Nico Bruining,, Fesc

List of Publications by Year
in descending order

121	7,160	94269 37	56606 83
papers	citations	h-index	g-index

136	136	136	5471
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Consensus Standards for Acquisition, Measurement, and Reporting of Intravascular Optical Coherence Tomography Studies. Journal of the American College of Cardiology, 2012, 59, 1058-1072.	1.2	1,530
2	A bioabsorbable everolimus-eluting coronary stent system (ABSORB): 2-year outcomes and results from multiple imaging methods. Lancet, The, 2009, 373, 897-910.	6.3	755
3	Expert review document part 2: methodology, terminology and clinical applications of optical coherence tomography for the assessment of interventional procedures. European Heart Journal, 2012, 33, 2513-2520.	1.0	349
4	Influence of intracoronary attenuation on coronary plaque measurements using multislice computed tomography: observations in an ex vivo model of coronary computed tomography angiography. European Radiology, 2005, 15, 1426-1431.	2.3	263
5	Randomized Double-Blind Comparison of Sirolimus-Eluting Stent Versus Bare-Metal Stent Implantation in Diseased Saphenous Vein Grafts. Journal of the American College of Cardiology, 2006, 48, 2423-2431.	1.2	243
6	Long-Term (>10 Years) Clinical Outcomes of First-in-Human Biodegradable Poly- l -Lactic Acid Coronary Stents. Circulation, 2012, 125, 2343-2353.	1.6	209
7	Incomplete Stent Apposition After Implantation of Paclitaxel-Eluting Stents or Bare Metal Stents. Circulation, 2005, 111, 900-905.	1.6	180
8	ECG-Gated Three-dimensional Intravascular Ultrasound. Circulation, 1997, 96, 2944-2952.	1.6	160
9	IVUS-based imaging modalities for tissue characterization: similarities and differences. International Journal of Cardiovascular Imaging, 2011, 27, 215-224.	0.7	158
10	Multislice Spiral Computed Tomography for the Evaluation of Stent Patency After Left Main Coronary Artery Stenting. Circulation, 2006, 114, 645-653.	1.6	155
11	Endothelial-dependent vasomotion in a coronary segment treated by ABSORB everolimus-eluting bioresorbable vascular scaffold system is related to plaque composition at the time of bioresorption of the polymer: indirect finding of vascular reparative therapy?. European Heart Journal, 2012, 33, 1325-1333.	1.0	138
12	Clinical expert consensus document on standards for acquisition, measurement and reporting of intravascular ultrasound regression/progression studies. EuroIntervention, 2011, 6, 1123-1130.	1.4	137
13	e-Health: a position statement of the European Society of Cardiology. European Heart Journal, 2016, 37, 63-66.	1.0	131
14	Noninvasive Detection of Subclinical Coronary Atherosclerosis Coupled With Assessment of Changes in Plaque Characteristics Using Novel Invasive Imaging Modalities. Journal of the American College of Cardiology, 2006, 47, 1134-1142.	1.2	112
15	Patient-Specific Computer Modeling to Predict Aortic Regurgitation After Transcatheter Aortic Valve Replacement. JACC: Cardiovascular Interventions, 2016, 9, 508-512.	1.1	91
16	ECG-gated versus nongated three-dimensional intracoronary ultrasound analysis: Implications for volumetric measurements. , 1998, 43, 254-260.		90
17	Local intracoronary administration of antisense oligonucleotide against c-myc for the prevention of in-stent restenosis. Journal of the American College of Cardiology, 2002, 39, 281-287.	1.2	89
18	Late Stent Recoil of the Bioabsorbable Everolimus-Eluting Coronary Stent and its Relationship With Plaque Morphology. Journal of the American College of Cardiology, 2008, 52, 1616-1620.	1.2	88

