

Filip Szczepankiewicz

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,401
citations

279798

23
h-index

223800

46
g-index

57
all docs

57
docs citations

57
times ranked

1659
citing authors

#	ARTICLE	IF	CITATIONS
1	The association of matrix metalloproteinase 9 (MMP9) with hippocampal volume in schizophrenia: a preliminary MRI study. <i>Neuropsychopharmacology</i> , 2022, 47, 524-530.	5.4	10
2	Clinical experience of tensor-valued diffusion encoding for microstructure imaging by diffusional variance decomposition in patients with breast cancer. <i>Quantitative Imaging in Medicine and Surgery</i> , 2022, 12, 2002-2017.	2.0	6
3	Histogram analysis of tensor-valued diffusion MRI in meningiomas: Relation to consistency, histological grade and type. <i>NeuroImage: Clinical</i> , 2022, 33, 102912.	2.7	11
4	Quantification of Tissue Microstructure Using Tensor-Valued Diffusion Encoding: Brain and Body. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	2
5	Separating Glioma Hyperintensities From White Matter by Diffusion-Weighted Imaging With Spherical Tensor Encoding. <i>Frontiers in Neuroscience</i> , 2022, 16, 842242.	2.8	0
6	Stay on the Beat With Tensor-Valued Encoding: Time-Dependent Diffusion and Cell Size Estimation in ex vivo Heart. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	3
7	<scp>MR</scp> Fingerprinting with \hat{b} -Tensor Encoding for Simultaneous Quantification of Relaxation and Diffusion in a Single Scan. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 2043-2057.	3.0	11
8	Computing and visualising intra-voxel orientation-specific relaxation diffusion features in the human brain. <i>Human Brain Mapping</i> , 2021, 42, 310-328.	3.6	35
9	Motion-compensated gradient waveforms for tensor-valued diffusion encoding by constrained numerical optimization. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2117-2126.	3.0	23
10	Gradient waveform design for tensor-valued encoding in diffusion MRI. <i>Journal of Neuroscience Methods</i> , 2021, 348, 109007.	2.5	44
11	Probing tissue microstructure by diffusion skewness tensor imaging. <i>Scientific Reports</i> , 2021, 11, 135.	3.3	6
12	Emotional Awareness in Schizophrenia Is Associated With Gray Matter Volume of Right Precuneus. <i>Frontiers in Psychiatry</i> , 2021, 12, 601742.	2.6	6
13	Glioma grading, molecular feature classification, and microstructural characterization using MR diffusional variance decomposition (DIVIDE) imaging. <i>European Radiology</i> , 2021, 31, 8197-8207.	4.5	12
14	A Pilot Study of Multidimensional Diffusion MRI for Assessment of Tissue Heterogeneity in Prostate Cancer. <i>Investigative Radiology</i> , 2021, 56, 845-853.	6.2	15
15	Mapping prostatic microscopic anisotropy using linear and spherical \hat{b} -tensor encoding: A preliminary study. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2025-2033.	3.0	12
16	Magic DIAMOND: Multi-fascicle diffusion compartment imaging with tensor distribution modeling and tensor-valued diffusion encoding. <i>Medical Image Analysis</i> , 2021, 70, 101988.	11.6	9
17	Cross-term-compensated gradient waveform design for tensor-valued diffusion MRI. <i>Journal of Magnetic Resonance</i> , 2021, 328, 106991.	2.1	10
18	Comparative analysis of signal models for microscopic fractional anisotropy estimation using q-space trajectory encoding. <i>NeuroImage</i> , 2021, 242, 118445.	4.2	6

