

Robert Jay Lederman

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.

215
papers

7,504
citations

49
h-index

80
g-index

255
ext. papers

8,821
ext. citations

5.6
avg, IF

5.63
L-index

#	Paper	IF	Citations
215	Troubleshooting transcaval access: Honoring our commitments.. <i>Catheterization and Cardiovascular Interventions</i> , 2022 ,	2.7	
214	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 , 101161CIRCINTERVENTIONS121011686	6	0
213	Leaflet Modification Technologies 2022 , 597-603		
212	Transcaval Versus Transaxillary TAVR in Contemporary Practice: A Propensity-Weighted Analysis.. <i>JACC: Cardiovascular Interventions</i> , 2022 , 15, 965-975	5	0
211	Transcatheter Electrosurgical Laceration and Stabilization of Failed MitraClip[s]/SAPIEN M3 for Treatment of Failed MitraClip.. <i>Circulation: Cardiovascular Interventions</i> , 2022 , 15, e012014	6	
210	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. <i>Circulation: Cardiovascular Interventions</i> , 2021 , 14, e011028	6	0
209	The Art of SAPIEN 3 Transcatheter Mitral Valve Replacement in Valve-in-Ring and Valve-in-Mitral-Annular-Calcification Procedures. <i>JACC: Cardiovascular Interventions</i> , 2021 , 14, 2195-2214	5	3
208	Tip-to-Base LAMPOON for Transcatheter Mitral Valve Replacement With a Protected Mitral Annulus. <i>JACC: Cardiovascular Interventions</i> , 2021 , 14, 541-550	5	5
207	Transcatheter Mitral Cerclage Annuloplasty 2021 , 175-183		
206	Balloon-Assisted BASILICA to Facilitate Redo TAVR. <i>JACC: Cardiovascular Interventions</i> , 2021 , 14, 578-580	5	9
205	A 20-gauge active needle design with thin-film printed circuitry for interventional MRI at 0.55T. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 1786-1801	4.4	2
204	Native contrast visualization and tissue characterization of myocardial radiofrequency ablation and acetic acid chemoablation lesions at 0.55T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021 , 23, 50	6.9	1
203	Preventing Coronary Obstruction During Transcatheter Aortic Valve Replacement: Results From the Multicenter International BASILICA Registry. <i>JACC: Cardiovascular Interventions</i> , 2021 , 14, 941-948	5	14
202	BASILICA Trial: One-Year Outcomes of Transcatheter Electrosurgical Leaflet Laceration to Prevent TAVR Coronary Obstruction. <i>Circulation: Cardiovascular Interventions</i> , 2021 , 14, e010238	6	5
201	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> , 2021 ,	4.1	1
200	Oxygen-enhanced functional lung imaging using a contemporary 0.55 T MRI system. <i>NMR in Biomedicine</i> , 2021 , 34, e4562	4.4	2
199	First-in-human transcatheter pledget-assisted suture tricuspid annuloplasty for severe tricuspid insufficiency. <i>Catheterization and Cardiovascular Interventions</i> , 2021 , 97, E130-E134	2.7	4

