Zhi Wei Tay

List of Publications by Year
in descending order

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24 papers	1,253 citations	471061 17 h-index	794141 19 g-index
24 all docs	24 docs citations	24 times ranked	1346 citing authors

#	Article	IF	Citations
1	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
2	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
3	Combining magnetic particle imaging and magnetic fluid hyperthermia in a theranostic platform. Physics in Medicine and Biology, 2017, 62, 3483-3500.	1.6	113
4	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
5	In vivo tracking and quantification of inhaled aerosol using magnetic particle imaging towards inhaled therapeutic monitoring. Theranostics, 2018, 8, 3676-3687.	4.6	86
6	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
7	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
8	Superferromagnetic Nanoparticles Enable Orderâ€ofâ€Magnitude Resolution & Sensitivity Gain in Magnetic Particle Imaging. Small Methods, 2021, 5, e2100796.	4.6	52
9	A High-Throughput, Arbitrary-Waveform, MPI Spectrometer and Relaxometer for Comprehensive Magnetic Particle Optimization and Characterization. Scientific Reports, 2016, 6, 34180.	1.6	46
10	Pulsed Excitation in Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 2389-2399.	5.4	46
11	Combining magnetic particle imaging and magnetic fluid hyperthermia for localized and image-guided treatment. International Journal of Hyperthermia, 2020, 37, 141-154.	1.1	39
12	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
13	A porcine model of heart failure with preserved ejection fraction: magnetic resonance imaging and metabolic energetics. ESC Heart Failure, 2020, 7, 93-103.	1.4	29
14	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
15	Seeing SPIOs Directly In Vivo with Magnetic Particle Imaging. Molecular Imaging and Biology, 2017, 19, 385-390.	1.3	26
16	Magnetic Particle Imaging: An Emerging Modality with Prospects in Diagnosis, Targeting and Therapy of Cancer. Cancers, 2021, 13, 5285.	1.7	26
17	Non-radioactive and sensitive tracking of neutrophils towards inflammation using antibody functionalized magnetic particle imaging tracers. Nanotheranostics, 2021, 5, 240-255.	2.7	23
18	Eddy current-shielded x-space relaxometer for sensitive magnetic nanoparticle characterization. Review of Scientific Instruments, 2016, 87, 055109.	0.6	11

#	Article	IF	Citations
19	A theranostic platform for localized magnetic fluid hyperthermia and magnetic particle imaging. Proceedings of SPIE, 2017, , .	0.8	6
20	Magnetic Particle Imaging. , 2017, , 69-93.		6
21	Magnetic Particle Imaging for Vascular, Cellular and Molecular Imaging. , 2021, , 265-282.		3
22	Untuned MPI relaxometer for nanoparticle characterization at arbitrary frequencies. , 2015, , .		2
23	Superferromagnetic iron oxide: a new paradigm for color multiplex and FRET-like nanoscale 'ruler' for magnetic particle imaging. , 2022, , .		1
24	Design and construction of a high sensitivity self-shielded relaxometer. , 2015, , .		0