Jean Paul M Vallée

List of Publications by Year in descending order

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134 papers 3,669

35 h-index 54 g-index

136 all docs

136 docs citations

136 times ranked

4843 citing authors

#	Article	IF	CITATIONS
1	Clinical Magnetic Resonance Imaging of Pancreatic Islet Grafts After Iron Nanoparticle Labeling. American Journal of Transplantation, 2008, 8, 701-706.	4.7	249
2	Diffusion-weighted magnetic resonance imaging to assess diffuse renal pathology: a systematic review and statement paper. Nephrology Dialysis Transplantation, 2018, 33, ii29-ii40.	0.7	111
3	New Magnetic Resonance Imaging Index for Renal Fibrosis Assessment: A Comparison between Diffusion-Weighted Imaging and T1 Mapping with Histological Validation. Scientific Reports, 2016, 6, 30088.	3.3	108
4	CC chemokine CCL5 plays a central role impacting infarct size and post-infarction heart failure in mice. European Heart Journal, 2012, 33, 1964-1974.	2.2	107
5	Ex situ evaluation of the composition of protein corona of intravenously injected superparamagnetic nanoparticles in rats. Nanoscale, 2014, 6, 11439-11450.	5.6	106
6	Absolute renal blood flow quantification by dynamic MRI and Gd-DTPA. European Radiology, 2000, 10, 1245-1252.	4.5	99
7	Application technique: placement of a prostate–rectum spacer in men undergoing prostate radiation therapy. BJU International, 2012, 110, E647-52.	2.5	97
8	Estimation of myocardial blood flow for longitudinal studies with 13N-labeled ammonia and positron emission tomography. Journal of Nuclear Cardiology, 1996, 3, 494-507.	2.1	94
9	Magnetic resonance imaging biomarkers for chronic kidney disease: a position paper from the European Cooperation in Science and Technology Action PARENCHIMA. Nephrology Dialysis Transplantation, 2018, 33, ii4-ii14.	0.7	91
10	Quantification of myocardial perfusion with FAST sequence and Gd bolus in patients with normal cardiac function. Journal of Magnetic Resonance Imaging, 1999, 9, 197-203.	3.4	85
11	MRI quantitative myocardial perfusion with compartmental analysis: A rest and stress study. Magnetic Resonance in Medicine, 1997, 38, 981-989.	3.0	70
12	Superparamagnetic iron oxide particles and positive enhancement for myocardial perfusion studies assessed by subsecond T1-weighted MRI. Magnetic Resonance Imaging, 1993, 11, 1139-1145.	1.8	69
13	Benefits of Content-based Visual Data Access in Radiology. Radiographics, 2005, 25, 849-858.	3.3	66
14	Automated registration of dynamic MR images for the quantification of myocardial perfusion. Journal of Magnetic Resonance Imaging, 2001, 13, 648-655.	3.4	64
15	Optimization of Radiation Therapy Techniques for Prostate Cancer With Prostate-Rectum Spacers: A Systematic Review. International Journal of Radiation Oncology Biology Physics, 2014, 90, 278-288.	0.8	64
16	Consensus-based technical recommendations for clinical translation of renal diffusion-weighted MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 177-195.	2.0	61
17	Spiral demystified. Magnetic Resonance Imaging, 2010, 28, 862-881.	1.8	59
18	Integration of a Multimedia Teaching and Reference Database in a PACS Environment. Radiographics, 2002, 22, 1567-1577.	3.3	58

