



Dr. Markus Battarbee – List of publications

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- 59 articles published or accepted for publication in scientific peer-reviewed journals and 5 manuscripts in conference proceedings with a light peer-review process
- Total citations: 3721
- Highest citation count: 610
- Highest first-author paper citation count: 22
- **h-index: 21**

Peer-reviewed scientific articles

- [59] **Enabling technology for global 3D+3V hybrid-Vlasov simulations of near-Earth space**, U. Ganse, T. Koskela, M. Battarbee, Y. Pfau-Kempf, K. Papadakis, M. Alho, M. Bussov, G. Cozzani, M. Dubart, H. George, E. Gordeev, M. Grandin, K. Horaites, J. Suni, V. Tarvus, F. Tesema Kebede, L. Turc, H. Zhou, and M. Palmroth. *Physics of Plasmas* 30, 042902 (2023) <https://doi.org/10.1063/5.0134387>
- [58] **Transmission of foreshock waves through Earth's bow shock**, L. Turc, O. Roberts, D. Verscharen, A. Dimmock, P. Kajdic, M. Palmroth, Y. Pfau-Kempf, A. Johlander, M. Dubart, E. Kilpua, J. Soucek, K. Takahashi, N. Takahashi, M. Battarbee, and U. Ganse, *Nature Physics* (2022) <https://doi.org/10.1038/s41567-022-01837-z>
- [57] **Spatial filtering in a 6D hybrid-Vlasov scheme for alleviating AMR artifacts: a case study with Vlasiator, versions 5.0, 5.1, 5.2.1**, K. Papadakis, Y. Pfau-Kempf, U. Ganse, M. Battarbee, M. Alho, M. Grandin, M. Dubart, L. Turc, H. Zhou, K. Horaites, I. Zaitsev, G. Cozzani, M. Bussov, E. Gordeev, F. Tesema, H. George, J. Suni, V. Tarvus, and M. Palmroth. *Geosci. Model Dev.*, 15, 7903-7912 (2022) <https://doi.org/10.5194/gmd-15-7903-2022>
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- [55] **A global view of Pc3 wave activity in near-Earth space: results from hybrid-Vlasov simulations**, L. Turc, H. Zhou, V. Tarvus, M. Ala-Lahti, M. Battarbee, Y. Pfau-Kempf, A. Johlander, U. Ganse, M. Dubart, H. George, M. Grandin, K. Horaites, F. Tesema Kebede, J. Suni, M. Alho, K. Papadakis, and M. Palmroth. *Front. Astron. Space Sci.*, 29 September 2022, Sec. Space Physics (2022) <https://doi.org/10.3389/fspas.2022.989369>
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