

# Robert Jay Lederman

## List of Publications by Year in descending order

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245  
papers

8,818  
citations

44069

48  
h-index

51608

86  
g-index

255  
all docs

255  
docs citations

255  
times ranked

6465  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic nature of the LVOT following transcatheter mitral valve replacement with LAMPOON: new insights from post-procedure imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 650-662.	1.2	12
2	Assessment of Lung Structure and Regional Function Using 0.55 T MRI in Patients With Lymphangioleiomyomatosis. <i>Investigative Radiology</i> , 2022, 57, 178-186.	6.2	11
3	Troubleshooting transcaval access: Honoring our commitments. <i>Catheterization and Cardiovascular Interventions</i> , 2022, 99, 1700-1701.	1.7	0
4	BASILICA Works, But Are We Any Better at Predicting Who Needs It?. <i>JACC: Cardiovascular Interventions</i> , 2022, 15, 508-510.	2.9	0
5	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.	3.9	22
6	First application of the LAMPOON procedure to a surgical mitral bioprosthesis. <i>Cardiovascular Revascularization Medicine</i> , 2022, , .	0.8	0
7	Transcaval Versus Transaxillary TAVR in Contemporary Practice. <i>JACC: Cardiovascular Interventions</i> , 2022, 15, 965-975.	2.9	23
8	Transcatheter Electrosurgical Laceration and Stabilization of Failed MitraClip[s]/SAPIEN M3 for Treatment of Failed MitraClip. <i>Circulation: Cardiovascular Interventions</i> , 2022, 15, e012014.	3.9	1
9	Transcatheter Mitral Cerclage Ventriculoplasty. <i>JACC: Cardiovascular Interventions</i> , 2022, 15, 1249-1263.	2.9	5
10	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, .	3.9	18
11	Imaging gravity-induced lung water redistribution with automated inline processing at 0.55 T cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022, 24, .	3.3	4
12	<scp>Firstâ€inâ€human</scp> transcatheter <scp>pledgetâ€assisted</scp> suture tricuspid annuloplasty for severe tricuspid insufficiency. <i>Catheterization and Cardiovascular Interventions</i> , 2021, 97, E130-E134.	1.7	11
13	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.	1.7	18
14	Susceptibility artifacts from metallic markers and cardiac catheterization devices on a high-performance 0.55ÂT MRI system. <i>Magnetic Resonance Imaging</i> , 2021, 77, 14-20.	1.8	15
15	Realâ€time device tracking under MRI using an acoustoâ€optic active marker. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2904-2914.	3.0	11
16	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.	1.7	16
17	Tip-to-Base LAMPOON for Transcatheter Mitral Valve Replacement With a Protected Mitral Annulus. <i>JACC: Cardiovascular Interventions</i> , 2021, 14, 541-550.	2.9	17
18	Balloon-Assisted BASILICA to Facilitate Redo TAVR. <i>JACC: Cardiovascular Interventions</i> , 2021, 14, 578-580.	2.9	33

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19	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.	3.0	8
20	Native contrast visualization and tissue characterization of myocardial radiofrequency ablation and acetic acid chemoablation lesions at 0.55T. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 50.	3.3	6
21	Preventing Coronary Obstruction During Transcatheter Aortic Valve Replacement. JACC: Cardiovascular Interventions, 2021, 14, 941-948.	2.9	55
22	BASILICA Trial: One-Year Outcomes of Transcatheter Electrosurgical Leaflet Laceration to Prevent TAVR Coronary Obstruction. Circulation: Cardiovascular Interventions, 2021, 14, e010238.	3.9	34
23	Oxygen-enhanced functional lung imaging using a contemporary 0.55T MRI system. NMR in Biomedicine, 2021, 34, e4562.	2.8	22
24	Safeguards and pitfalls for Bioprosthetic or Native Aortic Scallop Intentional Laceration to Prevent Iatrogenic Coronary Artery Obstruction during transcatheter aortic valve replacement—the BASILICA technique. Annals of Cardiothoracic Surgery, 2021, 10, 700-707.	1.7	4
25	Balloon-Augmented Leaflet Modification With Bioprosthetic or Native Aortic Scallop Intentional Laceration to Prevent Iatrogenic Coronary Artery Obstruction and Laceration of the Anterior Mitral Leaflet to Prevent Outflow Obstruction: Benchtop Validation and First In-Man Experience. Circulation: Cardiovascular Interventions, 2021, 14, e011028.	3.9	5
26	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.	2.9	13
27	Septal Reduction Using Transvenous Intramyocardial Cerclage Radiofrequency Ablation. JACC Basic To Translational Science, 2020, 5, 988-998.	4.1	6
28	Electrosurgical Detachment of MitraClips From the Anterior Mitral Leaflet Prior to Transcatheter Mitral Valve Implantation. JACC: Cardiovascular Interventions, 2020, 13, 2361-2370.	2.9	31
29	TAVR-in-TAVR?. Journal of the American College of Cardiology, 2020, 76, 1003.	2.8	3
30	Annular-to-Apical “Emory Angle” to Ensure Coaxial Mitral Implantation of the SAPIEN 3 Valve. JACC: Cardiovascular Interventions, 2020, 13, 2447-2450.	2.9	12
31	Single-Barrel, Double-Barrel, and Fenestrated Endografts to Facilitate Transcatheter Pulmonary Valve Replacement in Large RVOT. JACC: Cardiovascular Interventions, 2020, 13, 2755-2765.	2.9	8
32	Alternative Access in Congenital Heart Disease. JACC: Case Reports, 2020, 2, 1734-1735.	0.6	4
33	TAVR Roulette. JACC: Cardiovascular Interventions, 2020, 13, 787-789.	2.9	37
34	Framework for Planning TMVR using 3-D Imaging, In Silico Modeling, and Virtual Reality. Structural Heart, 2020, 4, 336-341.	0.6	3
35	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.	2.9	12
36	Antegrade Intentional Laceration of the Anterior Mitral Leaflet to Prevent Left Ventricular Outflow Tract Obstruction. Circulation: Cardiovascular Interventions, 2020, 13, e008903.	3.9	26

