

Robert Jay Lederman

List of Publications by Year in descending order

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245
papers

8,818
citations

44042

48
h-index

51562

86
g-index

255
all docs

255
docs citations

255
times ranked

6465
citing authors

#	ARTICLE	IF	CITATIONS
1	Regional Angiogenesis With Vascular Endothelial Growth Factor in Peripheral Arterial Disease. <i>Circulation</i> , 2003, 108, 1933-1938.	1.6	527
2	Therapeutic angiogenesis with recombinant fibroblast growth factor-2 for intermittent claudication (the TRAFFIC study): a randomised trial. <i>Lancet</i> , The, 2002, 359, 2053-2058.	6.3	491
3	Serial Cardiac Magnetic Resonance Imaging of Injected Mesenchymal Stem Cells. <i>Circulation</i> , 2003, 108, 1009-1014.	1.6	457
4	<i>NT5E</i> Mutations and Arterial Calcifications. <i>New England Journal of Medicine</i> , 2011, 364, 432-442.	13.9	403
5	Opportunities in Interventional and Diagnostic Imaging by Using High-Performance Low-Field-Strength MRI. <i>Radiology</i> , 2019, 293, 384-393.	3.6	224
6	Primary renal artery stenting: Characteristics and outcomes after 363 procedures. <i>American Heart Journal</i> , 2001, 142, 314-323.	1.2	222
7	Magnetic Resonance Fluoroscopy Allows Targeted Delivery of Mesenchymal Stem Cells to Infarct Borders in Swine. <i>Circulation</i> , 2003, 108, 2899-2904.	1.6	218
8	Transcaval Access and Closure for Transcatheter Aortic Valve Replacement. <i>Journal of the American College of Cardiology</i> , 2017, 69, 511-521.	1.2	184
9	The BASILICA Trial. <i>JACC: Cardiovascular Interventions</i> , 2019, 12, 1240-1252.	1.1	183
10	Transcatheter Laceration of Aortic Leaflets to Prevent Coronary Obstruction During Transcatheter Aortic Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2018, 11, 677-689.	1.1	180
11	Caval-Aortic Access to Allow Transcatheter Aortic Valve Replacement in Otherwise Ineligible Patients. <i>Journal of the American College of Cardiology</i> , 2014, 63, 2795-2804.	1.2	170
12	Intentional Percutaneous Laceration of the Anterior Mitral Leaflet to Prevent Outflow Obstruction During Transcatheter Mitral Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2017, 10, 798-809.	1.1	151
13	Anterior Leaflet Laceration to Prevent Ventricular Outflow Tract Obstruction During Transcatheter Mitral Valve Replacement. <i>Journal of the American College of Cardiology</i> , 2019, 73, 2521-2534.	1.2	149
14	Catheter-Based Endomyocardial Injection With Real-Time Magnetic Resonance Imaging. <i>Circulation</i> , 2002, 105, 1282-1284.	1.6	134
15	Detection of atherosclerosis using a novel positron-sensitive probe and 18-fluorodeoxyglucose (FDG). <i>Nuclear Medicine Communications</i> , 2001, 22, 747-753.	0.5	133
16	Incomplete retention after direct myocardial injection. <i>Catheterization and Cardiovascular Interventions</i> , 2002, 55, 392-397.	0.7	126
17	Acute hemodynamic changes during carotid artery stenting. <i>American Journal of Cardiology</i> , 1998, 82, 1077-1081.	0.7	115
18	Preventing Coronary Obstruction During Transcatheter Aortic Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2019, 12, 1197-1216.	1.1	112

