

# Farouc A Jaffer,, Fscai

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1427679/farouc-a-jaffer-fscai-publications-by-year.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

220  
papers

10,106  
citations

50  
h-index

96  
g-index

309  
ext. papers

11,772  
ext. citations

7.2  
avg, IF

5.96  
L-index

#	Paper	IF	Citations
220	Outcomes of chronic total occlusion percutaneous coronary intervention in patients with reduced left ventricular ejection fraction.. <i>Catheterization and Cardiovascular Interventions</i> , <b>2022</b> ,	2.7	3
219	Histopathological correlation of near infrared autofluorescence in human cadaver coronary arteries.. <i>Atherosclerosis</i> , <b>2022</b> , 344, 31-39	3.1	
218	The year in cardiovascular medicine: interventional cardiology.. <i>European Heart Journal</i> , <b>2022</b> ,	9.5	1
217	Intravital Microscopy in Atherosclerosis Research.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2419, 645-658	1.4	
216	Intravascular Fluorescence Molecular Imaging of Atherosclerosis.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2419, 853-872	1.4	
215	Genotyping in Anticoagulated Patients After Percutaneous Coronary Intervention: Should It Be Routine?. <i>Circulation</i> , <b>2022</b> , 145, 721-723	16.7	0
214	The year in cardiovascular medicine 2021: interventional cardiology. <i>Cardiologia Croatica</i> , <b>2022</b> , 17, 59-72		1
213	Optical Coherence Tomography, Near-Infrared Spectroscopy, and Near-Infrared Fluorescence Molecular Imaging <b>2022</b> , 107-125		
212	Imaging High-Risk Atherothrombosis Using a Novel Fibrin-Binding Positron Emission Tomography Probe.. <i>Stroke</i> , <b>2021</b> , STROKEAHA121035638	6.7	
211	Definitions and Clinical Trial Design Principles for Coronary Artery Chronic Total Occlusion Therapies: CTO-ARC Consensus Recommendations. <i>Circulation</i> , <b>2021</b> , 143, 479-500	16.7	34
210	Protective Effects of Kininogen-1 Gene Deficiency in Mouse Models of Venous Thrombosis. <i>Blood</i> , <b>2021</b> , 138, 289-289	2.2	
209	Highly Selective PPAR[̢]Agonist Pemafibrate Inhibits Stent Inflammation and Restenosis Assessed by Multimodality Molecular-Microstructural Imaging. <i>Journal of the American Heart Association</i> , <b>2021</b> , 10, e020834	6	1
208	Impact of adherence to the hybrid algorithm for initial crossing strategy selection in chronic total occlusion percutaneous coronary intervention. <i>Revista Espanola De Cardiologia (English Ed)</i> , <b>2021</b> , 74, 1023-1031	0.7	
207	Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography Imaging Predicts Vein Wall Scarring and Statin Benefit in Murine Venous Thrombosis. <i>Circulation: Cardiovascular Imaging</i> , <b>2021</b> , 14, e011898	3.9	0
206	Incidence, Predictors, and Outcomes of Thrombotic Events in Hospitalized Patients With Viral Pneumonia. <i>American Journal of Cardiology</i> , <b>2021</b> , 143, 164-165	3	2
205	Time-Restricted Salutary Effects of Blood Flow Restoration on Venous Thrombosis and Vein Wall Injury in Mouse and Human Subjects. <i>Circulation</i> , <b>2021</b> , 143, 1224-1238	16.7	6
204	Initial Findings From the North American COVID-19 Myocardial Infarction Registry. <i>Journal of the American College of Cardiology</i> , <b>2021</b> , 77, 1994-2003	15.1	29