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37	Untreatable Severe Structural Degeneration of a Transcatheter Aortic Heart Valve. JACC: Case Reports, 2020, 2, 347-351.	0.6	0
38	MRI Catheterization: Ready for Broad Adoption. Pediatric Cardiology, 2020, 41, 503-513.	1.3	12
39	Transcatheter Electrosurgery. Journal of the American College of Cardiology, 2020, 75, 1455-1470.	2.8	48
40	BATMANâ€”Savior or vigilante?. Catheterization and Cardiovascular Interventions, 2020, 95, 849-850.	1.7	3
41	Pachyderm-Shape Guiding Catheters to Simplify BASILICA Leaflet Traversal. Cardiovascular Revascularization Medicine, 2019, 20, 782-785.	0.8	10
42	Preventing Coronary Obstruction During Transcatheter Aortic Valve Replacement. JACC: Cardiovascular Interventions, 2019, 12, 1197-1216.	2.9	112
43	The BASILICA Trial. JACC: Cardiovascular Interventions, 2019, 12, 1240-1252.	2.9	183
44	Opportunities in Interventional and Diagnostic Imaging by Using High-Performance Low-Field-Strength MRI. Radiology, 2019, 293, 384-393.	7.3	224
45	Cerclage parahisian septal pacing through the septal perforator branch of the great cardiac vein: Bedside-to-bench development of a novel technique and lead. Heart Rhythm, 2019, 16, 1834-1840.	0.7	4
46	Warning. JACC: Cardiovascular Interventions, 2019, 12, 1869-1870.	2.9	3
47	Interventional Cardiovascular MRI. Contemporary Cardiology, 2019, , 419-437.	0.1	0
48	Postinfarction Ventricular Septal Defect Closure. Circulation: Cardiovascular Interventions, 2019, 12, e007788.	3.9	4
49	Anterior Leaflet Laceration to Prevent Ventricular Outflow Tract Obstruction During Transcatheter Mitral Valve Replacement. Journal of the American College of Cardiology, 2019, 73, 2521-2534.	2.8	149
50	X-ray fused with MRI guidance of preselected transcatheter congenital heart disease interventions. Catheterization and Cardiovascular Interventions, 2019, 94, 399-408.	1.7	9
51	The Fate of Transcaval Access Tracts. JACC: Cardiovascular Interventions, 2019, 12, 448-456.	2.9	42
52	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. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 16.	3.3	17
53	600.66 Transcatheter Pledget-Assisted Suture Tricuspid Annuloplasty (PASTA): First-in-Human Report. JACC: Cardiovascular Interventions, 2019, 12, S59-S60.	2.9	2
54	â€œRescueâ€”LAMPOON to Treat Transcatheter Mitral Valve Replacementâ€”Associated Left Ventricular Outflow Tract Obstruction. JACC: Cardiovascular Interventions, 2019, 12, 1283-1284.	2.9	22

