

Frank J Rybicki

List of Publications by Year in Descending Order

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

108
papers

3,406
citations

24
h-index

57
g-index

120
ext. papers

4,250
ext. citations

4.6
avg, IF

5.28
L-index

#	Paper	IF	Citations
108	Static CT myocardial perfusion imaging: image quality, artifacts including distribution and diagnostic performance compared to Rb PET.. <i>European Journal of Hybrid Imaging</i> , 2022 , 6, 1	1.7	
107	Analysis of Gender Disparity in US and Canadian Radiology Residency Programs. <i>Current Problems in Diagnostic Radiology</i> , 2022 , 51, 21-24	1.6	1
106	Practical Frontline 3D Printing of Biomedical Equipment: From Design to Distribution North American Experience. <i>Lecture Notes in Bioengineering</i> , 2022 , 1-13	0.8	
105	Evaluation of a deep learning method for the automated detection of supraspinatus tears on MRI.. <i>Skeletal Radiology</i> , 2022 , 1	2.7	0
104	Medical 3D Printing Dimensional Accuracy for Multi-pathological Anatomical Models 3D Printed Using Material Extrusion.. <i>Journal of Digital Imaging</i> , 2022 , 1	5.3	0
103	A systematic evaluation of medical 3D printing accuracy of multi-pathological anatomical models for surgical planning manufactured in elastic and rigid material using desktop inverted vat photopolymerization. <i>Medical Physics</i> , 2021 , 48, 3223-3233	4.4	5
102	Prognostic value of noninvasive combined anatomic/functional assessment by cardiac CT in patients with suspected coronary artery disease - Comparison with invasive coronary angiography and nuclear myocardial perfusion imaging for the five-year-follow up of the CORE320 multicenter study. <i>Journal of Cardiovascular Computed Tomography</i> , 2021 , 15, 485-491	2.8	1
101	Crisis Response 3D Printing: Developing and Producing a 3D-Printed Nasopharyngeal Swab for COVID-19 Diagnostic Testing 2021 , 37-49		1
100	3D Printing of Open-Source Respirators (Including N95 Respirators), Surgical Masks, and Community Mask Designs to Address COVID-19 Shortages 2021 , 91-106		1
99	Sterilization of 3D Printed Parts Used as Medical Devices in the COVID-19 Pandemic 2021 , 107-113		0
98	Literature and Media-Based Review of Personal Protective Equipment 3D Printing Efforts During COVID-19 2021 , 3-16		2
97	The Next Pandemic and Resilience Through Strategic Manufacturing Reserves: Applying the Lessons of COVID-19 in Medical 3D Printing and Other Manufacturing 2021 , 121-127		1
96	3D Printing and Other Manufacturing During COVID-19: Success Stories and Lessons Learned by Makers at the University of Cincinnati 2021 , 17-28		
95	3D Printing of Face Shields and Ear Tension Relief Devices During COVID-19 at the Touro College of Osteopathic Medicine 2021 , 73-80		
94	Improved Appropriateness of Advanced Diagnostic Imaging After Implementation of Clinical Decision Support Mechanism. <i>Journal of Digital Imaging</i> , 2021 , 34, 397-403	5.3	2
93	3D Printing of Non-medical Devices During the COVID-19 Pandemic 2021 , 115-119		1
92	Patient-Friendly Summary of the ACR Appropriateness Criteria: Suspected Thoracic Aortic Aneurysm. <i>Journal of the American College of Radiology</i> , 2021 , 18, e1	3.5	

