

# Radovan Jirik

## 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.

43 papers	887 citations	11 h-index	29 g-index
51 ext. papers	999 ext. citations	3.2 avg, IF	3.28 L-index

#	Paper	IF	Citations
43	Effects of motion correction, sampling rate and parametric modelling in dynamic contrast enhanced MRI of the temporomandibular joint in children affected with juvenile idiopathic arthritis. <i>Magnetic Resonance Imaging</i> , <b>2021</b> , 77, 204-212	3.3	1
42	Thrombus Imaging Using 3D Printed Middle Cerebral Artery Model and Preclinical Imaging Techniques: Application to Thrombus Targeting and Thrombolytic Studies. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	1
41	Spatially regularized estimation of the tissue homogeneity model parameters in DCE-MRI using proximal minimization. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 2257-2272	4.4	1
40	Blind deconvolution estimation of an arterial input function for small animal DCE-MRI. <i>Magnetic Resonance Imaging</i> , <b>2019</b> , 62, 46-56	3.3	4
39	Iterative Methods for Fast Reconstruction of Undersampled Dynamic Contrast-Enhanced MRI Data. <i>IFMBE Proceedings</i> , <b>2019</b> , 267-271	0.2	
38	Time-Efficient Fourier Domain Evaluation of Pharmacokinetic Model in Dynamic Contrast-Enhanced Magnetic Resonance Imaging. <i>IFMBE Proceedings</i> , <b>2019</b> , 777-781	0.2	1
37	Lack of functional normalisation of tumour vessels following anti-angiogenic therapy in glioblastoma. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2018</b> , 38, 1741-1753	7.3	13
36	Semi-parametric arterial input functions for quantitative dynamic contrast enhanced magnetic resonance imaging in mice. <i>Magnetic Resonance Imaging</i> , <b>2018</b> , 46, 10-20	3.3	3
35	Contrast-enhanced ultrasonography of the pancreas shows impaired perfusion in pancreas insufficient cystic fibrosis patients. <i>BMC Medical Imaging</i> , <b>2018</b> , 18, 14	2.9	5
34	Time-Efficient Perfusion Imaging Using DCE- and DSC-MRI. <i>Measurement Science Review</i> , <b>2018</b> , 18, 262-271	2.7	2
33	Interobserver Variation of the Bolus-and-Burst Method for Pancreatic Perfusion with Dynamic - Contrast-Enhanced Ultrasound. <i>Ultrasound International Open</i> , <b>2017</b> , 3, E99-E106	2.1	2
32	Preparation and Characterisation of Highly Stable Iron Oxide Nanoparticles for Magnetic Resonance Imaging. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-8	3.2	16
31	EGFRvIII mutations can emerge as late and heterogenous events in glioblastoma development and promote angiogenesis through Src activation. <i>Neuro-Oncology</i> , <b>2016</b> , 18, 1644-1655	1	53
30	Distributed capillary adiabatic tissue homogeneity model in parametric multi-channel blind AIF estimation using DCE-MRI. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 75, 1355-65	4.4	9
29	Acceleration of Perfusion MRI Using Locally Low-Rank Plus Sparse Model. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 514-521	0.9	0
28	Using Single-Channel Blind Deconvolution to Choose the Most Realistic Pharmacokinetic Model in Dynamic Contrast-Enhanced MR Imaging. <i>Applied Magnetic Resonance</i> , <b>2015</b> , 46, 643-659	0.8	5
27	Absolute ultrasound perfusion parameter quantification of a tissue-mimicking phantom using bolus tracking [Correspondence]. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2015</b> , 62, 983-7	3.2	3

26	Semi-automatic motion compensation of contrast-enhanced ultrasound images from abdominal organs for perfusion analysis. <i>Computers in Biology and Medicine</i> , <b>2015</b> , 63, 229-37	7	8
25	Encapsulation of VEGF into magnetic PLGA nanocapsules for potential local delivery and bioactivity in human brain endothelial cells. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 2538-2544	7.3	24
24	Blind deconvolution in dynamic contrast-enhanced MRI and ultrasound. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 4276-9	0.9	4
23	The precision of DCE-MRI using the tissue homogeneity model with continuous formulation of the perfusion parameters. <i>Magnetic Resonance Imaging</i> , <b>2014</b> , 32, 505-13	3.3	6
22	Ultrasound perfusion analysis combining bolus-tracking and burst-replenishment. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2013</b> , 60, 310-9	3.2	21
21	Quantitative contrast-enhanced ultrasound comparison between inflammatory and fibrotic lesions in patients with Crohn's disease. <i>Ultrasound in Medicine and Biology</i> , <b>2013</b> , 39, 1197-206	3.5	62
20	Comparison and evaluation of indicator dilution models for bolus of ultrasound contrast agents. <i>Physiological Measurement</i> , <b>2013</b> , 34, 151-62	2.9	11
19	Single-channel blind estimation of arterial input function and tissue impulse response in DCE-MRI. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 1012-21	5	27
18	Sound-speed image reconstruction in sparse-aperture 3-D ultrasound transmission tomography. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2012</b> , 59, 254-64	3.2	40
17	Parametric ultrasound perfusion analysis combining bolus tracking and replenishment <b>2012</b> ,		2
16	<b>2012</b> ,		3
15	Anti-VEGF treatment reduces blood supply and increases tumor cell invasion in glioblastoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 3749-54	11.5	483
14	Registration of ultrasound contrast images for perfusion analysis <b>2009</b> ,		3
13	3D regularized speed-map reconstruction in ultrasound transmission tomography <b>2009</b> ,		1
12	Two-dimensional blind Bayesian deconvolution of medical ultrasound images. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2008</b> , 55, 2140-53	3.2	33
11	Modified time-of-flight based calibration approach for ultrasonic computed tomography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 2181-4	0.9	4
10	Calibrating an ultrasonic computed tomography system using a time-of-flight based positioning algorithm. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 2146-9		4
9	Semiautomatic detection and evaluation of autofluorescent areas in retinal images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 3327-30		1

8	Simulation checks in ultrasonic computed tomography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 731-4		2
7	HOMOMORPHIC DECONVOLUTION OF ULTRASONIC IMAGES <b>2007</b> , 559-590		
6	Comparison of wave-equation versus measurement-processing transducer calibration for ultrasonic transmission tomography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 2754-7		1
5	High-resolution ultrasonic imaging using two-dimensional homomorphic filtering. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2006</b> , 53, 1440-1448	3.2	17
4	Elastic registration for auto-fluorescence image averaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 1948-51		3
3	High-resolution ultrasonic imaging using fast two-dimensional homomorphic filtering. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2006</b> , 53, 1440-8	3.2	2
2	Ultrasonic attenuation tomography based on log-spectrum analysis <b>2005</b> , 5750, 305		5
1	Superresolution of Ultrasound Images Using the First and Second Harmonic Signal. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2004</b> , 51, 163-175	3.2	