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55	Dedicated Closure Device for Transcaval Access Closure. JACC: Cardiovascular Interventions, 2019, 12, 2198-2206.	2.9	9
56	Acousto-Optic Catheter Tracking Sensor for Interventional MRI Procedures. IEEE Transactions on Biomedical Engineering, 2019, 66, 1148-1154.	4.2	13
57	Sickle related events following cardiac catheterisation: risk implication for other invasive procedures. British Journal of Haematology, 2019, 185, 778-780.	2.5	0
58	Physiological Recording in the MRI Environment (PRIME): MRI-Compatible Hemodynamic Recording System. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-12.	3.7	16
59	Transcatheter Laceration of Aortic Leaflets to Prevent Coronary Obstruction During Transcatheter Aortic Valve Replacement. JACC: Cardiovascular Interventions, 2018, 11, 677-689.	2.9	180
60	Transcatheter pledget-assisted suture tricuspid annuloplasty (PASTA) to create a double-orifice valve. Catheterization and Cardiovascular Interventions, 2018, 92, E175-E184.	1.7	33
61	Laceration of the anterior mitral valve leaflet to prevent left ventricular outflow tract obstruction (lampon). , 2018, , .		0
62	Percutaneous transaxillary access for TAVR: Another opportunity to stay out of the chest. Catheterization and Cardiovascular Interventions, 2018, 91, 157-158.	1.7	8
63	Transcatheter Mitral Valve Replacement After Transcatheter Electrosurgical Laceration of Alfieri STItCh (ELASTIC). JACC: Cardiovascular Interventions, 2018, 11, 808-811.	2.9	18
64	Long or redundant leaflet complicating transcatheter mitral valve replacement: Case vignettes that advocate for removal or reduction of the anterior mitral leaflet. Catheterization and Cardiovascular Interventions, 2018, 92, 627-632.	1.7	34
65	Guidewire electrosurgery-assisted transseptal puncture. Catheterization and Cardiovascular Interventions, 2018, 91, 1164-1170.	1.7	15
66	LAMPOON transseptal mitral valve in ring. Annals of Cardiothoracic Surgery, 2018, 7, 834-836.	1.7	1
67	BI-SILICA During Transcatheter Aortic Valve Replacement for Noncalcific Aortic Insufficiency. JACC: Cardiovascular Interventions, 2018, 11, 2237-2239.	2.9	9
68	Adventures across the second dimension: Predicting left ventricular outflow tract obstruction following transcatheter mitral valve replacement. Catheterization and Cardiovascular Interventions, 2018, 92, 388-389.	1.7	1
69	Blood volume measurement using cardiovascular magnetic resonance and ferumoxytol: preclinical validation. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 62.	3.3	9
70	LAMPOON to Facilitate Tendyne Transcatheter Mitral Valve Replacement. JACC: Cardiovascular Interventions, 2018, 11, 2014-2017.	2.9	21
71	Sheathless Transcaval Transcatheter Aortic Valve Implantation Through an Abdominal Aortic Graft. Canadian Journal of Cardiology, 2018, 34, 1688.e17-1688.e19.	1.7	5
72	Predicting Left Ventricular Outflow Tract Obstruction Despite Anterior Mitral Leaflet Resection. JACC: Cardiovascular Imaging, 2018, 11, 1356-1359.	5.3	38

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73	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.	3.3	28
74	Transcatheter electrosurgery in bipolar or monopolar modes. Catheterization and Cardiovascular Interventions, 2018, 91, 1052-1053.	1.7	3
75	Bedside Modification of Delivery System for Transcatheter Transseptal Mitral Replacement With POULEZ System and SAPIEN-3 Valve. JACC: Cardiovascular Interventions, 2018, 11, 1207-1209.	2.9	5
76	International LAMPOON: first European experience with laceration of the anterior mitral valve leaflet prior to transseptal transcatheter mitral valve implantation. EuroIntervention, 2018, 14, 746-749.	3.2	4
77	Intentional Percutaneous Laceration of the Anterior Mitral Leaflet to Prevent Outflow Obstruction During Transcatheter Mitral Valve Replacement. JACC: Cardiovascular Interventions, 2017, 10, 798-809.	2.9	151
78	CRT-800.45 Guidewire Electrosurgery Optimization For LAMPOON. JACC: Cardiovascular Interventions, 2017, 10, S76.	2.9	0
79	Mitral Loop Cerclage Annuloplasty for Secondary Mitral Regurgitation. JACC: Cardiovascular Interventions, 2017, 10, 597-610.	2.9	40
80	Anatomic Suitability for Transcaval Access Based on Computed Tomography. JACC: Cardiovascular Interventions, 2017, 10, 1-10.	2.9	45
81	First-in-Human Closed-Chest Transcatheter Superior Cavopulmonary Anastomosis. Journal of the American College of Cardiology, 2017, 70, 745-752.	2.8	13
82	Unnatural milieu: Thrombus after transcatheter mitral valve replacement. Catheterization and Cardiovascular Interventions, 2017, 90, 329-330.	1.7	1
83	Transcaval Access and Closure for Transcatheter Aortic Valve Replacement. Journal of the American College of Cardiology, 2017, 69, 511-521.	2.8	184
84	A NOVEL ACTIVE DEVICE FABRICATION METHOD FOR INTERVENTIONAL MRI PROCEDURES. IFMBE Proceedings, 2017, , 122-128.	0.3	2
85	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.	3.0	56
86	Exercise Magnetic Resonance Imaging Is a Gas. Circulation: Cardiovascular Imaging, 2016, 9, .	2.6	0
87	Predicting LVOT Obstruction After TMVR. JACC: Cardiovascular Imaging, 2016, 9, 1349-1352.	5.3	110
88	Transcatheter Myocardial Needle Chemoablation During Real-Time Magnetic Resonance Imaging. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e003926.	4.8	19
89	Magnetic Resonance Imaging-Guided Transcatheter Cavopulmonary Shunt. JACC: Cardiovascular Interventions, 2016, 9, 959-970.	2.9	23
90	Intentional Laceration of the Anterior Mitral Valve Leaflet to Prevent Left Ventricular Outflow Tract Obstruction During Transcatheter Mitral Valve Replacement. JACC: Cardiovascular Interventions, 2016, 9, 1835-1843.	2.9	62