198	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	2.7	6
197	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	3.3	3
196	Real-time device tracking under MRI using an acousto-optic active marker. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2904-2914	4.4	4
195	Framework for Planning TMVR using 3-D Imaging, In Silico Modeling, and Virtual Reality. <i>Structural Heart</i> , 2020 , 4, 336-341	0.6	2
194	Tip-to-Base LAMPOON to Prevent Left Ventricular Outflow Tract Obstruction in Valve-in-Valve Transcatheter Mitral Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2020 , 13, 1126-1128	5	6
193	Antegrade Intentional Laceration of the Anterior Mitral Leaflet to Prevent Left Ventricular Outflow Tract Obstruction: A Simplified Technique From Bench to Bedside. <i>Circulation: Cardiovascular Interventions</i> , 2020 , 13, e008903	6	10
192	Untreatable Severe Structural Degeneration of a Transcatheter Aortic Heart Valve. <i>JACC: Case Reports</i> , 2020 , 2, 347-351	1.2	
191	MRI Catheterization: Ready for Broad Adoption. <i>Pediatric Cardiology</i> , 2020 , 41, 503-513	2.1	6
190	Transcatheter Electrosurgery: JACC State-of-the-Art Review. <i>Journal of the American College of Cardiology</i> , 2020 , 75, 1455-1470	15.1	19
189	Septal Reduction Using Transvenous Intramyocardial Cerclage Radiofrequency Ablation: Preclinical Feasibility. <i>JACC Basic To Translational Science</i> , 2020 , 5, 988-998	8.7	2
188	Electrosurgical Detachment of MitraClips From the Anterior Mitral Leaflet Prior to Transcatheter Mitral Valve Implantation. <i>JACC: Cardiovascular Interventions</i> , 2020 , 13, 2361-2370	5	15
187	TAVR-in-TAVR?: Don't Bank on It!. <i>Journal of the American College of Cardiology</i> , 2020 , 76, 1003	15.1	
186	Annular-to-Apical "Emory Angle" to Ensure Coaxial Mitral Implantation of the SAPIEN 3 Valve. <i>JACC: Cardiovascular Interventions</i> , 2020 , 13, 2447-2450	5	6
185	Single-Barrel, Double-Barrel, and Fenestrated Endografts to Facilitate Transcatheter Pulmonary Valve Replacement in Large RVOT. <i>JACC: Cardiovascular Interventions</i> , 2020 , 13, 2755-2765	5	5
184	Alternative Access in Congenital Heart Disease. <i>JACC: Case Reports</i> , 2020 , 2, 1734-1735	1.2	0
183	TAVR Roulette: Caution Regarding BASILICA Laceration for TAVR-in-TAVR. <i>JACC: Cardiovascular Interventions</i> , 2020 , 13, 787-789	5	17
182	Opportunities in Interventional and Diagnostic Imaging by Using High-Performance Low-Field-Strength MRI. <i>Radiology</i> , 2019 , 293, 384-393	20.5	72
181	Cerclage parahisian septal pacing through the septal perforator branch of the great cardiac vein: Bedside-to-bench development of a novel technique and lead. <i>Heart Rhythm</i> , 2019 , 16, 1834-1840	6.7	3

180	Warning: Alcohol Before TMVR May Cause Serious Injury or Loss of Life. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 1869-1870	5	2
179	Interventional Cardiovascular MRI. <i>Contemporary Cardiology</i> , 2019 , 419-437	0.1	
178	Postinfarction Ventricular Septal Defect Closure. <i>Circulation: Cardiovascular Interventions</i> , 2019 , 12, e007788	7	1
177	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	15.1	90
176	X-ray fused with MRI guidance of pre-selected transcatheter congenital heart disease interventions. <i>Catheterization and Cardiovascular Interventions</i> , 2019 , 94, 399-408	2.7	3
175	The Fate of Transcaval Access Tracts: 12-Month Results of the Prospective NHLBI Transcaval Transcatheter Aortic Valve Replacement Study. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 448-456	5	23
174	A cardiovascular magnetic resonance (CMR) safe metal braided catheter design for interventional CMR at 1.5 T: freedom from radiofrequency induced heating and preserved mechanical performance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 16	6.9	11
173	600.66 Transcatheter Pledget-Assisted Suture Tricuspid Annuloplasty (PASTA): First-in-Human Report. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, S59-S60	5	2
172	Pachyderm-Shape Guiding Catheters to Simplify BASILICA Leaflet Traversal. <i>Cardiovascular Revascularization Medicine</i> , 2019 , 20, 782-785	1.6	6
171	Preventing Coronary Obstruction During Transcatheter Aortic Valve Replacement: From Computed Tomography to BASILICA. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 1197-1216	5	63
170	The BASILICA Trial: Prospective Multicenter Investigation of Intentional Leaflet Laceration to Prevent TAVR Coronary Obstruction. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 1240-1252	5	99
169	"Rescue" LAMPOON to Treat Transcatheter Mitral Valve Replacement-Associated Left Ventricular Outflow Tract Obstruction. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 1283-1284	5	12
168	Dedicated Closure Device for Transcaval Access Closure: From Concept to First-in-Human Testing. <i>JACC: Cardiovascular Interventions</i> , 2019 , 12, 2198-2206	5	4
167	Acousto-Optic Catheter Tracking Sensor for Interventional MRI Procedures. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 1148-1154	5	6
166	Sickle related events following cardiac catheterisation: risk implication for other invasive procedures. <i>British Journal of Haematology</i> , 2019 , 185, 778-780	4.5	
165	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, 4100112	3	11
164	Transcatheter Laceration of Aortic Leaflets to Prevent Coronary Obstruction During Transcatheter Aortic Valve Replacement: Concept to First-in-Human. <i>JACC: Cardiovascular Interventions</i> , 2018 , 11, 677-689	5	110
163	Transcatheter pledget-assisted suture tricuspid annuloplasty (PASTA) to create a double-orifice valve. <i>Catheterization and Cardiovascular Interventions</i> , 2018 , 92, E175-E184	2.7	24

