Francesco Prati

List of Publications by Citations

113 papers	6,105 citations	35 h-index	77 g-index
131 ext. papers	7,374 ext. citations	4.7 avg, IF	5 L-index

#	Paper	IF	Citations
113	Consensus standards for acquisition, measurement, and reporting of intravascular optical coherence tomography studies: a report from the International Working Group for Intravascular Optical Coherence Tomography Standardization and Validation. *Journal of the American College of*	15.1	1216
112	Expert review document on methodology, terminology, and clinical applications of optical coherence tomography: physical principles, methodology of image acquisition, and clinical application for assessment of coronary arteries and atherosclerosis. *European Heart Journal*, **2010**, 31, 401-15	9.5	642
111	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, 2513-20	9.5	286
110	Safety and performance of the drug-eluting absorbable metal scaffold (DREAMS) in patients with de-novo coronary lesions: 12 month results of the prospective, multicentre, first-in-man BIOSOLVE-I trial. *Lancet, The*, **2013**, 381, 836-44	40	285
109	Angiography alone versus angiography plus optical coherence tomography to guide decision-making during percutaneous coronary intervention: the Centro per la Lotta contro l'Infarto-Optimisation of Percutaneous Coronary Intervention (CLI-OPCI) study. *EuroIntervention*,	3.1	255
108	Clinical use of intracoronary imaging. Part 1: guidance and optimization of coronary interventions. An expert consensus document of the European Association of Percutaneous Cardiovascular Interventions. *European Heart Journal*, **2018**, 39, 3281-3300	9.5	212
107	Clinical Impact of OCT Findings During PCI: The CLI-OPCI II Study. *JACC: Cardiovascular Imaging*, **2015**, 8, 1297-305	8.4	177
106	High levels of systemic myeloperoxidase are associated with coronary plaque erosion in patients with acute coronary syndromes: a clinicopathological study. *Circulation*, **2010**, 122, 2505-13	16.7	170
105	Plaque rupture and intact fibrous cap assessed by optical coherence tomography portend different outcomes in patients with acute coronary syndrome. *European Heart Journal*, **2015**, 36, 1377-84	9.5	161
104	Clinical classification of plaque morphology in coronary disease. *Nature Reviews Cardiology*, **2014**, 11, 379-89	14.8	156
103	The fate of incomplete stent apposition with drug-eluting stents: an optical coherence tomography-based natural history study. *European Heart Journal*, **2010**, 31, 1470-6	9.5	145
102	Identification of patients and plaques vulnerable to future coronary events with near-infrared spectroscopy intravascular ultrasound imaging: a prospective, cohort study. *Lancet, The*, **2019**, 394, 1629-1637	40	131
101	In-stent neointimal proliferation correlates with the amount of residual plaque burden outside the stent: an intravascular ultrasound study. *Circulation*, **1999**, 99, 1011-4	16.7	128
100	Safety and feasibility of frequency domain optical coherence tomography to guide decision making in percutaneous coronary intervention. *EuroIntervention*, **2010**, 6, 575-81	3.1	120
99	Safety and feasibility of a new non-occlusive technique for facilitated intracoronary optical coherence tomography (OCT) acquisition in various clinical and anatomical scenarios. *EuroIntervention*, **2007**, 3, 365-70	3.1	108
98	Relationship between coronary plaque morphology of the left anterior descending artery and 12 months clinical outcome: the CLIMA study. *European Heart Journal*, **2020**, 41, 383-391	9.5	105
97	Clinical use of intracoronary imaging. Part 2: acute coronary syndromes, ambiguous coronary angiography findings, and guiding interventional decision-making: an expert consensus document of the European Association of Percutaneous Cardiovascular Interventions. *European Heart Journal*,	9.5	104

