary atherosclerosis and vascular remodeling: molecular, cellular, and vascular behavior. *Journal of the American College of Cardiology* , **2007**, 49, 2379-93	15.1	986
12	A novel active contour model for fully automated segmentation of intravascular ultrasound images: in vivo validation in human coronary arteries. *Computers in Biology and Medicine*, **2007**, 37, 1292-302	7	50
11	Risk stratification of individual coronary lesions using local endothelial shear stress: a new paradigm for managing coronary artery disease. *Current Opinion in Cardiology*, **2007**, 22, 552-64	2.1	40
10	The syndrome of rhabdomyolysis: Pathophysiology and diagnosis. *European Journal of Internal Medicine*, **2007**, 18, 90-100	3.9	169
9	Coronary hemodynamics and atherosclerotic wall stiffness: a vicious cycle. *Medical Hypotheses*, **2007**, 69, 349-55	3.8	32
8	Is left coronary system more susceptible to atherosclerosis than right? A pathophysiological insight. *International Journal of Cardiology*, **2007**, 116, 7-13	3.2	40

7	Texture Analysis and Radial Basis Function Approximation for IVUS Image Segmentation. *Open Biomedical Engineering Journal*, **2007**, 1, 53-9	0.9	4
6	Prevalence of ectasia in human coronary arteries in patients in northern Greece referred for coronary angiography. *American Journal of Cardiology*, **2006**, 98, 314-8	3	57
5	Prevalence of narrowing >or=50% of the left main coronary artery among 17,300 patients having coronary angiography. *American Journal of Cardiology*, **2006**, 98, 1202-5	3	59
4	Pulsatile flow: a critical modulator of the natural history of atherosclerosis. *Medical Hypotheses*, **2006**, 67, 338-40	3.8	22
3	In-vivo validation of spatially correct three-dimensional reconstruction of human coronary arteries by integrating intravascular ultrasound and biplane angiography. *Coronary Artery Disease*, **2006**, 17, 533-43	1.4	27
2	In-vivo accuracy of geometrically correct three-dimensional reconstruction of human coronary arteries: is it influenced by certain parameters?. *Coronary Artery Disease*, **2006**, 17, 545-51	1.4	17
1	Spatial and phasic oscillation of non-Newtonian wall shear stress in human left coronary artery bifurcation: an insight to atherogenesis. *Coronary Artery Disease*, **2006**, 17, 351-8	1.4	51