

Ivan I Maximov

List of Publications by Year in descending order

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42
papers

1,139
citations

430754

18
h-index

477173

29
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55
all docs

55
docs citations

55
times ranked

1451
citing authors

#	ARTICLE	IF	CITATIONS
1	White matter microstructure across the adult lifespan: A mixed longitudinal and cross-sectional study using advanced diffusion models and brain-age prediction. <i>NeuroImage</i> , 2021, 224, 117441.	2.1	122
2	Optimal control design of NMR and dynamic nuclear polarization experiments using monotonically convergent algorithms. <i>Journal of Chemical Physics</i> , 2008, 128, 184505.	1.2	81
3	Towards an optimised processing pipeline for diffusion magnetic resonance imaging data: Effects of artefact corrections on diffusion metrics and their age associations in UK Biobank. <i>Human Brain Mapping</i> , 2019, 40, 4146-4162.	1.9	64
4	Fast numerical design of spatial-selective rf pulses in MRI using Krotov and quasi-Newton based optimal control methods. <i>Journal of Chemical Physics</i> , 2012, 137, 054203.	1.2	52
5	“Early to bed, early to rise” Diffusion tensor imaging identifies chronotype-specificity. <i>NeuroImage</i> , 2014, 84, 428-434.	2.1	48
6	Diffusion kurtosis metrics as biomarkers of microstructural development: A comparative study of a group of children and a group of adults. <i>NeuroImage</i> , 2017, 144, 12-22.	2.1	47
7	Women's brain aging: Effects of sex hormone exposure, pregnancies, and genetic risk for Alzheimer's disease. <i>Human Brain Mapping</i> , 2020, 41, 5141-5150.	1.9	46
8	Spatially variable Rician noise in magnetic resonance imaging. <i>Medical Image Analysis</i> , 2012, 16, 536-548.	7.0	42
9	Cardiometabolic risk factors associated with brain age and accelerated brain ageing. <i>Human Brain Mapping</i> , 2022, 43, 700-720.	1.9	42
10	A smoothing monotonic convergent optimal control algorithm for nuclear magnetic resonance pulse sequence design. <i>Journal of Chemical Physics</i> , 2010, 132, 084107.	1.2	36
11	Differentiation of glioma malignancy grade using diffusion MRI. <i>Physica Medica</i> , 2017, 40, 24-32.	0.4	36
12	Influence of Noise Correction on Intra- and Inter-Subject Variability of Quantitative Metrics in Diffusion Kurtosis Imaging. <i>PLoS ONE</i> , 2014, 9, e94531.	1.1	34
13	Brain Age Prediction Reveals Aberrant Brain White Matter in Schizophrenia and Bipolar Disorder: A Multisample Diffusion Tensor Imaging Study. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 1095-1103.	1.1	28
14	Evidence for wakefulness-related changes to extracellular space in human brain white matter from diffusion-weighted MRI. <i>NeuroImage</i> , 2020, 212, 116682.	2.1	27
15	Sleep and sleep deprivation differentially alter white matter microstructure: A mixed model design utilising advanced diffusion modelling. <i>NeuroImage</i> , 2021, 226, 117540.	2.1	26
16	A history of previous childbirths is linked to women's white matter brain age in midlife and older age. <i>Human Brain Mapping</i> , 2021, 42, 4372-4386.	1.9	24
17	Supercomputer analysis of one-dimensional multiple-quantum dynamics of nuclear spins in solids. <i>Chemical Physics Letters</i> , 2001, 341, 144-152.	1.2	23
18	Statistical Instability of TBSS Analysis Based on DTI Fitting Algorithm. <i>Journal of Neuroimaging</i> , 2015, 25, 883-891.	1.0	23