96	Comprehensive overview of definitions for optical coherence tomography-based plaque and stent analyses. *Coronary Artery Disease*, **2014**, 25, 172-85	1.4	93
95	Stenting of culprit lesions in unstable angina leads to a marked reduction in plaque burden: a major role of plaque embolization? A serial intravascular ultrasound study. *Circulation*, **2003**, 107, 2320-5	16.7	87
94	From bench to bedside: a novel technique of acquiring OCT images. *Circulation Journal*, **2008**, 72, 839-43	2.9	84
93	Severity of coronary atherosclerosis in patients with a first acute coronary event: a diabetes paradox. *European Heart Journal*, **2013**, 34, 729-41	9.5	78
92	A multicentre evaluation of the safety of intracoronary optical coherence tomography. *EuroIntervention*, **2009**, 5, 90-5	3.1	70
91	Local delivery versus intracoronary infusion of abciximab in patients with acute coronary syndromes. *JACC: Cardiovascular Interventions*, **2010**, 3, 928-34	5	65
90	Suboptimal stent deployment is associated with subacute stent thrombosis: optical coherence tomography insights from a multicenter matched study. From the CLI Foundation investigators: the CLI-THRO study. *American Heart Journal*, **2015**, 169, 249-56	4.9	62
89	Methodology for fully automated segmentation and plaque characterization in intracoronary optical coherence tomography images. *Journal of Biomedical Optics*, **2014**, 19, 026009	3.5	61
88	Coronary Atherosclerotic Phenotype and Plaque Healing in Patients With Recurrent Acute Coronary Syndromes Compared With Patients With Long-term Clinical Stability: An In Vivo Optical Coherence Tomography Study. *JAMA Cardiology*, **2019**, 4, 321-329	16.2	55
87	Clinical use of intracoronary imaging. Part 1: guidance and optimization of coronary interventions. An expert consensus document of the European Association of Percutaneous Cardiovascular Interventions. *EuroIntervention*, **2018**, 14, 656-677	3.1	53
86	Identification and quantification of macrophage presence in coronary atherosclerotic plaques by optical coherence tomography. *European Heart Journal Cardiovascular Imaging*, **2015**, 16, 807-13	4.1	50
85	Intravascular ultrasound versus optical coherence tomography guidance. *Journal of the American College of Cardiology*, **2013**, 62, S32-40	15.1	46
84	Comparison of optical coherence tomography and intravascular ultrasound for the assessment of in-stent tissue coverage after stent implantation. *EuroIntervention*, **2009**, 5, 538-43	3.1	45
83	Comparative analysis method of permanent metallic stents (XIENCE) and bioresorbable poly-L-lactic (PLLA) scaffolds (Absorb) on optical coherence tomography at baseline and follow-up. *EuroIntervention*, **2016**, 12, 1498-1509	3.1	44
82	Stent-related defects in patients presenting with stent thrombosis: differences at optical coherence tomography between subacute and late/very late thrombosis in the Mechanism Of Stent Thrombosis (MOST) study. *EuroIntervention*, **2013**, 9, 936-44	3.1	43
81	Clinical Impact of Suboptimal Stenting and Residual Intrastent Plaque/Thrombus Protrusion in Patients With Acute Coronary Syndrome: The CLI-OPCI ACS Substudy (Centro per la Lotta Contro L'Infarto-Optimization of Percutaneous Coronary Intervention in Acute Coronary Syndrome). *Circulation: Cardiovascular Interventions*, **2016**, 9,	6	39
80	Angiographic evaluation of the effect of intracoronary abciximab administration in patients undergoing urgent PCI. *International Journal of Cardiology*, **2005**, 105, 250-5	3.2	38
79	Reproducibility of coronary optical coherence tomography for lumen and length measurements in humans (The CLI-VAR [Centro per la Lotta contro l'Infarto-VARiability] study). *American Journal of Cardiology*, **2012**, 110, 1106-12	3	35