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91	Real-Time Magnetic Resonance Imaging Guidance Improves the Diagnostic Yield of Endomyocardial Biopsy. JACC Basic To Translational Science, 2016, 1, 376-383.	4.1	29
92	CRT-400.10 Real-time MRI Guidance Improves the Diagnostic Yield of Endomyocardial Biopsy Compared With X-ray Fluoroscopy. JACC: Cardiovascular Interventions, 2016, 9, S44.	2.9	0
93	Real-time inversion recovery for infarct visualization during MR-guided interventions. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P205.	3.3	1
94	Spiral imaging with off-resonance reconstruction for MRI-guided cardiovascular catheterizations using commercial off-the-shelf nitinol guidewires. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P216.	3.3	0
95	CMR fluoroscopy right heart catheterization for cardiac output and pulmonary vascular resistance: results in 102 patients. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 54.	3.3	41
96	Radiation-free CMR diagnostic heart catheterization in children. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 65.	3.3	45
97	Interventional-Cardiovascular MR: Role of the Interventional MR Technologist. Radiologic Technology, 2016, 87, 261-70.	0.1	8
98	X-ray Fused With Magnetic Resonance Imaging to Guide Endomyocardial Biopsy of a Right Ventricular Mass. Radiologic Technology, 2016, 87, 622-6.	0.1	3
99	Parallel transmit excitation at 1.5 T based on the minimization of a driving function for device heating. Medical Physics, 2015, 42, 359-371.	3.0	22
100	Intentional right atrial exit for microcatheter infusion of pericardial carbon dioxide or iodinated contrast to facilitate subxiphoid access. Catheterization and Cardiovascular Interventions, 2015, 86, E111-8.	1.7	15
101	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.	3.3	28
102	Positive contrast spiral imaging for visualization of commercial nitinol guidewires with reduced heating. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 114.	3.3	12
103	Transcaval access for TAVR across a polyester aortic graft. Catheterization and Cardiovascular Interventions, 2015, 85, 1270-1273.	1.7	12
104	How to perform transcaval access and closure for transcatheter aortic valve implantation. Catheterization and Cardiovascular Interventions, 2015, 86, 1242-1254.	1.7	55
105	Real-time imaging system using a 12-MHz forward-looking catheter with single chip CMUT-on-CMOS array. , 2015, , .		16
106	Fully Percutaneous Transthoracic Left Atrial Entry and Closure as a Potential Access Route for Transcatheter Mitral Valve Interventions. Circulation: Cardiovascular Interventions, 2015, 8, e002538.	3.9	6
107	Reply. Journal of the American College of Cardiology, 2015, 65, 310-311.	2.8	0
108	Interventional CMR: Clinical Applications and Future Directions. Current Cardiology Reports, 2015, 17, 31.	2.9	41



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109	Percutaneous MR guided direct left atrial access to deliver large interventional devices. Journal of Cardiovascular Magnetic Resonance, 2015, 17, O19.	3.3	0
110	MR guided right heart catheterization - the NIH experience. Journal of Cardiovascular Magnetic Resonance, 2015, 17, O20.	3.3	0
111	Transcatheter bidirectional Glenn shunt guided by real-time MRI. Journal of Cardiovascular Magnetic Resonance, 2015, 17, O23.	3.3	2
112	Realtime MR guided endomyocardial biopsy with an active visualization biptome. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P235.	3.3	1
113	Two channel passive visualization of a nitinol guidewire with iron markers. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P236.	3.3	1
114	Stiffness-matched segmented metallic guidewire for interventional cardiovascular MRI. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P414.	3.3	1
115	Positive contrast spiral imaging of a nitinol guidewire. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q15.	3.3	2
116	Transcaval Aortic Access for Percutaneous Thoracic Aortic Aneurysm Repair: Initial Human Experience. Journal of Vascular and Interventional Radiology, 2015, 26, 1437-1441.	0.5	22
117	Magnetic Resonance Sequences and Rapid Acquisition for MR-Guided Interventions. Magnetic Resonance Imaging Clinics of North America, 2015, 23, 669-679.	1.1	23
118	Image Fusion Guided Device Closure of Left Ventricle to Right Atrium Shunt. Circulation, 2015, 132, 1366-1367.	1.6	6
119	Intentional Right Atrial Exit and Carbon Dioxide Insufflation to Facilitate Subxiphoid Needle Entry Into the Empty Pericardial Space. JACC: Clinical Electrophysiology, 2015, 1, 434-441.	3.2	17
120	Lost in Translation. JACC: Cardiovascular Interventions, 2015, 8, 1138-1139.	2.9	0
121	Transatrial Intrapericardial Tricuspid Annuloplasty. JACC: Cardiovascular Interventions, 2015, 8, 483-491.	2.9	70
122	Dual echo positive contrast bSSFP for real-time visualization of passive devices during magnetic resonance guided cardiovascular catheterization. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 88.	3.3	17
123	Right heart catheterization from the arm: Back to first principles. Catheterization and Cardiovascular Interventions, 2014, 84, 75-76.	1.7	2
124	Letter by Lederman et al Regarding Article, "MRI-Induced Stent Dislodgment Soon After Left Main Coronary Artery Stenting". Circulation: Cardiovascular Interventions, 2014, 7, 128-128.	3.9	1
125	Dual echo bSSFP for real-time positive contrast of passive nitinol guidewires in MRI-guided cardiovascular interventions. Journal of Cardiovascular Magnetic Resonance, 2014, 16, O79.	3.3	0
126	Concordance and diagnostic accuracy of vasodilator stress cardiac MRI and 320-detector row coronary CTA. International Journal of Cardiovascular Imaging, 2014, 30, 109-119.	1.5	7