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19	Real-time interactive MRI-guided cardiac surgery: Aortic valve replacement using a direct apical approach. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 958-964.	1.9	111
20	Predicting LVOT Obstruction After TMVR. <i>JACC: Cardiovascular Imaging</i> , 2016, 9, 1349-1352.	2.3	110
21	Real-time MRI-guided right heart catheterization in adults using passive catheters. <i>European Heart Journal</i> , 2013, 34, 380-389.	1.0	88
22	Real-time accelerated interactive MRI with adaptive TSENSE and UNFOLD. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 315-321.	1.9	87
23	Cardiovascular Interventional Magnetic Resonance Imaging. <i>Circulation</i> , 2005, 112, 3009-3017.	1.6	86
24	Regional angiogenesis with vascular endothelial growth factor (VEGF) in peripheral arterial disease: Design of the RAVE trial. <i>American Heart Journal</i> , 2003, 145, 1114-1118.	1.2	84
25	Real-Time Magnetic Resonance Imaging-Guided Stenting of Aortic Coarctation With Commercially Available Catheter Devices in Swine. <i>Circulation</i> , 2005, 112, 699-706.	1.6	82
26	X-Ray Fused With Magnetic Resonance Imaging (XFM) to Target Endomyocardial Injections. <i>Circulation</i> , 2006, 114, 2342-2350.	1.6	72
27	Interventional cardiovascular magnetic resonance: still tantalizing. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008, 10, 62.	1.6	71
28	Transatrial Intrapericardial Tricuspid Annuloplasty. <i>JACC: Cardiovascular Interventions</i> , 2015, 8, 483-491.	1.1	70
29	Catheter-based endomyocardial injection with real-time magnetic resonance imaging. <i>Circulation</i> , 2002, 105, 1282-4.	1.6	65
30	Mitral Cerclage Annuloplasty, A Novel Transcatheter Treatment for Secondary Mitral Valve Regurgitation. <i>Journal of the American College of Cardiology</i> , 2009, 54, 638-651.	1.2	64
31	Coronary artery aneurysms in patients with hyper IgE recurrent infection syndrome. <i>Clinical Immunology</i> , 2007, 122, 255-258.	1.4	63
32	Real-Time Magnetic Resonance Imaging-Guided Endovascular Recanalization of Chronic Total Arterial Occlusion in a Swine Model. <i>Circulation</i> , 2006, 113, 1101-1107.	1.6	62
33	Technology preview: X-ray fused with magnetic resonance during invasive cardiovascular procedures. <i>Catheterization and Cardiovascular Interventions</i> , 2007, 70, 773-782.	0.7	62
34	Intentional Laceration of the Anterior Mitral Valve Leaflet to Prevent Left Ventricular Outflow Tract Obstruction During Transcatheter Mitral Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2016, 9, 1835-1843.	1.1	62
35	Real-Time Magnetic Resonance-Guided Endovascular Repair of Experimental Abdominal Aortic Aneurysm in Swine. <i>Journal of the American College of Cardiology</i> , 2005, 45, 2069-2077.	1.2	61
36	Testing clinical therapeutic angiogenesis using basic fibroblast growth factor (FGF-2). <i>British Journal of Pharmacology</i> , 2003, 140, 637-646.	2.7	60

