

Radovan Jirik

List of Publications by Year in descending order

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49
papers

1,093
citations

687363

13
h-index

414414

32
g-index

51
all docs

51
docs citations

51
times ranked

2049
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 3749-3754.	7.1	552
2	EGFRvIII mutations can emerge as late and heterogenous events in glioblastoma development and promote angiogenesis through Src activation. Neuro-Oncology, 2016, 18, 1644-1655.	1.2	78
3	Quantitative Contrast-Enhanced Ultrasound Comparison Between Inflammatory and Fibrotic Lesions in Patients with Crohn's Disease. Ultrasound in Medicine and Biology, 2013, 39, 1197-1206.	1.5	75
4	Sound-speed image reconstruction in sparse-aperture 3-D ultrasound transmission tomography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 254-264.	3.0	61
5	Two-dimensional blind Bayesian deconvolution of medical ultrasound images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 2140-2153.	3.0	43
6	Single-Channel Blind Estimation of Arterial Input Function and Tissue Impulse Response in DCE-MRI. IEEE Transactions on Biomedical Engineering, 2012, 59, 1012-1021.	4.2	29
7	Ultrasound perfusion analysis combining bolus-tracking and burst-replenishment. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 310-319.	3.0	29
8	High-resolution ultrasonic imaging using two-dimensional homomorphic filtering. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1440-1448.	3.0	26
9	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.	5.8	25
10	Preparation and Characterisation of Highly Stable Iron Oxide Nanoparticles for Magnetic Resonance Imaging. Journal of Nanomaterials, 2017, 2017, 1-8.	2.7	22
11	Lack of functional normalisation of tumour vessels following anti-angiogenic therapy in glioblastoma. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1741-1753.	4.3	15
12	Comparison and evaluation of indicator dilution models for bolus of ultrasound contrast agents. Physiological Measurement, 2013, 34, 151-162.	2.1	14
13	Distributed capillary adiabatic tissue homogeneity model in parametric multi-channel blind AIF estimation using DCE-MRI. Magnetic Resonance in Medicine, 2016, 75, 1355-1365.	3.0	13
14	Semi-automatic motion compensation of contrast-enhanced ultrasound images from abdominal organs for perfusion analysis. Computers in Biology and Medicine, 2015, 63, 229-237.	7.0	11
15	Blind deconvolution estimation of an arterial input function for small animal DCE-MRI. Magnetic Resonance Imaging, 2019, 62, 46-56.	1.8	9
16	Ultrasonic attenuation tomography based on log-spectrum analysis. , 2005, 5750, 305.		8
17	The precision of DCE-MRI using the tissue homogeneity model with continuous formulation of the perfusion parameters. Magnetic Resonance Imaging, 2014, 32, 505-513.	1.8	8
18	Parametric ultrasound perfusion analysis combining bolus tracking and replenishment. , 2012, , .		6

#	ARTICLE	IF	CITATIONS
19	Blind deconvolution in dynamic contrast-enhanced MRI and ultrasound. , 2014, 2014, 4276-9.		6
20	Elastic Registration for Auto-fluorescence Image Averaging. , 2006, 2006, 1948-51.		5
21	Modified time-of-flight based calibration approach for ultrasonic computed tomography. , 2008, 2008, 2181-4.		5
22	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.	1.2	5
23	Absolute ultrasound perfusion parameter quantification of a tissue-mimicking phantom using bolus tracking [Correspondence]. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 983-987.	3.0	5
24	Contrast-enhanced ultrasonography of the pancreas shows impaired perfusion in pancreas insufficient cystic fibrosis patients. BMC Medical Imaging, 2018, 18, 14.	2.7	5
25	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.	0.5	4
26	Nakagami model of scattering in ultrasound contrast media. , 2012, , .		4
27	Registration of ultrasound contrast images for perfusion analysis. , 2009, , .		3
28	Interobserver Variation of the Bolus-and-Burst Method for Pancreatic Perfusion with Dynamic “ Contrast-Enhanced Ultrasound. Ultrasound International Open, 2017, 03, E99-E106.	0.6	3
29	Semi-parametric arterial input functions for quantitative dynamic contrast enhanced magnetic resonance imaging in mice. Magnetic Resonance Imaging, 2018, 46, 10-20.	1.8	3
30	Time-Efficient Perfusion Imaging Using DCE- and DSC-MRI. Measurement Science Review, 2018, 18, 262-271.	1.0	3
31	Comparison of Wave-Equation Versus Measurement-Processing Transducer Calibration for Ultrasonic Transmission Tomography. , 2006, 2006, 2754-7.		2
32	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.	0.5	2
33	Simulation Checks in Ultrasonic Computed Tomography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 731-4.	0.5	2
34	Acceleration of Perfusion MRI Using Locally Low-Rank Plus Sparse Model. Lecture Notes in Computer Science, 2015, , 514-521.	1.3	2
35	Spatially regularized estimation of the tissue homogeneity model parameters in DCE-MRI using proximal minimization. Magnetic Resonance in Medicine, 2019, 82, 2257-2272.	3.0	2
36	High-resolution ultrasonic imaging using fast two-dimensional homomorphic filtering. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1440-8.	3.0	2

#	ARTICLE	IF	CITATIONS
37	3D regularized speed-map reconstruction in ultrasound transmission tomography. , 2009, , .		1
38	AI-10 * DISTINCT EGFR SIGNALING IN GLIOBLASTOMA: WILD-TYPE EGFR PROMOTES INVASION WHILE EGFRvIII DRIVES PROTOTYPICAL SFK c-SRC ACTIVATION TO FOSTER ANGIOGENESIS. Neuro-Oncology, 2014, 16, v3-v3.	1.2	1
39	Evaluation of accuracy of bolus and burst method for quantitative ultrasound perfusion analysis with various arterial input function models. , 2015, , .		1
40	Thrombus Imaging Using 3D Printed Middle Cerebral Artery Model and Preclinical Imaging Techniques: Application to Thrombus Targeting and Thrombolytic Studies. Pharmaceutics, 2020, 12, 1207.	4.5	1
41	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.	1.8	1
42	Quantitative myocardial perfusion analysis with contrast-enhanced ultrasound bolus tracking - preliminary animal results. , 2013, , .		0
43	Rician inverse Gaussian model of scattering in ultrasound contrast media. , 2013, , .		0
44	Comparison of arterial input function models for small-animal ultrasound perfusion imaging. , 2016, , .		0
45	Dynamic magnetic resonance imaging using compressed sensing with multi-scale low rank penalty. , 2017, , .		0
46	HOMOMORPHIC DECONVOLUTION OF ULTRASONIC IMAGES. , 2007, , 559-590.		0
47	Elastic Registration for Auto-fluorescence Image Averaging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
48	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, , .	0.5	0
49	Superresolution of Ultrasound Images Using the First and Second Harmonic Signal. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 163-175.	3.0	0