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19	Approaches for the optimization of MR protocols in clinical hybrid PET/MRI studies. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2013, 26, 57-69.	2.0	54
20	Inflow effect correction in fast gradient-echo perfusion imaging. Magnetic Resonance in Medicine, 2003, 50, 885-891.	3.0	51
21	Magnetic Resonance Imaging With Hepatospecific Contrast Agents in Cirrhotic Rat Livers. Investigative Radiology, 2005, 40, 187-194.	6.2	47
22	Noninvasive Measurement of Absolute Renal Perfusion by Contrast Medium-Enhanced Magnetic Resonance Imaging. Investigative Radiology, 2003, 38, 584-592.	6.2	46
23	Treatment with the CC chemokine-binding protein Evasin-4 improves post-infarction myocardial injury and survival in mice. Thrombosis and Haemostasis, 2013, 110, 807-825.	3.4	46
24	Kinetics of Gadobenate Dimeglumine in Isolated Perfused Rat Liver: MR Imaging Evaluation. Radiology, 2003, 229, 119-125.	7.3	45
25	Current status of cardiac MRI in small animals. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2004, 17, 149-156.	2.0	45
26	Analysis of contrast-enhanced MR images to assess renal function. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2006, 19, 167-179.	2.0	44
27	Potential of hybrid 18F-fluorocholine PET/MRI for prostate cancer imaging. European Journal of Nuclear Medicine and Molecular Imaging, 2014, 41, 1744-1755.	6.4	44
28	A reference data set for the evaluation of medical image retrieval systems. Computerized Medical Imaging and Graphics, 2004, 28, 295-305.	5.8	42
29	Improvement of renal diffusion-weighted magnetic resonance imaging with readout-segmented echo-planar imaging at 3T. Magnetic Resonance Imaging, 2015, 33, 701-708.	1.8	42
30	Comparing features sets for content-based image retrieval in a medical-case database., 2004, 5371, 99.		41
31	Improved Visualization of Vessels and Hepatic Tumors by Micro-Computed Tomography (CT) Using lodinated Liposomes. Investigative Radiology, 2007, 42, 652-658.	6.2	41
32	Treatment with anti-RANKL antibody reduces infarct size and attenuates dysfunction impacting on neutrophil-mediated injury. Journal of Molecular and Cellular Cardiology, 2016, 94, 82-94.	1.9	41
33	Bone Motion Analysis From Dynamic MRI: Acquisition and Tracking 1. Academic Radiology, 2005, 12, 1285-1292.	2.5	39
34	His-Optimized Cardiac Resynchronization Therapy With Ventricular Fusion Pacing for Electrical Resynchronization in HeartÂFailure. JACC: Clinical Electrophysiology, 2021, 7, 881-892.	3.2	39
35	Improvement in the quantification of myocardial perfusion using an automatic spline-based registration algorithm. Journal of Magnetic Resonance Imaging, 2003, 18, 160-168.	3.4	38
36	In vivo labelling of resting monocytes in the reticuloendothelial system with fluorescent iron oxide nanoparticles prior to injury reveals that they are mobilized to infarcted myocardium. European Heart Journal, 2010, 31, 1410-1420.	2.2	37