162	Transcatheter Mitral Valve Replacement After Transcatheter Electrosurgical Laceration of Alfieri STItCh (ELASTIC): First-in-Human Report. <i>JACC: Cardiovascular Interventions</i> , 2018 , 11, 808-811	5	11
161	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	2.7	25
160	Guidewire electrosurgery-assisted trans-septal puncture. <i>Catheterization and Cardiovascular Interventions</i> , 2018 , 91, 1164-1170	2.7	7
159	Right heart catheterization using metallic guidewires and low SAR cardiovascular magnetic resonance fluoroscopy at 1.5 Tesla: first in human experience. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 41	6.9	21
158	International LAMPOON: first European experience with laceration of the anterior mitral valve leaflet prior to transseptal transcatheter mitral valve implantation. <i>EuroIntervention</i> , 2018 , 14, 746-749	3.1	3
157	Bedside Modification of Delivery System for Transcatheter Transseptal Mitral Replacement With POULEZ System and SAPIEN-3 Valve. <i>JACC: Cardiovascular Interventions</i> , 2018 , 11, 1207-1209	5	4
156	BI-SILICA During Transcatheter Aortic Valve Replacement for Noncalcific Aortic Insufficiency: Initial Human Experience. <i>JACC: Cardiovascular Interventions</i> , 2018 , 11, 2237-2239	5	5
155	Blood volume measurement using cardiovascular magnetic resonance and ferumoxytol: preclinical validation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 62	6.9	7
154	LAMPOON to Facilitate Tendyne Transcatheter Mitral Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2018 , 11, 2014-2017	5	11
153	Sheathless Transcaval Transcatheter Aortic Valve Implantation Through an Abdominal Aortic Graft. <i>Canadian Journal of Cardiology</i> , 2018 , 34, 1688.e17-1688.e19	3.8	2
152	Predicting Left Ventricular Outflow Tract Obstruction Despite Anterior Mitral Leaflet Resection: The "Skirt NeoLVOT". <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 1356-1359	8.4	21
151	Intentional Percutaneous Laceration of the Anterior Mitral Leaflet to Prevent Outflow Obstruction During Transcatheter Mitral Valve Replacement: First-in-Human Experience. <i>JACC: Cardiovascular Interventions</i> , 2017 , 10, 798-809	5	108
150	Mitral Loop Cerclage Annuloplasty for Secondary Mitral Regurgitation: First Human Results. <i>JACC: Cardiovascular Interventions</i> , 2017 , 10, 597-610	5	30
149	Anatomic Suitability for Transcaval Access Based on Computed Tomography. <i>JACC: Cardiovascular Interventions</i> , 2017 , 10, 1-10	5	36
148	CMR fluoroscopy right heart catheterization for cardiac output and pulmonary vascular resistance: results in 102 patients. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 54	6.9	27
147	Radiation-free CMR diagnostic heart catheterization in children. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 65	6.9	30
146	First-in-Human Closed-Chest Transcatheter Superior Cavopulmonary Anastomosis. <i>Journal of the American College of Cardiology</i> , 2017 , 70, 745-752	15.1	8
145	Transcaval Access and Closure for Transcatheter Aortic Valve Replacement: A Prospective Investigation. <i>Journal of the American College of Cardiology</i> , 2017 , 69, 511-521	15.1	134