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127	Technologist primer for MRI right heart catheterization: the NIH and CNMC experience. Journal of Cardiovascular Magnetic Resonance, 2014, 16, T1.	3.3	0
128	An efficient, free-breathing protocol for MR right heart catheterization. Journal of Cardiovascular Magnetic Resonance, 2014, 16, T5.	3.3	2
129	Provocative MRI catheterization. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P143.	3.3	0
130	Interactive black blood preparation for interventional cardiovascular MRI. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P32.	3.3	7
131	Brucella arteritis: clinical manifestations, treatment, and prognosis. Lancet Infectious Diseases, The, 2014, 14, 520-526.	9.1	54
132	Planning Transcaval Access Using CT for Large Transcatheter Implants. JACC: Cardiovascular Imaging, 2014, 7, 1167-1171.	5.3	13
133	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.	0.8	28
134	Caval-Aortic Access to Allow Transcatheter Aortic Valve Replacement in Otherwise Ineligible Patients. Journal of the American College of Cardiology, 2014, 63, 2795-2804.	2.8	170
135	MRI Catheterization in Cardiopulmonary Disease. Chest, 2014, 145, 30-36.	0.8	33
136	Real-Time Magnetic Resonance Imaging (MRI)-Guided Intervention. , 2014, , 1173-1181.		0
137	Real-time cardiovascular magnetic resonance subxiphoid pericardial access and pericardiocentesis using off-the-shelf devices in swine. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 61.	3.3	22
138	Aortic Access From the Vena Cava for Large Caliber Transcatheter Cardiovascular Interventions. Journal of the American College of Cardiology, 2013, 61, 1745-1746.	2.8	36
139	TCT-127 Trans-Auricular Intra-Pericardial Tricuspid Annuloplasty (TRAIPTA). Journal of the American College of Cardiology, 2013, 62, B41.	2.8	0
140	Real-time MRI-guided right heart catheterization in adults using passive catheters. European Heart Journal, 2013, 34, 380-389.	2.2	88
141	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.	4.5	32
142	Transthoracic delivery of large devices into the left ventricle through the right ventricle and interventricular septum: preclinical feasibility. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 10.	3.3	20
143	Roadmaps show the way: Coregistration to enhance structural heart interventions. Catheterization and Cardiovascular Interventions, 2013, 82, 443-444.	1.7	1
144	Integration of cardiac and respiratory motion into MRI roadmaps fused with x-ray. Medical Physics, 2013, 40, 032302.	3.0	33