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19	Neural networks for parameter estimation in microstructural MRI: Application to a diffusion-relaxation model of white matter. <i>NeuroImage</i> , 2021, 244, 118601.	4.2	20
20	Accuracy and precision in super-resolution MRI: Enabling spherical tensor diffusion encoding at ultra-high b-values and high resolution. <i>NeuroImage</i> , 2021, 245, 118673.	4.2	11
21	Multi-tissue spherical deconvolution of tensor-valued diffusion MRI. <i>NeuroImage</i> , 2021, 245, 118717.	4.2	9
22	Tensor-valued diffusion MRI in under 3 minutes: an initial survey of microscopic anisotropy and tissue heterogeneity in intracranial tumors. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 608-620.	3.0	55
23	Joint RELaxation-Diffusion Imaging Moments to Probe Neurite Microstructure. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 668-677.	8.9	29
24	Tensor-valued diffusion MRI differentiates cortex and white matter in malformations of cortical development associated with epilepsy. <i>Epilepsia</i> , 2020, 61, 1701-1713.	5.1	28
25	Disentangling white-matter damage from physiological fibre orientation dispersion in multiple sclerosis. <i>Brain Communications</i> , 2020, 2, fcaa077.	3.3	55
26	Towards unconstrained compartment modeling in white matter using diffusion-relaxation MRI with tensor-valued diffusion encoding. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1605-1623.	3.0	67
27	Improved fibre dispersion estimation using b-tensor encoding. <i>NeuroImage</i> , 2020, 215, 116832.	4.2	17
28	Motion-compensated b-tensor encoding for in vivo cardiac diffusion-weighted imaging. <i>NMR in Biomedicine</i> , 2020, 33, e4213.	2.8	20
29	The dot-compartment revealed? Diffusion MRI with ultra-strong gradients and spherical tensor encoding in the living human brain. <i>NeuroImage</i> , 2020, 210, 116534.	4.2	64
30	Transferring principles of solid-state and Laplace NMR to the field of in vivo brain MRI. <i>Magnetic Resonance</i> , 2020, 1, 27-43.	1.9	22
31	Microstructure Imaging by Diffusion MRI. , 2020, , 55-69.		0
32	NIMG-16. EXPLORATORY EVALUATION OF Q-SPACE TRAJECTORY IMAGING PARAMETERS AS NOVEL IMAGING BIOMARKERS FOR GLIOMAS. <i>Neuro-Oncology</i> , 2020, 22, ii150-ii150.	1.2	1
33	Linear, planar and spherical tensor-valued diffusion MRI data by free waveform encoding in healthy brain, water, oil and liquid crystals. <i>Data in Brief</i> , 2019, 25, 104208.	1.0	24
34	Tensor-valued diffusion encoding for diffusional variance decomposition (DIVIDE): Technical feasibility in clinical MRI systems. <i>PLoS ONE</i> , 2019, 14, e0214238.	2.5	67
35	In vivo demonstration of microscopic anisotropy in the human kidney using multidimensional diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 2160-2168.	3.0	24
36	Maxwell-compensated design of asymmetric gradient waveforms for tensor-valued diffusion encoding. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1424-1437.	3.0	81

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37	Searching for the neurite density with diffusion MRI: Challenges for biophysical modeling. <i>Human Brain Mapping</i> , 2019, 40, 2529-2545.	3.6	103
38	Liquid crystal phantom for validation of microscopic diffusion anisotropy measurements on clinical MRI systems. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1817-1828.	3.0	18
39	Imaging brain tumour microstructure. <i>NeuroImage</i> , 2018, 182, 232-250.	4.2	62
40	Separating blood and water: Perfusion and free water elimination from diffusion MRI in the human brain. <i>NeuroImage</i> , 2017, 156, 423-434.	4.2	46
41	Neurite density imaging versus imaging of microscopic anisotropy in diffusion MRI: A model comparison using spherical tensor encoding. <i>NeuroImage</i> , 2017, 147, 517-531.	4.2	177
42	Optimal experimental design for filter exchange imaging: Apparent exchange rate measurements in the healthy brain and in intracranial tumors. <i>Magnetic Resonance in Medicine</i> , 2017, 77, C1-C1.	3.0	2
43	Optimal experimental design for filter exchange imaging: Apparent exchange rate measurements in the healthy brain and in intracranial tumors. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1104-1114.	3.0	67
44	The link between diffusion MRI and tumor heterogeneity: Mapping cell eccentricity and density by diffusional variance decomposition (DIVIDE). <i>NeuroImage</i> , 2016, 142, 522-532.	4.2	141
45	Q-space trajectory imaging for multidimensional diffusion MRI of the human brain. <i>NeuroImage</i> , 2016, 135, 345-362.	4.2	256
46	Constrained optimization of gradient waveforms for generalized diffusion encoding. <i>Journal of Magnetic Resonance</i> , 2015, 261, 157-168.	2.1	106
47	Quantification of microscopic diffusion anisotropy disentangles effects of orientation dispersion from microstructure: Applications in healthy volunteers and in brain tumors. <i>NeuroImage</i> , 2015, 104, 241-252.	4.2	216
48	Extrapolation-Based References Improve Motion and Eddy-Current Correction of High B-Value DWI Data: Application in Parkinson's Disease Dementia. <i>PLoS ONE</i> , 2015, 10, e0141825.	2.5	75
49	Microanisotropy imaging: quantification of microscopic diffusion anisotropy and orientational order parameter by diffusion MRI with magic-angle spinning of the q-vector. <i>Frontiers in Physics</i> , 2014, 2, .	2.1	163
50	Measurement Tensors in Diffusion MRI: Generalizing the Concept of Diffusion Encoding. <i>Lecture Notes in Computer Science</i> , 2014, 17, 209-216.	1.3	55
51	Variability in diffusion kurtosis imaging: Impact on study design, statistical power and interpretation. <i>NeuroImage</i> , 2013, 76, 145-154.	4.2	62
52	Assessment of Global and Regional Diffusion Changes along White Matter Tracts in Parkinsonian Disorders by MR Tractography. <i>PLoS ONE</i> , 2013, 8, e66022.	2.5	29