144	A NOVEL ACTIVE DEVICE FABRICATION METHOD FOR INTERVENTIONAL MRI PROCEDURES. <i>IFMBE Proceedings</i> , 2017 , 122-128	0.2	2
143	Real-time inversion recovery for infarct visualization during MR-guided interventions. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18,	6.9	1
142	Spiral imaging with off-resonance reconstruction for MRI-guided cardiovascular catheterizations using commercial off-the-shelf nitinol guidewires. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18,	6.9	78
141	Interventional-Cardiovascular MR: Role of the Interventional MR Technologist. <i>Radiologic Technology</i> , 2016 , 87, 261-70	1.1	8
140	X-ray Fused With Magnetic Resonance Imaging to Guide Endomyocardial Biopsy of a Right Ventricular Mass. <i>Radiologic Technology</i> , 2016 , 87, 622-6	1.1	3
139	Real-time distortion correction of spiral and echo planar images using the gradient system impulse response function. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 2278-85	4.4	40
138	Predicting LVOT Obstruction After TMVR. <i>JACC: Cardiovascular Imaging</i> , 2016 , 9, 1349-1352	8.4	91
137	Transcatheter Myocardial Needle Chemoablation During Real-Time Magnetic Resonance Imaging: A New Approach to Ablation Therapy for Rhythm Disorders. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9, e003926	6.4	11
136	Magnetic Resonance Imaging-Guided Transcatheter Cavopulmonary Shunt. <i>JACC: Cardiovascular Interventions</i> , 2016 , 9, 959-70	5	20
135	Intentional Laceration of the Anterior Mitral Valve Leaflet to Prevent Left Ventricular Outflow Tract Obstruction During Transcatheter Mitral Valve Replacement: Pre-Clinical Findings. <i>JACC: Cardiovascular Interventions</i> , 2016 , 9, 1835-43	5	49
134	Real-time magnetic resonance imaging guidance improves the diagnostic yield of endomyocardial biopsy. <i>JACC Basic To Translational Science</i> , 2016 , 1, 376-383	8.7	22
133	Interventional CMR: Clinical applications and future directions. <i>Current Cardiology Reports</i> , 2015 , 17, 31	4.2	33
132	Percutaneous MR guided direct left atrial access to deliver large interventional devices. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
131	MR guided right heart catheterization - the NIH experience. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
130	Transcatheter bidirectional Glenn shunt guided by real-time MRI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	2
129	Two channel passive visualization of a nitinol guidewire with iron markers. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	1
128	Positive contrast spiral imaging of a nitinol guidewire. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	2
127	Transcaval Aortic Access for Percutaneous Thoracic Aortic Aneurysm Repair: Initial Human Experience. <i>Journal of Vascular and Interventional Radiology</i> , 2015 , 26, 1437-41	2.4	14

