

Alexia Rossi

List of Publications by Year in descending order

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85
papers

2,598
citations

185998

28
h-index

197535

49
g-index

86
all docs

86
docs citations

86
times ranked

3362
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Contrast-Enhanced Sonography with Unenhanced Sonography and Contrast-Enhanced CT in the Diagnosis of Malignancy in Complex Cystic Renal Masses. American Journal of Roentgenology, 2008, 191, 1239-1249.	1.0	203
2	Stress Myocardial Perfusion: Imaging with Multidetector CT. Radiology, 2014, 270, 25-46.	3.6	160
3	Integrating CT Myocardial Perfusion and CT-FFR in the Work-Up of Coronary Artery Disease. JACC: Cardiovascular Imaging, 2017, 10, 760-770.	2.3	130
4	Left and right ventricle assessment with Cardiac CT: validation study vs. Cardiac MR. European Radiology, 2012, 22, 1041-1049.	2.3	127
5	Natural History of Coronary Atherosclerosis by Multislice Computed Tomography. JACC: Cardiovascular Imaging, 2012, 5, S28-S37.	2.3	119
6	Diagnostic performance of hyperaemic myocardial blood flow index obtained by dynamic computed tomography: does it predict functionally significant coronary lesions?. European Heart Journal Cardiovascular Imaging, 2014, 15, 85-94.	0.5	119
7	Aortic annulus dimensions and leaflet calcification from contrast MSCT predict the need for balloon post-dilatation after TAVI with the Medtronic CoreValve prosthesis. EuroIntervention, 2011, 7, 564-572.	1.4	82
8	The diagnostic value of small bowel wall vascularity after sulfur hexafluoride-filled microbubble injection in patients with Crohn's disease. Correlation with the therapeutic effectiveness of specific anti-inflammatory treatment. European Journal of Radiology, 2009, 69, 438-444.	1.2	81
9	Quantitative cardiovascular magnetic resonance in pregnant women: cross-sectional analysis of physiological parameters throughout pregnancy and the impact of the supine position. Journal of Cardiovascular Magnetic Resonance, 2011, 13, 31.	1.6	81
10	Image Quality and Radiation Exposure Using Different Low-Dose Scan Protocols in Dual-Source CT Coronary Angiography: Randomized Study. Radiology, 2011, 261, 779-786.	3.6	67
11	Vessel Specific Coronary Artery Calcium Scoring. Academic Radiology, 2013, 20, 1-9.	1.3	67
12	Correlates on MSCT of paravalvular aortic regurgitation after transcatheter aortic valve implantation using the medtronic corevalve prosthesis. Catheterization and Cardiovascular Interventions, 2011, 78, 446-455.	0.7	66
13	Quantification of myocardial blood flow by adenosine-stress CT perfusion imaging in pigs during various degrees of stenosis correlates well with coronary artery blood flow and fractional flow reserve. European Heart Journal Cardiovascular Imaging, 2013, 14, 331-338.	0.5	63
14	CT-SYNTAX Score. JACC: Cardiovascular Imaging, 2013, 6, 413-415.	2.3	62
15	Relative Myocardial Blood Flow by Dynamic Computed Tomographic Perfusion Imaging Predicts Hemodynamic Significance of Coronary Stenosis Better Than Absolute Blood Flow. Investigative Radiology, 2014, 49, 801-807.	3.5	59
16	Reproducibility of computed tomography angiography data analysis using semiautomated plaque quantification software: implications for the design of longitudinal studies. International Journal of Cardiovascular Imaging, 2013, 29, 1095-1104.	0.7	53
17	Quantitative Computed Tomographic Coronary Angiography. Circulation: Cardiovascular Imaging, 2014, 7, 43-51.	1.3	53
18	CT coronary plaque burden in asymptomatic patients with familial hypercholesterolaemia. Heart, 2011, 97, 1151-1157.	1.2	52

