Bo Zheng

List of Publications by Year
in descending order

32 papers	2,720 citations	279701 23 h-index	526166 27 g-index
32 all docs	32 docs citations	32 times ranked	1926 citing authors

#	Article	IF	Citations
1	Superferromagnetic Nanoparticles Enable Orderâ€ofâ€Magnitude Resolution & Sensitivity Gain in Magnetic Particle Imaging. Small Methods, 2021, 5, e2100796.	4.6	52
2	Non-radioactive and sensitive tracking of neutrophils towards inflammation using antibody functionalized magnetic particle imaging tracers. Nanotheranostics, 2021, 5, 240-255.	2.7	23
3	Magnetic Particle Imaging for Vascular, Cellular and Molecular Imaging. , 2021, , 265-282.		3
4	Optimization of Drive Parameters for Resolution, Sensitivity and Safety in Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2020, 39, 1724-1734.	5.4	27
5	Using magnetic particle imaging systems to localize and guide magnetic hyperthermia treatment: tracers, hardware, and future medical applications. Theranostics, 2020, 10, 2965-2981.	4.6	115
6	Pulsed Excitation in Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 2389-2399.	5.4	46
7	Magnetic Particle Imaging-Guided Heating in Vivo Using Gradient Fields for Arbitrary Localization of Magnetic Hyperthermia Therapy. ACS Nano, 2018, 12, 3699-3713.	7.3	304
8	Multi-Channel Acquisition for Isotropic Resolution in Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2018, 37, 1989-1998.	5.4	17
9	Magnetic particle imaging for radiation-free, sensitive and high-contrast vascular imaging and cell tracking. Current Opinion in Chemical Biology, 2018, 45, 131-138.	2.8	78
10	In vivo tracking and quantification of inhaled aerosol using magnetic particle imaging towards inhaled therapeutic monitoring. Theranostics, 2018, 8, 3676-3687.	4.6	86
11	A perspective on a rapid and radiation-free tracer imaging modality, magnetic particle imaging, with promise for clinical translation. British Journal of Radiology, 2018, 91, 20180326.	1.0	37
12	Firstin vivomagnetic particle imaging of lung perfusion in rats. Physics in Medicine and Biology, 2017, 62, 3510-3522.	1.6	88
13	Magnetic Particle Imaging: A Novel in Vivo Imaging Platform for Cancer Detection. Nano Letters, 2017, 17, 1648-1654.	4.5	260
14	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
15	Seeing SPIOs Directly In Vivo with Magnetic Particle Imaging. Molecular Imaging and Biology, 2017, 19, 385-390.	1.3	26
16	The relaxation wall: experimental limits to improving MPI spatial resolution by increasing nanoparticle core size. Biomedical Physics and Engineering Express, 2017, 3, 035003.	0.6	66
17	Firstin vivotraumatic brain injury imaging via magnetic particle imaging. Physics in Medicine and Biology, 2017, 62, 3501-3509.	1.6	78
18	Combining magnetic particle imaging and magnetic fluid hyperthermia in a theranostic platform. Physics in Medicine and Biology, 2017, 62, 3483-3500.	1.6	113

#	Article	IF	Citations
19	Optimal Broadband Noise Matching to Inductive Sensors: Application to Magnetic Particle Imaging. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1041-1052.	2.7	18
20	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
21	Quantitative Magnetic Particle Imaging Monitors the Transplantation, Biodistribution, and Clearance of Stem Cells In Vivo. Theranostics, 2016, 6, 291-301.	4.6	252
22	A High-Throughput, Arbitrary-Waveform, MPI Spectrometer and Relaxometer for Comprehensive Magnetic Particle Optimization and Characterization. Scientific Reports, 2016, 6, 34180.	1.6	46
23	Magnetic Particle Imaging tracks the long-term fate of in vivo neural cell implants with high image contrast. Scientific Reports, 2015, 5, 14055.	1.6	202
24	In situ and ex vivo MPI performance compared to fluorescent and MRI imaging. , 2015, , .		0
25	A custom low-noise preamplifier for Magnetic Particle Imaging. , 2015, , .		4
26	Reshaping the 2D MPI PSF to be isotropic and sharp using vector acquisition and equalization. , 2015, , .		6
27	A 7 T/M 3D X-space MPI mouse and rat scanner. , 2013, , .		8
28	Linearity and Shift Invariance for Quantitative Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2013, 32, 1565-1575.	5.4	80
29	Magnetic Particle Imaging (MPI) for NMR and MRI researchers. Journal of Magnetic Resonance, 2013, 229, 116-126.	1.2	255
30	Twenty-fold acceleration of 3D projection reconstruction MPI. Biomedizinische Technik, 2013, 58, 565-76.	0.9	32
31	An x-space magnetic particle imaging scanner. Review of Scientific Instruments, 2012, 83, 033708.	0.6	100
32	Projection X-Space Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2012, 31, 1076-1085.	5.4	134