

Contact Information

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Employment

- Assistant professor, Department of Mathematics, University of South China, 2017–present;
- Visiting scholar, Department of Mathematics, National Central University, Taiwan, 2018. Visiting tutor: Prof. Suyu Yang;
- Visiting scholar, Department of Mathematics, Illinois Institute of Technology, 2019–2020. Visiting tutors: Prof. Jinqiao Duan and Prof. Xiaofan Li;
- Visiting scholar, Division of Mathematical Sciences, Nanyang Technological University, 2022.6-2022.8. Visiting tutors: Prof. Lilian Wang.

Education

- Ph.D. in Applied Mathematics, University of Science and Technology Beijing, June, 2017. Advisors: Prof. Ping Lin.
- M.S. in Computational Mathematics, University of Science and Technology Beijing, June 2013. Advisors: Prof. Ping Lin.
- B.S. in Applied Mathematics, Hengshui University, June 2011.

Research Interests

- Computing multiple solutions
 - Spectral method
 - Numerical optimization

Research Grants

- Natural Science Foundation of Hunan Province of China (2020JJ5464): A study of the stability of multiple solutions with spectral method, 2020-2022, (Single PI).

Publications

Journal papers

1. Lin Li, Lilian Wang, Huiyuan Li, An efficient spectral trust-region deflation method for multiple solutions [J]. Journal Of Scientific Computing. 32(2023) 1-23.
2. Yanxiao Sun, Ping Lin, Lin Li. Temporal stability analysis for multiple similarity solutions of viscous incompressible flows in porous channels with moving walls [J]. Applied Mathematical Modelling. 77(2020) 738-755.
3. Qizheng Huang, Lin Li, Zigen Ouyang. Asymptotic solutions on multiple solutions arising from laminar flow in a uniformly porous channel with expanding or contracting walls [J]. Boundary Value Problems. 3(2019) 1-15.

4. Hongxia Guo, Ping Lin, Lin Li. Asymptotic solutions for the asymmetric flow in a channel with porous retractable walls under a transverse magnetic field [J]. *Applied Mathematics and Mechanics*. 3(2019) 1-18.
5. Feng Wang, Ping Lin, Lin Li, Yongyue Jiang. A numerical study of multiple solutions for laminar flows in a porous and moving channel [J]. *Numerical mathematics: Theory, Methods and Applications*. 11(2018) 74-91.
6. Lin Li, Ping Lin, Xinhui Si, Liancun Zheng. A numerical study for multiple solutions of a singular boundary value problem arising from laminar flow in a porous pipe with moving wall [J], *Journal of Computational and Applied Mathematics*, 313(2017), 536-549.
7. Lin Li, Ping Lin, Hong Zhang, Liancun Zheng, Xinhui Si. Asymptotic solutions for laminar flow based on blood circulation through a uniformly porous channel with retractable walls and an applied transverse magnetic field [J], *Powder Technology*, 308(2017), 398-409.
8. Lin Li, Yongyue Jiang. Numerical simulation for different densities multi-phase fluids with an energy law preserving method [J], *Journal of Physics*, 916(2017), 1742-1753.
9. Lin Li, Yongyue Jiang, Aixin Chen. Numerical simulation of nanofluids based on power-law fluids with flow and heat transfer [J], *IOP Earth and Environment Science*, 61(2017), 25-34.
10. Xinhui Si, Lin Li, Liancun Zheng, Xinxin Zhang, Baiyu Liu. The exterior unsteady viscous flow and heat transfer due to a porous expanding stretching cylinder [J]. *Computers and Fluids* 105(2014) 280-284.