126	Magnetic Resonance Sequences and Rapid Acquisition for MR-Guided Interventions. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2015 , 23, 669-79	1.6	18
125	Image Fusion Guided Device Closure of Left Ventricle to Right Atrium Shunt. <i>Circulation</i> , 2015 , 132, 1366-7	7.7	6
124	Intentional Right Atrial Exit and Carbon Dioxide Insufflation to Facilitate Subxiphoid Needle Entry Into the Empty Pericardial Space: First Human Experience. <i>JACC: Clinical Electrophysiology</i> , 2015 , 1, 434-441	4.6	8
123	Transatrial intrapericardial tricuspid annuloplasty. <i>JACC: Cardiovascular Interventions</i> , 2015 , 8, 483-491	5	57
122	Intentional right atrial exit for microcatheter infusion of pericardial carbon dioxide or iodinated contrast to facilitate sub-xiphoid access. <i>Catheterization and Cardiovascular Interventions</i> , 2015 , 86, E111-8	2.7	11
121	Segmented nitinol guidewires with stiffness-matched connectors for cardiovascular magnetic resonance catheterization: preserved mechanical performance and freedom from heating. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 105	6.9	22
120	Positive contrast spiral imaging for visualization of commercial nitinol guidewires with reduced heating. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 114	6.9	11
119	Transcaval access for TAVR across a polyester aortic graft. <i>Catheterization and Cardiovascular Interventions</i> , 2015 , 85, 1270-3	2.7	10
118	How to perform transcaval access and closure for transcatheter aortic valve implantation. <i>Catheterization and Cardiovascular Interventions</i> , 2015 , 86, 1242-54	2.7	47
117	Real-time imaging system using a 12-MHz forward-looking catheter with single chip CMUT-on-CMOS array 2015 ,		11
116	Fully percutaneous transthoracic left atrial entry and closure as a potential access route for transcatheter mitral valve interventions. <i>Circulation: Cardiovascular Interventions</i> , 2015 , 8, e002538	6	6
115	Reply: percutaneous access, no matter what!. <i>Journal of the American College of Cardiology</i> , 2015 , 65, 310-1	15.1	
114	Parallel transmit excitation at 1.5 T based on the minimization of a driving function for device heating. <i>Medical Physics</i> , 2015 , 42, 359-71	4.4	19
113	Concordance and diagnostic accuracy of vasodilator stress cardiac MRI and 320-detector row coronary CTA. <i>International Journal of Cardiovascular Imaging</i> , 2014 , 30, 109-19	2.5	5
112	Technologist primer for MRI right heart catheterization: the NIH and CNMC experience. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
111	An efficient, free-breathing protocol for MR right heart catheterization. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
110	Provocative MRI catheterization. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
109	Interactive black blood preparation for interventional cardiovascular MRI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	5

108	Brucella arteritis: clinical manifestations, treatment, and prognosis. <i>Lancet Infectious Diseases</i> , 2014 , 14, 520-6	25.5	37
107	Planning transcaval access using CT for large transcatheter implants. <i>JACC: Cardiovascular Imaging</i> , 2014 , 7, 1167-71	8.4	12
106	Effect of mechanical assistance of the systemic ventricle in single ventricle circulation with cavopulmonary connection. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 147, 1271-5	1.5	21
105	Caval-aortic access to allow transcatheter aortic valve replacement in otherwise ineligible patients: initial human experience. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 2795-804	15.1	137
104	MRI catheterization in cardiopulmonary disease. <i>Chest</i> , 2014 , 145, 30-36	5.3	28
103	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	6.9	16
102	Letter by Lederman et al regarding article, "MRI-induced stent dislodgment soon after left main coronary artery stenting". <i>Circulation: Cardiovascular Interventions</i> , 2014 , 7, 128	6	1
101	Dual echo bSSFP for real-time positive contrast of passive nitinol guidewires in MRI-guided cardiovascular interventions. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
100	Real-Time Magnetic Resonance Imaging (MRI)-Guided Intervention 2014 , 1173-1181		
99	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	6.9	16
98	Aortic access from the vena cava for large caliber transcatheter cardiovascular interventions: pre-clinical validation. <i>Journal of the American College of Cardiology</i> , 2013 , 61, 1745-6	15.1	29
97	Real-time MRI-guided right heart catheterization in adults using passive catheters. <i>European Heart Journal</i> , 2013 , 34, 380-9	9.5	71
96	MRI roadmap-guided transendocardial delivery of exon-skipping recombinant adeno-associated virus restores dystrophin expression in a canine model of Duchenne muscular dystrophy. <i>Gene Therapy</i> , 2013 , 20, 274-82	4	28
95	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	6.9	20
94	Integration of cardiac and respiratory motion into MRI roadmaps fused with x-ray. <i>Medical Physics</i> , 2013 , 40, 032302	4.4	30
93	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, 38	6.9	33
92	A deflectable guiding catheter for real-time MRI-guided interventions. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 35, 908-15	5.6	29
91	Active delivery cable tuned to device deployment state: enhanced visibility of nitinol occluders during preclinical interventional MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 972-8	5.6	6