203	Platelet Detection Using a Glycoprotein IIb/IIIa-Targeted Near-Infrared Fluorescence Imaging Probe. <i>ACS Sensors</i> , <b>2021</b> , 6, 2225-2232	9.2	0
202	In-Stent CTO Percutaneous Coronary Intervention: Individual Patient Data Pooled Analysis of 4 Multicenter Registries. <i>JACC: Cardiovascular Interventions</i> , <b>2021</b> , 14, 1308-1319	5	4
201	Intravascular molecular-structural imaging with a miniaturized integrated near-infrared fluorescence and ultrasound catheter. <i>Journal of Biophotonics</i> , <b>2021</b> , 14, e202100048	3.1	0
200	Near-Infrared Autofluorescence in Atherosclerosis Associates With Ceroid and Is Generated by Oxidized Lipid-Induced Oxidative Stress. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2021</b> , 41, e383-e393	8.4	3
199	Equipment utilization in chronic total occlusion percutaneous coronary interventions: Insights from the PROGRESS-CTO registry. <i>Catheterization and Cardiovascular Interventions</i> , <b>2021</b> , 97, 658-667	2.7	3
198	Outcomes of retrograde chronic total occlusion percutaneous coronary intervention: A report from the OPEN-CTO registry. <i>Catheterization and Cardiovascular Interventions</i> , <b>2021</b> , 97, 1162-1173	2.7	3
197	Impacto de la adherencia a un algoritmo híbrido para la selección de la estrategia inicial de cruce en la intervención coronaria percutánea de oclusiones crónicas. <i>Revista Española De Cardiología</i> , <b>2021</b> , 74, 1024-1024	1.5	
196	Molecular Imaging of Atherosclerosis <b>2021</b> , 1193-1223		
195	Chronic total occlusion percutaneous coronary intervention in octogenarians and nonagenarians. <i>Journal of the American Geriatrics Society</i> , <b>2021</b> , 69, 1560-1569	5.6	1
194	Computed tomography angiography co-registration with real-time fluoroscopy in percutaneous coronary intervention for chronic total occlusions. <i>EuroIntervention</i> , <b>2021</b> , 17, e433-e435	3.1	7
193	Global Chronic Total Occlusion Crossing Algorithm: JACC State-of-the-Art Review. <i>Journal of the American College of Cardiology</i> , <b>2021</b> , 78, 840-853	15.1	21
192	Intravascular Molecular-Structural Assessment of Arterial Inflammation in Preclinical Atherosclerosis Progression. <i>JACC: Cardiovascular Imaging</i> , <b>2021</b> , 14, 2265-2267	8.4	0
191	Safety and efficacy of dedicated guidewire, microcatheter, and guide catheter extension technologies for chronic total coronary occlusion revascularization: Primary results of the Teleflex Chronic Total Occlusion Study. <i>Catheterization and Cardiovascular Interventions</i> , <b>2021</b> ,	2.7	1
190	Cardiovascular Mortality and Exposure to Heat in an Inherently Hot Region: Implications for Climate Change. <i>Circulation</i> , <b>2020</b> , 141, 1271-1273	16.7	8
189	Role of Coronary Computed Tomography Angiography in Percutaneous Coronary Intervention of Chronic Total Occlusions. <i>Current Cardiovascular Imaging Reports</i> , <b>2020</b> , 13, 1	0.7	3
188	SCAI position statement on optimal percutaneous coronary interventional therapy for complex coronary artery disease. <i>Catheterization and Cardiovascular Interventions</i> , <b>2020</b> , 96, 346-362	2.7	26
187	Multimodality Cardiovascular Imaging in the Midst of the COVID-19 Pandemic: Ramping Up Safely to a New Normal. <i>JACC: Cardiovascular Imaging</i> , <b>2020</b> , 13, 1615-1626	8.4	35
186	Retrograde Chronic Total Occlusion Percutaneous Coronary Intervention via Saphenous Vein Graft. <i>JACC: Cardiovascular Interventions</i> , <b>2020</b> , 13, 517-526	5	12

185	Intravascular Molecular Imaging to Detect High-Risk Vulnerable Plaques: Current Knowledge and Future Perspectives. <i>Current Cardiovascular Imaging Reports</i> , <b>2020</b> , 13, 1	0.7	1
184	In Vivo Imaging of Venous Thrombus and Pulmonary Embolism Using Novel Murine Venous Thromboembolism Model. <i>JACC Basic To Translational Science</i> , <b>2020</b> , 5, 344-356	8.7	4
183	Multidisciplinary Heart Team Approach for Complex Coronary Artery Disease: Single Center Clinical Presentation. <i>Journal of the American Heart Association</i> , <b>2020</b> , 9, e014738	6	12
182	Technical and procedural outcomes of the retrograde approach to chronic total occlusion interventions. <i>EuroIntervention</i> , <b>2020</b> , 16, e891-e899	3.1	11
181	Optimizing Multidisciplinary Simulation in Medical School for Larger Groups: Role Assignment by Lottery and Guided Learning. <i>Advances in Medical Education and Practice</i> , <b>2020</b> , 11, 969-976	1.5	0
180	The Impact of Peripheral Artery Disease in Chronic Total Occlusion Percutaneous Coronary Intervention (Insights From PROGRESS-CTO Registry). <i>Angiology</i> , <b>2020</b> , 71, 274-280	2.1	5
179	Ly6C <sup>Lo</sup> Monocyte/Macrophages are Essential for Thrombus Resolution in a Murine Model of Venous Thrombosis. <i>Thrombosis and Haemostasis</i> , <b>2020</b> , 120, 289-299	7	8
178	Outcomes of subintimal plaque modification in chronic total occlusion percutaneous coronary intervention. <i>Catheterization and Cardiovascular Interventions</i> , <b>2020</b> , 96, 1029-1035	2.7	10
177	Practical cardiovascular risk calculator for asymptomatic patients with type 2 diabetes mellitus: PRECISE-DM risk score. <i>Clinical Cardiology</i> , <b>2020</b> , 43, 1040-1047	3.3	3
176	Intravascular Molecular Imaging: Near-Infrared Fluorescence as a New Frontier. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 587100	5.4	5
175	Cardiac Imaging in the Post-ISCHEMIA Trial Era: A Multisociety Viewpoint. <i>JACC: Cardiovascular Imaging</i> , <b>2020</b> , 13, 1815-1833	8.4	10
174	Paclitaxel Drug-Coated Balloon Angioplasty Suppresses Progression and Inflammation of Experimental Atherosclerosis in Rabbits. <i>JACC Basic To Translational Science</i> , <b>2020</b> , 5, 685-695	8.7	7
173	Impact of concomitant treatment of non-chronic total occlusion lesions at the time of chronic total occlusion intervention. <i>International Journal of Cardiology</i> , <b>2020</b> , 299, 75-80	3.2	2
172	Atorvastatin Reduces Fibrin Deposition and Macrophage Accumulation, and Improves Primary Patency Duration and Maturation of Murine Arteriovenous Fistula. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2020</b> , 31, 931-945	12.7	5
171	Temporal Trends in Chronic Total Occlusion Percutaneous Coronary Interventions: Insights From the PROGRESS-CTO Registry. <i>Journal of Invasive Cardiology</i> , <b>2020</b> , 32, 153-160	0.7	6
170	IVUS and OCT: Current State-of-the-Art in Intravascular Coronary Imaging. <i>Current Cardiovascular Imaging Reports</i> , <b>2019</b> , 12, 1	0.7	2
169	Depression and Angina Among Patients Undergoing Chronic Total Occlusion Percutaneous Coronary Intervention: The OPEN-CTO Registry. <i>JACC: Cardiovascular Interventions</i> , <b>2019</b> , 12, 651-658	5	11
168	In-Hospital Outcomes of Chronic Total Occlusion Percutaneous Coronary Interventions in Patients With Prior Coronary Artery Bypass Graft Surgery. <i>Circulation: Cardiovascular Interventions</i> , <b>2019</b> , 12, e007338	6	19

