

教师信息简况表

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教育经历	2000-2004年于安阳师范学院数学系学习，2004年获理学学士学位 2004-2010年于首都师范大学数学科学学院学习，2010年获理学博士学位							
工作经历	2010年-至今于华北水利水电大学数学与统计学院工作							
学术论文	<ol style="list-style-type: none"> 1. Lian Ruxu*, Qingcun Zeng, 2018: Existence of a strong solution and trajectory attractor for a climate dynamics model with topography effects, <i>Journal of Mathematical Analysis and Applications.</i>, 458: 628-675. (SCI) 2. Lian Ruxu*, Qingcun Zeng, Jiangbo Jin, 2018: Stability of weak solutions to climate dynamics model with effects of topography and non-constant external force, <i>SCIENCE CHINA Earth Sciences.</i>, 61:47-59. (SCI) 3. Lian Ruxu*, Wang Junli, 2018: Free boundary value problem for the cylindrically symmetric compressible Navier-Stokes equations with a constant exterior pressure, <i>Acta Mathematicae Applicatae Sinica-English Series.</i>, doi.org/10.1007/s10255-018-0785-3 . (SCI) 							

4. Lian Ruxu*, Xu Xinying, 2016: Free boundary value problem for the spherically symmetric compressible Navier–Stokes equations with a nonconstant exterior pressure, *Acta Applicandae Mathematicae.*, 144: 35–53. (SCI)
5. Lian Ruxu*, Huang Lan, 2016: Spherically symmetric barotropic compressible Navier–Stokes equations with density-dependent viscosity and discontinuous initial data, *Acta Applicandae Mathematicae.*, 144: 159–184. (SCI)
6. Lian Ruxu*, Liu Jian, 2016: Exterior problem for the spherically symmetric isentropic compressible Navier–Stokes equations with density-dependent viscosity, *Boundary Value Problems.*, 49: 1–20. (SCI)
7. Lian Ruxu*, Liu Jian, 2016: Free boundary value problem for the cylindrically symmetric compressible Navier–Stokes equations with density-dependent viscosity, *Acta Mathematica Scientia.*, 36: 111–123. (SCI)
8. Lian Ruxu*, Qingcun Zeng, 2014: Stability of weak solutions for the large-scale atmospheric equations, *Journal of Inequalities and Applications.*, 455: 1–14. (SCI)
9. Lian Ruxu*, Liu Jian, 2014: Existence of global strong solution to Cauchy problem for one-dimensional barotropic compressible Navier–Stokes equations, *Applicable Analysis.*, 94: 2418–2434.

(SCI)

10. Lian Ruxu*, Hu Liping, 2014: Free boundary value problem for one-dimensional Navier-Stokes equations with a exterior pressure, *Journal of Applied Mathematics.*, 961014: 1-11. (SCI)
11. Lian Ruxu*, Chen Zigao, 2014: Free boundary value problem for one-dimensional Navier-Stokes equations with density-dependent viscosity, *Applicable Analysis.*, 93: 1895-1908. (SCI)
12. Lian Ruxu*, Liu Jian, 2014: On the free boundary value problem for one-dimensional Navier-Stokes equations with constant exterior pressure, *Boundary Value Problems.*, 93: 1-15. (SCI)
13. Lian Ruxu*, Yang Jianwei, Liu Jian, 2014: Global solutions to the spherically symmetric Navier-Stokes equations with discontinuous initial data, *Abstract and Applied Analysis.*, 132324: 1-18. (SCI)
14. Lian Ruxu*, Huang Lan, 2013: Existence of global strong solutions for Navier-Stokes equations with external force, *Applicable Analysis.*, 92: 997-1007. (SCI)
15. Lian Ruxu*, Zhang Guojing, 2013: Free boundary value problem for the one-dimensional compressible Navier-Stokes equations with density-dependent viscosity and discontinuous initial data, *Journal of Applied Mathematics.*, 505108: 1-11. (SCI)
16. Lian Ruxu*, Yang Jianwei, 2013: Global solution to the

exterior problem for spherically symmetric compressible Navier-Stokes equations with density-dependent viscosity and discontinuous initial data, *Boundary Value Problems.*, 90: 1-15.

(SCI)

17. Lian Ruxu*, Li Mingjie, 2012: Stability of weak solutions for the compressible Navier-Stokes-Poisson equations, *Acta Mathematicae Applicatae Sinica-English Series.*, 28: 597-606.

(SCI)

18. Lian Ruxu*, Huang Lan, Liu Jian, 2012: Global solutions to the spherically symmetric compressible Navier-Stokes equations with density-dependent viscosity, *Journal of Applied Mathematics.*, 395209: 1-22. (SCI)

19. Lian Ruxu, Liu Jian, Li Hailiang*, Xiao Ling, 2012: Cauchy problem for the one-dimensional compressible Navier-Stokes equations", *Acta Mathematica Scientia.*, 32: 315-324. (SCI)

20. Lian Ruxu, Guo Zhenhua, Li Hailiang*, 2010: Dynamical behaviors for 1D compressible Navier-Stokes equations with density-dependent viscosity, *Journal of Differential Equations.*, 248: 1926-1954. (SCI)

21. Huang, Lan*, Lian, Ruxu, 2018: Regularity to the spherically symmetric compressible Navier-Stokes equations with density-dependent viscosity, *Boundary Value Problems.*, 85: 1-13.

	<p>(SCI)</p> <p>22. Huang, Lan*, Lian, Ruxu, 2015: Exponential stability of spherically symmetric solutions for compressible viscous micropolar fluid, <i>Journal of Mathematical Physics.</i>, 56: 071503.</p> <p>(SCI)</p> <p>23. Liu Jian*, Lian Ruxu, 2014: Global existence of the cylindrically symmetric strong solution to compressible Navier-Stokes equations, <i>Abstract and Applied Analysis.</i>, 728715: 1-8. (SCI)</p> <p>24. Liu Jian*, Lian Ruxu, 2014: Existence of global solutions to free boundary value problems for bipolar Navier-Stokes-Poisson systems, <i>Electronic Journal of Differential Equations.</i>, 200: 1-11. (SCI)</p> <p>25. Yang Jianwei*, Lian Ruxu, Wang Shu, 2013: Incompressible type Euler as scaling limit of compressible Euler-Maxwell equations, <i>Communications on Pure and Applied Analysis.</i>, 12: 503-518. (SCI)</p> <p>26. Huang Lan*, Lian Ruxu, 2011: Global behavior of 1D compressible isentropic Navier-Stokes equations with a non-autonomous external force, <i>Boundary Value Problems.</i>, 43: 1-19. (SCI)</p>
<p>科研项目</p>	<p>1 国家自然科学基金青年科学基金项目“粘性系数依赖密度可压缩 Navier-Stokes 方程研究”，批准号 11101145，主持</p>

	2 国家自然科学基金青年科学基金项目“磁流体及相关模型的定性研究”，批准号 11301431，第二参加人
获奖成果	2014 河南省科学技术进步三等奖，第四参加人
讲授课程	《高等代数》、《解析几何》、《高等数学》、《线性代数》、《概率论与数理统计》、《最优化理论》、《拓扑学基础》、《数学实践与建模》