78	Optical coherence tomography accurately identifies intermediate atherosclerotic lesions--an in vivo evaluation in the rabbit carotid artery. *Atherosclerosis*, **2007**, 193, 94-101	3.1	34
77	Optical coherence tomography criteria for defining functional severity of intermediate lesions: a comparative study with FFR. *International Journal of Cardiovascular Imaging*, **2013**, 29, 1685-91	2.5	33
76	Role of residual acute stent malapposition in percutaneous coronary interventions. *Catheterization and Cardiovascular Interventions*, **2017**, 90, 566-575	2.7	30
75	Association between proximal stent edge positioning on atherosclerotic plaques containing lipid pools and postprocedural myocardial infarction (from the CLI-POOL Study). *American Journal of Cardiology*, **2013**, 111, 526-31	3	30
74	Randomized comparison between 3-month Cre8 DES vs. 1-month Vision/Multilink8 BMS neointimal coverage assessed by OCT evaluation: the DEMONSTRATE study. *International Journal of Cardiology* , **2014**, 176, 904-9	3.2	28
73	First-in-man 1-year clinical outcomes of the Catania Coronary Stent System with Nanothin Polyzene-F in de novo native coronary artery lesions: the ATLANTA (Assessment of The LAtest Non-Thrombogenic Angioplasty stent) trial. *JACC: Cardiovascular Interventions*, **2009**, 2, 197-204	5	27
72	Invasive management without stents in selected acute coronary syndrome patients with a large thrombus burden: a prospective study of optical coherence tomography guided treatment decisions. *EuroIntervention*, **2015**, 11, 895-904	3.1	25
71	Optical coherence tomography-guided coronary stent implantation compared to angiography: a multicentre randomised trial in PCI - design and rationale of ILUMIEN IV: OPTIMAL PCI. *EuroIntervention*, **2021**, 16, 1092-1099	3.1	25
70	Evaluation of infarct-related coronary artery patency and microcirculatory function after facilitated percutaneous primary coronary angioplasty: the FINESSE-ANGIO (Facilitated Intervention With Enhanced Reperfusion Speed to Stop Events-Angiographic) study. *JACC: Cardiovascular Interventions*, **2010**, 3, 1284-91	5	24
69	Detection of very early stent healing after primary angioplasty: an optical coherence tomographic observational study of chromium cobaltum and first-generation drug-eluting stents. The DETECTIVE study. *Heart*, **2011**, 97, 1841-6	5.1	23
68	Randomized evaluation of intralesion versus intracoronary abciximab and aspiration thrombectomy in patients with ST-elevation myocardial infarction: The COCTAIL II trial. *American Heart Journal*, **2015**, 170, 1116-23	4.9	21
67	Optical coherence tomography for characterization of cardiac allograft vasculopathy in late survivors of pediatric heart transplantation. *Journal of Heart and Lung Transplantation*, **2016**, 35, 74-79	5.8	19
66	Long-term consequences of optical coherence tomography findings during percutaneous coronary intervention: the Centro Per La Lotta Contro L'Infarto - Optimization Of Percutaneous Coronary Intervention (CLI-OPCI) LATE study. *EuroIntervention*, **2018**, 14, e443-e451	3.1	19
65	Optical coherence tomographic results at six-month follow-up evaluation of the CATANIA coronary stent system with nanothin Polyzene-F surface modification (from the Assessment of The LAtest Non-Thrombogenic Angioplasty Stent [ATLANTA] trial). *American Journal of Cardiology*, **2009**, 103, 1551-5	3	18
64	Serial optical coherence tomography imaging of ACS-causing culprit plaques. *EuroIntervention*, **2015**, 11, 319-24	3.1	17
63	Clinical use of intracoronary imaging. Part 2: acute coronary syndromes, ambiguous coronary angiography findings, and guiding interventional decision-making: an expert consensus document of the European Association of Percutaneous Cardiovascular Interventions. *EuroIntervention*, **2019**, 15, 434-451	3.1	15
62	Optical coherence tomography assessment and quantification of intracoronary thrombus: Status and perspectives. *Cardiovascular Revascularization Medicine*, **2015**, 16, 172-8	1.6	14
61	Transcatheter renal sympathetic ablation for resistant hypertension: in vivo insights in humans from optical coherence tomography. *International Journal of Cardiology*, **2013**, 165, e35-7	3.2	14