91	Comparative effectiveness of coronary artery stenosis and atherosclerotic plaque burden assessment for predicting 30-day revascularization and 2-year major adverse cardiac events. <i>International Journal of Cardiovascular Imaging</i> , 2020 , 36, 2365-2375	2.5	0
90	Rescheduling Nonurgent Care in Radiology: Implementation During the Coronavirus Disease 2019 (COVID-19) Pandemic. <i>Journal of the American College of Radiology</i> , 2020 , 17, 882-889	3.5	17
89	Initial evaluation of a convolutional neural network used for noninvasive assessment of coronary artery disease severity from coronary computed tomography angiography data. <i>Medical Physics</i> , 2020 , 47, 3996-4004	4.4	2
88	Radiological Society of North America (RSNA) 3D Printing Special Interest Group (SIG) clinical situations for which 3D printing is considered an appropriate representation or extension of data contained in a medical imaging examination: abdominal, hepatobiliary, and gastrointestinal conditions. <i>3D Printing in Medicine</i> , 2020 , 6, 13	5	15
87	Lack of Gender Disparity Among Administrative Leaders of Canadian Health Authorities. <i>Journal of Womens Health</i> , 2020 , 29, 1469-1474	3	11
86	Update: Medical 3D Printing for the Radiologist. <i>Radiographics</i> , 2020 , 40, E21-E23	5.4	23
85	Gender Disparity Among Leaders of Canadian Academic Radiology Departments. <i>American Journal of Roentgenology</i> , 2020 , 214, 3-9	5.4	19
84	Determining Early Remodeling Patterns in Diabetes and Hypertension Using Cardiac Computed Tomography: The Feasibility of Assessing Early LV Geometric Changes. <i>American Journal of Hypertension</i> , 2020 , 33, 496-504	2.3	
83	Patient-Friendly Summary of the ACR Appropriateness Criteria: Thoracic Aorta Interventional Planning and Follow-Up. <i>Journal of the American College of Radiology</i> , 2020 , 17, e3	3.5	1
82	Reference values for mid-diastolic right ventricular volume in population referred for cardiac computed tomography: An additional diagnostic value to cardiac computed tomography. <i>Journal of Cardiovascular Computed Tomography</i> , 2020 , 14, 226-232	2.8	1
81	Clinical situations for which 3D printing is considered an appropriate representation or extension of data contained in a medical imaging examination: adult cardiac conditions. <i>3D Printing in Medicine</i> , 2020 , 6, 24	5	4
80	Patient-Friendly Summary of the ACR Appropriateness Criteria: Abdominal Aortic Aneurysm Follow-up (Without Repair). <i>Journal of the American College of Radiology</i> , 2020 , 17, e13	3.5	
79	Medical 3D Printing Cost-Savings in Orthopedic and Maxillofacial Surgery: Cost Analysis of Operating Room Time Saved with 3D Printed Anatomic Models and Surgical Guides. <i>Academic Radiology</i> , 2020 , 27, 1103-1113	4.3	65
78	Inter- and Intraoperator Variability in Measurement of On-Site CT-derived Fractional Flow Reserve Based on Structural and Fluid Analysis: A Comprehensive Analysis. <i>Radiology: Cardiothoracic Imaging</i> , 2019 , 1, e180012	8.3	4
77	Diagnosis of obstructive coronary artery disease using computed tomography angiography in patients with stable chest pain depending on clinical probability and in clinically important subgroups: meta-analysis of individual patient data. <i>BMJ, The</i> , 2019 , 365, l1945	5.9	39
76	Patient-Friendly Summary of the ACR Appropriateness Criteria: Post-treatment Follow-up of Prostate Cancer. <i>Journal of the American College of Radiology</i> , 2019 , 16, e13	3.5	
75	Contrast Administration in CT: A Patient-Centric Approach. <i>Journal of the American College of Radiology</i> , 2019 , 16, 295-301	3.5	7
74	Diagnostic performance of on-site computed CT-fractional flow reserve based on fluid structure interactions: comparison with invasive fractional flow reserve and instantaneous wave-free ratio. <i>European Heart Journal Cardiovascular Imaging</i> , 2019 , 20, 343-352	4.1	23