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37	Real-Time Volume Rendered MRI for Interventional Guidance. Journal of Cardiovascular Magnetic Resonance, 2003, 4, 431-442.	1.6	60
38	Interventional cardiovascular procedures guided by real-time MR imaging: An interactive interface using multiple slices, adaptive projection modes and live 3D renderings. Journal of Magnetic Resonance Imaging, 2007, 26, 1429-1435.	1.9	59
39	Measurement of skeletal muscle perfusion during postischemic reactive hyperemia using contrast-enhanced MRI with a step-input function. Magnetic Resonance in Medicine, 2005, 54, 289-298.	1.9	57
40	Bright-Blood T ₂ -Weighted MRI Has High Diagnostic Accuracy for Myocardial Hemorrhage in Myocardial Infarction. Circulation: Cardiovascular Imaging, 2011, 4, 738-745.	1.3	57
41	Magnetic resonance image-guided trans-septal puncture in a swine heart. Journal of Magnetic Resonance Imaging, 2005, 21, 463-467.	1.9	56
42	Invasive human magnetic resonance imaging: Feasibility during revascularization in a combined XMR suite. Catheterization and Cardiovascular Interventions, 2005, 64, 265-274.	0.7	56
43	Real-time MRI guided atrial septal puncture and balloon septostomy in swine. Catheterization and Cardiovascular Interventions, 2006, 67, 637-643.	0.7	56
44	Real-time distortion correction of spiral and echo planar images using the gradient system impulse response function. Magnetic Resonance in Medicine, 2016, 75, 2278-2285.	1.9	56
45	How to perform transcaval access and closure for transcatheter aortic valve implantation. Catheterization and Cardiovascular Interventions, 2015, 86, 1242-1254.	0.7	55
46	Preventing Coronary Obstruction During Transcatheter Aortic Valve Replacement. JACC: Cardiovascular Interventions, 2021, 14, 941-948.	1.1	55
47	Interventional Cardiovascular Magnetic Resonance Imaging. JACC: Cardiovascular Imaging, 2009, 2, 1321-1331.	2.3	54
48	Brucella arteritis: clinical manifestations, treatment, and prognosis. Lancet Infectious Diseases, The, 2014, 14, 520-526.	4.6	54
49	Kissing stents in the aortic bifurcation. American Heart Journal, 1998, 136, 600-605.	1.2	50
50	Transcatheter Electrosurgery. Journal of the American College of Cardiology, 2020, 75, 1455-1470.	1.2	48
51	Undersampled projection reconstruction for active catheter imaging with adaptable temporal resolution and catheter-only views. Magnetic Resonance in Medicine, 2003, 49, 216-222.	1.9	46
52	Intrinsic Conflicts of Interest in Clinical Research: A Need for Disclosure. Kennedy Institute of Ethics Journal, 2003, 13, 83-91.	0.3	46
53	Anatomic Suitability for Transcaval Access Based on Computed Tomography. JACC: Cardiovascular Interventions, 2017, 10, 1-10.	1.1	45
54	Radiation-free CMR diagnostic heart catheterization in children. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 65.	1.6	45

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55	Antegrade Percutaneous Closure of Membranous Ventricular Septal Defect Using X-Ray Fused With Magnetic Resonance Imaging. <i>JACC: Cardiovascular Interventions</i> , 2009, 2, 224-230.	1.1	44
56	The Fate of Transcaval Access Tracts. <i>JACC: Cardiovascular Interventions</i> , 2019, 12, 448-456.	1.1	42
57	Interventional CMR: Clinical Applications and Future Directions. <i>Current Cardiology Reports</i> , 2015, 17, 31.	1.3	41
58	CMR fluoroscopy right heart catheterization for cardiac output and pulmonary vascular resistance: results in 102 patients. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 54.	1.6	41
59	Mitral Loop Cerclage Annuloplasty for Secondary Mitral Regurgitation. <i>JACC: Cardiovascular Interventions</i> , 2017, 10, 597-610.	1.1	40
60	VEGFR1/CXCR4-positive progenitor cells modulate local inflammation and augment tissue perfusion by a SDF-1-dependent mechanism. <i>Journal of Molecular Medicine</i> , 2008, 86, 1221-1232.	1.7	39
61	MRI active guidewire with an embedded temperature probe and providing a distinct tip signal to enhance clinical safety. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, 30.	1.6	38
62	Predicting Left Ventricular Outflow Tract Obstruction Despite Anterior Mitral Leaflet Resection. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1356-1359.	2.3	38
63	Intracoronary infusion of autologous mononuclear cells from bone marrow or granulocyte colony-stimulating factor-mobilized apheresis product may not improve remodelling, contractile function, perfusion, or infarct size in a swine model of large myocardial infarction. <i>European Heart Journal</i> , 2008, 29, 1772-1782.	1.0	37
64	TAVR Roulette. <i>JACC: Cardiovascular Interventions</i> , 2020, 13, 787-789.	1.1	37
65	Real-time, Interactive MRI for Cardiovascular Interventions ¹ . <i>Academic Radiology</i> , 2005, 12, 1121-1127.	1.3	36
66	Aortic Access From the Vena Cava for Large Caliber Transcatheter Cardiovascular Interventions. <i>Journal of the American College of Cardiology</i> , 2013, 61, 1745-1746.	1.2	36
67	Adaptive noise cancellation to suppress electrocardiography artifacts during real-time interventional MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 1184-1193.	1.9	35
68	Long or redundant leaflet complicating transcatheter mitral valve replacement: Case vignettes that advocate for removal or reduction of the anterior mitral leaflet. <i>Catheterization and Cardiovascular Interventions</i> , 2018, 92, 627-632.	0.7	34
69	BASILICA Trial: One-Year Outcomes of Transcatheter Electrosurgical Leaflet Laceration to Prevent TAVR Coronary Obstruction. <i>Circulation: Cardiovascular Interventions</i> , 2021, 14, e010238.	1.4	34
70	Integration of cardiac and respiratory motion into MRI roadmaps fused with x-ray. <i>Medical Physics</i> , 2013, 40, 032302.	1.6	33
71	MRI Catheterization in Cardiopulmonary Disease. <i>Chest</i> , 2014, 145, 30-36.	0.4	33
72	Transcatheter pledget-assisted suture tricuspid annuloplasty (PASTA) to create a double-orifice valve. <i>Catheterization and Cardiovascular Interventions</i> , 2018, 92, E175-E184.	0.7	33