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19	Dynamic Computed Tomography Myocardial Perfusion Imaging. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	1.3	50
20	CT angiography to evaluate coronary artery disease and revascularization requirement before trans-catheter aortic valve replacement. <i>Journal of Cardiovascular Computed Tomography</i> , 2017, 11, 338-346.	0.7	50
21	Automatic quantification of epicardial fat volume on non-enhanced cardiac CT scans using a multi-atlas segmentation approach. <i>Medical Physics</i> , 2013, 40, 091910.	1.6	49
22	Combining magnetic resonance viability variables better predicts improvement of myocardial function prior to percutaneous coronary intervention. <i>International Journal of Cardiology</i> , 2012, 159, 192-197.	0.8	44
23	Hemodynamic adaptation to pregnancy in women with structural heart disease. <i>International Journal of Cardiology</i> , 2013, 168, 825-831.	0.8	44
24	Low dose CT of the heart: a quantum leap into a new era of cardiovascular imaging. <i>Radiologia Medica</i> , 2010, 115, 1179-1207.	4.7	41
25	Late Cardiac Remodeling After Primary Percutaneous Coronary Intervention. <i>Circulation Journal</i> , 2013, 77, 81-88.	0.7	38
26	Diagnostic value of transmural perfusion ratio derived from dynamic CT-based myocardial perfusion imaging for the detection of haemodynamically relevant coronary artery stenosis. <i>European Radiology</i> , 2017, 27, 2309-2316.	2.3	33
27	Fast T2 mapping of the patellar articular cartilage with gradient and spin-echo magnetic resonance imaging at 1.5 T: validation and initial clinical experience in patients with osteoarthritis. <i>Skeletal Radiology</i> , 2008, 37, 511-517.	1.2	30
28	Aortic valve and left ventricular outflow tract calcium volume and distribution in transcatheter aortic valve replacement: Influence on the risk of significant paravalvular regurgitation. <i>Journal of Cardiovascular Computed Tomography</i> , 2018, 12, 290-297.	0.7	29
29	CT urography: The end of IVU?. <i>Radiologia Medica</i> , 2008, 113, 658-669.	4.7	28
30	Heart-brain interactions in cardiac and brain diseases: why sex matters. <i>European Heart Journal</i> , 2022, 43, 3971-3980.	1.0	28
31	Clinical applications of cardiac computed tomography: a consensus paper of the European Association of Cardiovascular Imaging—part I. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 299-314.	0.5	27
32	Coronary CT angiography outperforms calcium imaging in the triage of acute coronary syndrome. <i>International Journal of Cardiology</i> , 2013, 167, 1597-1602.	0.8	26
33	Ascending Aortic Diameters in Congenital Aortic Stenosis: Cardiac Magnetic Resonance versus Transthoracic Echocardiography. <i>Echocardiography</i> , 2013, 30, 497-504.	0.3	25
34	Assessment of atherosclerotic plaques at coronary bifurcations with multidetector computed tomography angiography and intravascular ultrasound-virtual histology. <i>European Heart Journal Cardiovascular Imaging</i> , 2012, 13, 635-642.	0.5	23
35	Diagnostic accuracy of 128-slice dual-source CT coronary angiography: a randomized comparison of different acquisition protocols. <i>European Radiology</i> , 2013, 23, 614-622.	2.3	23
36	Sequential Strategy Including FFRCT Plus Stress-CTP Impacts on Management of Patients with Stable Chest Pain: The Stress-CTP RIPCORDER Study. <i>Journal of Clinical Medicine</i> , 2020, 9, 2147.	1.0	21

