R Matthew Ferguson

List of Publications by Year
in descending order

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	Micro-Traveling Wave Magnetic Particle Imagingâ€"Sub-Millimeter Resolution With Optimized Tracer LS-008. IEEE Transactions on Magnetics, 2019, 55, 1-7.	1.2	28
2	In vitroandin vivocomparison of a tailored magnetic particle imaging blood pool tracer with Resovist. Physics in Medicine and Biology, 2017, 62, 3454-3469.	1.6	36
3	Magnetic Particle Imaging: A Novel in Vivo Imaging Platform for Cancer Detection. Nano Letters, 2017, 17, 1648-1654.	4.5	260
4	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
5	Firstin vivotraumatic brain injury imaging via magnetic particle imaging. Physics in Medicine and Biology, 2017, 62, 3501-3509.	1.6	78
6	Evaluation of PEG-coated iron oxide nanoparticles as blood pool tracers for preclinical magnetic particle imaging. Nanoscale, 2017, 9, 1299-1306.	2.8	136
7	Magnetic Particle Imaging for Real-Time Perfusion Imaging in Acute Stroke. ACS Nano, 2017, 11, 10480-10488.	7.3	142
8	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
9	Monodisperse magnetite nanoparticles with nearly ideal saturation magnetization. RSC Advances, 2016, 6, 77452-77464.	1.7	133
10	Mixed Brownian alignment and NÃ©el rotations in superparamagnetic iron oxide nanoparticle suspensions driven by an ac field. Physical Review B, 2015, 92, .	1.1	109
11	Magnetic Particle Imaging With Tailored Iron Oxide Nanoparticle Tracers. IEEE Transactions on Medical Imaging, 2015, 34, 1077-1084.	5.4	177
12	Synthesis of phase-pure and monodisperse iron oxide nanoparticles by thermal decomposition. Nanoscale, 2015, 7, 11142-11154.	2.8	252
13	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
14	Physical and biological optimization of core-shell nanoparticle tracers for in vivo MPI. , 2013, , .		0
15	Role of biofunctionalization and tracer cross-linking in magnetic particle spectrometry. , 2013, , .		1
16	Monodisperse magnetite nanoparticle tracers for inÂvivo magnetic particle imaging. Biomaterials, 2013, 34, 3837-3845.	5.7	129
17	Tailored magnetic nanoparticles for optimizing magnetic fluid hyperthermia. Journal of Biomedical Materials Research - Part A, 2012, 100A, 728-737.	2.1	100
18	Optimizing magnetite nanoparticles for mass sensitivity in magnetic particle imaging. Medical Physics, 2011, 38, 1619-1626.	1.6	142

#	Article	IF	Citations
19	Ferrohydrodynamic relaxometry for magnetic particle imaging. Applied Physics Letters, 2011, 98, .	1.5	73
20	SIZE-OPTIMIZED MAGNETITE NANOPARTICLES FOR MAGNETIC PARTICLE IMAGING. , 2010, , .		3
21	Optimization of nanoparticle core size for magnetic particle imaging. Journal of Magnetism and Magnetic Materials, 2009, 321, 1548-1551.	1.0	201