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73	Balloon-Assisted BASILICA to Facilitate Redo TAVR. JACC: Cardiovascular Interventions, 2021, 14, 578-580.	1.1	33
74	Imaging of myocardial infarction for diagnosis and intervention using real-time interactive MRI without ECG-gating or breath-holding. Magnetic Resonance in Medicine, 2004, 52, 354-361.	1.9	32
75	A deflectable guiding catheter for real-time MRI-guided interventions. Journal of Magnetic Resonance Imaging, 2012, 35, 908-915.	1.9	32
76	MRI roadmap-guided transendocardial delivery of exon-skipping recombinant adeno-associated virus restores dystrophin expression in a canine model of Duchenne muscular dystrophy. Gene Therapy, 2013, 20, 274-282.	2.3	32
77	Electrosurgical Detachment of MitraClips From the Anterior Mitral Leaflet Prior to Transcatheter Mitral Valve Implantation. JACC: Cardiovascular Interventions, 2020, 13, 2361-2370.	1.1	31
78	A practical global distortion correction method for an image intensifier based x-ray fluoroscopy system. Medical Physics, 2008, 35, 997-1007.	1.6	30
79	Real-Time Magnetic Resonance Imaging Guidance Improves the Diagnostic Yield of Endomyocardial Biopsy. JACC Basic To Translational Science, 2016, 1, 376-383.	1.9	29
80	Effect of mechanical assistance of the systemic ventricle in single ventricle circulation with cavopulmonary connection. Journal of Thoracic and Cardiovascular Surgery, 2014, 147, 1271-1275.	0.4	28
81	Segmented nitinol guidewires with stiffness-matched connectors for cardiovascular magnetic resonance catheterization: preserved mechanical performance and freedom from heating. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 105.	1.6	28
82	Right heart catheterization using metallic guidewires and low SAR cardiovascular magnetic resonance fluoroscopy at 1.5 Tesla: first in human experience. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 41.	1.6	28
83	Usefulness of translesional pressure gradient and pharmacological provocation for the assessment of intermediate renal artery disease. Catheterization and Cardiovascular Interventions, 2006, 68, 429-434.	0.7	26
84	Antegrade Intentional Laceration of the Anterior Mitral Leaflet to Prevent Left Ventricular Outflow Tract Obstruction. Circulation: Cardiovascular Interventions, 2020, 13, e008903.	1.4	26
85	Whole shaft visibility and mechanical performance for active MR catheters using copper-nitinol braided polymer tubes. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 29.	1.6	25
86	Closed-Chest Transthoracic Magnetic Resonance Imaging-Guided Ventricular Septal Defect Closure in Swine. JACC: Cardiovascular Interventions, 2011, 4, 1326-1334.	1.1	25
87	Active two-channel 0.035" guidewire for interventional cardiovascular MRI. Journal of Magnetic Resonance Imaging, 2009, 30, 461-465.	1.9	24
88	Robust automatic rigid registration of MRI and X-ray using external fiducial markers for XFM-guided interventional procedures. Medical Physics, 2011, 38, 125-141.	1.6	23
89	Magnetic Resonance Sequences and Rapid Acquisition for MR-Guided Interventions. Magnetic Resonance Imaging Clinics of North America, 2015, 23, 669-679.	0.6	23
90	Magnetic Resonance Imaging-Guided Transcatheter Cavopulmonary Shunt. JACC: Cardiovascular Interventions, 2016, 9, 959-970.	1.1	23