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37	Clinical applications of cardiac computed tomography: a consensus paper of the European Association of Cardiovascular Imagingâ€”part II. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, e136-e161.	0.5	21
38	Prothrombin complex concentrate vs. fresh frozen plasma in adult patients undergoing heart surgery â€” a pilot randomised controlled trial (PROPHESY trial). <i>Anaesthesia</i> , 2021, 76, 892-901.	1.8	18
39	Diagnostic performance of computed tomography coronary angiography to detect and exclude left main and/or three-vessel coronary artery disease. <i>European Radiology</i> , 2013, 23, 2934-2943.	2.3	17
40	First-line evaluation of coronary artery disease with coronary calcium scanning or exercise electrocardiography. <i>International Journal of Cardiology</i> , 2013, 163, 190-195.	0.8	17
41	Contractile Reserve in Segments With Nontransmural Infarction in Chronic Dysfunctional Myocardium Using Low-Dose Dobutamine CMR. <i>JACC: Cardiovascular Imaging</i> , 2010, 3, 614-622.	2.3	16
42	Computed tomography coronary angiography accuracy in women and men at low to intermediate risk of coronary artery disease. <i>European Radiology</i> , 2012, 22, 2415-2423.	2.3	16
43	A CTâ€”based medina classification in coronary bifurcations: Does the lumen assessment provide sufficient information?. <i>Catheterization and Cardiovascular Interventions</i> , 2014, 84, 445-452.	0.7	16
44	Comparison of adenosine magnetic resonance perfusion imaging with invasive coronary flow reserve and fractional flow reserve in patients with suspected coronary artery disease. <i>International Journal of Cardiology</i> , 2011, 147, 184-186.	0.8	12
45	Diagnostic accuracy of second-generation dual-source computed tomography coronary angiography with iterative reconstructions: a real-world experience. <i>Radiologia Medica</i> , 2012, 117, 725-738.	4.7	12
46	Comprehensive visualization of multimodal cardiac imaging data for assessment of coronary artery disease: first clinical results of the SMARTVis tool. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2012, 7, 557-571.	1.7	12
47	Ascending aorta dilatation in patients with bicuspid aortic valve stenosis: a prospective CMR study. <i>European Radiology</i> , 2013, 23, 642-649.	2.3	12
48	Computed tomography-coronary angiography in the detection of coronary artery disease. <i>Journal of Cardiovascular Medicine</i> , 2011, 12, 554-561.	0.6	10
49	Dose reduction in spiral CT coronary angiography with dual-source equipment. Part I. A phantom study applying different prospective tube current modulation algorithms. <i>Radiologia Medica</i> , 2009, 114, 1037-1052.	4.7	9
50	Non-Invasive Diagnostic Workup of Patients With Suspected Stable Angina by Combined Computed Tomography Coronary Angiography and Magnetic Resonance Perfusion Imaging. <i>Circulation Journal</i> , 2011, 75, 1678-1684.	0.7	9
51	Coronary CT angiography for patients with suspected coronary artery disease. <i>Heart</i> , 2014, 100, 976-984.	1.2	9
52	Stress myocardial perfusion with qualitative magnetic resonance and quantitative dynamic computed tomography: comparison of diagnostic performance and incremental value over coronary computed tomography angiography. <i>European Heart Journal Cardiovascular Imaging</i> , 2020, , .	0.5	9
53	An animal model for the evaluation of graft thrombosis in the acute phase on carbon-lined PTFE prosthesis. <i>International Journal of Artificial Organs</i> , 1994, 17, 643-650.	0.7	8
54	Diagnostic performance of exercise bicycle testing and single-photon emission computed tomography: comparison with 64-slice computed tomography coronary angiography. <i>International Journal of Cardiovascular Imaging</i> , 2012, 28, 675-684.	0.7	8