60	Optical coherence tomography guided in-stent thrombus removal in patients with acute coronary syndromes. *International Journal of Cardiovascular Imaging*, **2013**, 29, 989-96	2.5	13
59	In vivo vulnerability grading system of plaques causing acute coronary syndromes: An intravascular imaging study. *International Journal of Cardiology*, **2018**, 269, 350-355	3.2	12
58	Randomized trial of standard versus ClearWay-infused abciximab and thrombectomy in myocardial infarction: rationale and design of the COCTAIL II study. *Journal of Cardiovascular Medicine*, **2013**, 14, 364-71	1.9	12
57	Optical coherence tomography features of angiographic complex and smooth lesions in acute coronary syndromes. *International Journal of Cardiovascular Imaging*, **2015**, 31, 927-34	2.5	11
56	A "stable" coronary plaque rupture documented by repeated OCT studies. *JACC: Cardiovascular Imaging*, **2013**, 6, 835-6	8.4	11
55	Subclinical atherosclerosis: how and when to treat it?. *European Heart Journal Supplements*, **2020**, 22, E87-E90	1.5	11
54	Role of optical coherence tomography for distal left main stem angioplasty. *Catheterization and Cardiovascular Interventions*, **2020**, 96, 755-761	2.7	10
53	Head-to-head comparison of early vessel healing by optical coherence tomography after implantation of different stents in the same patient. *Journal of Cardiovascular Medicine*, **2011**, 12, 328-33	1.9	9
52	Myocardial infarction with non-obstructive coronary artery disease. *EuroIntervention*, **2021**, 17, e875-e887	3.1	9
51	Fully automated calcium detection using optical coherence tomography. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 1430-3	0.9	8
50	ClearWayRX system to reduce intracoronary thrombus in patients with acute coronary syndromes according to optical coherence tomography after abciximab intracoronary local infusion trial (COCTAIL): study rationale and design. *Journal of Cardiovascular Medicine*, **2010**, 11, 130-6	1.9	8
49	Optical coherence tomography in coronary atherosclerosis assessment and intervention.. *Nature Reviews Cardiology*, **2022**,	14.8	8
48	Relation between thoracic aortic inflammation and features of plaque vulnerability in the coronary tree in patients with non-ST-segment elevation acute coronary syndrome undergoing percutaneous coronary intervention. An FDG-positron emission tomography and optical coherence tomography study. *European Journal of Nuclear Medicine and Molecular Imaging*, **2017**, 44, 1878-1887	8.8	6
47	Comparative Effectiveness and Safety of Polymer-Free Biolimus-Eluting Stent and Durable Polymer Everolimus-Eluting Stent in All-Comer Patients Who Underwent Percutaneous Coronary Interventions. *American Journal of Cardiology*, **2019**, 124, 195-204	3	6
46	Comparison of Strut Coverage at 6 Months by Optical Coherence Tomography With Everolimus-Eluting Stenting of Bare-Metal Stent Restenosis Versus Stenosis of Nonstented Atherosclerotic Narrowing (from the DESERT Study). *American Journal of Cardiology*, **2015**, 115, 1351-6	3	6
45	Coronary inflammation: why searching, how to identify and treat it. *European Heart Journal Supplements*, **2020**, 22, E121-E124	1.5	5
44	Innovative invasive management without stent implantation guided by optical coherence tomography in acute coronary syndrome. *Archives of Cardiovascular Diseases*, **2018**, 111, 666-677	2.7	5
43	Reproducibility of serial optical coherence tomography measurements for lumen area and plaque components in humans (The CLI-VAR [Centro per la Lotta Contro l'Infarto-variability] II study). *International Journal of Cardiovascular Imaging*, **2016**, 32, 381-7	2.5	4

42	Quantification of manual thrombus removal in patients with acute coronary syndromes: a study exploiting serial frequency domain-optical coherence tomography. *Journal of Cardiovascular Medicine*, **2015**, 16, 204-12	1.9	4
41	Imaging of intraplaque haemorrhage. *Journal of Cardiovascular Medicine*, **2012**, 13, 640-4	1.9	4
40	Early vessel healing of the Avantgarde cobalt-chromium coronary stent: the ON-GARDE OCT study. *Journal of Cardiovascular Medicine*, **2013**, 14, 276-80	1.9	4
39	Rapid Evaluation of Vessel HEaling After AngiopLasty (REVEAL) trial: rationale, objectives and design. *Journal of Cardiovascular Medicine*, **2010**, 11, 53-8	1.9	4
38	Recurrent acute coronary syndrome and mechanisms of plaque instability. *International Journal of Cardiology*, **2017**, 243, 98-102	3.2	3
37	The CLIMA study: assessing the risk of myocardial infarction with a new anatomical score. *European Heart Journal Supplements*, **2019**, 21, B80-B83	1.5	3
36	Role of optical coherence tomography in identifying sub-optimal stent positioning and predicting major adverse cardiac events in a comparative study with angiography: a CLIO-OPCI II sub-study. *Coronary Artery Disease*, **2018**, 29, 384-388	1.4	3
35	Reproducibility of the Carpet View system: a novel technical solution for display and off line analysis of OCT images. *International Journal of Cardiovascular Imaging*, **2014**, 30, 1225-33	2.5	3
34	Vulnerable struts with CRE8, Biomatrix and Xience stents assessed with OCT and their correlation with clinical variables at 6-month follow-up: the CREBX-OCT study. *International Journal of Cardiovascular Imaging*, **2020**, 36, 217-230	2.5	3
33	Impact of oral P2Y12 inhibitors on residual thrombus burden and reperfusion indexes in patients with ST-segment elevation myocardial infarction. *Journal of Cardiovascular Medicine*, **2016**, 17, 701-6	1.9	3
32	Prevalence and quantitative assessment of macrophages in coronary plaques. *International Journal of Cardiovascular Imaging*, **2021**, 37, 37-45	2.5	3
31	The role of residual intrastent thrombus during primary angioplasty: insights from the COCTAIL II study. *Journal of Cardiovascular Medicine*, **2017**, 18, 348-353	1.9	2
30	Atherosclerosis to predict cardiac events: where and how to look for it. *Journal of Cardiovascular Medicine*, **2017**, 18 Suppl 1, e154-e156	1.9	2
29	The artery under the lens. *EuroIntervention*, **2010**, 6, 15-17	3.1	2
28	Present and future of coronary risk assessment. *European Heart Journal Supplements*, **2021**, 23, E123-E127	2.5	2
27	Comparison between intermediate and severe coronary stenoses and clinical outcomes of an OCT-guided PCI strategy. *Journal of Cardiovascular Medicine*, **2016**, 17, 361-7	1.9	2
26	Assessment of Mechanisms of Acute Coronary Syndromes and Composition of Culprit Plaques in Patients With and Without Diabetes. *JACC: Cardiovascular Imaging*, **2019**, 12, 1111-1112	8.4	2
25	Effects of stent postdilatation during primary PCI for STEMI: Insights from coronary physiology and optical coherence tomography. *Catheterization and Cardiovascular Interventions*, **2021**, 97, 1309-1317	2.7	2