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37	Genetic deletion of the adaptor protein p66Shc increases susceptibility to short-term ischaemic myocardial injury via intracellular salvage pathways. European Heart Journal, 2015, 36, 516-526.	2.2	37
38	3D-printed heart model to guide LAA closure: useful in clinical practice?. European Radiology, 2019, 29, 251-258.	4.5	36
39	Validation of the corticomedullary difference in magnetic resonance imaging-derived apparent diffusion coefficient for kidney fibrosis detection: a cross-sectional study. Nephrology Dialysis Transplantation, 2020, 35, 937-945.	0.7	36
40	Assessment of Human Islet Labeling with Clinical Grade Iron Nanoparticles Prior to Transplantation for Graft Monitoring by MRI. Cell Transplantation, 2010, 19, 1573-1585.	2.5	35
41	Hyperpolarizing Gases via Dynamic Nuclear Polarization and Sublimation. Physical Review Letters, 2010, 105, 018104.	7.8	35
42	Casimage Project. Journal of Thoracic Imaging, 2004, 19, 103-108.	1.5	33
43	Embryonic Stem Cell-Based Cardiopatches Improve Cardiac Function in Infarcted Rats. Stem Cells Translational Medicine, 2012, 1, 248-260.	3.3	32
44	Detection of ATP by "in line―31P magnetic resonance spectroscopy during oxygenated hypothermic pulsatile perfusion of pigs' kidneys. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2012, 25, 391-399.	2.0	31
45	A fast and reproducible method to quantify magnetic nanoparticle biodistribution. Analyst, The, 2014, 139, 1184-1191.	3.5	31
46	Pre-retrieval reperfusion decreases cancer recurrence after rat ischemic liver graft transplantation. Journal of Hepatology, 2014, 61, 278-285.	3.7	31
47	The In-Vivo Use of Superparamagnetic Iron Oxide Nanoparticles to Detect Inflammation Elicits a Cytokine Response but Does Not Aggravate Experimental Arthritis. PLoS ONE, 2015, 10, e0126687.	2.5	31
48	Intra-Abdominal Cooling System Limits Ischemia–Reperfusion Injury During Robot-Assisted Renal Transplantation. American Journal of Transplantation, 2018, 18, 53-62.	4.7	29
49	Enterprise-wide PACS: Beyond Radiology, an Architecture to Manage All Medical Images1. Academic Radiology, 2005, 12, 1000-1009.	2.5	28
50	Comparison of readoutâ€segmented and conventional singleâ€shot for echoâ€planar diffusionâ€weighted imaging in the assessment of kidney interstitial fibrosis. Journal of Magnetic Resonance Imaging, 2017, 46, 1631-1640.	3.4	28
51	Specificity of SPIO particles for characterization of liver hemangiomas using MRI. Abdominal Imaging, 2004, 29, 60-70.	2.0	27
52	Diagnosis and assessment of renal fibrosis: the state of the art. Swiss Medical Weekly, 2017, 147, w14442.	1.6	27
53	Gd-BOPTA Transport Into Rat Hepatocytes: Pharmacokinetic Analysis of Dynamic Magnetic Resonance Images Using a Hollow-Fiber Bioreactor. Investigative Radiology, 2004, 39, 506-515.	6.2	26
54	Effect of ischaemic preconditioning on recurrence of hepatocellular carcinoma in an experimental model of liver steatosis. British Journal of Surgery, 2016, 103, 417-426.	0.3	26

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55	Aminoâ€polyvinyl Alcohol Coated Superparamagnetic Iron Oxide Nanoparticles are Suitable for Monitoring of Human Mesenchymal Stromal Cells In Vivo. Small, 2014, 10, 4340-4351.	10.0	25
56	Cine and tagged cardiovascular magnetic resonance imaging in normal rat at 1.5 T: a rest and stress study. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 48.	3.3	23
57	Monitoring the effects of dexamethasone treatment by MRI using in vivo iron oxide nanoparticle-labeled macrophages. Arthritis Research and Therapy, 2014, 16, R131.	3.5	23
58	Parametric and quantitative analysis of MR renographic curves for assessing the functional behaviour of the kidney. European Journal of Radiology, 2005, 54, 124-135.	2.6	20
59	Inflow effect in first-pass cardiac and renal MRI. Journal of Magnetic Resonance Imaging, 2003, 18, 372-376.	3.4	19
60	MRI micelles self-assembled from synthetic gadolinium-based nano building blocks. Chemical Communications, 2019, 55, 945-948.	4.1	19
61	Diffusion magnetic resonance imaging detects an increase in interstitial fibrosis earlier than the decline of renal function. Nephrology Dialysis Transplantation, 2020, 35, 1274-1276.	0.7	19
62	FAST sequences optimization for contrast media pharmacokinetic quantification in tissue. Journal of Magnetic Resonance Imaging, 2001, 14, 771-778.	3.4	18
63	Subtraction CT Angiography of the Lower Limbs: A New Technique for the Evaluation of Acute Arterial Occlusion. American Journal of Roentgenology, 2004, 183, 1445-1448.	2.2	18
64	Myocardial infarction quantification with Manganeseâ€Enhanced MRI (MEMRI) in mice using a 3T clinical scanner. NMR in Biomedicine, 2010, 23, 503-513.	2.8	18
65	Comparison between tagged MRI and standard cine MRI for evaluation of left ventricular ejection fraction. European Radiology, 2004, 14, 1348-52.	4.5	17
66	Diffusion-magnetic resonance imaging predicts decline of kidney function in chronic kidney disease and in patients with a kidney allograft. Kidney International, 2022, 101, 804-813.	5.2	17
67	Comparative evaluation of active contour model extensions for automated cardiac MR image segmentation by regional error assessment. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2007, 20, 69-82.	2.0	15
68	A Novel Method for Quantitative Monitoring of Transplanted Islets of Langerhans by Positive Contrast Magnetic Resonance Imaging. American Journal of Transplantation, 2011, 11, 1158-1168.	4.7	15
69	18F-Fluorocholine integrated PET/MRI for the initial staging of prostate cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 2288-2288.	6.4	15
70	Quantification of Islet Loss and Graft Functionality During Immune Rejection by 3-Tesla MRI in a Rat Model. Transplantation, 2013, 96, 438-444.	1.0	15
71	Phosphocalcic Markers and Calcification Propensity for Assessment of Interstitial Fibrosis and Vascular Lesions in Kidney Allograft Recipients. PLoS ONE, 2016, 11, e0167929.	2.5	15
72	SNR enhancement of highly-accelerated real-time cardiac MRI acquisitions based on non-local means algorithm. Medical Image Analysis, 2009, 13, 598-608.	11.6	14

