Alexey V Dimov

List of Publications by Year
in descending order

27 papers	789 citations	687363 13 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	985 citing authors

#	Article	IF	Citations
1	Clinical quantitative susceptibility mapping (QSM): Biometal imaging and its emerging roles in patient care. Journal of Magnetic Resonance Imaging, 2017, 46, 951-971.	3.4	199
2	Simultaneous Phase Unwrapping and Removal of Chemical Shift (SPURS) Using Graph Cuts: Application in Quantitative Susceptibility Mapping. IEEE Transactions on Medical Imaging, 2015, 34, 531-540.	8.9	81
3	The clinical utility of QSM: disease diagnosis, medical management, and surgical planning. NMR in Biomedicine, 2017, 30, e3668.	2.8	78
4	Bone quantitative susceptibility mapping using a chemical species–specific signal model with ultrashort and conventional echo data. Magnetic Resonance in Medicine, 2018, 79, 121-128.	3.0	58
5	Joint estimation of chemical shift and quantitative susceptibility mapping (chemical QSM). Magnetic Resonance in Medicine, 2015, 73, 2100-2110.	3.0	53
6	Quantitative Susceptibility Mapping (QSM) Algorithms: Mathematical Rationale and Computational Implementations. IEEE Transactions on Biomedical Engineering, 2017, 64, 2531-2545.	4.2	49
7	QSM is an imaging biomarker for chronic glial activation in multiple sclerosis lesions. Annals of Clinical and Translational Neurology, 2021, 8, 877-886.	3.7	37
8	Utilization of Quantitative Susceptibility Mapping for Direct Targeting of the Subthalamic Nucleus During Deep Brain Stimulation Surgery. Operative Neurosurgery, 2018, 14, 412-419.	0.8	32
9	Dimethyl Fumarate Reduces Inflammation in Chronic Active Multiple Sclerosis Lesions. Neurology: Neuroimmunology and NeuroInflammation, 2022, 9, .	6.0	24
10	Cardiac quantitative susceptibility mapping (QSM) for heart chamber oxygenation. Magnetic Resonance in Medicine, 2018, 79, 1545-1552.	3.0	23
11	High-resolution QSM for functional and structural depiction of subthalamic nuclei in DBS presurgical mapping. Journal of Neurosurgery, 2019, 131, 360-367.	1.6	22
12	In Situ and Real-Time Studies, via Synchrotron X-ray Scattering, of the Orientational Order of Cellulose Nanocrystals during Solution Shearing. Langmuir, 2018, 34, 5263-5272.	3.5	19
13	Quantitative evaluation of brain iron accumulation in different stages of Parkinson's disease. Journal of Neuroimaging, 2022, 32, 363-371.	2.0	16
14	Iron concentration linked to structural connectivity in the subthalamic nucleus: implications for deep brain stimulation. Journal of Neurosurgery, 2020, 132, 197-204.	1.6	11
15	Common transcriptome, plasma molecules, and imaging signatures in the aging brain and a Mendelian neurovascular disease, cerebral cavernous malformation. GeroScience, 2020, 42, 1351-1363.	4.6	11
16	QQ–NET – using deep learning to solve quantitative susceptibility mapping and quantitative blood oxygen level dependent magnitude (QSM+qBOLD or QQ) based oxygen extraction fraction (OEF) mapping. Magnetic Resonance in Medicine, 2022, 87, 1583-1594.	3.0	11
17	Clinical Integration of Quantitative Susceptibility Mapping Magnetic Resonance Imaging into Neurosurgical Practice. World Neurosurgery, 2019, 122, e10-e19.	1.3	10
18	Phantom validation of quantitative susceptibility and dynamic contrast–enhanced permeability MR sequences across instruments and sites. Journal of Magnetic Resonance Imaging, 2020, 51, 1192-1199.	3.4	10

#	Article	IF	Citations
19	Susceptibility source separation from gradient echo data using magnitude decay modeling. Journal of Neuroimaging, 2022, 32, 852-859.	2.0	9
20	Assessment of histological characteristics, imaging markers, and rt-PA susceptibility of ex vivo venous thrombi. Scientific Reports, 2021, 11, 22805.	3.3	8
21	Global cerebrospinal fluid as a zero-reference regularization for brain quantitative susceptibility mapping. Journal of Neuroimaging, 2022, 32, 141-147.	2.0	7
22	Magnetic Susceptibility Source Separation Solely from Gradient Echo Data: Histological Validation. Tomography, 2022, 8, 1544-1551.	1.8	7
23	Primal-dual and forward gradient implementation for quantitative susceptibility mapping. Magnetic Resonance in Medicine, 2017, 78, 2416-2427.	3.0	5
24	Influence of simultaneous pressor and vasodilatory agents on the evolution of infarct growth in experimental acute middle cerebral artery occlusion. Journal of NeuroInterventional Surgery, 2021, 13, 741-745.	3.3	4
25	QSM in canine model of acute cerebral ischemia: A pilot study. Magnetic Resonance in Medicine, 2021, 85, 1602-1610.	3.0	4
26	Letter: Commentary: Utilization of Quantitative Susceptibility Mapping for Direct Targeting of the Subthalamic Nucleus During Deep Brain Stimulation Surgery. Operative Neurosurgery, 2018, 15, 44-44.	0.8	1
27	Joint estimation of chemical shift and quantitative susceptibility mapping (chemical QSM). Magnetic Resonance in Medicine, 2015, 73, spcone-spcone.	3.0	0