

R Matthew Ferguson

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,209
citations

430754

18
h-index

839398

18
g-index

21
all docs

21
docs citations

21
times ranked

2315
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Particle Imaging: A Novel in Vivo Imaging Platform for Cancer Detection. Nano Letters, 2017, 17, 1648-1654.	4.5	260
2	Synthesis of phase-pure and monodisperse iron oxide nanoparticles by thermal decomposition. Nanoscale, 2015, 7, 11142-11154.	2.8	252
3	Optimization of nanoparticle core size for magnetic particle imaging. Journal of Magnetism and Magnetic Materials, 2009, 321, 1548-1551.	1.0	201
4	Magnetic Particle Imaging With Tailored Iron Oxide Nanoparticle Tracers. IEEE Transactions on Medical Imaging, 2015, 34, 1077-1084.	5.4	177
5	Optimizing magnetite nanoparticles for mass sensitivity in magnetic particle imaging. Medical Physics, 2011, 38, 1619-1626.	1.6	142
6	Magnetic Particle Imaging for Real-Time Perfusion Imaging in Acute Stroke. ACS Nano, 2017, 11, 10480-10488.	7.3	142
7	Evaluation of PEG-coated iron oxide nanoparticles as blood pool tracers for preclinical magnetic particle imaging. Nanoscale, 2017, 9, 1299-1306.	2.8	136
8	Monodisperse magnetite nanoparticles with nearly ideal saturation magnetization. RSC Advances, 2016, 6, 77452-77464.	1.7	133
9	Monodisperse magnetite nanoparticle tracers for in vivo magnetic particle imaging. Biomaterials, 2013, 34, 3837-3845.	5.7	129
10	Magnetic Particle Imaging for Highly Sensitive, Quantitative, and Safe in Vivo Gut Bleed Detection in a Murine Model. ACS Nano, 2017, 11, 12067-12076.	7.3	111
11	Mixed Brownian alignment and Néel rotations in superparamagnetic iron oxide nanoparticle suspensions driven by an ac field. Physical Review B, 2015, 92, .	1.1	109
12	Tailored magnetic nanoparticles for optimizing magnetic fluid hyperthermia. Journal of Biomedical Materials Research - Part A, 2012, 100A, 728-737.	2.1	100
13	First in vivo traumatic brain injury imaging via magnetic particle imaging. Physics in Medicine and Biology, 2017, 62, 3501-3509.	1.6	78
14	Ferrohydrodynamic relaxometry for magnetic particle imaging. Applied Physics Letters, 2011, 98, .	1.5	73
15	Tracking short-term biodistribution and long-term clearance of SPIO tracers in magnetic particle imaging. Physics in Medicine and Biology, 2017, 62, 3440-3453.	1.6	53
16	Size-Dependent Relaxation Properties of Monodisperse Magnetite Nanoparticles Measured Over Seven Decades of Frequency by AC Susceptometry. IEEE Transactions on Magnetics, 2013, 49, 3441-3444.	1.2	45
17	In vitro and in vivo comparison of a tailored magnetic particle imaging blood pool tracer with Resovist. Physics in Medicine and Biology, 2017, 62, 3454-3469.	1.6	36
18	Micro-Travelling Wave Magnetic Particle Imaging Sub-Millimeter Resolution With Optimized Tracer LS-008. IEEE Transactions on Magnetics, 2019, 55, 1-7.	1.2	28

#	ARTICLE	IF	CITATIONS
19	SIZE-OPTIMIZED MAGNETITE NANOPARTICLES FOR MAGNETIC PARTICLE IMAGING. , 2010, , .		3
20	Role of biofunctionalization and tracer cross-linking in magnetic particle spectrometry. , 2013, , .		1
21	Physical and biological optimization of core-shell nanoparticle tracers for in vivo MPI. , 2013, , .		0