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91	Transcaval Versus Transaxillary TAVR in Contemporary Practice. <i>JACC: Cardiovascular Interventions</i> , 2022, 15, 965-975.	1.1	23
92	Real-time cardiovascular magnetic resonance subxiphoid pericardial access and pericardiocentesis using off-the-shelf devices in swine. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 61.	1.6	22
93	Parallel transmit excitation at 1.5 T based on the minimization of a driving function for device heating. <i>Medical Physics</i> , 2015, 42, 359-371.	1.6	22
94	Transcaval Aortic Access for Percutaneous Thoracic Aortic Aneurysm Repair: Initial Human Experience. <i>Journal of Vascular and Interventional Radiology</i> , 2015, 26, 1437-1441.	0.2	22
95	“Rescue” LAMPOON to Treat Transcatheter Mitral Valve Replacement–Associated Left Ventricular Outflow Tract Obstruction. <i>JACC: Cardiovascular Interventions</i> , 2019, 12, 1283-1284.	1.1	22
96	Oxygen-enhanced functional lung imaging using a contemporary 0.55-T MRI system. <i>NMR in Biomedicine</i> , 2021, 34, e4562.	1.6	22
97	Transcatheter Myotomy to Relieve Left Ventricular Outflow Tract Obstruction: The Septal Scoring Along the Midline Endocardium Procedure in Animals. <i>Circulation: Cardiovascular Interventions</i> , 2022, 15, 101161CIRCINTERVENTIONS121011686.	1.4	22
98	Magnetic Resonance Imaging-guided Vascular Interventions. <i>Topics in Magnetic Resonance Imaging</i> , 2005, 16, 369-381.	0.7	21
99	Direct Percutaneous Left Ventricular Access and Port Closure. <i>JACC: Cardiovascular Interventions</i> , 2011, 4, 1318-1325.	1.1	21
100	LAMPOON to Facilitate Tendyne Transcatheter Mitral Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2018, 11, 2014-2017.	1.1	21
101	Design of the therapeutic angiogenesis with recombinant fibroblast growth factor-2 for intermittent claudication (TRAFFIC) trial. <i>American Journal of Cardiology</i> , 2001, 88, 192-195.	0.7	20
102	Transthoracic delivery of large devices into the left ventricle through the right ventricle and interventricular septum: preclinical feasibility. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 10.	1.6	20
103	Transcatheter Myocardial Needle Chemoablation During Real-Time Magnetic Resonance Imaging. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016, 9, e003926.	2.1	19
104	Cardiovascular involvement in AIDS. <i>Current Problems in Cardiology</i> , 1997, 22, 109-148.	1.1	18
105	Beating Heart Aortic Valve Replacement using Real-Time MRI Guidance. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2007, 2, 51-55.	0.4	18
106	MRI-guided vascular access with an active visualization needle. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 1159-1166.	1.9	18
107	Transcatheter Mitral Valve Replacement After Transcatheter Electrosurgical Laceration of Alfieri STtCh (ELASTIC). <i>JACC: Cardiovascular Interventions</i> , 2018, 11, 808-811.	1.1	18
108	Transcaval access for the emergency delivery of 5.0 liters per minute mechanical circulatory support in cardiogenic shock. <i>Catheterization and Cardiovascular Interventions</i> , 2021, 97, 555-564.	0.7	18

