

# Zhi Wei Tay

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

22  
papers

782  
citations

13  
h-index

24  
g-index

24  
ext. papers

1,019  
ext. citations

7.6  
avg, IF

4.03  
L-index

#	Paper	IF	Citations
22	Magnetic Particle Imaging-Guided Heating in Vivo Using Gradient Fields for Arbitrary Localization of Magnetic Hyperthermia Therapy. <i>ACS Nano</i> , <b>2018</b> , 12, 3699-3713	16.7	204
21	Magnetic Particle Imaging for Highly Sensitive, Quantitative, and Safe in Vivo Gut Bleed Detection in a Murine Model. <i>ACS Nano</i> , <b>2017</b> , 11, 12067-12076	16.7	80
20	Combining magnetic particle imaging and magnetic fluid hyperthermia in a theranostic platform. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 3483-3500	3.8	78
19	In vivo tracking and quantification of inhaled aerosol using magnetic particle imaging towards inhaled therapeutic monitoring. <i>Theranostics</i> , <b>2018</b> , 8, 3676-3687	12.1	58
18	Using magnetic particle imaging systems to localize and guide magnetic hyperthermia treatment: tracers, hardware, and future medical applications. <i>Theranostics</i> , <b>2020</b> , 10, 2965-2981	12.1	57
17	Magnetic particle imaging for radiation-free, sensitive and high-contrast vascular imaging and cell tracking. <i>Current Opinion in Chemical Biology</i> , <b>2018</b> , 45, 131-138	9.7	51
16	The Relaxation Wall: Experimental Limits to Improving MPI Spatial Resolution by Increasing Nanoparticle Core size. <i>Biomedical Physics and Engineering Express</i> , <b>2017</b> , 3,	1.5	45
15	A High-Throughput, Arbitrary-Waveform, MPI Spectrometer and Relaxometer for Comprehensive Magnetic Particle Optimization and Characterization. <i>Scientific Reports</i> , <b>2016</b> , 6, 34180	4.9	38
14	A perspective on a rapid and radiation-free tracer imaging modality, magnetic particle imaging, with promise for clinical translation. <i>British Journal of Radiology</i> , <b>2018</b> , 91, 20180326	3.4	29
13	Pulsed Excitation in Magnetic Particle Imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 2389-2399	11.7	28
12	Seeing SPIOs Directly In Vivo with Magnetic Particle Imaging. <i>Molecular Imaging and Biology</i> , <b>2017</b> , 19, 385-390	3.8	22
11	A porcine model of heart failure with preserved ejection fraction: magnetic resonance imaging and metabolic energetics. <i>ESC Heart Failure</i> , <b>2020</b> , 7, 92-102	3.7	16
10	Optimization of Drive Parameters for Resolution, Sensitivity and Safety in Magnetic Particle Imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 1724-1734	11.7	15
9	Combining magnetic particle imaging and magnetic fluid hyperthermia for localized and image-guided treatment. <i>International Journal of Hyperthermia</i> , <b>2020</b> , 37, 141-154	3.7	12
8	Superferromagnetic Nanoparticles Enable Order-of-Magnitude Resolution & Sensitivity Gain in Magnetic Particle Imaging.. <i>Small Methods</i> , <b>2021</b> , 5, e2100796	12.8	11
7	Eddy current-shielded x-space relaxometer for sensitive magnetic nanoparticle characterization. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 055109	1.7	10
6	Non-radioactive and sensitive tracking of neutrophils towards inflammation using antibody functionalized magnetic particle imaging tracers. <i>Nanotheranostics</i> , <b>2021</b> , 5, 240-255	5.6	9

5	Magnetic Particle Imaging: An Emerging Modality with Prospects in Diagnosis, Targeting and Therapy of Cancer. <i>Cancers</i> , <b>2021</b> , 13,	6.6	6
4	Magnetic Particle Imaging <b>2017</b> , 69-93		5
3	A theranostic platform for localized magnetic fluid hyperthermia and magnetic particle imaging <b>2017</b> ,		3
2	Untuned MPI relaxometer for nanoparticle characterization at arbitrary frequencies <b>2015</b> ,		2
1	Magnetic Particle Imaging for Vascular, Cellular and Molecular Imaging <b>2021</b> , 265-282		2