167	Cangrelor in cardiogenic shock and after cardiopulmonary resuscitation: A global, multicenter, matched pair analysis with oral P2Y inhibition from the IABP-SHOCK II trial. <i>Resuscitation</i> , <b>2019</b> , 137, 205-212	4	19
166	Procedural Outcomes of Percutaneous Coronary Interventions for Chronic Total Occlusions Via the Radial Approach: Insights From an International Chronic Total Occlusion Registry. <i>JACC: Cardiovascular Interventions</i> , <b>2019</b> , 12, 346-358	5	24
165	Examining the Operator Learning Curve for Percutaneous Coronary Intervention of Chronic Total Occlusions. <i>Circulation: Cardiovascular Interventions</i> , <b>2019</b> , 12, e007877	6	11
164	Noninvasive Imaging of High-Risk Plaque <b>2019</b> , 388-404		
163	Guiding Principles for Chronic Total Occlusion Percutaneous Coronary Intervention. <i>Circulation</i> , <b>2019</b> , 140, 420-433	16.7	120
162	HDAC9 complex inhibition improves smooth muscle-dependent stenotic vascular disease. <i>JCI Insight</i> , <b>2019</b> , 4,	9.9	13
161	The functional assessment of patients with non-obstructive coronary artery disease: expert review from an international microcirculation working group. <i>EuroIntervention</i> , <b>2019</b> , 14, 1694-1702	3.1	17
160	Usefulness of Atherectomy in Chronic Total Occlusion Interventions (from the PROGRESS-CTO Registry). <i>American Journal of Cardiology</i> , <b>2019</b> , 123, 1422-1428	3	18
159	3D cellular-resolution imaging in arteries using few-mode interferometry. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 104	16.7	18
158	An HDAC9-MALAT1-BRG1 complex mediates smooth muscle dysfunction in thoracic aortic aneurysm. <i>Nature Communications</i> , <b>2018</b> , 9, 1009	17.4	72
157	The Hybrid Approach to Chronic Total Occlusion Percutaneous Coronary Intervention: Update From the PROGRESS CTO Registry. <i>JACC: Cardiovascular Interventions</i> , <b>2018</b> , 11, 1325-1335	5	92
156	Randomized Comparison of a CrossBoss First Versus Standard Wire Escalation Strategy for Crossing Coronary Chronic Total Occlusions: The CrossBoss First Trial. <i>JACC: Cardiovascular Interventions</i> , <b>2018</b> , 11, 225-233	5	33
155	Prevalence, Presentation and Treatment of Balloon Undilatable Chronic Total Occlusions: Insights from a Multicenter US Registry. <i>Catheterization and Cardiovascular Interventions</i> , <b>2018</b> , 91, 657-666	2.7	15
154	Inhibition of the methyltransferase EZH2 improves aortic performance in experimental thoracic aortic aneurysm. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	21
153	Chronic Total Occlusion Interventions: Update on Current Tips and Tricks. <i>Current Cardiology Reports</i> , <b>2018</b> , 20, 141	4.2	4
152	Prevalence and Outcomes of Percutaneous Coronary Interventions for Ostial Chronic Total Occlusions: Insights From a Multicenter Chronic Total Occlusion Registry. <i>Canadian Journal of Cardiology</i> , <b>2018</b> , 34, 1264-1274	3.8	8
151	In-hospital Outcomes of Attempting More Than One Chronic Total Coronary Occlusion Through Percutaneous Intervention During the Same Procedure. <i>American Journal of Cardiology</i> , <b>2018</b> , 122, 381-387	3	3
150	Retrograde CTO-PCI of Native Coronary Arteries Via Left Internal Mammary Artery Grafts: Insights From a Multicenter U.S. Registry. <i>Journal of Invasive Cardiology</i> , <b>2018</b> , 30, 89-96	0.7	11