73	Early LV remodelling patterns in overweight and obesity: Feasibility of cardiac CT to detect early geometric left ventricular changes. <i>Obesity Research and Clinical Practice</i> , 2019 , 13, 478-485	5.4	2
72	Initial evaluation of three-dimensionally printed patient-specific coronary phantoms for CT-FFR software validation. <i>Journal of Medical Imaging</i> , 2019 , 6, 021603	2.6	8
71	EXTRaction of EMR numerical data: an efficient and generalizable tool to EXTEND clinical research. <i>BMC Medical Informatics and Decision Making</i> , 2019 , 19, 226	3.6	6
70	Left Ventricular Mid-Diastolic Wall Thickness: Normal Values for Coronary CT Angiography. <i>Radiology: Cardiothoracic Imaging</i> , 2019 , 1, e190034	8.3	2
69	Applying Modern Virtual and Augmented Reality Technologies to Medical Images and Models. <i>Journal of Digital Imaging</i> , 2019 , 32, 38-53	5.3	60
68	The transluminal attenuation gradient in coronary CT angiography for the detection of hemodynamically significant disease: can all arteries be treated equally?. <i>British Journal of Radiology</i> , 2018 , 91, 20180043	3.4	4
67	Medical 3D printing and the physician-artist. <i>Lancet, The</i> , 2018 , 391, 651-652	4.0	15
66	Early animal model evaluation of an implantable contrast agent to enhance magnetic resonance imaging of arterial bypass vein grafts. <i>Acta Radiologica</i> , 2018 , 59, 1074-1081	2	
65	Common First-Pass CT Angiography Findings Associated With Rapid Growth Rate in Abdominal Aorta Aneurysms Between 3 and 5 cm in Largest Diameter. <i>American Journal of Roentgenology</i> , 2018 , 210, 431-437	5.4	8
64	Fractional Flow Reserve Estimated at Coronary CT Angiography in Intermediate Lesions: Comparison of Diagnostic Accuracy of Different Methods to Determine Coronary Flow Distribution. <i>Radiology</i> , 2018 , 287, 76-84	20.5	22
63	ACR Appropriateness Criteria Lower Extremity Arterial Revascularization-Post-Therapy Imaging. <i>Journal of the American College of Radiology</i> , 2018 , 15, S104-S115	3.5	3
62	ACR Appropriateness Criteria Suspected Thoracic Aortic Aneurysm. <i>Journal of the American College of Radiology</i> , 2018 , 15, S208-S214	3.5	3
61	3D Printed Cardiovascular Patient Specific Phantoms Used for Clinical Validation of a CT-derived FFR Diagnostic Software. <i>Proceedings of SPIE</i> , 2018 , 10578,	1.7	11
60	Radiological Society of North America (RSNA) 3D printing Special Interest Group (SIG): guidelines for medical 3D printing and appropriateness for clinical scenarios. <i>3D Printing in Medicine</i> , 2018 , 4, 11	5	116
59	Anomalous origin of the coronary artery arising from the opposite sinus: prevalence and outcomes in patients undergoing coronary CTA. <i>European Heart Journal Cardiovascular Imaging</i> , 2017 , 18, 224-235	4.1	55
58	Combined non-invasive assessment of endothelial shear stress and molecular imaging of inflammation for the prediction of inflamed plaque in hyperlipidaemic rabbit aortas. <i>European Heart Journal Cardiovascular Imaging</i> , 2017 , 18, 19-30	4.1	12
57	Mid-diastolic left ventricular volume and mass: Normal values for coronary computed tomography angiography. <i>Journal of Cardiovascular Computed Tomography</i> , 2017 , 11, 135-140	2.8	12
56	Can CT and MR Shape and Textural Features Differentiate Benign Versus Malignant Pleural Lesions?. <i>Academic Radiology</i> , 2017 , 24, 1277-1287	4.3	18

55	MRI Before Radiography for Patients With New Shoulder Conditions. <i>Journal of the American College of Radiology</i> , 2017 , 14, 778-782	3.5	0
54	ACR Appropriateness Criteria Vascular Claudication-Assessment for Revascularization. <i>Journal of the American College of Radiology</i> , 2017 , 14, S372-S379	3.5	5
53	ACR Appropriateness Criteria Nonvariceal Upper Gastrointestinal Bleeding. <i>Journal of the American College of Radiology</i> , 2017 , 14, S177-S188	3.5	18
52	ACR Appropriateness Criteria Pulsatile Abdominal Mass Suspected Abdominal Aortic Aneurysm. <i>Journal of the American College of Radiology</i> , 2017 , 14, S258-S265	3.5	11
51	ACR Appropriateness Criteria Sudden Onset of Cold, Painful Leg. <i>Journal of the American College of Radiology</i> , 2017 , 14, S307-S313	3.5	8
50	Relative atherosclerotic plaque volume by CT coronary angiography trumps conventional stenosis assessment for identifying flow-limiting lesions. <i>International Journal of Cardiovascular Imaging</i> , 2017 , 33, 1847-1855	2.5	4
49	Medical 3D printing: methods to standardize terminology and report trends. <i>3D Printing in Medicine</i> , 2017 , 3, 4	5	26
48	Initial Simulated FFR Investigation Using Flow Measurements in Patient-specific 3D Printed Coronary Phantoms. <i>Proceedings of SPIE</i> , 2017 , 10138,	1.7	8
47	Preoperative planning and tracheal stent design in thoracic surgery: a primer for the 2017 Radiological Society of North America (RSNA) hands-on course in 3D printing. <i>3D Printing in Medicine</i> , 2017 , 3, 14	5	10
46	Message From Frank J. Rybicki, MD, Incoming Chair of ACR Appropriateness Criteria. <i>Journal of the American College of Radiology</i> , 2017 , 14, 723-724	3.5	3
45	Measuring and Establishing the Accuracy and Reproducibility of 3D Printed Medical Models. <i>Radiographics</i> , 2017 , 37, 1424-1450	5.4	133
44	Association of global and local low endothelial shear stress with high-risk plaque using intracoronary 3D optical coherence tomography: Introduction of "shear stress score" <i>European Heart Journal Cardiovascular Imaging</i> , 2017 , 18, 888-897	4.1	19
43	ACR Appropriateness Criteria Imaging for Transcatheter Aortic Valve Replacement. <i>Journal of the American College of Radiology</i> , 2017 , 14, S449-S455	3.5	12
42	ACR Appropriateness Criteria Imaging of Deep Inferior Epigastric Arteries for Surgical Planning (Breast Reconstruction Surgery). <i>Journal of the American College of Radiology</i> , 2017 , 14, S456-S461	3.5	0
41	Clinical Decision Support in Computerized Provider Order Entry for Imaging Tests in Canada. <i>Canadian Association of Radiologists Journal</i> , 2017 , 68, 357-358	3.9	
40	CT pulmonary angiography-based scoring system to predict the prognosis of acute pulmonary embolism. <i>Journal of Cardiovascular Computed Tomography</i> , 2016 , 10, 473-479	2.8	22
39	Applications of 3D printing in cardiovascular diseases. <i>Nature Reviews Cardiology</i> , 2016 , 13, 701-718	14.8	230
38	CAD-RADS(TM) Coronary Artery Disease - Reporting and Data System. An expert consensus document of the Society of Cardiovascular Computed Tomography (SCCT), the American College of Radiology (ACR) and the North American Society for Cardiovascular Imaging (NASCI). Endorsed by the American College of Cardiology. <i>Journal of Cardiovascular Computed Tomography</i> , 2016 , 10, 269-311	2.8	312