90	Virtual dye angiography: flow visualization for MRI-guided interventions. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 1013-21	4.4	6
89	Pressure-wire based assessment of microvascular resistance using calibrated upstream balloon obstruction: a predictor of myocardial viability. <i>Catheterization and Cardiovascular Interventions</i> , 2012 , 80, 581-9	2.7	5
88	Direct percutaneous left ventricular access and port closure: pre-clinical feasibility. <i>JACC: Cardiovascular Interventions</i> , 2011 , 4, 1318-25	5	21
87	Closed-chest transthoracic magnetic resonance imaging-guided ventricular septal defect closure in swine. <i>JACC: Cardiovascular Interventions</i> , 2011 , 4, 1326-34	5	25
86	Virtual Dye Angiography: flow visualization for MRI-guided interventions using endogenous contrast. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	78
85	Real-time MRI guided percutaneous transthoracic left ventricular access and closure. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	78
84	Golden-step phase encoding for flexible realtime Cardiac MRI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	3
83	Adaptive noise cancellation to suppress electrocardiography artifacts during real-time interventional MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 1184-93	5.6	29
82	MRI-guided vascular access with an active visualization needle. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 34, 1159-66	5.6	14
81	Limitations of closing percutaneous transthoracic ventricular access ports using a commercial collagen vascular closure device. <i>Catheterization and Cardiovascular Interventions</i> , 2011 , 77, 1079-85	2.7	9
80	NT5E mutations and arterial calcifications. <i>New England Journal of Medicine</i> , 2011 , 364, 432-42	59.2	312
79	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, 1471-7	2.4	11
78	Bright-blood T(2)-weighted MRI has high diagnostic accuracy for myocardial hemorrhage in myocardial infarction: a preclinical validation study in swine. <i>Circulation: Cardiovascular Imaging</i> , 2011 , 4, 738-45	3.9	49
77	Robust automatic rigid registration of MRI and X-ray using external fiducial markers for XFM-guided interventional procedures. <i>Medical Physics</i> , 2011 , 38, 125-41	4.4	20
76	RT-GROG: parallelized self-calibrating GROG for real-time MRI. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 306-12	4.4	8
75	Interventional cardiovascular MR—the next stage in pediatric cardiology. <i>Progress in Pediatric Cardiology</i> , 2010 , 28, 59-67	0.4	2
74	Interventional MRI using multiple 3D angiography roadmaps with real-time imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 1015-9	5.6	14
73	Efficient implementation of hardware-optimized gradient sequences for real-time imaging. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1814-20	4.4	5

72	Visualization of active devices and automatic slice repositioning ("SnapTo") for MRI-guided interventions. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1070-9	4.4	13
71	Interventional Cardiovascular Magnetic Resonance 2010 , 580-592		
70	Active two-channel 0.035F guidewire for interventional cardiovascular MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 30, 461-5	5.6	22
69	Whole shaft visibility and mechanical performance for active MR catheters using copper-nitinol braided polymer tubes. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11, 29	6.9	17
68	Antegrade percutaneous closure of membranous ventricular septal defect using X-ray fused with magnetic resonance imaging. <i>JACC: Cardiovascular Interventions</i> , 2009 , 2, 224-30	5	35
67	Mitral cerclage annuloplasty, a novel transcatheter treatment for secondary mitral valve regurgitation: initial results in swine. <i>Journal of the American College of Cardiology</i> , 2009 , 54, 638-51	15.1	55
66	Interventional cardiovascular magnetic resonance imaging: a new opportunity for image-guided interventions. <i>JACC: Cardiovascular Imaging</i> , 2009 , 2, 1321-31	8.4	51
65	Real-time MR imaging-guided laser atrial septal puncture in swine. <i>Journal of Vascular and Interventional Radiology</i> , 2008 , 19, 1347-53	2.4	11
64	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, 1772-82	9.5	32
63	A practical global distortion correction method for an image intensifier based x-ray fluoroscopy system. <i>Medical Physics</i> , 2008 , 35, 997-1007	4.4	26
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