149	Mechanical Circulatory Support in Chronic Total Occlusion Percutaneous Coronary Intervention: Insights From a Multicenter U.S. Registry. <i>Journal of Invasive Cardiology</i> , <b>2018</b> , 30, 81-87	0.7	8
148	Hybrid intravascular imaging: recent advances, technical considerations, and current applications in the study of plaque pathophysiology. <i>European Heart Journal</i> , <b>2017</b> , 38, 400-412	9.5	114
147	Guidewire and microcatheter utilization patterns during antegrade wire escalation in chronic total occlusion percutaneous coronary intervention: Insights from a contemporary multicenter registry. <i>Catheterization and Cardiovascular Interventions</i> , <b>2017</b> , 89, E90-E98	2.7	17
146	Everolimus-eluting stents stabilize plaque inflammation in vivo: assessment by intravascular fluorescence molecular imaging. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2017</b> , 18, 510-518	4.1	12
145	Molecular Imaging of Atherosclerosis: A Clinical Focus. <i>Current Cardiovascular Imaging Reports</i> , <b>2017</b> , 10, 1	0.7	7
144	Noninvasive FFR Derived From Coronary CT Angiography: Management and Outcomes in the PROMISE Trial. <i>JACC: Cardiovascular Imaging</i> , <b>2017</b> , 10, 1350-1358	8.4	112
143	Atheroma Susceptible to Thrombosis Exhibit Impaired Endothelial Permeability In Vivo as Assessed by Nanoparticle-Based Fluorescence Molecular Imaging. <i>Circulation: Cardiovascular Imaging</i> , <b>2017</b> , 10,	3.9	34
142	Metabolic and Molecular Imaging of Atherosclerosis and Venous Thromboembolism. <i>Journal of Nuclear Medicine</i> , <b>2017</b> , 58, 871-877	8.9	20
141	Impact of Calcium on Chronic Total Occlusion Percutaneous Coronary Interventions. <i>American Journal of Cardiology</i> , <b>2017</b> , 120, 40-46	3	22
140	Coronary artery spatial distribution of chronic total occlusions: Insights from a large US registry. <i>Catheterization and Cardiovascular Interventions</i> , <b>2017</b> , 90, 23-30	2.7	4
139	Quantitative intravascular biological fluorescence-ultrasound imaging of coronary and peripheral arteries in vivo. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2017</b> , 18, 1253-1261	4.1	20
138	Sequential Acute Coronary Syndrome 4 Days Apart: A Missed Opportunity?. <i>Circulation Journal</i> , <b>2017</b> , 81, 1231-1233	2.9	
137	Target Vessel Revascularization and Territory of Myocardial Ischemia in Patients With Chronic Total Occlusions. <i>Journal of the American College of Cardiology</i> , <b>2017</b> , 70, 1196-1197	15.1	7
136	Incidence, Treatment, and Outcomes of Coronary Perforation During Chronic Total Occlusion Percutaneous Coronary Intervention. <i>American Journal of Cardiology</i> , <b>2017</b> , 120, 1285-1292	3	46
135	Imaging the Coronary Artery Plaque: Approaches, Advances, and Challenges. <i>Current Cardiovascular Imaging Reports</i> , <b>2017</b> , 10, 1	0.7	1
134	Predictors of Excess Patient Radiation Exposure During Chronic Total Occlusion Coronary Intervention: Insights From a Contemporary Multicentre Registry. <i>Canadian Journal of Cardiology</i> , <b>2017</b> , 33, 478-484	3.8	12
133	Impact of diabetes mellitus on acute outcomes of percutaneous coronary intervention in chronic total occlusions: insights from a US multicentre registry. <i>Diabetic Medicine</i> , <b>2017</b> , 34, 558-562	3.5	7
132	Prevalence, indications and management of balloon uncrossable chronic total occlusions: Insights from a contemporary multicenter US registry. <i>Catheterization and Cardiovascular Interventions</i> , <b>2017</b> , 90, 12-20	2.7	25

131	Real-time fusion of coronary CT angiography with x-ray fluoroscopy during chronic total occlusion PCI. <i>European Radiology</i> , <b>2017</b> , 27, 2464-2473	8	32
130	Endotoxaemia-augmented murine venous thrombosis is dependent on TLR-4 and ICAM-1, and potentiated by neutropenia. <i>Thrombosis and Haemostasis</i> , <b>2017</b> , 117, 339-348	7	17
129	Intravascular fibrin molecular imaging improves the detection of unhealed stents assessed by optical coherence tomography in vivo. <i>European Heart Journal</i> , <b>2017</b> , 38, 447-455	9.5	37
128	Myeloid-related protein-14 regulates deep vein thrombosis. <i>JCI Insight</i> , <b>2017</b> , 2,	9.9	16
127	Comparison of various scores for predicting success of chronic total occlusion percutaneous coronary intervention. <i>International Journal of Cardiology</i> , <b>2016</b> , 224, 50-56	3.2	32
126	Development and Validation of a Scoring System for Predicting Periprocedural Complications During Percutaneous Coronary Interventions of Chronic Total Occlusions: The Prospective Global Registry for the Study of Chronic Total Occlusion Intervention (PROGRESS CTO) Complications	6	57
125	Outcomes With the Use of the Retrograde Approach for Coronary Chronic Total Occlusion Interventions in a Contemporary Multicenter US Registry. <i>Circulation: Cardiovascular Interventions</i> , <b>2016</b> , 9,	6	69
124	Effect of Previous Failure on Subsequent Procedural Outcomes of Chronic Total Occlusion Percutaneous Coronary Intervention (from a Contemporary Multicenter Registry). <i>American Journal of Cardiology</i> , <b>2016</b> , 117, 1267-71	3	17
123	Clinical Characterization of Coronary Atherosclerosis With Dual-Modality OCT and Near-Infrared Autofluorescence Imaging. <i>JACC: Cardiovascular Imaging</i> , <b>2016</b> , 9, 1304-1314	8.4	104
122	Development and Validation of a Novel Scoring System for Predicting Technical Success of Chronic Total Occlusion Percutaneous Coronary Interventions: The PROGRESS CTO (Prospective Global Registry for the Study of Chronic Total Occlusion Intervention) Score. <i>JACC: Cardiovascular Interventions</i> , <b>2016</b> , 9, 1-9	5	171
121	Contrast Utilization During Chronic Total Occlusion Percutaneous Coronary Intervention: Insights From a Contemporary Multicenter Registry. <i>Journal of Invasive Cardiology</i> , <b>2016</b> , 28, 288-94	0.7	12
120	Approaches to percutaneous coronary intervention of right coronary artery chronic total occlusions: insights from a multicentre US registry. <i>EuroIntervention</i> , <b>2016</b> , 12, e1326-e1335	3.1	7
119	Gram-Negative Pneumonia Alters Large-Vein Cell-Adhesion Molecule Profile and Potentiates Experimental Stasis Venous Thrombosis. <i>Journal of Vascular Research</i> , <b>2016</b> , 53, 186-195	1.9	6
118	Optical Coherence Tomography, Near-Infrared Spectroscopy, and Near-Infrared Fluorescence Molecular Imaging <b>2016</b> , 91-106		
117	Use of Intravascular Imaging During Chronic Total Occlusion Percutaneous Coronary Intervention: Insights From a Contemporary Multicenter Registry. <i>Journal of the American Heart Association</i> , <b>2016</b> , 5,	6	20
116	Near Infrared Fluorescence (NIRF) Molecular Imaging of Oxidized LDL with an Autoantibody in Experimental Atherosclerosis. <i>Scientific Reports</i> , <b>2016</b> , 6, 21785	4.9	27
115	Effect of Lesion Age on Outcomes of Chronic Total Occlusion Percutaneous Coronary Intervention: Insights From a Contemporary US Multicenter Registry. <i>Canadian Journal of Cardiology</i> , <b>2016</b> , 32, 1433-1439	3.8	4
114	Use of antegrade dissection re-entry in coronary chronic total occlusion percutaneous coronary intervention in a contemporary multicenter registry. <i>International Journal of Cardiology</i> , <b>2016</b> , 214, 428-37	3.2	35