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19	Evaluation of Four-Year Coronary Artery Response After Sirolimus-Eluting Stent Implantation Using Serial Quantitative Intravascular Ultrasound and Computer-Assisted Grayscale Value Analysis for Plaque Composition in Event-Free Patients. Journal of the American College of Cardiology, 2005, 46, 1670-1676.	1.2	87
20	Quantification of Coronary Plaque by 64-slice Computed Tomography: A Comparison with Quantitative Intracoronary Ultrasound. Investigative Radiology, 2008, 43, 314-321.	3.5	83
21	Retrospective image-based gating of intracoronary ultrasound images for improved quantitative analysis: The intelligate method. Catheterization and Cardiovascular Interventions, 2004, 61, 84-94.	0.7	81
22	Electrocardiogram-Gated Intravascular Ultrasound Image Acquisition After Coronary Stent Deployment Facilitates On-Line Three-Dimensional Reconstruction and Automated Lumen Quantification. Journal of the American College of Cardiology, 1997, 30, 436-443.	1.2	76
23	Acquisition and analysis of cardiovascular signals on smartphones: potential, pitfalls and perspectives. European Journal of Preventive Cardiology, 2014, 21, 4-13.	0.8	74
24	Patient-specific image-based computer simulation for theprediction of valve morphology and calcium displacement after TAVI with the Medtronic CoreValve and the Edwards SAPIEN valve. EuroIntervention, 2016, 11, 1044-1052.	1.4	67
25	A novel approach for quantitative analysis of intracoronary optical coherence tomography: High interâ€observer agreement with computerâ€assisted contour detection. Catheterization and Cardiovascular Interventions, 2008, 72, 228-235.	0.7	63
26	Influence of convolution filtering on coronary plaque attenuation values: observations in an ex vivo model of multislice computed tomography coronary angiography. European Radiology, 2007, 17, 1842-1849.	2.3	62
27	Long-Term Effect of Perindopril on Coronary Atherosclerosis Progression (from the PERindoprilâ€™s) Tj ETQq1 1 0.784314 rgBT /Over	0.7	59
28	Reproducibility of coronary Fourier domain optical coherence tomography: quantitative analysis of in vivo stented coronary arteries using three different software packages. EuroIntervention, 2010, 6, 371-379.	1.4	57
29	Threeâ€dimensional and quantitative analysis of atherosclerotic plaque composition by automated differential echogenicity. Catheterization and Cardiovascular Interventions, 2007, 70, 968-978.	0.7	56
30	Quantitative Ex Vivo and In Vivo Comparison of Lumen Dimensions Measured by Optical Coherence Tomography and Intravascular Ultrasound in Human Coronary Arteries. Revista Espanola De Cardiologia (English Ed), 2009, 62, 615-624.	0.4	54
31	Precordial Threeâ€Dimensional Echocardiography With a Rotational Imaging Probe. Echocardiography, 1995, 12, 243-252.	0.3	51
32	Critical appraisal of artificial intelligence-based prediction models for cardiovascular disease. European Heart Journal, 2022, 43, 2921-2930.	1.0	50
33	The diagnostic value of intracoronary optical coherence tomography. Herz, 2011, 36, 417-429.	0.4	48
34	Fully automatic threeâ€dimensional quantitative analysis of intracoronary optical coherence tomography. Catheterization and Cardiovascular Interventions, 2009, 74, 1058-1065.	0.7	47
35	Meta-Analysis of the Studies Assessing Temporal Changes in Coronary Plaque Volume Using Intravascular Ultrasound. American Journal of Cardiology, 2007, 99, 5-10.	0.7	44
36	Quantitative multi-modality imaging analysis of aâ€ˆbioabsorbable poly-L-lactic acid stent design in the acute phase: a comparison between 2- and 3D-QCA, QCU and QMSCT-CA. EuroIntervention, 2008, 4, 285-291.	1.4	43