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109	Transcatheter Myotomy to Treat Hypertrophic Cardiomyopathy and Enable Transcatheter Mitral Valve Replacement: First-in-Human Report of Septal Scoring Along the Midline Endocardium. <i>Circulation: Cardiovascular Interventions</i> , 2022, 15, .	1.4	18
110	Blood speed imaging with an intraluminal array. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2000, 47, 672-681.	1.7	17
111	Dual echo positive contrast bSSFP for real-time visualization of passive devices during magnetic resonance guided cardiovascular catheterization. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, 88.	1.6	17
112	Intentional Right Atrial Exit and Carbon Dioxide Insufflation to Facilitate Subxiphoid Needle Entry Into the Empty Pericardial Space. <i>JACC: Clinical Electrophysiology</i> , 2015, 1, 434-441.	1.3	17
113	A cardiovascular magnetic resonance (CMR) safe metal braided catheter design for interventional CMR at 1.5T: freedom from radiofrequency induced heating and preserved mechanical performance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 16.	1.6	17
114	Tip-to-Base LAMPOON for Transcatheter Mitral Valve Replacement With a Protected Mitral Annulus. <i>JACC: Cardiovascular Interventions</i> , 2021, 14, 541-550.	1.1	17
115	Reduced field of view and undersampled PR combined for interventional imaging of a fully dynamic field of view. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 761-767.	1.9	16
116	Real-time imaging system using a 12-MHz forward-looking catheter with single chip CMUT-on-CMOS array. , 2015, , .		16
117	Physiological Recording in the MRI Environment (PRiME): MRI-Compatible Hemodynamic Recording System. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018, 6, 1-12.	2.2	16
118	LAMPOON techniques to prevent or manage left ventricular outflow tract obstruction in transcatheter mitral valve replacement. <i>Annals of Cardiothoracic Surgery</i> , 2021, 10, 172-179.	0.6	16
119	Blunt atrial transseptal puncture using excimer laser in swine. <i>Catheterization and Cardiovascular Interventions</i> , 2007, 70, 585-590.	0.7	15
120	Intentional right atrial exit for microcatheter infusion of pericardial carbon dioxide or iodinated contrast to facilitate subxiphoid access. <i>Catheterization and Cardiovascular Interventions</i> , 2015, 86, E111-8.	0.7	15
121	Guidewire electrosurgery-assisted transseptal puncture. <i>Catheterization and Cardiovascular Interventions</i> , 2018, 91, 1164-1170.	0.7	15
122	Susceptibility artifacts from metallic markers and cardiac catheterization devices on a high-performance 0.55T MRI system. <i>Magnetic Resonance Imaging</i> , 2021, 77, 14-20.	1.0	15
123	Real-Time MR Imaging-guided Laser Atrial Septal Puncture in Swine. <i>Journal of Vascular and Interventional Radiology</i> , 2008, 19, 1347-1353.	0.2	14
124	Interventional MRI using multiple 3D angiography roadmaps with real-time imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 1015-1019.	1.9	14
125	Visualization of active devices and automatic slice repositioning (SnapTo) for MRI-guided interventions. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 1070-1079.	1.9	14
126	Experimental Model of Large Pulmonary Embolism Employing Controlled Release of Subacute Caval Thrombus in Swine. <i>Journal of Vascular and Interventional Radiology</i> , 2011, 22, 1471-1477.	0.2	13

