

# Bo Zheng

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

2,720  
citations

279798  
23  
h-index

526287  
27  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1926  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Particle Imaging-Guided Heating <i>in Vivo</i> Using Gradient Fields for Arbitrary Localization of Magnetic Hyperthermia Therapy. ACS Nano, 2018, 12, 3699-3713.	14.6	304
2	Magnetic Particle Imaging: A Novel <i>in Vivo</i> Imaging Platform for Cancer Detection. Nano Letters, 2017, 17, 1648-1654.	9.1	260
3	Magnetic Particle Imaging (MPI) for NMR and MRI researchers. Journal of Magnetic Resonance, 2013, 229, 116-126.	2.1	255
4	Quantitative Magnetic Particle Imaging Monitors the Transplantation, Biodistribution, and Clearance of Stem Cells <i>In Vivo</i> . Theranostics, 2016, 6, 291-301.	10.0	252
5	Magnetic Particle Imaging tracks the long-term fate of <i>in vivo</i> neural cell implants with high image contrast. Scientific Reports, 2015, 5, 14055.	3.3	202
6	Projection X-Space Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2012, 31, 1076-1085.	8.9	134
7	Using magnetic particle imaging systems to localize and guide magnetic hyperthermia treatment: tracers, hardware, and future medical applications. Theranostics, 2020, 10, 2965-2981.	10.0	115
8	Combining magnetic particle imaging and magnetic fluid hyperthermia in a theranostic platform. Physics in Medicine and Biology, 2017, 62, 3483-3500.	3.0	113
9	Magnetic Particle Imaging for Highly Sensitive, Quantitative, and Safe <i>in Vivo</i> Gut Bleed Detection in a Murine Model. ACS Nano, 2017, 11, 12067-12076.	14.6	111
10	An x-space magnetic particle imaging scanner. Review of Scientific Instruments, 2012, 83, 033708.	1.3	100
11	First <i>in vivo</i> magnetic particle imaging of lung perfusion in rats. Physics in Medicine and Biology, 2017, 62, 3510-3522.	3.0	88
12	<i>In vivo</i> tracking and quantification of inhaled aerosol using magnetic particle imaging towards inhaled therapeutic monitoring. Theranostics, 2018, 8, 3676-3687.	10.0	86
13	Linearity and Shift Invariance for Quantitative Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2013, 32, 1565-1575.	8.9	80
14	First <i>in vivo</i> traumatic brain injury imaging via magnetic particle imaging. Physics in Medicine and Biology, 2017, 62, 3501-3509.	3.0	78
15	Magnetic particle imaging for radiation-free, sensitive and high-contrast vascular imaging and cell tracking. Current Opinion in Chemical Biology, 2018, 45, 131-138.	6.1	78
16	The relaxation wall: experimental limits to improving MPI spatial resolution by increasing nanoparticle core size. Biomedical Physics and Engineering Express, 2017, 3, 035003.	1.2	66
17	Tracking short-term biodistribution and long-term clearance of SPIO tracers in magnetic particle imaging. Physics in Medicine and Biology, 2017, 62, 3440-3453.	3.0	53
18	Superferromagnetic Nanoparticles Enable Order-of-Magnitude Resolution & Sensitivity Gain in Magnetic Particle Imaging. Small Methods, 2021, 5, e2100796.	8.6	52

#	ARTICLE	IF	CITATIONS
19	A High-Throughput, Arbitrary-Waveform, MPI Spectrometer and Relaxometer for Comprehensive Magnetic Particle Optimization and Characterization. Scientific Reports, 2016, 6, 34180.	3.3	46
20	Pulsed Excitation in Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 2389-2399.	8.9	46
21	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.	2.2	37
22	Twenty-fold acceleration of 3D projection reconstruction MPI. Biomedizinische Technik, 2013, 58, 565-76.	0.8	32
23	Optimization of Drive Parameters for Resolution, Sensitivity and Safety in Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2020, 39, 1724-1734.	8.9	27
24	Seeing SPIOs Directly In Vivo with Magnetic Particle Imaging. Molecular Imaging and Biology, 2017, 19, 385-390.	2.6	26
25	Non-radioactive and sensitive tracking of neutrophils towards inflammation using antibody functionalized magnetic particle imaging tracers. Nanotheranostics, 2021, 5, 240-255.	5.2	23
26	Optimal Broadband Noise Matching to Inductive Sensors: Application to Magnetic Particle Imaging. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1041-1052.	4.0	18
27	Multi-Channel Acquisition for Isotropic Resolution in Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2018, 37, 1989-1998.	8.9	17
28	A 7 T/M 3D X-space MPI mouse and rat scanner. , 2013, , .		8
29	Reshaping the 2D MPI PSF to be isotropic and sharp using vector acquisition and equalization. , 2015, , .		6
30	A custom low-noise preamplifier for Magnetic Particle Imaging. , 2015, , .		4
31	Magnetic Particle Imaging for Vascular, Cellular and Molecular Imaging. , 2021, , 265-282.		3
32	In situ and ex vivo MPI performance compared to fluorescent and MRI imaging. , 2015, , .		0