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19	Adipose tissue distribution from body MRI is associated with cross-sectional and longitudinal brain age in adults. <i>NeuroImage: Clinical</i> , 2022, 33, 102949.	1.4	22
20	Dynamic nuclear polarization and optimal control spatial-selective ¹³ C MRI and MRS. <i>Journal of Magnetic Resonance</i> , 2013, 227, 57-61.	1.2	21
21	Robust tensor estimation in diffusion tensor imaging. <i>Journal of Magnetic Resonance</i> , 2011, 213, 136-144.	1.2	19
22	Chronotype differences in cortical thickness: grey matter reflects when you go to bed. <i>Brain Structure and Function</i> , 2018, 223, 3411-3421.	1.2	18
23	Fast quality control method for derived diffusion metrics (YTRIUM) in big data analysis: U.K. Biobank 18,608 example. <i>Human Brain Mapping</i> , 2021, 42, 3141-3155.	1.9	18
24	Multiple Quantum Dynamics in Linear Chains and Rings of Nuclear Spins in Solids at Low Temperatures. <i>Journal of Magnetic Resonance</i> , 2002, 157, 106-113.	1.2	17
25	Real-time 2D spatially selective MRI experiments: Comparative analysis of optimal control design methods. <i>Journal of Magnetic Resonance</i> , 2015, 254, 110-120.	1.2	17
26	Multisite reproducibility and test-retest reliability of the T1w/T2w-ratio: A comparison of processing methods. <i>NeuroImage</i> , 2021, 245, 118709.	2.1	17
27	Comparative analysis of isotropic diffusion weighted imaging sequences. <i>Journal of Magnetic Resonance</i> , 2017, 275, 137-147.	1.2	16
28	Application of the limited-memory quasi-Newton algorithm for multi-dimensional, large flip-angle RF pulses at 7T. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 29-39.	1.1	16
29	Sex- and age-specific associations between cardiometabolic risk and white matter brain age in the UK Biobank cohort. <i>Human Brain Mapping</i> , 2022, 43, 3759-3774.	1.9	16
30	Anisotropic diffusion phantoms based on microcapillaries. <i>Journal of Magnetic Resonance</i> , 2017, 279, 1-10.	1.2	15
31	Line shapes of multiple quantum NMR coherences in one-dimensional quantum spin chains in solids. <i>Journal of Magnetic Resonance</i> , 2004, 171, 37-42.	1.2	14
32	Feasibility of generalised diffusion kurtosis imaging approach for brain glioma grading. <i>Neuroradiology</i> , 2021, 63, 1241-1251.	1.1	12
33	Validation of DWI pre-processing procedures for reliable differentiation between human brain gliomas. <i>Zeitschrift Fur Medizinische Physik</i> , 2018, 28, 14-24.	0.6	10
34	Using Structural and Functional Brain Imaging to Investigate Responses to Acute Thermal Pain. <i>Journal of Pain</i> , 2016, 17, 836-844.	0.7	9
35	Feasibility of Non-Gaussian Diffusion Metrics in Chronic Disorders of Consciousness. <i>Brain Sciences</i> , 2019, 9, 123.	1.1	9
36	Isotropically weighted intravoxel incoherent motion brain imaging at 7T. <i>Magnetic Resonance Imaging</i> , 2019, 57, 124-132.	1.0	9

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37	Probing Surface-to-Volume Ratio of an Anisotropic Medium by Diffusion NMR with General Gradient Encoding. IEEE Transactions on Medical Imaging, 2019, 38, 2507-2522.	5.4	7
38	Complex patterns of non-Gaussian diffusion in artificial anisotropic tissue models. Microporous and Mesoporous Materials, 2013, 178, 44-47.	2.2	6
39	Genetic variation in the G72 gene is associated with increased frontotemporal fiber tract integrity. European Archives of Psychiatry and Clinical Neuroscience, 2015, 265, 291-301.	1.8	5
40	Microstructure-informed slow diffusion tractography in humans enhances visualisation of fibre pathways. Magnetic Resonance Imaging, 2018, 45, 7-17.	1.0	4
41	White Matter Matters: Unraveling Violence in Psychosis and Psychopathy. Schizophrenia Bulletin Open, 2021, 2, .	0.9	4
42	Evidence for widespread alterations in cortical microstructure after 32%h of sleep deprivation. Translational Psychiatry, 2022, 12, 161.	2.4	1