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37	Defining thenon-vulnerable and vulnerable patients with computed tomography coronary angiography: evaluation of atherosclerotic plaque burden and composition. European Heart Journal Cardiovascular Imaging, 2016, 17, 481-491.	0.5	39
38	Effect of perindopril on coronary remodelling: insights from a multicentre, randomized study. European Heart Journal, 2007, 28, 2326-2331.	1.0	37
39	High-speed intracoronary optical frequency domain imaging: implications for three-dimensional reconstruction and quantitative analysis. EuroIntervention, 2012, 7, 1216-1226.	1.4	37
40	Rationale and methods of the integrated biomarker and imaging study (IBIS): combining invasive and non-invasive imaging with biomarkers to detect subclinical atherosclerosis and assess coronary lesion biology. International Journal of Cardiovascular Imaging, 2005, 21, 425-441.	0.7	36
41	Two-Year Serial Coronary Angiographic and Intravascular Ultrasound Analysis of In-Stent Angiographic Late Lumen Loss and Ultrasonic Neointimal Volume from the TAXUS II Trial. American Journal of Cardiology, 2007, 99, 607-615.	0.7	36
42	Optical Coherence Tomography: Potential Clinical Applications. Current Cardiovascular Imaging Reports, 2012, 5, 206-220.	0.4	36
43	Monitoring In Vivo Absorption of a Drug-Eluting Bioabsorbable Stent With Intravascular Ultrasound-Derived Parameters. JACC: Cardiovascular Interventions, 2010, 3, 449-456.	1.1	35
44	Evaluation of coronary remodeling after Sirolimus-Eluting stent implantation by serial Three-Dimensional intravascular ultrasound. American Journal of Cardiology, 2003, 91, 1046-1050.	0.7	33
45	Serial Assessment of Tissue Precursors andÂProgression of Coronary Calcification Analyzed by Fusion of IVUS and OCT. JACC: Cardiovascular Imaging, 2017, 10, 1151-1161.	2.3	31
46	Mobile health in cardiology: a review of currently available medical apps and equipment for remote monitoring. Expert Review of Medical Devices, 2016, 13, 823-830.	1.4	30
47	Reproducible coronary plaque quantification by multislice computed tomography. Catheterization and Cardiovascular Interventions, 2007, 69, 857-865.	0.7	29
48	Progression of coronary artery calcification at the crossroads: sign of progression or stabilization of coronary atherosclerosis?. Cardiovascular Diagnosis and Therapy, 2016, 6, 250-258.	0.7	29
49	Quantitative measurements of in-stent restenosis: A comparison between quantitative coronary ultrasound and quantitative coronary angiography. Catheterization and Cardiovascular Interventions, 1999, 48, 133-142.	0.7	28
50	Coronary calcium significantly affects quantitative analysis of coronary ultrasound: importance for atherosclerosis progression/regression studies. Coronary Artery Disease, 2009, 20, 409-414.	0.3	27
51	Revisiting late loss and neointimal volumetric measurements in a drug-eluting stent trial: Analysis from the SPIRIT FIRST trial. Catheterization and Cardiovascular Interventions, 2006, 67, 188-197.	0.7	26
52	Serial Observation of Drug-Eluting Absorbable Metal Scaffold. Circulation: Cardiovascular Interventions, 2013, 6, 644-653.	1.4	26
53	Interstudy reproducibility of the second generation, Fourier domain optical coherence tomography in patients with coronary artery disease and comparison with intravascular ultrasound: a study applying automated contour detection. International Journal of Cardiovascular Imaging, 2013, 29, 39-51.	0.7	24
54	SimpsonÊ¼s rule for the volumetric ultrasound assessment of atherosclerotic coronary arteries. Coronary Artery Disease, 1997, 8, 363-370.	0.3	23

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55	Non-invasive visualization of coronary atherosclerosis: state-of-art. Journal of Cardiovascular Medicine, 2007, 8, 129-137.	0.6	23
