

Patryk Szwargulski

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

737
citations

687363

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677142

22
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all docs

23
docs citations

23
times ranked

569
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic particle imaging for assessment of cerebral perfusion and ischemia. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1757.	6.1	11
2	System Matrix Based Reconstruction for Pulsed Sequences in Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2022, 41, 1862-1873.	8.9	5
3	First Dedicated Balloon Catheter for Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2022, 41, 3301-3308.	8.9	4
4	Simultaneous imaging of widely differing particle concentrations in MPI: problem statement and algorithmic proposal for improvement. Physics in Medicine and Biology, 2021, 66, 095004.	3.0	17
5	Generalized MPI Multi-Patch Reconstruction Using Clusters of Similar System Matrices. IEEE Transactions on Medical Imaging, 2020, 39, 1347-1358.	8.9	14
6	OpenMPIData: An initiative for freely accessible magnetic particle imaging data. Data in Brief, 2020, 28, 104971.	1.0	26
7	Monitoring Intracranial Cerebral Hemorrhage Using Multicontrast Real-Time Magnetic Particle Imaging. ACS Nano, 2020, 14, 13913-13923.	14.6	47
8	Suppression of Motion Artifacts Caused by Temporally Recurring Tracer Distributions in Multi-Patch Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2020, 39, 3548-3558.	8.9	8
9	Development of long circulating magnetic particle imaging tracers: use of novel magnetic nanoparticles and entrapment into human erythrocytes. Nanomedicine, 2020, 15, 739-753.	3.3	26
10	Design of a head coil for high resolution mouse brain perfusion imaging using magnetic particle imaging. Physics in Medicine and Biology, 2020, 65, 235007.	3.0	22
11	Towards accurate modeling of the multidimensional magnetic particle imaging physics. New Journal of Physics, 2019, 21, 103032.	2.9	12
12	Human-sized magnetic particle imaging for brain applications. Nature Communications, 2019, 10, 1936.	12.8	186
13	Discriminating nanoparticle core size using multi-contrast MPI. Physics in Medicine and Biology, 2019, 64, 074001.	3.0	19
14	3D Printed Anatomical Model of a Rat for Medical Imaging. Current Directions in Biomedical Engineering, 2019, 5, 187-190.	0.4	6
15	Efficient Joint Image Reconstruction of Multi-Patch Data Reusing a Single System Matrix in Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 932-944.	8.9	24
16	MPIFiles.jl: A Julia Package for Magnetic Particle Imaging Files. Journal of Open Source Software, 2019, 4, 1331.	4.6	4
17	Moving table magnetic particle imaging: a stepwise approach preserving high spatio-temporal resolution. Journal of Medical Imaging, 2018, 5, 1.	1.5	7
18	Enlarging the field of view in magnetic particle imaging using a moving table approach. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
19	Hybrid system calibration for multidimensional magnetic particle imaging. Physics in Medicine and Biology, 2017, 62, 3392-3406.	3.0	33
20	Magnetic Particle Imaging for Real-Time Perfusion Imaging in Acute Stroke. ACS Nano, 2017, 11, 10480-10488.	14.6	142
21	Fast multiresolution data acquisition for magnetic particle imaging using adaptive feature detection. Medical Physics, 2017, 44, 6456-6460.	3.0	10
22	Towards Picogram Detection of Superparamagnetic Iron-Oxide Particles Using a Gradiometric Receive Coil. Scientific Reports, 2017, 7, 6872.	3.3	95
23	Using data redundancy gained by patch overlaps to reduce truncation artifacts in magnetic particle imaging. Physics in Medicine and Biology, 2016, 61, 4583-4598.	3.0	18