24	Optical coherence tomography, intravascular ultrasound or angiography guidance for distal left main coronary stenting. The ROCK cohort II study. *Catheterization and Cardiovascular Interventions*, **2021**,	2.7	2
23	The value of imaging in subclinical coronary artery disease. *Vascular Pharmacology*, **2016**, 82, 20-9	5.9	1
22	Optical Coherence Tomography (OCT) **2013**, 363-375		1
21	Optical coherence tomography assessment of macrophages accumulation in non-ST-segment elevation acute coronary syndromes. *Journal of Cardiovascular Medicine*, **2020**, 21, 860-865	1.9	1
20	Adoption of a new automated optical coherence tomography software to obtain a lipid plaque spread-out plot. *International Journal of Cardiovascular Imaging*, **2021**, 37, 3129-3135	2.5	1
19	A comparison of intracoronary treatment strategies for thrombus burden removal during primary percutaneous coronary intervention: a COCTAIL II substudy. *Coronary Artery Disease*, **2018**, 29, 186-193	1.4	1
18	Clinical outcomes of suboptimal stent deployment as assessed by optical coherence tomography: long-term results of the CLI-OPCI registry. *EuroIntervention*, **2021**,	3.1	1
17	Relationship betweeen the amount and location of macrophages and clinical outcome: subanalysis of the CLIMA-study. *International Journal of Cardiology*, **2022**, 346, 8-12	3.2	0
16	The Role of the Association Between Serum C-Reactive Protein Levels and Coronary Plaque Macrophage Accumulation in Predicting Clinical Events - Results from the CLIMA Registry.. *Journal of Cardiovascular Translational Research*, **2022**, 1	3.3	0
15	Optical Coherence Tomography in the Catheterization Laboratory **2018**, 365-374		
14	Multi-Imaging Investigation to Evaluate the Relationship between Serum Cystatin C and Features of Atherosclerosis in Non-ST-Segment Elevation Acute Coronary Syndrome. *Applied Sciences (Switzerland)*, **2019**, 9, 657	2.6	
13	OCT Guidance to Improve Clinical Outcome of Coronary Interventions: What Have We Learnt?. *Current Cardiovascular Imaging Reports*, **2013**, 6, 421-425	0.7	
12	Focus on the COCTAIL study. *Interventional Cardiology*, **2011**, 3, 275-281	3	
11	OCT in the Clinical Practice and Data from Clinical Studies. *Advances in Bioinformatics and Biomedical Engineering Book Series*,209-219	0.4	
10	Personalised risk stratification of acute coronary syndromes calls for a less broad grouping of MACE. *EuroIntervention*, **2019**, 14, 1631-1634	3.1	
9	Optical Coherence Tomography for the Assessment of Coronary Artery Disease **2015**, 1419-1430		
8	Invasive Imaging of Coronary Atherosclerotic Plaques **2012**, 363-369		
7	Plaque imaging with optical coherence tomography: Current status and potential clinical implications **2012**, 175-185		

6	Plaque imaging with optical coherence tomography **2012**, 175-185	
5	Optical Coherence Tomography in the Cathlab **2013**, 137-146	
4	Optical Coherence Tomography in the Catheterization Laboratory **2013**, 1-14	
3	The Authors Reply. *JACC: Cardiovascular Imaging*, **2016**, 9, 903-904	8.4
2	OCT/atherectomy/pathology studies open new perspectives for in vivo characterization of plaque composition. *International Journal of Cardiology*, **2019**, 284, 14-15	3.2
1	Adenosine and fractional flow reserve: no reason to be afraid anymore!. *Minerva Cardiology and Angiology*, **2021**, 69, 446-448	2.4