



所属学院 理学院

学科领域 数学

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## 个人简介

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## 研究方向

偏微分方程理论和应用

## 研究成果及主要发表文章

- [1] Lin Dong and Jie Liao, Wavelet kernel function based multiscale LSSVM for elliptic boundary value problems, *Neurocomputing*, 356(2019), 40-51.
- [2] Yeping Li and Jie Liao, Stability and  $L_p$  convergence rates of planar diffusion waves for three-dimensional bipolar Euler-Poisson systems, *Communications on Pure & Applied Analysis*, 18(3) (2019), 1281-1302.
- [3] Jie Liao, Qianrong Wang and Xiongfeng Yang, Stability of global Maxwellian for non-linear Vlasov-Poisson-Fokker-Planck equations, *Acta Mathematica Scientia*, 39(1)(2019), 127-138.
- [4] Yeping Li and Jie Liao, Existence of strong solutions to the stationary compressible Navier-Stokes-Korteweg equations with large external force, *Nonlinear analysis RWA*, 47(2019), 204-223.
- [5] Yeping Li, Gang Zhou and Jie Liao, Zero-electron-mass limit of the two-dimensional compressible Navier-Stokes-Poisson equations in bounded domain, *Mathematical Methods in the Applied Sciences*, 41 (2018), 9485-9501.
- [6] Jie Liao, Qianrong Wang and Xiongfeng Yang, Global existence and decay rates of the solutions near Maxwellian for non-linear Fokker-Planck equations, *Journal of Statistical Physics*, 173(2018), 222-241.
- [7] Yeping Li and Jie Liao, Existence and zero-electron-mass limit of strong solutions to the stationary compressible Navier-Stokes-Poisson equation with large external force, *Mathematical Methods in the Applied Sciences*, 41(2018), 646-663.
- [8] Casimir Emako, Jie Liao and Nicolas Vauchelet, Synchronising and non-synchronising dynamics for a two-species aggregation model, *Discrete and Continuous Dynamical Systems (B)*, 22(6)(2017), 2121-2146.
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- [15] Radjesvarane Alexandre and Jie Liao, A pseudo-kinetic approach for Helmholtz equation, *Chinese Annals of Mathematics Series B*, 34B(3)(2013), 319-332.
- [16] Jie Liao and Xiao-Ping Wang, Stability of efficient Navier-Stokes solvers with Navier boundary conditions, *Discrete and Continuous Dynamical Systems (B)*, 17(2012), 153-171.
- [17] Jie Liao, Boundary layer analysis for the eigenvalues of hanging rod, *J. Math. Anal. Appl.*, 389 (2012), 608-617.
- [18] Jie Liao, Weike Wang and Tong Yang,  $L_p$  Convergence rates of diffusion waves for multi-dimensional Euler equations with damping, *J. Differential Equations*, 247 (1) (2009), 303-329.
- [19] Jie Liao and Xiongfeng Yang, Global existence of classical solutions to the Vlasov-Poisson-Boltzmann system with given magnetic field, *Nonlinear Analysis*, 67 (12) (2007), 3335-3349.