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73	Syntheses of cross-linked polymeric superparamagnetic beads with tunable properties. RSC Advances, 2014, 4, 11142-11146.	3.6	13
74	Diffusion in prostate cancer detection on a 3T scanner: How many bâ€values are needed?. Journal of Magnetic Resonance Imaging, 2016, 44, 601-609.	3.4	13
75	Cardiomyocyte-Specific JunD Overexpression Increases Infarct Size following Ischemia/Reperfusion Cardiac Injury by Downregulating Sirt3. Thrombosis and Haemostasis, 2020, 120, 168-180.	3.4	13
76	High-Resolution Complementary Spatial Modulation of Magnetization (CSPAMM) Rat Heart Tagging on a 1.5 Tesla Clinical Magnetic Resonance System. Investigative Radiology, 2007, 42, 204-210.	6.2	12
77	Feasibility of complementary spatial modulation of magnetization tagging in the rat heart after manganese injection. NMR in Biomedicine, 2008, 21, 15-21.	2.8	12
78	The Effect of Neoadjuvant Androgen Deprivation Therapy on Tumor Hypoxia in High-Grade Prostate Cancer: An 18F-MISO PET-MRI Study. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1210-1218.	0.8	12
79	Detection of Experimental Hepatic Tumors Using Long Circulating Superparamagnetic Particles. Investigative Radiology, 2001, 36, 15-21.	6.2	11
80	Use of high flip angle in T1-prepared FAST sequences for myocardial perfusion quantification. European Radiology, 2003, 13, 507-514.	4.5	11
81	Noninvasive Imaging Techniques in Islet Transplantation. Current Diabetes Reports, 2011, 11, 375-383.	4.2	11
82	ECG-triggered high-pitch CT for simultaneous assessment of the aorta and coronary arteries. Journal of Cardiovascular Computed Tomography, 2016, 10, 407-413.	1.3	10
83	Spatially Resolved MR-Compatible Doppler Ultrasound: Proof of Concept for Triggering of Diagnostic Quality Cardiovascular MRI for Function and Flow Quantification at 3T. IEEE Transactions on Biomedical Engineering, 2018, 65, 294-306.	4.2	10
84	Cardiopulmonary function in adolescent patients with pectus excavatum or carinatum. BMJ Open Respiratory Research, 2021, 8, e001020.	3.0	10
85	Hollow fiber bioreactor: New development for the study of contrast agent transport into hepatocytes by magnetic resonance imaging. Biotechnology and Bioengineering, 2004, 85, 656-665.	3.3	9
86	Comparative study of FAST gradient echo MRI sequences: Phantom study. Journal of Magnetic Resonance Imaging, 2004, 20, 1030-1038.	3.4	9
87	Magnetic Resonance Imaging as the Sole Radiological Assessment for Living Donor Nephrectomy. Urologia Internationalis, 2010, 84, 56-60.	1.3	9
88	The effect of the elongation of the proximal aorta on the estimation of the aortic wall distensibility. Biomechanics and Modeling in Mechanobiology, 2021, 20, 107-119.	2.8	9
89	Diffusion-Weighted MRI in the Genitourinary System. Journal of Clinical Medicine, 2022, 11, 1921.	2.4	9
90	Building an enterprise-wide PACS for all diagnostic images. International Congress Series, 2004, 1268, 279-284.	0.2	8

