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PUBLICATIONS

1. Yongyong Cai, Jingrun Chen, Cheng Wang, **Changjian Xie**. Error analysis of a linear numerical scheme for the Landau-Lifshitz equation with large damping parameters, *Mathematical Methods in the Applied Sciences*, 2023, doi: doi.org/10.1002/mma.9601.
2. Yongyong Cai, Jingrun Chen, Cheng Wang, **Changjian Xie**. A second-order numerical method for Landau-Lifshitz-Gilbert equation with large damping parameters. *Journal of Computational Physics*, 2022, vol 451, p.110831, doi: [10.1016/j.jcp.2021.110831](https://doi.org/10.1016/j.jcp.2021.110831).
3. Jingrun Chen, Cheng Wang, **Changjian Xie**. Convergence analysis of a second-order semi-implicit projection method for Landau-Lifshitz equation. *Applied Numerical Mathematics*, 2021, vol. 168, pp.55-74, doi: [10.1016/j.apnum.2021.05.027](https://doi.org/10.1016/j.apnum.2021.05.027).
4. **Changjian Xie**, Carlos J. García-Cervera, Cheng Wang, Zhenan Zhou, and Jingrun Chen, Second-order semi-implicit projection methods for Landau-Lifshitz equation, *Journal of Computational Physics*, 2020, vol. 404, p. 109104, doi: [10.1016/j.jcp.2019.109104](https://doi.org/10.1016/j.jcp.2019.109104).
5. Panchi Li, **Changjian Xie**, Rui Du, Jingrun Chen, Xiaoping Wang, Two improved Gauss-Seidel projection methods for Landau-Lifshitz-Gilbert equation, *Journal of Computational Physics*, 2019, vol. 401, p. 109046, doi: [10.1016/j.jcp.2019.109046](https://doi.org/10.1016/j.jcp.2019.109046).

Preprint

6. **Changjian Xie**, Xiantao Li, Jingrun Chen. A machine-learning method for time-dependent wave equations over unbounded domains. *ArXiv:2101.05807*, 2022.