Nicolas Foin

List of Publications by Year
in descending order

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83	3,129	182225 30	182931 54
papers	citations	h-index	g-index

83	83	83	3157
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stent malapposition generates stent thrombosis: Insights from a thrombosis model. International Journal of Cardiology, 2022, 353, 43-45.	0.8	9
2	Polymer Coating Integrity, Thrombogenicity and Computational Fluid Dynamics Analysis of Provisional Stenting Technique in the Left Main Bifurcation Setting: Insights from an In-Vitro Model. Polymers, 2022, 14, 1715.	2.0	1
3	T and Small Protrusion (TAP) vs Double-Kissing Crush Technique: Insights From In Vitro Models. Cardiovascular Revascularization Medicine, 2021, 24, 11-17.	0.3	5
4	Provisional Stenting for the Treatment of Bifurcation Lesions: In Vitro Insights. Journal of Cardiovascular Translational Research, 2021, 14, 595-597.	1.1	3
5	Computerized technologies informing cardiac catheterization and guiding coronary intervention. American Heart Journal, 2021, 240, 28-45.	1.2	4
6	Evaluation of an in vitro coronary stent thrombosis model for preclinical assessment. Platelets, 2020, 31, 167-173.	1.1	2
7	Comparison of overexpansion capabilities and thrombogenicity at the side branch ostia after implantation of four different drug eluting stents. Scientific Reports, 2020, 10, 20791.	1.6	9
8	Drug-coated balloons: Technical and clinical progress. Vascular Medicine, 2020, 25, 577-587.	0.8	20
9	Efficacy and Reproducibility of Attenuation-Compensated Optical Coherence Tomography for Assessing External Elastic Membrane Border and Plaque Composition in Native and Stented Segmentsâ€€â€• An In Vivo and Histology-Based Study â€•. Circulation Journal, 2019, 84, 91-100.	0.7	5
10	A multicenter postâ€•marketing evaluation of the Elixir DESolve^{Â®} Novolimusâ€eluting bioresorbable coronary scaffold system: First results from the DESolve PMCF study. Catheterization and Cardiovascular Interventions, 2018, 92, 1021-1027.	0.7	21
11	Is There Light at theÂEndÂof the Thin-Strut Tunnel?. JACC: Cardiovascular Interventions, 2018, 11, 714-716.	1.1	13
12	Bioresorbable Scaffold Stability and Mechanical Properties. , 2018, , 641-658.		1
13	Radiopaque Fully Degradable Nanocomposites for Coronary Stents. Scientific Reports, 2018, 8, 17409.	1.6	26
14	Regression of left ventricular hypertrophy provides an additive physiological benefit following treatment of aortic stenosis: Insights from serial coronary wave intensity analysis. Acta Physiologica, 2018, 224, e13109.	1.8	6
15	Drug-Coated Balloons: Technologies and Clinical Applications. Current Pharmaceutical Design, 2018, 24, 381-396.	0.9	14
16	Thrombogenicity at the jailed side branch ostia in the provisional stenting technique: insights from an in vitro model. EuroIntervention, 2018, 14, 826-827.	1.4	10
17	Evaluation of coronary flow conditions in complex coronary artery bifurcations stenting using computational fluid dynamics: Impact of final proximal optimization technique on different double-stent techniques. Cardiovascular Revascularization Medicine, 2017, 18, 233-240.	0.3	29
18	Invasive or non-invasive imaging for detecting high-risk coronary lesions?. Expert Review of Cardiovascular Therapy, 2017, 15, 165-179.	0.6	15

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19	Reply. JACC: Cardiovascular Interventions, 2017, 10, 422.	1.1	0
20	A new novolimus-eluting bioresorbable coronary scaffold: Present status and future clinical perspectives. International Journal of Cardiology, 2017, 227, 127-133.	0.8	23
21	Role of Proximal Optimization Technique Guided by Intravascular Ultrasound on Stent Expansion, Stent Symmetry Index, and Side-Branch Hemodynamics in Patients With Coronary Bifurcation Lesions. Circulation: Cardiovascular Interventions, 2017, 10, .	1.4	36
22	Serial 5-Year Evaluation of Side Branches Jailed by Bioresorbable Vascular Scaffolds Using 3-Dimensional Optical Coherence Tomography. Circulation: Cardiovascular Interventions, 2017, 10, .	1.4	7
23	Local Hemodynamic Forces After Stenting. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 2231-2242.	1.1	78
24	Bioresorbable stents: Current and upcoming bioresorbable technologies. International Journal of Cardiology, 2017, 228, 931-939.	0.8	116
25	The Glider registry. Catheterization and Cardiovascular Interventions, 2017, 89, E1-E6.	0.7	4
26	Mechanical behavior of polymer-based vs. metallic-based bioresorbable stents. Journal of Thoracic Disease, 2017, 9, S923-S934.	0.6	59
27	Stent malapposition and the risk of stent thrombosis: mechanistic insights from an in vitro model. EuroIntervention, 2017, 13, e1096-e1098.	1.4	37
28	Is high pressure postdilation safe in bioresorbable vascular scaffolds? Optical coherence tomography observations after noncompliant balloons inflated at more than 24 atmospheres. Catheterization and Cardiovascular Interventions, 2016, 87, 839-846.	0.7	23
29	Kissing, Snugging, or â€œPottingâ€?. JACC: Cardiovascular Interventions, 2016, 9, 1407-1409.	1.1	0
30	Optical coherence tomography guidance for percutaneous coronary intervention with bioresorbable scaffolds. International Journal of Cardiology, 2016, 221, 352-358.	0.8	24
31	Optimization of coronary optical coherence tomography imaging using the attenuation-compensated technique: a validation study. European Heart Journal Cardiovascular Imaging, 2016, 18, jew153.	0.5	10
32	Current bioresorbable scaffold technologies for treatment of coronary artery diseases: Do polymer and Magnesium platforms differ?. International Journal of Cardiology, 2016, 223, 526-528.	0.8	5
33	Materials technology in drug eluting balloons: Current and future perspectives. Journal of Controlled Release, 2016, 239, 92-106.	4.8	32
34	Over-expansion capacity and stent design model: An update with contemporary DES platforms. International Journal of Cardiology, 2016, 221, 171-179.	0.8	71
35	Index of Microvascular Resistance and Microvascular Obstruction in Patients With Acute Myocardial Infarction. JACC: Cardiovascular Interventions, 2016, 9, 2172-2174.	1.1	26
36	Estimation of coronary wave intensity analysis using noninvasive techniques and its application to exercise physiology. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H619-H627.	1.5	13