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91	Multivariate mathematical morphology and Bayesian classifier application to colour and medical images. , 2008, , .		8
92	Coronary artery dilatation in a child with hyperinflammatory syndrome with SARS-CoV-2-positive serology. European Heart Journal, 2020, 41, 3103-3103.	2.2	8
93	Outcome of paediatric portopulmonary hypertension in the modern management era: A case report of 6 patients. Journal of Hepatology, 2021, 74, 742-747.	3.7	8
94	Integrating content-based visual access methods into a medical case database. Studies in Health Technology and Informatics, 2003, 95, 480-5.	0.3	8
95	Proton-decoupled phosphorus-31 magnetic resonance spectroscopy in the evaluation of native and well-functioning transplanted kidneys. Academic Radiology, 1996, 3, 1030-1037.	2.5	7
96	Establishing an International Reference Image Database for Research and Development in Medical Image Processing. Methods of Information in Medicine, 2004, 43, 409-412.	1.2	7
97	Improved dynamic response assessment for intraâ€articular injected iron oxide nanoparticles. Magnetic Resonance in Medicine, 2012, 68, 1544-1552.	3.0	7
98	Low lodine Contrast Injection for CT Acquisition Prior to Transcatheter Aortic Valve Replacement: Aorta Assessment and Screening for Coronary Artery Disease. Academic Radiology, 2019, 26, e150-e160.	2.5	7
99	The role of imaging and molecular imaging in the early detection of metabolic and cardiovascular dysfunctions. International Journal of Obesity, 2010, 34, S67-S81.	3.4	6
100	Image acquisition for intravoxel incoherent motion imaging of kidneys should be triggered at the instant of maximum blood velocity: evidence obtained with simulations and in vivo experiments. Magnetic Resonance in Medicine, 2019, 81, 583-593.	3.0	6
101	Accumulation of amino-polyvinyl alcohol-coated superparamagnetic iron oxide nanoparticles in bone marrow: implications for local stromal cells. Nanomedicine, 2015, 10, 2139-2151.	3.3	5
102	Transrectal Ultrasound-Guided Prostate Biopsy for Cancer Detection: Performance of 2D-, 3D- and 3D-MRI Fusion Targeted Techniques. Urologia Internationalis, 2017, 98, 7-14.	1.3	5
103	Regression of coronary arteries aneurysms 6 months after multisystem inflammatory syndrome in children (MIS-C). European Heart Journal, 2021, 42, 2803-2803.	2.2	5
104	Hepatic Kinetics of MRI Contrast Agents in the Isolated Perfused Rat Liver. Academic Radiology, 2002, 9, S455-S456.	2. 5	4
105	Matching between regional coronary vasodilator capacity and corresponding circumferential strain in individuals with normal and increasing body weight. Journal of Nuclear Cardiology, 2012, 19, 693-703.	2.1	4
106	Manganese kinetics demonstrated double contrast in acute but not in chronic infarction in a mouse model of myocardial occlusion reperfusion. NMR in Biomedicine, 2012, 25, 489-497.	2.8	4
107	Putative pathophysiological mechanisms in recurrent hemicrania from aortic dissection: a case report. BMC Research Notes, 2015, 8, 246.	1.4	4
108	Pharmacokinetics and biodistribution study of self-assembled Gd-micelles demonstrating blood-pool contrast enhancement for MRI. International Journal of Pharmaceutics, 2019, 568, 118496.	5.2	4