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145	MRI active guidewire with an embedded temperature probe and providing a distinct tip signal to enhance clinical safety. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 30.	3.3	38
146	A deflectable guiding catheter for real-time MRI-guided interventions. Journal of Magnetic Resonance Imaging, 2012, 35, 908-915.	3.4	32
147	Active delivery cable tuned to device deployment state: Enhanced visibility of nitinol occluders during preclinical interventional MRI. Journal of Magnetic Resonance Imaging, 2012, 36, 972-978.	3.4	6
148	Virtual dye angiography: Flow visualization for MRI-guided interventions. Magnetic Resonance in Medicine, 2012, 67, 1013-1021.	3.0	9
149	Pressure-wire based assessment of microvascular resistance using calibrated upstream balloon obstruction. Catheterization and Cardiovascular Interventions, 2012, 80, 581-589.	1.7	9
150	Robust automatic rigid registration of MRI and X-ray using external fiducial markers for XFM-guided interventional procedures. Medical Physics, 2011, 38, 125-141.	3.0	23
151	NT5E Mutations and Arterial Calcifications. New England Journal of Medicine, 2011, 364, 432-442.	27.0	403
152	Experimental Model of Large Pulmonary Embolism Employing Controlled Release of Subacute Caval Thrombus in Swine. Journal of Vascular and Interventional Radiology, 2011, 22, 1471-1477.	0.5	13
153	Direct Percutaneous Left Ventricular Access and Port Closure. JACC: Cardiovascular Interventions, 2011, 4, 1318-1325.	2.9	21
154	Closed-Chest Transthoracic Magnetic Resonance Imaging-Guided Ventricular Septal Defect Closure in Swine. JACC: Cardiovascular Interventions, 2011, 4, 1326-1334.	2.9	25
155	Virtual Dye Angiography: flow visualization for MRI-guided interventions using endogenous contrast. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	0
156	Real-time MRI guided percutaneous transthoracic left ventricular access and closure. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	0
157	Golden-step phase encoding for flexible realtime Cardiac MRI. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	3.3	3
158	Adaptive noise cancellation to suppress electrocardiography artifacts during real-time interventional MRI. Journal of Magnetic Resonance Imaging, 2011, 33, 1184-1193.	3.4	35
159	MRI-guided vascular access with an active visualization needle. Journal of Magnetic Resonance Imaging, 2011, 34, 1159-1166.	3.4	18
160	Limitations of closing percutaneous transthoracic ventricular access ports using a commercial collagen vascular closure device. Catheterization and Cardiovascular Interventions, 2011, 77, 1079-1085.	1.7	9
161	Bright-Blood T <sub>2</sub> -Weighted MRI Has High Diagnostic Accuracy for Myocardial Hemorrhage in Myocardial Infarction. Circulation: Cardiovascular Imaging, 2011, 4, 738-745.	2.6	57
162	Interventional cardiovascular MR—The next stage in pediatric cardiology. Progress in Pediatric Cardiology, 2010, 28, 59-67.	0.4	2

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163	Interventional MRI using multiple 3D angiography roadmaps with real-time imaging. Journal of Magnetic Resonance Imaging, 2010, 31, 1015-1019.	3.4	14
164	Efficient implementation of hardware-optimized gradient sequences for real-time imaging. Magnetic Resonance in Medicine, 2010, 64, 1814-1820.	3.0	6
165	Visualization of active devices and automatic slice repositioning (â€œSnapToâ€) for MRI-guided interventions. Magnetic Resonance in Medicine, 2010, 63, 1070-1079.	3.0	14
166	Closed chest transthoracic periventricular ventricular septal defect closure under real-time MRI. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	0
167	Visualization of dynamic active devices via adaptive undersampled projection imaging. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	0
168	An interleaved-navigator projection dual-echo bSSFP sequence for respiratory self-gated imaging. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	3.3	0
169	RTâ€GROG: parallelized selfâ€calibrating GROG for real-time MRI. Magnetic Resonance in Medicine, 2010, 64, 306-312.	3.0	8
170	Interventional Cardiovascular Magnetic Resonance. , 2010, , 580-592.		0
171	Legs bend: Why dynamic angiography is important. Catheterization and Cardiovascular Interventions, 2009, 74, 799-799.	1.7	4
172	Active twoâ€channel 0.035â€ guidewire for interventional cardiovascular MRI. Journal of Magnetic Resonance Imaging, 2009, 30, 461-465.	3.4	24
173	Whole shaft visibility and mechanical performance for active MR catheters using copper-nitinol braided polymer tubes. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 29.	3.3	25
174	Antegrade Percutaneous Closure of Membranous Ventricular Septal Defect Using X-Ray Fused With Magnetic Resonance Imaging. JACC: Cardiovascular Interventions, 2009, 2, 224-230.	2.9	44
175	Mitral Cerclage Annuloplasty, A Novel Transcatheter Treatment for Secondary Mitral Valve Regurgitation. Journal of the American College of Cardiology, 2009, 54, 638-651.	2.8	64
176	Interventional Cardiovascular Magnetic Resonance Imaging. JACC: Cardiovascular Imaging, 2009, 2, 1321-1331.	5.3	54
177	VEGFR1/CXCR4-positive progenitor cells modulate local inflammation and augment tissue perfusion by a SDF-1-dependent mechanism. Journal of Molecular Medicine, 2008, 86, 1221-1232.	3.9	39
178	Interventional cardiovascular magnetic resonance: still tantalizing. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 62.	3.3	71
179	2107 "Bright when tight": a wireless resonant staple for interventional MRI. Journal of Cardiovascular Magnetic Resonance, 2008, 10, .	3.3	0
180	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.	3.4	10