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127	Planning Transcaval Access Using CT for Large Transcatheter Implants. JACC: Cardiovascular Imaging, 2014, 7, 1167-1171.	2.3	13
128	First-in-Human Closed-Chest Transcatheter Superior Cavopulmonary Anastomosis. Journal of the American College of Cardiology, 2017, 70, 745-752.	1.2	13
129	Acousto-Optic Catheter Tracking Sensor for Interventional MRI Procedures. IEEE Transactions on Biomedical Engineering, 2019, 66, 1148-1154.	2.5	13
130	The Art of SAPIEN 3 Transcatheter Mitral Valve Replacement in Valve-in-Ring and Valve-in-Mitral-Annular-Calcification Procedures. JACC: Cardiovascular Interventions, 2021, 14, 2195-2214.	1.1	13
131	MRI-guided myocardial cell therapy. International Journal of Cardiovascular Interventions, 2005, 7, 165-170.	0.5	12
132	Positive contrast spiral imaging for visualization of commercial nitinol guidewires with reduced heating. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 114.	1.6	12
133	Transcaval access for TAVR across a polyester aortic graft. Catheterization and Cardiovascular Interventions, 2015, 85, 1270-1273.	0.7	12
134	Annular-to-Apical Emory Angle to Ensure Coaxial Mitral Implantation of the SAPIEN 3 Valve. JACC: Cardiovascular Interventions, 2020, 13, 2447-2450.	1.1	12
135	Tip-to-Base LAMPOON to Prevent Left Ventricular Outflow Tract Obstruction in Valve-in-Valve Transcatheter Mitral Valve Replacement. JACC: Cardiovascular Interventions, 2020, 13, 1126-1128.	1.1	12
136	MRI Catheterization: Ready for Broad Adoption. Pediatric Cardiology, 2020, 41, 503-513.	0.6	12
137	Dynamic nature of the LVOT following transcatheter mitral valve replacement with LAMPOON: new insights from post-procedure imaging. European Heart Journal Cardiovascular Imaging, 2022, 23, 650-662.	0.5	12
138	High-resolution 3D arteriography of chronic total peripheral occlusions using a T1-W turbo spin-echo sequence with inner-volume imaging. Magnetic Resonance in Medicine, 2007, 57, 40-49.	1.9	11
139	Interventional Cardiovascular Magnetic Resonance Imaging. Trends in Cardiovascular Medicine, 2007, 17, 196-202.	2.3	11
140	First-in-human transcatheter pledget-assisted suture tricuspid annuloplasty for severe tricuspid insufficiency. Catheterization and Cardiovascular Interventions, 2021, 97, E130-E134.	0.7	11
141	Real-time device tracking under MRI using an acousto-optic active marker. Magnetic Resonance in Medicine, 2021, 85, 2904-2914.	1.9	11
142	Assessment of Lung Structure and Regional Function Using 0.55 T MRI in Patients With Lymphangiomyomatosis. Investigative Radiology, 2022, 57, 178-186.	3.5	11
143	Distortion correction, calibration, and registration: toward an integrated MR and x-ray interventional suite. , 2005, , .		10
144	Simultaneous imaging of myocardial motion and chamber blood flow with SPAMM n' EGGS (spatial) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Resonance Imaging, 2008, 27, 809-817.	1.9	10

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145	Pachyderm-Shape Guiding Catheters to Simplify BASILICA Leaflet Traversal. Cardiovascular Revascularization Medicine, 2019, 20, 782-785.	0.3	10
146	Limitations of closing percutaneous transthoracic ventricular access ports using a commercial collagen vascular closure device. Catheterization and Cardiovascular Interventions, 2011, 77, 1079-1085.	0.7	9
147	Virtual dye angiography: Flow visualization for MRI-guided interventions. Magnetic Resonance in Medicine, 2012, 67, 1013-1021.	1.9	9
148	Pressure-wire based assessment of microvascular resistance using calibrated upstream balloon obstruction. Catheterization and Cardiovascular Interventions, 2012, 80, 581-589.	0.7	9
149	BI-SILICA During Transcatheter Aortic Valve Replacement for Noncalcific Aortic Insufficiency. JACC: Cardiovascular Interventions, 2018, 11, 2237-2239.	1.1	9
150	Blood volume measurement using cardiovascular magnetic resonance and ferumoxytol: preclinical validation. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 62.	1.6	9
151	X-ray fused with MRI guidance of pre-selected transcatheter congenital heart disease interventions. Catheterization and Cardiovascular Interventions, 2019, 94, 399-408.	0.7	9
152	Dedicated Closure Device for Transcaval Access Closure. JACC: Cardiovascular Interventions, 2019, 12, 2198-2206.	1.1	9
153	RT-GROG: parallelized self-calibrating GROG for real-time MRI. Magnetic Resonance in Medicine, 2010, 64, 306-312.	1.9	8
154	Percutaneous transaxillary access for TAVR: Another opportunity to stay out of the chest. Catheterization and Cardiovascular Interventions, 2018, 91, 157-158.	0.7	8
155	Single-Barrel, Double-Barrel, and Fenestrated Endografts to Facilitate Transcatheter Pulmonary Valve Replacement in Large RVOT. JACC: Cardiovascular Interventions, 2020, 13, 2755-2765.	1.1	8
156	A 20-gauge active needle design with thin-film printed circuitry for interventional MRI at 0.55T. Magnetic Resonance in Medicine, 2021, 86, 1786-1801.	1.9	8
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