56	Mobile health in adults with congenital heart disease: current use and future needs. Netherlands Heart Journal, 2016, 24, 647-652.	0.3	23
57	Geometrical validation of intravascular ultrasound radiofrequency data analysis (Virtual Histology) acquired with a 30 MHz boston scientific corporation imaging catheter. Catheterization and Cardiovascular Interventions, 2005, 66, 514-518.	0.7	21
58	Lumen enhancement influences absolute noncalcific plaque density on multislice computed tomography coronary angiography: ex-vivo validation and in-vivo demonstration. Journal of Cardiovascular Medicine, 2010, 11, 337-344.	0.6	21
59	In vivo Variability in Quantitative Coronary Ultrasound and Tissue Characterization Measurements with Mechanical and Phased-array Catheters. International Journal of Cardiovascular Imaging, 2006, 22, 47-53.	0.7	20
60	Serial In Vivo Intravascular Ultrasound-Based Echogenicity Changes of Everolimus-Eluting Bioresorbable Vascular Scaffold During the First 12 Months After Implantation. JACC: Cardiovascular Interventions, 2011, 4, 1281-1289.	1.1	19
61	Morphological and functional evaluation of the bioresorption of the bioresorbable everolimus-eluting vascular scaffold using IVUS, echogenicity and vasomotion testing at two year follow-up: a patient level insight into the ABSORB A clinical trial. International Journal of Cardiovascular Imaging, 2012, 28, 51-58.	0.7	19
62	Interatrial septum pacing guided bythree-dimensional intracardiac echocardiography. Journal of the American College of Cardiology, 2002, 40, 2139-2143.	1.2	18
63	Intravascular Ultrasound Comparison of Sirolimus-Eluting Stent Versus Bare Metal Stent Implantation in Diseased Saphenous Vein Grafts (from the RRISC [Reduction of Restenosis In Saphenous) Tj ETQq1 1 0.784314 rgBT /O 52-58.	0.7	18
64	Three-dimensional echocardiography paves the way toward virtual reality. Ultrasound in Medicine and Biology, 2000, 26, 1065-1074.	0.7	17
65	Adjustment method for mechanical Boston scientific corporation 30 MHz intravascular ultrasound catheters connected to a ClearviewÂ®console. International Journal of Cardiovascular Imaging, 2004, 20, 83-91.	0.7	17
66	The impact of Fourier-Domain optical coherence tomography catheter induced motion artefacts on quantitative measurements of a PLLA-based bioresorbable scaffold. International Journal of Cardiovascular Imaging, 2014, 30, 1013-1026.	0.7	17
67	Reproducibility of qualitative assessment of stent struts coverage by optical coherence tomography. International Journal of Cardiovascular Imaging, 2013, 29, 5-11.	0.7	16
68	Comparison between the first and second generation bioresorbable vascular scaffolds: a six month virtual histology study. EuroIntervention, 2011, 6, 1110-1116.	1.4	16
69	Coronary plaque composition as assessed by greyscale intravascular ultrasound and radiofrequency spectral data analysis. International Journal of Cardiovascular Imaging, 2008, 24, 811-818.	0.7	15
70	Artificial Intelligence and Transcatheter Interventions for Structural Heart Disease: A glance at the (near) future. Trends in Cardiovascular Medicine, 2022, 32, 153-159.	2.3	15
71	Automatic Detection of Bioabsorbable Coronary Stents in IVUS Images Using a Cascade of Classifiers. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 535-537.	3.6	14
72	Tools & Techniques: Analysis of clustered data in interventional cardiology: current practice and methodological advice. EuroIntervention, 2013, 9, 162-164.	1.4	13

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73	Intravascular ultrasound radiofrequency analysis after optimal coronary stenting with initial quantitative coronary angiography guidance: an ATHEROREMO sub-study. EuroIntervention, 2011, 6, 977-984.	1.4	11