#	ARTICLE	IF	CITATIONS
181	Real-time catheter-directed MRA with effective background suppression and persistent rendering. Journal of Magnetic Resonance Imaging, 2008, 28, 538-542.	3.4	4
182	Recanalization of chronic peripheral artery occlusions: Moving forward by looking sideways. Catheterization and Cardiovascular Interventions, 2008, 71, 734-735.	1.7	0
183	Real-Time MR Imaging-guided Laser Atrial Septal Puncture in Swine. Journal of Vascular and Interventional Radiology, 2008, 19, 1347-1353.	0.5	14
184	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. European Heart Journal, 2008, 29, 1772-1782.	2.2	37
185	A practical global distortion correction method for an image intensifier based x-ray fluoroscopy system. Medical Physics, 2008, 35, 997-1007.	3.0	30
186	Interventional Cardiovascular MRI. , 2008, , 711-733.		1
187	Prophylactic, standby, or rescue support for high-risk PCI: who knows?. Journal of Invasive Cardiology, 2008, 20, 73-4.	0.4	1
188	Beating Heart Aortic Valve Replacement using Real-Time MRI Guidance. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2007, 2, 51-55.	0.9	18
189	Blunt atrial transseptal puncture using excimer laser in swine. Catheterization and Cardiovascular Interventions, 2007, 70, 585-590.	1.7	15
190	Technology preview: X-ray fused with magnetic resonance during invasive cardiovascular procedures. Catheterization and Cardiovascular Interventions, 2007, 70, 773-782.	1.7	62
191	High-resolution 3D arteriography of chronic total peripheral occlusions using aT1-W turbo spin-echo sequence with inner-volume imaging. Magnetic Resonance in Medicine, 2007, 57, 40-49.	3.0	11
192	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.	3.4	59
193	Coronary artery aneurysms in patients with hyper IgE recurrent infection syndrome. Clinical Immunology, 2007, 122, 255-258.	3.2	63
194	Interventional Cardiovascular Magnetic Resonance Imaging. Trends in Cardiovascular Medicine, 2007, 17, 196-202.	4.9	11
195	Advances in interventional cardiovascular MRI. Current Cardiovascular Risk Reports, 2007, 1, 310-315.	2.0	0
196	Beating Heart Aortic Valve Replacement Using Real-Time MRI Guidance. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2007, 2, 51-55.	0.9	1
197	Targeted endomyocardial injections of therapeutic cells using x-ray fused with MRI guidance. , 2006, 6141, 323.		0
198	Advances in interventional cardiovascular MRI. Current Cardiology Reports, 2006, 8, 70-75.	2.9	2

#	ARTICLE	IF	CITATIONS
199	Real-time MRI guided atrial septal puncture and balloon septostomy in swine. Catheterization and Cardiovascular Interventions, 2006, 67, 637-643.	1.7	56
200	Usefulness of translesional pressure gradient and pharmacological provocation for the assessment of intermediate renal artery disease. Catheterization and Cardiovascular Interventions, 2006, 68, 429-434.	1.7	26
201	Real-time interactive MRI-guided cardiac surgery: Aortic valve replacement using a direct apical approach. Magnetic Resonance in Medicine, 2006, 56, 958-964.	3.0	111
202	Magnetic resonance imaging and its role in myocardial regenerative therapy. Regenerative Medicine, 2006, 1, 347-355.	1.7	6
203	X-Ray Fused With Magnetic Resonance Imaging (XFM) to Target Endomyocardial Injections. Circulation, 2006, 114, 2342-2350.	1.6	72
204	Real-Time Magnetic Resonance Imaging-Guided Endovascular Recanalization of Chronic Total Arterial Occlusion in a Swine Model. Circulation, 2006, 113, 1101-1107.	1.6	62
205	Cardiovascular Interventional Magnetic Resonance Imaging. Circulation, 2005, 112, 3009-3017.	1.6	86
206	Magnetic Resonance Imaging-guided Vascular Interventions. Topics in Magnetic Resonance Imaging, 2005, 16, 369-381.	1.2	21
207	Magnetic resonance image-guided trans-septal puncture in a swine heart. Journal of Magnetic Resonance Imaging, 2005, 21, 463-467.	3.4	56
208	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.	3.0	57
209	Invasive human magnetic resonance imaging: Feasibility during revascularization in a combined XMR suite. Catheterization and Cardiovascular Interventions, 2005, 64, 265-274.	1.7	56
210	Real-Time Magnetic Resonance Imaging to Guide Pediatric Endovascular Procedures. Pediatric Cardiology, 2005, 26, 251-259.	1.3	5
211	Distortion correction, calibration, and registration: toward an integrated MR and x-ray interventional suite. , 2005, , .		10
212	Real-Time Magnetic Resonance Imaging-Guided Stenting of Aortic Coarctation With Commercially Available Catheter Devices in Swine. Circulation, 2005, 112, 699-706.	1.6	82
213	Real-time, Interactive MRI for Cardiovascular Interventions1. Academic Radiology, 2005, 12, 1121-1127.	2.5	36
214	MRI-Guided myocardial cell therapy. International Journal of Cardiovascular Interventions, 2005, 7, 165-170.	0.5	12
215	Real-Time Magnetic Resonance-Guided Endovascular Repair of Experimental Abdominal Aortic Aneurysm in Swine. Journal of the American College of Cardiology, 2005, 45, 2069-2077.	2.8	61
216	Reduced field of view and undersampled PR combined for interventional imaging of a fully dynamic field of view. Magnetic Resonance in Medicine, 2004, 51, 761-767.	3.0	16