37	Quantifying the effect of side branches in endothelial shear stress estimates. <i>Atherosclerosis</i> , 2016 , 251, 213-218	3.1	17
36	CAD-RADS[Coronary Artery Disease]Reporting and Data System: AnExpert Consensus Document of the Society of Cardiovascular Computed Tomography (SCCT), the American College of Radiology (ACR) and the North American Society for Cardiovascular Imaging (NASCI). Endorsed by the American College of Cardiology. <i>Journal of the American College of Radiology</i> , 2016 , 13, 1458-1466.e9	3.5	52
35	Natural Language Processing Technologies in Radiology Research and Clinical Applications. <i>Radiographics</i> , 2016 , 36, 176-91	5.4	115
34	Contrast inhomogeneity in CT angiography of the abdominal aortic aneurysm. <i>Journal of Cardiovascular Computed Tomography</i> , 2016 , 10, 179-83	2.8	5
33	3D printing based on cardiac CT assists anatomic visualization prior to transcatheter aortic valve replacement. <i>Journal of Cardiovascular Computed Tomography</i> , 2016 , 10, 28-36	2.8	140
32	Normal ventricular diameter ratio on CT provides adequate assessment for critical right ventricular strain among patients with acute pulmonary embolism. <i>International Journal of Cardiovascular Imaging</i> , 2016 , 32, 1153-61	2.5	10
31	ACR Appropriateness Criteria Clinically Suspected Pulmonary Arteriovenous Malformation. <i>Journal of the American College of Radiology</i> , 2016 , 13, 796-800	3.5	2
30	State-of-the-art Magnetic Resonance Imaging in Vascular Thoracic Outlet Syndrome. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2015 , 23, 309-20	1.6	6
29	Accurate and reproducible reconstruction of coronary arteries and endothelial shear stress calculation using 3D OCT: comparative study to 3D IVUS and 3D QCA. <i>Atherosclerosis</i> , 2015 , 240, 510-9	3.1	44
28	Quantification of aortic calcification - how and why should we do it?. <i>Atherosclerosis</i> , 2015 , 240, 469-71	3.1	5
27	Incremental diagnostic accuracy of computed tomography myocardial perfusion imaging over coronary angiography stratified by pre-test probability of coronary artery disease and severity of coronary artery calcification: The CORE320 study. <i>International Journal of Cardiology</i> , 2015 , 201, 570-7	3.2	26
26	Modern imaging techniques: applications in the management of acute aortic pathologies. <i>Postgraduate Medical Journal</i> , 2015 , 91, 449-62	2	22
25	Association Between Confidence Level of Acute Pulmonary Embolism Diagnosis on CTPA images and Clinical Outcomes. <i>Academic Radiology</i> , 2015 , 22, 1555-61	4.3	4
24	3D Printing in Medicine: an introductory message from the Editor-in-Chief. <i>3D Printing in Medicine</i> , 2015 , 1, 1	5	19
23	3D printed ventricular septal defect patch: a primer for the 2015 Radiological Society of North America (RSNA) hands-on course in 3D printing. <i>3D Printing in Medicine</i> , 2015 , 1, 3	5	42
22	ACR Appropriateness Criteria Imaging in the Diagnosis of Thoracic Outlet Syndrome. <i>Journal of the American College of Radiology</i> , 2015 , 12, 438-43	3.5	29
21	Medical 3D Printing for the Radiologist. <i>Radiographics</i> , 2015 , 35, 1965-88	5.4	367
20	Automatic ventricle detection in Computed Tomography Pulmonary Angiography 2015 ,		3

