Submission to IWMPI

Submission template to IWMPI

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Abstract

Place a brief summary of your work here. Do not use more than 150 words. It will be used in the online program during the conference. Magnetic Particle Imaging (MPI) is a novel imaging modality that uses various static and oscillating magnetic fields to image the spatial distribution of superparamagnetic iron oxide nanoparticles (SPIOs) with high sensitivity, no tissue background, and no ionizing radiation. The method exploits the nonlinear magnetization behavior of the SPIOs, and has shown great potential to surpass current in vivo imaging modalities in terms of sensitivity, safety, quantitation, and spatio-temporal resolution. MPI is well suited for clinical applications such as angiography, imaging of cancer and inflammation; as well as research applications to map noninvasively cellular therapeutics and track cell fate such as engrafted stem cell and small animal imaging.

I. General information

Two section headers should not follow each other directly without textual content.

Your paper should have no more than 2-3 pages.

I.I. Structure

When structuring your submission, please stick to the following structure

1. Introduction
2. Methods and materials
3. Experiments
4. Results
5. Discussion
6. Conclusion

Acknowledgments

Author's statement.

I.II. References

Please note:

- Include the DOI if applicable.
- Do not abbreviate journal names.
- Biber is used for creating reference list. You may need to invoke biber manually.

I.III. ORCID

You may include your and your co-authors ORCID in the authors list (see example above). Please register your ORCID in the submission system as well. The ORCID given in the manuscript will not be synchronized with the submission system.

I.IV. Units

Please use the siunitx-package. The following units have been declared already in the template class:

- 5 mT
- 5 kHz
- 5 MHz
- 5 $\mathrm{T\,m^{-1}}$
- 5 cm
- 5 mm
- 5 µm
- 5 µmol.

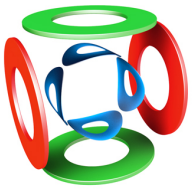

Figure 1: You may use full color images. Make sure figures are legible. The digital versions of your paper will be published online in a Supplement Issue of the International Journal on Magnetic Particle Imaging.

Table 1: This is another example.

	A	B	C	D
Test 1	0.00	1.35	0.27	0.44
Test 2	0.00	1.35	0.27	0.44

II. Section

II.I. Subsection

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$$\frac{d}{dx}\left(\int_0^x f(u)\,du\right) = f(x). \tag{1}$$

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Acknowledgments

The preferred spelling of the word "acknowledgment" in America is without an "e" after the "g". Avoid the stilted expression, "One of us (R. B. G.) thanks ..." Instead, try "R. B. G. thanks". Research funding: The author state no funding involved.

Author's statement

(Do not remove this paragraph – please check which statements are applicable)

Conflict of interest: Authors state no conflict of interest. Informed consent: Informed consent has been obtained from all individuals included in this study. Ethical approval: The research related to human use complies with all the relevant national regulations, institutional policies and was performed in accordance with the tenets of the Helsinki Declaration, and has been approved by the authors' institutional review board or equivalent committee.

References

[1] B. Gleich and J. Weizenecker. Tomographic imaging using the nonlinear response of magnetic particles. *Nature*, 435(7046):1214–1217, 2005, doi:10.1038/nature03808.

[2] T. Knopp and T. M. Buzug, Magnetic Particle Imaging: An Introduction to Imaging Principles and Scanner Instrumentation. Berlin/Heidelberg: Springer, 2012, doi:10.1007/978-3-642-04199-0.