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37	Intravascular Assessment of Arterial DiseaseÂUsing Compensated OCT inÂComparison WithÂHistology. JACC: Cardiovascular Imaging, 2016, 9, 321-322.	2.3	6
38	Coronary evaginations and peri-scaffold aneurysms following implantation of bioresorbable scaffolds: incidence, outcome, and optical coherence tomography analysis of possible mechanisms. European Heart Journal, 2016, 37, 2040-2049.	1.0	43
39	Early coverage of drug-eluting stents analysed by optical coherence tomography: evidence of the impact of stent apposition and strut characteristics on the neointimal healing process. EuroIntervention, 2016, 12, e605-e614.	1.4	15
40	Absorb vs. DESolve: an optical coherence tomography comparison of acute mechanical performances. EuroIntervention, 2016, 12, e566-e573.	1.4	15
41	Bioresorbable vascular scaffold radial expansion and conformation compared to a metallic platform: insights from in vitro expansion in a coronary artery lesion model. EuroIntervention, 2016, 12, 834-844.	1.4	12
42	Is quantitative coronary angiography reliable in assessing the lumen gain after treatment with the everolimus-eluting bioresorbable polylactide scaffold?. EuroIntervention, 2016, 12, e998-e1008.	1.4	16
43	Very high-pressure dilatation for undilatable coronary lesions: indications and results with a new dedicated balloon. EuroIntervention, 2016, 12, 359-365.	1.4	67
44	Bioabsorbable vascular scaffold overexpansion: insights from in vitro post-expansion experiments. EuroIntervention, 2016, 11, 1389-1399.	1.4	35
45	Optical coherence tomography to evaluate coronary stent implantation and complications. Coronary Artery Disease, 2015, 26, e55-e68.	0.3	5
46	Advances in three-dimensional coronary imaging and computational fluid dynamics. Coronary Artery Disease, 2015, 26, e43-e54.	0.3	10
47	Change in Coronary Blood Flow After Percutaneous Coronary Intervention in Relation to Baseline Lesion Physiology. Circulation: Cardiovascular Interventions, 2015, 8, e001715.	1.4	38
48	Inducing Persistent Flow Disturbances Accelerates Atherogenesis and Promotes Thin Cap Fibroatheroma Development in D374Y -PCSK9 Hypercholesterolemic Minipigs. Circulation, 2015, 132, 1003-1012.	1.6	58
49	Biomechanical Modeling to Improve Coronary Artery Bifurcation Stenting. JACC: Cardiovascular Interventions, 2015, 8, 1281-1296.	1.1	84
50	Absorb bioresorbable vascular scaffold: What have we learned after 5years of clinical experience?. International Journal of Cardiology, 2015, 201, 129-136.	0.8	51
51	Final kissing balloon inflation: the whole story. EuroIntervention, 2015, 11, V81-V85.	1.4	40
52	When and how to perform the provisional approach for distal LM stenting. EuroIntervention, 2015, 11, V120-V124.	1.4	6
53	Biodegradable vascular scaffold: is optimal expansion the key to minimising flow disturbances and risk of adverse events?. EuroIntervention, 2015, 10, 1139-1142.	1.4	19
54	First optical coherence tomography follow-up of coronary bifurcation lesions treated by drug-eluting balloons. Journal of Invasive Cardiology, 2015, 27, 191-8.	0.4	3

