

Alexey V Dimov

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

789
citations

777949

13
h-index

620720

26
g-index

27
all docs

27
docs citations

27
times ranked

1090
citing authors

#	ARTICLE	IF	CITATIONS
1	Global cerebrospinal fluid as a zero-reference regularization for brain quantitative susceptibility mapping. <i>Journal of Neuroimaging</i> , 2022, 32, 141-147.	1.0	7
2	QQ-UNET 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. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1583-1594.	1.9	11
3	Dimethyl Fumarate Reduces Inflammation in Chronic Active Multiple Sclerosis Lesions. <i>Neurology: Neuroimmunology and Neuroinflammation</i> , 2022, 9, .	3.1	24
4	Quantitative evaluation of brain iron accumulation in different stages of Parkinson's disease. <i>Journal of Neuroimaging</i> , 2022, 32, 363-371.	1.0	16
5	Susceptibility source separation from gradient echo data using magnitude decay modeling. <i>Journal of Neuroimaging</i> , 2022, 32, 852-859.	1.0	9
6	Magnetic Susceptibility Source Separation Solely from Gradient Echo Data: Histological Validation. <i>Tomography</i> , 2022, 8, 1544-1551.	0.8	7
7	Influence of simultaneous pressor and vasodilatory agents on the evolution of infarct growth in experimental acute middle cerebral artery occlusion. <i>Journal of NeuroInterventional Surgery</i> , 2021, 13, 741-745.	2.0	4
8	QSM in canine model of acute cerebral ischemia: A pilot study. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1602-1610.	1.9	4
9	QSM is an imaging biomarker for chronic glial activation in multiple sclerosis lesions. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 877-886.	1.7	37
10	Assessment of histological characteristics, imaging markers, and rt-PA susceptibility of ex vivo venous thrombi. <i>Scientific Reports</i> , 2021, 11, 22805.	1.6	8
11	Iron concentration linked to structural connectivity in the subthalamic nucleus: implications for deep brain stimulation. <i>Journal of Neurosurgery</i> , 2020, 132, 197-204.	0.9	11
12	Phantom validation of quantitative susceptibility and dynamic contrast-enhanced permeability MR sequences across instruments and sites. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1192-1199.	1.9	10
13	Common transcriptome, plasma molecules, and imaging signatures in the aging brain and a Mendelian neurovascular disease, cerebral cavernous malformation. <i>GeroScience</i> , 2020, 42, 1351-1363.	2.1	11
14	High-resolution QSM for functional and structural depiction of subthalamic nuclei in DBS presurgical mapping. <i>Journal of Neurosurgery</i> , 2019, 131, 360-367.	0.9	22
15	Clinical Integration of Quantitative Susceptibility Mapping Magnetic Resonance Imaging into Neurosurgical Practice. <i>World Neurosurgery</i> , 2019, 122, e10-e19.	0.7	10
16	In Situ and Real-Time Studies, via Synchrotron X-ray Scattering, of the Orientational Order of Cellulose Nanocrystals during Solution Shearing. <i>Langmuir</i> , 2018, 34, 5263-5272.	1.6	19
17	Bone quantitative susceptibility mapping using a chemical species-specific signal model with ultrashort and conventional echo data. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 121-128.	1.9	58
18	Utilization of Quantitative Susceptibility Mapping for Direct Targeting of the Subthalamic Nucleus During Deep Brain Stimulation Surgery. <i>Operative Neurosurgery</i> , 2018, 14, 412-419.	0.4	32

#	ARTICLE	IF	CITATIONS
19	Cardiac quantitative susceptibility mapping (QSM) for heart chamber oxygenation. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1545-1552.	1.9	23
20	Letter: Commentary: Utilization of Quantitative Susceptibility Mapping for Direct Targeting of the Subthalamic Nucleus During Deep Brain Stimulation Surgery. <i>Operative Neurosurgery</i> , 2018, 15, 44-44.	0.4	1
21	Primal-dual and forward gradient implementation for quantitative susceptibility mapping. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2416-2427.	1.9	5
22	The clinical utility of QSM: disease diagnosis, medical management, and surgical planning. <i>NMR in Biomedicine</i> , 2017, 30, e3668.	1.6	78
23	Clinical quantitative susceptibility mapping (QSM): Biometal imaging and its emerging roles in patient care. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 951-971.	1.9	199
24	Quantitative Susceptibility Mapping (QSM) Algorithms: Mathematical Rationale and Computational Implementations. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2531-2545.	2.5	49
25	Joint estimation of chemical shift and quantitative susceptibility mapping (chemical QSM). <i>Magnetic Resonance in Medicine</i> , 2015, 73, spcone-spcone.	1.9	0
26	Joint estimation of chemical shift and quantitative susceptibility mapping (chemical QSM). <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2100-2110.	1.9	53
27	Simultaneous Phase Unwrapping and Removal of Chemical Shift (SPURS) Using Graph Cuts: Application in Quantitative Susceptibility Mapping. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 531-540.	5.4	81