74	Does frame geometry play a role in aortic regurgitation after Medtronic CoreValve implantation?. EuroIntervention, 2016, 12, 519-525.	1.4	11
75	Influence of increasing convolution kernel filtering on plaque imaging with multislice CT using an ex-vivo model of coronary angiography. Radiologia Medica, 2005, 110, 234-40.	4.7	11
76	Differences in Frame Geometry Between Balloon-expandable and Self-expanding Transcatheter Heart Valves and Association With Aortic Regurgitation. Revista Espanola De Cardiologia (English Ed), 2016, 69, 392-400.	0.4	10
77	Coronary calcification as a mechanism of plaque/media shrinkage in vessels treated with bioresorbable vascular scaffold: A multimodality intracoronary imaging study. Atherosclerosis, 2018, 269, 6-13.	0.4	10
78	The post-pandemic legacy: the breakthrough of digital health and telemedicine. Cardiovascular Research, 2021, 117, e118-e119.	1.8	10
79	Three-Dimensional Echocardiography:.. Echocardiography, 1999, 16, 417-423.	0.3	9
80	Intravascular Ultrasound Registration/Integration with Coronary Angiography. Cardiology Clinics, 2009, 27, 531-540.	0.9	9
81	Quantitative Optical Frequency Domain Imaging Assessment of In-Stent Structures in PatientsWith ST-Segment Elevation Myocardial Infarction. Circulation Journal, 2012, 76, 2822-2831.	0.7	9
82	Electrocardiographic imaging-based recognition of possible induced bundle branch blocks during transcatheter aortic valve implantations. Europace, 2014, 16, 750-757.	0.7	7
83	Retrospective image-based gating of intracoronary optical coherence tomography: implications for quantitative analysis. EuroIntervention, 2011, 6, 1098-1103.	1.4	7
84	Impact factors: scientific and career assessment by numbers. EuroIntervention, 2011, 7, 143-147.	1.4	7
85	Dynamic imaging of coronary stent structures: an ECG-gated three-dimensional intracoronary ultrasound study in humans. Ultrasound in Medicine and Biology, 1998, 24, 631-637.	0.7	6
86	Serial Coronary Imaging of EarlyÂAtherosclerosis Development inÂFast-Food-Fed Diabetic and Nondiabetic Swine. JACC Basic To Translational Science, 2016, 1, 449-460.	1.9	6
87	Timing of pulmonary valve replacement in patients with corrected Fallot to prevent QRS prolongation. European Journal of Cardio-thoracic Surgery, 2020, 58, 559-566.	0.6	6
88	Effects of Septal Pacing on P Wave Characteristics: The Value of Three-Dimensional Echocardiography. PACE - Pacing and Clinical Electrophysiology, 2003, 26, 253-256.	0.5	5
89	How clinically effective is intravascular ultrasound in interventional cardiology? Present and future perspectives. Expert Review of Medical Devices, 2013, 10, 735-749.	1.4	5
90	The future of computers in cardiology: â€˜the connected patientâ€™?. European Heart Journal, 2017, 38, 1781-1794.	1.0	5

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91	Head to head comparison of optical coherence tomography, intravascular ultrasound echogenicity and virtual histology for the detection of changes in polymeric struts over time: insights from the ABSORB trial. EuroIntervention, 2012, 8, 352-358.	1.4	5
92	CardioPulse Articles. European Heart Journal, 2012, 33, 1417-1425.	1.0	4
93	CORONARY CALCIFICATION AS A MECHANISM OF PLAQUE/MEDIA SHRINKAGE: A MULTIMODALITY INTRACORONARY IMAGING STUDY. Journal of the American College of Cardiology, 2017, 69, 52.	1.2	4
94	The 12-lead surface electrocardiogram: a sheet of paper or a realm of concealed information asking for deep learning analysis. European Heart Journal Digital Health, 2021, 2, 356-357.	0.7	4
95	Robot-assisted telestenting: brightening the light of science. EuroIntervention, 2017, 12, 1561-1563.	1.4	4