19	Relationship of left ventricular mass to coronary atherosclerosis and myocardial ischaemia: the CORE320 multicenter study. <i>European Heart Journal Cardiovascular Imaging</i> , 2015 , 16, 166-76	4.1	8
18	The health care value transparency movement and its implications for radiology. <i>Journal of the American College of Radiology</i> , 2015 , 12, 51-8	3.5	16
17	MRI of the knee and shoulder performed before radiography. <i>Journal of the American College of Radiology</i> , 2014 , 11, 1053-8	3.5	12
16	Incremental prognostic value of coronary artery calcium score versus CT angiography among symptomatic patients without known coronary artery disease. <i>Atherosclerosis</i> , 2014 , 233, 190-5	3.1	43
15	Performance measures in radiology. <i>Journal of the American College of Radiology</i> , 2014 , 11, 456-63	3.5	17
14	Technical note: Electrocardiogram electrode repositioning for 320-row coronary CT angiography in patients with regular and recurrent premature ventricular contractions. <i>Journal of Cardiovascular Computed Tomography</i> , 2014 , 8, 13-8	2.8	2
13	Evaluation of bend relief disconnection in patients supported by a HeartMate II left ventricular assist device. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 844-8	3.9	10
12	Three patients with full facial transplantation. <i>New England Journal of Medicine</i> , 2012 , 366, 715-22	59.2	199
11	Iodinated contrast injection data from a new technology. <i>Radiologic Technology</i> , 2012 , 84, 120-5	1.1	3
10	Pulmonary Arteriovenous Malformation (PAVM): Multidetector Computed Tomography Findings. <i>Eurasian Journal of Medicine</i> , 2011 , 43, 203-4	1.3	1
9	Multi-contrast high spatial resolution black blood inner volume three-dimensional fast spin echo MR imaging in peripheral vein bypass grafts. <i>International Journal of Cardiovascular Imaging</i> , 2010 , 26, 683-91	2.5	7
8	Prediction of coronary artery plaque progression and potential rupture from 320-detector row prospectively ECG-gated single heart beat CT angiography: Lattice Boltzmann evaluation of endothelial shear stress. <i>International Journal of Cardiovascular Imaging</i> , 2009 , 25, 289-299	2.5	46
7	Cardiac myocardial perfusion imaging using dual source computed tomography. <i>International Journal of Cardiovascular Imaging</i> , 2009 , 25, 209-216	2.5	13
6	ACR appropriateness criteria on recurrent symptoms following lower-extremity angioplasty. <i>Journal of the American College of Radiology</i> , 2008 , 5, 1176-80	3.5	6
5	Initial evaluation of coronary images from 320-detector row computed tomography. <i>International Journal of Cardiovascular Imaging</i> , 2008 , 24, 535-46	2.5	447
4	Comparing MRI pulse sequences for a specific clinical task. <i>Emergency Radiology</i> , 2002 , 9, 178-180	3	1
3	Skin and thyroid dosimetry in cervical spine screening: two methods for evaluation and a comparison between a helical CT and radiographic trauma series. <i>American Journal of Roentgenology</i> , 2002 , 179, 933-7	5.4	71
2	Prenatal diagnosis of pyruvate dehydrogenase deficiency using magnetic resonance imaging. <i>Prenatal Diagnosis</i> , 2001 , 21, 1053-6	3.2	27

- 1 Evaluation of scatter compensation methods by their effects on parameter estimation from SPECT projections. *Medical Physics*, **2001**, 28, 278-87 4.4 19