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55	Pre-Angioplasty Instantaneous Wave-Free Ratio Pullback Provides Virtual Intervention and Predicts Hemodynamic Outcome for SerialÂLesions and Diffuse Coronary ArteryÂDisease. JACC: Cardiovascular Interventions, 2014, 7, 1386-1396.	1.1	107
56	Incomplete Stent Apposition Causes High Shear Flow Disturbances and Delay in Neointimal Coverage as a Function of Strut to Wall Detachment Distance. Circulation: Cardiovascular Interventions, 2014, 7, 180-189.	1.4	178
57	Baseline Instantaneous Wave-Free Ratio as a Pressure-Only Estimation of Underlying Coronary Flow Reserve. Circulation: Cardiovascular Interventions, 2014, 7, 492-502.	1.4	152
58	Impact of stent strut design in metallic stents and biodegradable scaffolds. International Journal of Cardiology, 2014, 177, 800-808.	0.8	136
59	Intracoronary optical coherence tomography. Journal of Cardiovascular Medicine, 2014, 15, 543-553.	0.6	7
60	Provisional Stenting of Coronary Bifurcations. JACC: Cardiovascular Interventions, 2014, 7, 325-333.	1.1	53
61	ABSORB Biodegradable Stents Versus Second-Generation Metal Stents. JACC: Cardiovascular Interventions, 2014, 7, 741-750.	1.1	115
62	Assessment of lesion functional significance with virtual FFR â€“ are we going with the flow?. EuroIntervention, 2014, 10, 535-538.	1.4	4
63	Method for Percutaneously Introducing, and Removing, Anatomical Stenosis of Predetermined Severity In Vivo: The â€œStenotic Stentâ€. Journal of Cardiovascular Translational Research, 2013, 6, 640-648.	1.1	3
64	Diagnostic Classification of the Instantaneous Wave-Free Ratio Is Equivalent to Fractional Flow Reserve and Is Not Improved With Adenosine Administration. Journal of the American College of Cardiology, 2013, 61, 1409-1420.	1.2	209
65	Intracoronary imaging using attenuation-compensated optical coherence tomography allows better visualisation of coronary artery diseases. Cardiovascular Revascularization Medicine, 2013, 14, 139-143.	0.3	16
66	Frequency domain optical coherence tomography for guidance of coronary stenting. International Journal of Cardiology, 2013, 166, 722-728.	0.8	31
67	Intracoronary Optical Coherence Tomography: Experience and Indications for Clinical Use. Current Cardiovascular Imaging Reports, 2013, 6, 399-410.	0.4	0
68	Improvement in coronary haemodynamics after percutaneous coronary intervention: assessment using instantaneous wave-free ratio. Heart, 2013, 99, 1740-1748.	1.2	26
69	Imaging of coronary artery plaques using contrast-enhanced optical coherence tomography. European Heart Journal Cardiovascular Imaging, 2013, 14, 85-85.	0.5	16
70	Bioabsorbable scaffold optimization in provisional stenting: insight from optical coherence tomography. European Heart Journal Cardiovascular Imaging, 2013, 14, 1149-1149.	0.5	5
71	Crush, Culotte, T and Protrusion: Which 2-Stent Technique for Treatment of True Bifurcation Lesions?. Circulation Journal, 2013, 77, 73-80.	0.7	47
72	Immediate results of bifurcational stenting assessed with optical coherence tomography. Catheterization and Cardiovascular Interventions, 2013, 81, 519-528.	0.7	25

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73	Maximal expansion capacity with current DES platforms: a critical factor for stent selection in the treatment of left main bifurcations?. EuroIntervention, 2013, 8, 1315-1325.	1.4	83
74	Classification performance of instantaneous wave-free ratio (iFR) and fractional flow reserve in a clinical population of intermediate coronary stenoses: results of the ADVISE registry. EuroIntervention, 2013, 9, 91-101.	1.4	161
75	Tools & Techniques Clinical: Optimising stenting strategy in bifurcation lesions with insights from in vitro bifurcation models. EuroIntervention, 2013, 9, 885-887.	1.4	25
76	Optical coherence tomography: from research to practice. European Heart Journal Cardiovascular Imaging, 2012, 13, 370-384.	0.5	81
77	Choosing the right cell: guidance with three-dimensional optical coherence tomography of bifurcational stenting. European Heart Journal Cardiovascular Imaging, 2012, 13, 443-443.	0.5	5
78	Kissing Balloon or Sequential Dilation of the Side Branch and Main Vessel for Provisional Stenting of Bifurcations. JACC: Cardiovascular Interventions, 2012, 5, 47-56.	1.1	111
79	Optical coherence tomography for guidance of distal cell recrossing in bifurcation stenting: choosing the right cell matters. EuroIntervention, 2012, 8, 205-213.	1.4	89
80	Jailed side branches. Journal of Cardiovascular Medicine, 2011, 12, 581-582.	0.6	14
81	Final proximal post-dilatation is necessary after kissing balloon in bifurcation stenting. EuroIntervention, 2011, 7, 597-604.	1.4	87
82	Optical coherence tomography for guidance of treatment of in-stent restenosis with cutting balloons. EuroIntervention, 2011, 7, 828-834.	1.4	18
83	Optical coherence tomography for guidance in bifurcation lesion treatment. EuroIntervention, 2010, 6, J99-J106.	1.4	45