#	ARTICLE	IF	CITATIONS
217	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.	3.0	32
218	Delivery and tracking of therapeutic cell preparations for clinical cardiovascular applications. Cytotherapy, 2004, 6, 608-614.	0.7	4
219	Serial Cardiac Magnetic Resonance Imaging of Injected Mesenchymal Stem Cells. Circulation, 2003, 108, 1009-1014.	1.6	457
220	Undersampled projection reconstruction for active catheter imaging with adaptable temporal resolution and catheter-only views. Magnetic Resonance in Medicine, 2003, 49, 216-222.	3.0	46
221	Real-time accelerated interactive MRI with adaptive TSENSE and UNFOLD. Magnetic Resonance in Medicine, 2003, 50, 315-321.	3.0	87
222	Testing clinical therapeutic angiogenesis using basic fibroblast growth factor (FGF-2). British Journal of Pharmacology, 2003, 140, 637-646.	5.4	60
223	Magnetic Resonance Fluoroscopy Allows Targeted Delivery of Mesenchymal Stem Cells to Infarct Borders in Swine. Circulation, 2003, 108, 2899-2904.	1.6	218
224	Regional angiogenesis with vascular endothelial growth factor (VEGF) in peripheral arterial disease: Design of the RAVE trial. American Heart Journal, 2003, 145, 1114-1118.	2.7	84
225	Angiogenesis with recombinant fibroblast growth factor-2 for claudication. Lancet, The, 2003, 361, 256.	13.7	1
226	Regional Angiogenesis With Vascular Endothelial Growth Factor in Peripheral Arterial Disease. Circulation, 2003, 108, 1933-1938.	1.6	527
227	Intrinsic Conflicts of Interest in Clinical Research: A Need for Disclosure. Kennedy Institute of Ethics Journal, 2003, 13, 83-91.	0.5	46
228	Real-Time Volume Rendered MRI for Interventional Guidance. Journal of Cardiovascular Magnetic Resonance, 2003, 4, 431-442.	3.3	60
229	Percutaneous Stenting of Incidental Unilateral Renal Artery Stenosis: Decision Analysis of Costs and Benefits. Journal of Endovascular Therapy, 2003, 10, 546-556.	1.5	7
230	Therapeutic angiogenesis with recombinant fibroblast growth factor-2 for intermittent claudication (the TRAFFIC study): a randomised trial. Lancet, The, 2002, 359, 2053-2058.	13.7	491
231	Mesenchymal stem cell rescue™ for myocardial disease. Cytotherapy, 2002, 4, 527-529.	0.7	0
232	Catheter-Based Endomyocardial Injection With Real-Time Magnetic Resonance Imaging. Circulation, 2002, 105, 1282-1284.	1.6	134
233	Incomplete retention after direct myocardial injection. Catheterization and Cardiovascular Interventions, 2002, 55, 392-397.	1.7	126
234	Catheter-based endomyocardial injection with real-time magnetic resonance imaging. Circulation, 2002, 105, 1282-4.	1.6	65

#	ARTICLE	IF	CITATIONS
235	Primary renal artery stenting: Characteristics and outcomes after 363 procedures. American Heart Journal, 2001, 142, 314-323.	2.7	222
236	Detection of atherosclerosis using a novel positron-sensitive probe and 18-fluorodeoxyglucose (FDG). Nuclear Medicine Communications, 2001, 22, 747-753.	1.1	133
237	Design of the therapeutic angiogenesis with recombinant fibroblast growth factor-2 for intermittent claudication (TRAFFIC) trial. American Journal of Cardiology, 2001, 88, 192-195.	1.6	20
238	Blood speed imaging with an intraluminal array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 672-681.	3.0	17
239	Acute hemodynamic changes during carotid artery stenting. American Journal of Cardiology, 1998, 82, 1077-1081.	1.6	115
240	Superimposed stents in the management of acute recoil after Palmaz-Schatz stenting. , 1998, 44, 407-410.		3
241	Kissing stents in the aortic bifurcation. American Heart Journal, 1998, 136, 600-605.	2.7	50
242	Cardiovascular involvement in AIDS. Current Problems in Cardiology, 1997, 22, 109-148.	2.4	18
243	Cardiovascular Interventional MRI. , 0, , 336-345.		0
244	Advances in Transcatheter Electrosurgery for Treating Valvular Heart Disease. US Cardiology Review, 0, 15, .	0.5	0
245	Assessing the Hemodynamic Impact of Anterior Leaflet Laceration in Transcatheter Mitral Valve Replacement: An in silico Study. Frontiers in Cardiovascular Medicine, 0, 9, .	2.4	1