113	Intravascular NIRF Molecular Imaging Approaches in Coronary Artery Disease. <i>Current Cardiovascular Imaging Reports</i> , <b>2016</b> , 9, 1	0.7	8
112	Targeted Near-Infrared Fluorescence Imaging of Atherosclerosis: Clinical and Intracoronary Evaluation of Indocyanine Green. <i>JACC: Cardiovascular Imaging</i> , <b>2016</b> , 9, 1087-1095	8.4	61
111	Angina Severity, Depression, and Response to Percutaneous Revascularization in Patients With Chronic Total Occlusion of Coronary Arteries. <i>Journal of Invasive Cardiology</i> , <b>2016</b> , 28, 44-51	0.7	13
110	Side-Branch Occlusions in Coronary CTO-PCI: Avoid or Forget?. <i>Journal of Invasive Cardiology</i> , <b>2016</b> , 28, 174-5	0.7	
109	Impact of Proximal Cap Ambiguity on Outcomes of Chronic Total Occlusion Percutaneous Coronary Intervention: Insights From a Multicenter US Registry. <i>Journal of Invasive Cardiology</i> , <b>2016</b> , 28, 391-396	0.7	6
108	Application and outcomes of a hybrid approach to chronic total occlusion percutaneous coronary intervention in a contemporary multicenter US registry. <i>International Journal of Cardiology</i> , <b>2015</b> , 198, 222-8	3.2	103
107	Clinical Utility of the Japan-Chronic Total Occlusion Score in Coronary Chronic Total Occlusion Interventions: Results from a Multicenter Registry. <i>Circulation: Cardiovascular Interventions</i> , <b>2015</b> , 8, e002171	6	68
106	Response to Letter Regarding Article, "18F-Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography Enables the Detection of Recurrent Same-Site Deep Vein Thrombosis by Illuminating Recently Formed, Neutrophil-Rich Thrombus". <i>Circulation</i> , <b>2015</b> , 131, e531-2	16.7	
105	Dual modality intravascular optical coherence tomography (OCT) and near-infrared fluorescence (NIRF) imaging: a fully automated algorithm for the distance-calibration of NIRF signal intensity for quantitative molecular imaging. <i>International Journal of Cardiovascular Imaging</i> , <b>2015</b> , 31, 259-68	2.5	37
104	Imaging inflammation and neovascularization in atherosclerosis: clinical and translational molecular and structural imaging targets. <i>Current Opinion in Cardiology</i> , <b>2015</b> , 30, 671-80	2.1	11
103	Blood Accessibility to Fibrin in Venous Thrombosis is Thrombus Age-Dependent and Predicts Fibrinolytic Efficacy: An In Vivo Fibrin Molecular Imaging Study. <i>Theranostics</i> , <b>2015</b> , 5, 1317-27	12.1	16
102	Statins improve the resolution of established murine venous thrombosis: reductions in thrombus burden and vein wall scarring. <i>PLoS ONE</i> , <b>2015</b> , 10, e0116621	3.7	37
101	In vivo nanoparticle assessment of pathological endothelium predicts the development of inflow stenosis in murine arteriovenous fistula. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2015</b> , 35, 189-96	9.4	9
100	Intravascular Molecular Imaging of Proteolytic Activity <b>2015</b> , 79-106		
99	Molecular imaging of atherosclerosis: clinical state-of-the-art. <i>Heart</i> , <b>2014</b> , 100, 1469-77	5.1	26
98	Stent thrombosis: a clinical perspective. <i>JACC: Cardiovascular Interventions</i> , <b>2014</b> , 7, 1081-92	5	107
97	18F-fluorodeoxyglucose positron emission tomography/computed tomography enables the detection of recurrent same-site deep vein thrombosis by illuminating recently formed, neutrophil-rich thrombus. <i>Circulation</i> , <b>2014</b> , 130, 1044-52	16.7	31
96	Inflammation and neovascularization intertwined in atherosclerosis: imaging of structural and molecular imaging targets. <i>Circulation</i> , <b>2014</b> , 130, 786-94	16.7	39