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55	Artificial Intelligence Based Multimodality Imaging: A New Frontier in Coronary Artery Disease Management. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 736223.	1.1	8
56	Advances in Multimodality Cardiovascular Imaging in the Diagnosis of Heart Failure With Preserved Ejection Fraction. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 758975.	1.1	8
57	Different Algorithms for Quantitative Analysis of Myocardial Infarction with DE MRI. <i>Academic Radiology</i> , 2011, 18, 1529-1536.	1.3	7
58	Effect of body mass index on the image quality of rotational angiography without rapid pacing for planning of transcatheter aortic valve implantation: a comparison with multislice computed tomography. <i>European Heart Journal Cardiovascular Imaging</i> , 2014, 15, 133-141.	0.5	7
59	Functional assessment of coronary artery disease by cardiac computed tomography. <i>Expert Review of Cardiovascular Therapy</i> , 2017, 15, 657-665.	0.6	7
60	Dose reduction in spiral CT coronary angiography with dual source equipment. Part II. Dose surplus due to slope-up and slope-down of prospective tube current modulation in a phantom model. <i>Radiologia Medica</i> , 2010, 115, 36-50.	4.7	6
61	Is there a difference in the diagnostic accuracy of computed tomography coronary angiography between women and men?. <i>Coronary Artery Disease</i> , 2011, 22, 421-427.	0.3	6
62	Restriction of the referral of patients with stable angina for CT coronary angiography by clinical evaluation and calcium score: impact on clinical decision making. <i>European Radiology</i> , 2013, 23, 2676-2686.	2.3	6
63	Serial Coronary Imaging of Early Atherosclerosis Development in Fast-Food-Fed Diabetic and Nondiabetic Swine. <i>JACC Basic To Translational Science</i> , 2016, 1, 449-460.	1.9	6
64	Role of sex hormones in modulating myocardial perfusion and coronary flow reserve. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 2209-2218.	3.3	6
65	Computed tomography predictors of structural valve degeneration in patients undergoing transcatheter aortic valve implantation with balloon-expandable prostheses. <i>European Radiology</i> , 2022, 32, 6017-6027.	2.3	6
66	Evolution of reperfusion post-infarction ventricular remodeling: New MRI insights. <i>International Journal of Cardiology</i> , 2013, 169, 354-358.	0.8	5
67	Prediction of myocardial blood flow under stress conditions by means of a computational model. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 1894-1905.	3.3	5
68	Immunoreactivity of the SARS-CoV-2 entry proteins ACE-2 and TMPRSS-2 in murine models of hormonal manipulation, ageing, and cardiac injury. <i>Scientific Reports</i> , 2021, 11, 23993.	1.6	5
69	Primary gastric non-Hodgkin's lymphoma: a therapeutic challenge. <i>European Journal of Cancer</i> , 1993, 29, 1924-1926.	1.3	4
70	Rest/stress myocardial perfusion imaging by positron emission tomography with ¹⁸ F-Flurpiridaz: A feasibility study in mice. <i>Journal of Nuclear Cardiology</i> , 2023, 30, 62-73.	1.4	4
71	Classification of noncalcified coronary atherosclerotic plaque components on CT coronary angiography: impact of vascular attenuation and density thresholds. <i>Radiologia Medica</i> , 2012, 117, 230-241.	4.7	3
72	Accuracy of a rapid intrapartum group B Streptococcus test: A new immunochromatographic assay. <i>Journal of Gynecology Obstetrics and Human Reproduction</i> , 2017, 46, 449-453.	0.6	3

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73	Low-dose CT from myocardial perfusion SPECT/CT allows the detection of anemia in preoperative patients. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 3236-3247.	1.4	3
74	Imaging of coronary flow capacity: is there a role for dynamic CT perfusion imaging?. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 1765-1767.	3.3	2
75	Potential Impact of Statins on Neuronal Stress Responses in Patients at Risk for Cardiovascular Disease. <i>Journal of Personalized Medicine</i> , 2021, 11, 261.	1.1	2
76	Cardiovascular MRI in acute myocardial infarction. <i>Interventional Cardiology</i> , 2010, 2, 327-339.	0.0	1
77	P868 Neutrophil-to-lymphocyte ratio at the onset of acute myocarditis reflects the extent of myocardial necrosis. <i>European Heart Journal</i> , 2018, 39, .	1.0	1
78	Understanding Coronary Physiology Through Dynamic CT Perfusion Imaging. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 977-979.	2.3	1
79	Paving the Way for Clinical Implementation of Dynamic CT Perfusion. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 88-90.	2.3	1
80	Diagnosis and staging of cardiac masses: additional value of CMR with 18F-FDG-PET compared to CMR with CECT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 2232-2241.	3.3	1
81	Renal Lesions. , 2008, , 475-483.		0
82	Appearances can be deceiving. <i>European Heart Journal Cardiovascular Imaging</i> , 2015, 16, 1049.	0.5	0
83	Major Bleeding Associated With Very Early Subclinical Valve Thrombosis After Transcatheter Aortic Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2019, 12, 1623-1624.	1.1	0
84	P142 Diagnostic performance of computed tomography- and magnetic resonance-derived myocardial stress perfusion assessments for the diagnosis of haemodynamically significant coronary artery disease. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, .	0.5	0
85	Dynamic CT perfusion imaging: Few small steps toward the implementation into the real clinical world. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 285-286.	0.7	0