Radovan Jirik

List of Publications by Citations

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	Anti-VEGF treatment reduces blood supply and increases tumor cell invasion in glioblastoma. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 3749-54	11.5	483
42	Quantitative contrast-enhanced ultrasound comparison between inflammatory and fibrotic lesions in patients with Crohnas disease. *Ultrasound in Medicine and Biology*, **2013**, 39, 1197-206	3.5	62
41	EGFRvIII mutations can emerge as late and heterogenous events in glioblastoma development and promote angiogenesis through Src activation. *Neuro-Oncology*, **2016**, 18, 1644-1655	1	53
40	Sound-speed image reconstruction in sparse-aperture 3-D ultrasound transmission tomography. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 254-64	3.2	40
39	Two-dimensional blind Bayesian deconvolution of medical ultrasound images. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2008**, 55, 2140-53	3.2	33
38	Single-channel blind estimation of arterial input function and tissue impulse response in DCE-MRI. *IEEE Transactions on Biomedical Engineering*, **2012**, 59, 1012-21	5	27
37	Encapsulation of VEGF into magnetic PLGA nanocapsules for potential local delivery and bioactivity in human brain endothelial cells. *Journal of Materials Chemistry B*, **2015**, 3, 2538-2544	7.3	24
36	Ultrasound perfusion analysis combining bolus-tracking and burst-replenishment. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2013**, 60, 310-9	3.2	21
35	High-resolution ultrasonic imaging using two-dimensional homomorphic filtering. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2006**, 53, 1440-1448	3.2	17
34	Preparation and Characterisation of Highly Stable Iron Oxide Nanoparticles for Magnetic Resonance Imaging. *Journal of Nanomaterials*, **2017**, 2017, 1-8	3.2	16
33	Lack of functional normalisation of tumour vessels following anti-angiogenic therapy in glioblastoma. *Journal of Cerebral Blood Flow and Metabolism*, **2018**, 38, 1741-1753	7.3	13
32	Comparison and evaluation of indicator dilution models for bolus of ultrasound contrast agents. *Physiological Measurement*, **2013**, 34, 151-62	2.9	11
31	Distributed capillary adiabatic tissue homogeneity model in parametric multi-channel blind AIF estimation using DCE-MRI. *Magnetic Resonance in Medicine*, **2016**, 75, 1355-65	4.4	9
30	Semi-automatic motion compensation of contrast-enhanced ultrasound images from abdominal organs for perfusion analysis. *Computers in Biology and Medicine*, **2015**, 63, 229-37	7	8
29	The precision of DCE-MRI using the tissue homogeneity model with continuous formulation of the perfusion parameters. *Magnetic Resonance Imaging*, **2014**, 32, 505-13	3.3	6
28	Contrast-enhanced ultrasonography of the pancreas shows impaired perfusion in pancreas insufficient cystic fibrosis patients. *BMC Medical Imaging*, **2018**, 18, 14	2.9	5
27	Using Single-Channel Blind Deconvolution to Choose the Most Realistic Pharmacokinetic Model in Dynamic Contrast-Enhanced MR Imaging. *Applied Magnetic Resonance*, **2015**, 46, 643-659	0.8	5

26	Ultrasonic attenuation tomography based on log-spectrum analysis **2005**, 5750, 305		5
25	Blind deconvolution estimation of an arterial input function for small animal DCE-MRI. *Magnetic Resonance Imaging*, **2019**, 62, 46-56	3.3	4
24	Blind deconvolution in dynamic contrast-enhanced MRI and ultrasound. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 4276-9	0.9	4
23	Modified time-of-flight based calibration approach for ultrasonic computed tomography. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2008**, 2008, 2181-4	0.9	4
22	Calibrating an ultrasonic computed tomography system using a time-of-flight based positioning algorithm. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 2146-9		4
21	Semi-parametric arterial input functions for quantitative dynamic contrast enhanced magnetic resonance imaging in mice. *Magnetic Resonance Imaging*, **2018**, 46, 10-20	3.3	3
20	Absolute ultrasound perfusion parameter quantification of a tissue-mimicking phantom using bolus tracking [Correspondence]. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2015**, 62, 983-7	3.2	3
19	Registration of ultrasound contrast images for perfusion analysis **2009**,		3
18	**2012**,		3
17	Elastic registration for auto-fluorescence image averaging. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, 2006, 1948-51		3
16	Interobserver Variation of the Bolus-and-Burst Method for Pancreatic Perfusion with Dynamic - Contrast-Enhanced Ultrasound. *Ultrasound International Open*, **2017**, 3, E99-E106	2.1	2
15	Parametric ultrasound perfusion analysis combining bolus tracking and replenishment **2012**,		2
14	Simulation checks in ultrasonic computed tomography. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 731-4		2
13	Time-Efficient Perfusion Imaging Using DCE- and DSC-MRI. *Measurement Science Review*, **2018**, 18, 262-271	1.7	2
12	High-resolution ultrasonic imaging using fast two-dimensional homomorphic filtering. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2006**, 53, 1440-8	3.2	2
11	Thrombus Imaging Using 3D Printed Middle Cerebral Artery Model and Preclinical Imaging Techniques: Application to Thrombus Targeting and Thrombolytic Studies. *Pharmaceutics*, **2020**, 12,	6.4	1
10	Spatially regularized estimation of the tissue homogeneity model parameters in DCE-MRI using proximal minimization. *Magnetic Resonance in Medicine*, **2019**, 82, 2257-2272	4.4	1
9	3D regularized speed-map reconstruction in ultrasound transmission tomography **2009**,		1

8	Comparison of wave-equation versus measurement-processing transducer calibration for ultrasonic transmission tomography. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, 2006, 2754-7		1
7	Semiautomatic detection and evaluation of autofluorescent areas in retinal images. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 3327-30		1
6	Time-Efficient Fourier Domain Evaluation of Pharmacokinetic Model in Dynamic Contrast-Enhanced Magnetic Resonance Imaging. *IFMBE Proceedings*, **2019**, 777-781	0.2	1
5	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. *Magnetic Resonance Imaging*, **2021**, 77, 204-212	3.3	1
4	Acceleration of Perfusion MRI Using Locally Low-Rank Plus Sparse Model. *Lecture Notes in Computer Science*, **2015**, 514-521	0.9	0
3	HOMOMORPHIC DECONVOLUTION OF ULTRASONIC IMAGES **2007**, 559-590		
2	Iterative Methods for Fast Reconstruction of Undersampled Dynamic Contrast-Enhanced MRI Data. *IFMBE Proceedings*, **2019**, 267-271	0.2	
1	Superresolution of Ultrasound Images Using the First and Second Harmonic Signal. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2004**, 51, 163-175	3.2	