95	Molecular intravascular imaging approaches for atherosclerosis. <i>Current Cardiovascular Imaging Reports</i> , <b>2014</b> , 7, 9293	0.7	9
94	C Development of Whole Body and Intravascular Near-infrared Optical Molecular Imaging of Markers of Plaque Vulnerability in Atherosclerosis. <i>Heart</i> , <b>2014</b> , 100, A128.1-A128	5.1	1
93	Endothelial PGC-1 $\alpha$ mediates vascular dysfunction in diabetes. <i>Cell Metabolism</i> , <b>2014</b> , 19, 246-58	24.6	110
92	Imaging and nanomedicine in inflammatory atherosclerosis. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 239sr1.5	1.5	131
91	Molecular Imaging of Coronary Atherosclerosis. <i>Contemporary Cardiology</i> , <b>2014</b> , 187-202	0.1	
90	Biological imaging of atherosclerosis: moving beyond anatomy. <i>Journal of Cardiovascular Translational Research</i> , <b>2013</b> , 6, 681-94	3.3	6
89	High-resolution optical mapping of inflammatory macrophages following endovascular arterial injury. <i>Molecular Imaging and Biology</i> , <b>2013</b> , 15, 282-9	3.8	11
88	The advancing clinical impact of molecular imaging in CVD. <i>JACC: Cardiovascular Imaging</i> , <b>2013</b> , 6, 1327-44	4.4	68
87	Imaging atherosclerosis and risk of plaque rupture. <i>Current Atherosclerosis Reports</i> , <b>2013</b> , 15, 359	6	36
86	Case records of the Massachusetts General Hospital. Case 28-2013. A 52-year-old man with cardiac arrest after an acute myocardial infarction. <i>New England Journal of Medicine</i> , <b>2013</b> , 369, 1047-54	59.2	15
85	The effect of matrix metalloproteinase 2 and matrix metalloproteinase 2/9 deletion in experimental post-thrombotic vein wall remodeling. <i>Journal of Vascular Surgery</i> , <b>2013</b> , 58, 1375-1384.e23	3.5	36
84	Molecular Imaging of Atherosclerosis <b>2013</b> , 425-447		2
83	High-resolution molecular imaging via intravital microscopy: illuminating vascular biology in vivo. <i>Integrative Biology (United Kingdom)</i> , <b>2013</b> , 5, 278-90	3.7	21
82	Matrix metalloproteinase-9 deletion is associated with decreased mid-term vein wall fibrosis in experimental stasis DVT. <i>Thrombosis Research</i> , <b>2013</b> , 132, 360-6	8.2	34
81	Intravascular near-infrared fluorescence molecular imaging of atherosclerosis. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2013</b> , 3, 217-31	2.2	14
80	Subject-specific estimation of central aortic blood pressure using an individualized transfer function: a preliminary feasibility study. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2012</b> , 16, 212-20		28
79	Diagnostic accuracy of fractional flow reserve from anatomic CT angiography. <i>JAMA - Journal of the American Medical Association</i> , <b>2012</b> , 308, 1237-45	27.4	743
78	Noninvasive assessment of myocardial inflammation by cardiovascular magnetic resonance in a rat model of experimental autoimmune myocarditis. <i>Circulation</i> , <b>2012</b> , 125, 2603-12	16.7	37

77	The year in molecular imaging. <i>JACC: Cardiovascular Imaging</i> , <b>2012</b> , 5, 317-28	8.4	10
76	Molecular imaging of fibrin deposition in deep vein thrombosis using fibrin-targeted near-infrared fluorescence. <i>JACC: Cardiovascular Imaging</i> , <b>2012</b> , 5, 607-15	8.4	64
75	Multifunctional nanoagent for thrombus-targeted fibrinolytic therapy. <i>Nanomedicine</i> , <b>2012</b> , 7, 1017-28	5.6	50
74	Inflammation modulates murine venous thrombosis resolution in vivo: assessment by multimodal fluorescence molecular imaging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2012</b> , 32, 2616-24	9.4	24
73	Intravascular multispectral optoacoustic tomography of atherosclerosis: prospects and challenges. <i>Imaging in Medicine</i> , <b>2012</b> , 4, 299-310	1	16
72	Detection and treatment of intravascular thrombi with magnetofluorescent nanoparticles. <i>Methods in Enzymology</i> , <b>2012</b> , 508, 191-209	1.7	8
71	Improving quantification of intravascular fluorescence imaging using structural information. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 6395-406	3.8	8
70	Two-dimensional intravascular near-infrared fluorescence molecular imaging of inflammation in atherosclerosis and stent-induced vascular injury. <i>Journal of the American College of Cardiology</i> , <b>2011</b> , 57, 2516-26	15.1	124
69	Rationale and design of the DeFACTO (Determination of Fractional Flow Reserve by Anatomic Computed Tomographic Angiography) study. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2011</b> , 5, 301-9	2.8	95
68	Intravascular optical imaging technology for investigating the coronary artery. <i>JACC: Cardiovascular Imaging</i> , <b>2011</b> , 4, 1022-39	8.4	93
67	Molecular imaging of macrophage protease activity in cardiovascular inflammation in vivo. <i>Thrombosis and Haemostasis</i> , <b>2011</b> , 105, 828-36	7	47
66	Projected cost-effectiveness of smoking cessation interventions in patients hospitalized with myocardial infarction. <i>Archives of Internal Medicine</i> , <b>2011</b> , 171, 39-45		36
65	In vivo near infrared fluorescence (NIRF) intravascular molecular imaging of inflammatory plaque, a multimodal approach to imaging of atherosclerosis. <i>Journal of Visualized Experiments</i> , <b>2011</b> ,	1.6	22
64	F-FDG PET Imaging of Atherosclerosis-A New Approach to Detect Inflamed, High-Risk Coronary Plaques?. <i>Current Cardiovascular Imaging Reports</i> , <b>2011</b> , 4, 1-3	0.7	4
63	Progress on multimodal molecular / anatomical intravascular imaging of coronary vessels combining near infrared fluorescence and ultrasound. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 1117-20	0.9	2
62	Intravascular laser speckle imaging catheter for the mechanical evaluation of the arterial wall. <i>Journal of Biomedical Optics</i> , <b>2011</b> , 16, 026005	3.5	23
61	Indocyanine green enables near-infrared fluorescence imaging of lipid-rich, inflamed atherosclerotic plaques. <i>Science Translational Medicine</i> , <b>2011</b> , 3, 84ra45	17.5	143
60	An algorithm to correct 2D near-infrared fluorescence signals using 3D intravascular ultrasound architectural information <b>2011</b> ,		2