96	Re-examining minimal luminal diameter relocation and quantitative coronary angiography â€“ intravascular ultrasound correlations in stented saphenous vein grafts: methodological. EuroIntervention, 2009, 4, 633-640.	1.4	4
97	Quantification of scientific output in cardiovascular medicine: a perspective based on global data. EuroIntervention, 2013, 9, 975-978.	1.4	4
98	The European Society of Cardiology - A Digital Educator. Journal of European CME, 2021, 10, 2014039.	0.6	4
99	Reply. JACC: Cardiovascular Interventions, 2020, 13, 2581-2582.	1.1	3
100	Welcome on behalf of the Editors! Letter from the editor. European Heart Journal Digital Health, 2020, 1, 1-2.	0.7	3
101	A Histological â€œFly-Throughâ€•of a Diseased Coronary Artery. Circulation: Cardiovascular Imaging, 2009, 2, e8-9.	1.3	2
102	Long-term application of vitamin K antagonists, more harm than good? The additional value of imaging. European Heart Journal, 2011, 32, 2473-2475.	1.0	2
103	The diabetes conundrum: despite increasing incidences of coronary disease in diabetic type II patients, their first cathlab presentation is later than expected. European Heart Journal, 2013, 34, 715-718.	1.0	2
104	Compositional volumetry of non-calcified coronary plaques by multislice computed tomography: an ex vivo feasibility study. EuroIntervention, 2009, 5, 558-564.	1.4	2
105	Invasive Imaging of Bioresorbable Coronary Scaffolds â€“ A Review. Interventional Cardiology Review, 2013, 8, 23.	0.7	2
106	Telemedical monitoring by an implanted loop recorder: gateway to personalized medicine? Results of the SMART-MI study. Cardiovascular Research, 2022, 118, e45-e47.	1.8	2
107	AS-067 Endothelial-Dependent Vasomotion in Coronary Segment Treated by ABSORB Everolimus-Eluting Bioresorbable Vascular Scaffold System is Related to Plaque Composition at the Time of Bioresorption of the Polymer: Indirect Finding of Vascular Reparative Therapy?. American Journal of Cardiology, 2012, 109, S33-S34.	0.7	1
108	Identifying cardiac pathologies with coronary wave intensity analysis: an enrichment to the ever-expanding coronary haemodynamics armamentarium?. European Heart Journal, 2018, 39, 1815-1817.	1.0	1

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109	International feasibility trial on the use of an interactive mobile health platform for cardiac rehabilitation: protocol of the Diversity 1 study. BMJ Health and Care Informatics, 2019, 26, e100042.	1.4	1
110	Will Artificial Intelligence Deliver Precision Medicine for Patients With Aortic Stenosis?. JACC: Cardiovascular Interventions, 2021, 14, 2141-2143.	1.1	1
111	Addressing interventional periprocedural anxiety with virtual reality. EuroIntervention, 2020, 16, e963-e965.	1.4	1
112	The 1-year anniversary of the European Heart Journal â€“ Digital Health. European Heart Journal Digital Health, 2021, 2, 548-549.	0.7	1
113	TCT-557 IVUS Echogenicity Analysis of the Paclitaxel-Eluting Absorbable Magnesium Scaffold (DREAMS). Journal of the American College of Cardiology, 2013, 62, B168.	1.2	0
114	CardioPulse Articles. European Heart Journal, 2015, 36, 832-836.	1.0	0
115	3D ICUS. , 2003, , 106-120.		0
116	Quantitative Coronary Ultrasound (QCU). Medical Radiology, 2004, , 79-86.	0.0	0
117	Invasive Coronary Imaging. Medical Radiology, 2009, , 25-98.	0.0	0
118	Coronary Plaque Quantification by Multi-slice Computed Tomography. , 2014, , 3-19.		0
119	Meet key Digital Health thought leaders. European Heart Journal Digital Health, 0, , .	0.7	0
120	Reviewers and Awards. European Heart Journal Digital Health, 0, , .	0.7	0
121	The Mayo clinic: Digital Health Center of Excellence. European Heart Journal Digital Health, 0, , .	0.7	0