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109	Extrema Temporal Chaining: A New Method for Computing the 2D-Displacement Field of the Heart from Tagged MRI. Lecture Notes in Computer Science, 2006, , 897-908.	1.3	4
110	Pitfalls in myocardial perfusion assessment with dynamic MR imaging after administration of a contrast material bolus in dogs. Academic Radiology, 1999, 6, 512-520.	2.5	3
111	High Time-Resolved Cardiac Functional Imaging Using Temporal Regularization for Small Animal on a Clinical 3T Scanner. IEEE Transactions on Biomedical Engineering, 2012, 59, 929-935.	4.2	3
112	Ultrasound-driven cardiac MRI. Physica Medica, 2020, 70, 161-168.	0.7	3
113	Noninvasive stress testing of myocardial perfusion defects: head-to-head comparison of thallium-201 SPECT to MRI perfusion. Journal of Nuclear Cardiology, 2009, 16, 549-561.	2.1	2
114	Classification of magnetic resonance images from rabbit renal perfusion. Chemometrics and Intelligent Laboratory Systems, 2009, 98, 173-181.	3.5	2
115	Applications cliniques de l'imagerie hybride TEP-IRM. Medecine Nucleaire, 2012, 36, 605-614.	0.2	2
116	Measurement of right atrial volumes: comparison of a semi-automatic algorithm of real-time 3D echocardiography with cardiac magnetic resonance imaging. International Journal of Cardiology, 2016, 202, 621-623.	1.7	2
117	Impact of Liver Diseases on HeartÂandÂLungs. JACC: Cardiovascular Imaging, 2019, 12, 2071-2075.	5.3	2
118	Epicardial fat mimicking left atrial appendage thrombus. Cardiology Journal, 2019, 26, 418-419.	1.2	2
119	Eosinophilic myocarditis, contribution of imaging modalities in the diagnosis: A case report. European Heart Journal - Case Reports, 2022, 6, ytac058.	0.6	2
120	Non-Invasive Cardiac Output Determination Using Magnetic Resonance Imaging and Thermodilution in Pulmonary Hypertension. Journal of Clinical Medicine, 2022, 11, 2717.	2.4	2
121	Magnetic Resonance Imaging to Diagnose and Predict the Outcome of Diabetic Kidney Disease—Where Do We Stand?. Kidney and Dialysis, 2022, 2, 407-418.	1.0	2
122	Imaging of islet grafts. Current Opinion in Organ Transplantation, 2007, 12, 659-663.	1.6	1
123	Histologic Confirmation of a Biochemical Recurrence After Radical Prostatectomy by Performing 3-Dimensional Transrectal Ultrasonography–guided Biopsy With Fusion to Magnetic Resonance Imaging. Urology, 2014, 84, e17-e18.	1.0	1
124	4D cardiac imaging at clinical 3.0 T provides accurate assessment of murine myocardial function and viability. Magnetic Resonance Imaging, 2017, 44, 46-54.	1.8	1
125	Dynamic Volume Assessment of Hepatocellular Carcinoma in Rat Livers Using a Clinical 3T MRI and Novel Segmentation. Journal of Investigative Surgery, 2018, 31, 44-53.	1.3	1
126	Direct Comparison of Bayesian and Fermi Deconvolution Approaches for Myocardial Blood Flow Quantification: In silico and Clinical Validations. Frontiers in Physiology, 2021, 12, 483714.	2.8	1

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127	Improved dynamic response assessment for intra-articular injected iron oxide nanoparticles. Magnetic Resonance in Medicine, 2012, 68, spcone-spcone.	3.0	0
128	Néphrocalcinose et autres calcifications du parenchyme rénal. Feuillets De Radiologie, 2015, 55, 164-184.	0.0	0
129	SP234NONINVASIVE ASSESSMENT OF FIBROSIS BY MAGNETIC RESONANCE IMAGING: VALIDATION OF A NOVEL INDEX FROM T1 MAPPING AND DIFFUSION-WEIGHTED IMAGING IN ANIMALS MODELS AND KIDNEY ALLOGRAFT RECIPIENTS. Nephrology Dialysis Transplantation, 2016, 31, i164-i164.	0.7	O
130	A 13-Year-Old Male With Diagnosed Idiopathic Pulmonary Hypertension. Chest, 2020, 158, e295-e298.	0.8	0
131	High Risk Features of an Anomalous Origin of the Right Coronary Artery. Case Reports in Cardiology, 2021, 2021, 1-4.	0.2	0
132	Use Case IV: Imaging Biomarkers in Thorax and Heart., 2017,, 253-258.		0
133	Yasui procedure. , 2016, 2016, .		O
134	Posterior wall left ventricular aneurysm repair. , 2017, 2017, .		0