59	Intra-arterial catheter for simultaneous microstructural and molecular imaging in vivo. <i>Nature Medicine</i> , <b>2011</b> , 17, 1680-4	50.5	232
58	Intravital fluorescence microscopic molecular imaging of atherosclerosis. <i>Methods in Molecular Biology</i> , <b>2011</b> , 680, 131-40	1.4	3
57	Structural and Molecular Imaging of Vulnerable Plaques <b>2010</b> , 354-367		
56	Residual thrombogenic substrate after rupture of a lipid-rich plaque: possible mechanism of acute stent thrombosis?. <i>Circulation</i> , <b>2010</b> , 122, 2349-50	16.7	28
55	Intravascular near-infrared fluorescence molecular imaging of atherosclerosis: toward coronary arterial visualization of biologically high-risk plaques. <i>Journal of Biomedical Optics</i> , <b>2010</b> , 15, 011107	3.5	45
54	Pioglitazone suppresses inflammation in vivo in murine carotid atherosclerosis: novel detection by dual-target fluorescence molecular imaging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2010</b> , 30, 1933-9	9.4	45
53	The year in molecular imaging. <i>JACC: Cardiovascular Imaging</i> , <b>2010</b> , 3, 1181-95	8.4	13
52	Case records of the Massachusetts General Hospital. Case 28-2010. A 32-year-old woman, 3 weeks post partum, with substernal chest pain. <i>New England Journal of Medicine</i> , <b>2010</b> , 363, 1164-73	59.2	19
51	Near-infrared fluorescence catheter system for two-dimensional intravascular imaging in vivo. <i>Optics Express</i> , <b>2010</b> , 18, 11372-81	3.3	21
50	Optical molecular imaging in atherosclerosis. <i>Journal of Nuclear Cardiology</i> , <b>2010</b> , 17, 135-44	2.1	3
49	The ATHEROMA Study: Rapid Anti-inflammatory Effects of High-Dose Statin Pharmacotherapy Illuminated by Molecular MRI. <i>Current Cardiovascular Imaging Reports</i> , <b>2010</b> , 3, 1-3	0.7	
48	Emerging Molecular Targets for Intravascular Imaging of High-Risk Plaques. <i>Current Cardiovascular Imaging Reports</i> , <b>2010</b> , 3, 237-247	0.7	6
47	A light-activated theranostic nanoagent for targeted macrophage ablation in inflammatory atherosclerosis. <i>Small</i> , <b>2010</b> , 6, 2041-9	11	106
46	Arterial and aortic valve calcification abolished by elastolytic cathepsin S deficiency in chronic renal disease. <i>Circulation</i> , <b>2009</b> , 119, 1785-94	16.7	245
45	Optical and multimodality molecular imaging: insights into atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2009</b> , 29, 1017-24	9.4	147
44	Multimodal nanoagents for the detection of intravascular thrombi. <i>Bioconjugate Chemistry</i> , <b>2009</b> , 20, 1251-5	6.3	63
43	Clinical outcomes and cost-effectiveness of coronary computed tomography angiography in the evaluation of patients with chest pain. <i>Journal of the American College of Cardiology</i> , <b>2009</b> , 54, 2409-22	15.1	73
42	The year in molecular imaging. <i>JACC: Cardiovascular Imaging</i> , <b>2009</b> , 2, 97-113	8.4	5

41	A new approach to reconstruction of central aortic blood pressure using adaptive transfer function. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008, 2008, 813-6</i>	0.9	1
40	Transglutaminase activity in acute infarcts predicts healing outcome and left ventricular remodelling: implications for FXIII therapy and antithrombin use in myocardial infarction. <i>European Heart Journal, 2008, 29, 445-54</i>	9.5	62
39	Real-time catheter molecular sensing of inflammation in proteolytically active atherosclerosis. <i>Circulation, 2008, 118, 1802-9</i>	16.7	162
38	Advances in molecular imaging of atherosclerotic vascular disease. <i>Current Opinion in Cardiology, 2008, 23, 620-8</i>	2.1	22
37	Noninvasive imaging of apoptosis in cardiovascular disease. <i>Heart Failure Reviews, 2008, 13, 163-73</i>	5	45
36	Advances in fluorescence imaging of the cardiovascular system. <i>Journal of Nuclear Cardiology, 2008, 15, 417-28</i>	2.1	17
35	Assessment by cardiovascular magnetic resonance, electron beam computed tomography, and carotid ultrasonography of the distribution of subclinical atherosclerosis across Framingham risk strata. <i>American Journal of Cardiology, 2007, 99, 310-4</i>	3	46
34	Osteogenesis associates with inflammation in early-stage atherosclerosis evaluated by molecular imaging in vivo. <i>Circulation, 2007, 116, 2841-50</i>	16.7	486
33	Multimodality molecular imaging identifies proteolytic and osteogenic activities in early aortic valve disease. <i>Circulation, 2007, 115, 377-86</i>	16.7	325
32	Optical visualization of cathepsin K activity in atherosclerosis with a novel, protease-activatable fluorescence sensor. <i>Circulation, 2007, 115, 2292-8</i>	16.7	217
31	Molecular imaging of cardiovascular disease. <i>Circulation, 2007, 116, 1052-61</i>	16.7	173
30	Factor XIII deficiency causes cardiac rupture, impairs wound healing, and aggravates cardiac remodeling in mice with myocardial infarction. <i>Circulation, 2006, 113, 1196-202</i>	16.7	118
29	Noninvasive vascular cell adhesion molecule-1 imaging identifies inflammatory activation of cells in atherosclerosis. <i>Circulation, 2006, 114, 1504-11</i>	16.7	508
28	Detection of macrophage activity in atherosclerosis in vivo using multichannel, high-resolution laser scanning fluorescence microscopy. <i>Journal of Biomedical Optics, 2006, 11, 021009</i>	3.5	40
27	Case records of the Massachusetts General Hospital. Case 34-2006. A 72-year-old woman with nausea followed by hypotension and respiratory failure. <i>New England Journal of Medicine, 2006, 355, 2022-31</i>	59.2	1
26	Monocyte accumulation in mouse atherogenesis is progressive and proportional to extent of disease. <i>Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10340-10345</i> <sup>11.5, 278</sup>	11.5	278
25	Molecular and cellular imaging of atherosclerosis: emerging applications. <i>Journal of the American College of Cardiology, 2006, 47, 1328-38</i>	15.1	176
24	Molecular imaging of myocardial infarction. <i>Journal of Molecular and Cellular Cardiology, 2006, 41, 921-33</i> <sup>3.8</sup>	3.8	40

23	Cellular Imaging of Inflammation in Atherosclerosis Using Magnetofluorescent Nanomaterials. <i>Molecular Imaging</i> , <b>2006</b> , 5, 7290.2006.00009	3.7	112
22	A macrophage-targeted theranostic nanoparticle for biomedical applications. <i>Small</i> , <b>2006</b> , 2, 983-7	11	138
21	Cellular imaging of inflammation in atherosclerosis using magnetofluorescent nanomaterials. <i>Molecular Imaging</i> , <b>2006</b> , 5, 85-92	3.7	63
20	A branched fluorescent peptide probe for imaging of activated platelets. <i>Molecular Pharmaceutics</i> , <b>2005</b> , 2, 92-5	5.6	16
19	Development of a near infrared fluorescence catheter: operating characteristics and feasibility for atherosclerotic plaque detection. <i>Journal Physics D: Applied Physics</i> , <b>2005</b> , 38, 2701-2707	3	21
18	Molecular imaging in the clinical arena. <i>JAMA - Journal of the American Medical Association</i> , <b>2005</b> , 293, 855-62	27.4	270
17	Near-infrared fluorescent imaging of cerebral thrombi and blood-brain barrier disruption in a mouse model of cerebral venous sinus thrombosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2005</b> , 25, 226-33	7.3	72
16	Images in cardiovascular medicine. Culprit lesion atherothrombectomy during acute myocardial infarction: extraction of an acute coronary plaque rupture. <i>Circulation</i> , <b>2005</b> , 112, e267	16.7	0
15	Molecular imaging of factor XIIIa activity in thrombosis using a novel, near-infrared fluorescent contrast agent that covalently links to thrombi. <i>Circulation</i> , <b>2004</b> , 110, 170-6	16.7	116
14	Seeing within: molecular imaging of the cardiovascular system. <i>Circulation Research</i> , <b>2004</b> , 94, 433-45	15.7	172
13	Novel factor XIII probes for blood coagulation imaging. <i>ChemBioChem</i> , <b>2003</b> , 4, 897-9	3.8	61
12	Molecular Imaging of Cancer Using Fluorescent Probe Technology <b>2003</b> , 247-267		1
11	A novel near-infrared fluorescence sensor for detection of thrombin activation in blood. <i>ChemBioChem</i> , <b>2002</b> , 3, 207-11	3.8	69
10	In vivo imaging of thrombin activity in experimental thrombi with thrombin-sensitive near-infrared molecular probe. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2002</b> , 22, 1929-35	9.4	118
9	Age and sex distribution of subclinical aortic atherosclerosis: a magnetic resonance imaging examination of the Framingham Heart Study. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2002</b> , 22, 849-54	9.4	168
8	Scan reproducibility of magnetic resonance imaging assessment of aortic atherosclerosis burden. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2001</b> , 3, 331-8	6.9	49
7	Centric ordering is superior to gradient moment nulling for motion artifact reduction in EPI. <i>Journal of Magnetic Resonance Imaging</i> , <b>1997</b> , 7, 1122-31	5.6	5
6	A method to improve the B0 homogeneity of the heart in vivo. <i>Magnetic Resonance in Medicine</i> , <b>1996</b> , 36, 375-83	4.4	33

5	The evaluation of dielectric resonators containing H <sub>2</sub> O or D <sub>2</sub> O as RF coils for high-field MR imaging and spectroscopy. <i>Journal of Magnetic Resonance Series B</i> , <b>1996</b> , 110, 117-23		45
4	Musculoskeletal MR imaging at 4 T and at 1.5 T: comparison of relaxation times and image contrast. <i>Radiology</i> , <b>1995</b> , 196, 551-5	20.5	88
3	Radiofrequency shielding of surface coils at 4.0 T. <i>Journal of Magnetic Resonance Imaging</i> , <b>1995</b> , 5, 773-75.6		20
2	An in vivo automated shimming method taking into account shim current constraints. <i>Magnetic Resonance in Medicine</i> , <b>1995</b> , 34, 898-904	4.4	40
1	Molecular Imaging503-516		