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教育背景

- 1988 - 1992 博士研究生, 北京大学数学科学学院
导师: 应隆安教授
- 1984 - 1988 学士, 北京大学数学系

工作经历

- 2008- 副院长, 北京大学数学科学学院
- 2001- 常务副主任, 北京大学科学与工程计算中心
- 1999- 系主任, 北京大学数学科学学院科学与工程计算系
- 1996- 教授, 北京大学数学科学学院
- 1994 - 1996 副教授, 北京大学数学科学学院
- 1992 - 1994 讲师, 北京大学数学科学学院

研究领域

- 复杂流体的多尺度建模与计算
多尺度分析与计算
移动网格方法及其应用

所获荣誉与奖励

- 2007 教育部创新团队“偏微分方程数值计算及其应用”带头人
- 2007 与汤涛、李若和汤华中合作的项目“基于调和映射的移动网格方法及其应用”获得教育部高校科学技术奖自然科学一等奖
- 2002 国家教育部全国普通高等院校优秀教材二等奖
- 2002 国家杰出青年基金
- 2002 长江学者
- 2002 北京市第十六届“五四青年奖章”
- 2000 教育部首届高等学校优秀青年教师教学科研奖励计划“青年教师奖”
- 1999 霍英东教育基金会第七届高等院校青年教师奖(研究类)一等奖
- 1999 冯康科学计算奖
- 1995 与应隆安合著“涡度法”获全国优秀科技图书二等奖
- 1994 北京计算数学学会优秀论文奖
- 1992 光华奖学金
- 1990 九章数学奖学金

学术兼职

- 2006 - 学术委员会副主任, 北京应用物理与计算数学研究所计算物理实验室
- 2004 - 副理事长, 中国工业与应用数学学会(CSIAM)
- 2004 - 学术委员会主任, 中国工业与应用数学学会(CSIAM)
- 2006 - 学术委员会委员, “大规模科学与工程计算”国家重点实验室
- 2002 - 2006 副理事长, 中国计算数学学会
- 2001 - 2006 学术委员会副主任, “大规模科学与工程计算”国家重点实验室
- 2005 - 兼职教授, 吉林大学
- 2004 - 兼职教授, 湘潭大学
- 2004 - 兼职教授, 苏州大学
- 1999 - 2001 兼职教授, 清华大学

学术交流

- 2005-2006 访问学者, Department of Mathematics, Hong Kong University of Science and Technology (3个月)

2005	访问学者, Applied and Computational Mathematics, Princeton University (2 个月)
2004	访问学者, Applied and Computational Mathematics, Princeton University (3 个月)
2002	访问学者, Applied and Computational Mathematics, Princeton University (2 个月)
2001	访问学者, Department of Mathematics, Hong Kong University of Science and Technology (2 个月)
1999	访问学者, Department of Applied Mathematics, California Institute of Technology (2 个月)
1999	访问学者, Department of Mathematics, Hong Kong Baptist University (2 个月)
1998-1999	访问学者, Department of Mathematics, Hong Kong Baptist University (6 个月)
1997	访问学者, Department of Applied Mathematics, California Institute of Technology (10 个月)
1995	访问学者, Department of Applied Mathematics, California Institute of Technology (11 个月)

杂志编委

2007	Journal of Computational Mathematics (JCM)
2006	Communications in Computational Physics (CiCP)
2006	International Journal of Nonlinear Science(IJNS)
2005	Communications in Mathematical Sciences (CMS)
2005	SIAM Journal on Numerical Analysis (SINUM)
2005	Journal of Information and Computational Science(JOICS)
2002	Applied Mathematical Research Express (AMRX);
2007	《工程数学学报》
2006	《数学杂志》
2004	《计算数学》
2004	《计算物理》
2004	《东北数学》

学术会议

会议名称	时间	地点
第六届流体力学计算方法	1993.8	济南
第三次中日计算数学会会议	1996.8	大连
第一界中意应用数学与计算数学会会议	1996.8	北京
力学中偏微分方程与数值计算	1999.5	香港
科学计算会议	1999.6	香港
海内外青年计算数学工作者会议	1999.7	北京
第九届流体力学计算方法	1999.9	温州
第六届全国计算数学会年会	1999.10	上海
中瑞偏微分方程数值解研讨会	2000.1	香港
第二界中意应用数学与计算数学会会议	2000.6	意大利
第一届中韩数值分析及其应用研讨会	2001.2	汉城
科学与工程计算国际研讨会	2001.3	北京
计算与应用偏微分方程国际讨论会	2001.7	张家界
Third China-Sweden Workshop on Computational Mathematics, Goteberg	2002.6	瑞典
Workshop on Multiscale Analysis and Computation	2002.6	台湾
11 th International Conference of Fluid Dynamics and Soft Condensed Matter	2002.8	上海
ICM2002-Beijing Satellite Conference on Scientific Computing	2002.8	西安
科学计算与应用国际研讨会	2003.1	香港
中韩数值分析及其应用国际研讨会	2003.2	北京
Third China-Italy Joint Conference on Computational and Applied Mathematics	2003.11	意大利
中国数学会第九次年会	2003.11	武汉
International Conference of Scientific Computing	2003.12	北京
非线性动力系统和随机偏微分方程国际研讨会	2004.5	北京
International Conference on Superconvergence and A	2004.5	湖南长沙

Posteriori Estimates in FEM		
Symposium on Multiscale Computation in Materials and Biology	2004.5	上海
International Workshop on Wave Propagations	2004.6	北京
The 2 nd International Conference on Inverse Problem	2004.6	上海
International Conference on Frontiers of Applied Mathematics	2004.6	北京
Summer School on Multiscale Modelings and Simulations	2004.6	北京
International Conference on Numerical and Applied PDEs	2004.6	吉林长春
Workshop on Multiscale Rheological Models for Fluids	2004.11	Montreal, Canada
Nanoscale Material Interfaces: Experiment, Theory and Simulation	2005.1	Singapore
The 3rd joint Chinese-Korean Workshop on Recent Progresses on Numerical Analysis and Its Applications	2005.2	South Korea
The Fourth China-Italy Conference: Mathematical Models in Life Science-Theory and Simulation.	2005.6	Beijing
The 1st China-Germany Workshop on Computational and Applied Mathematics	2005.9	Berlin, German
The second International Conference on Scientific Computing and Partial Differential Equations	2005.12	香港
International Conference on Calculus of Variations, PDEs and Nonlinear Analysis	2006.5	北京
Interfacial Dynamics in Complex Fluids	2006.5	Banff, Canada
International Symposium on Polymer Physics	2006.6	Suzhou
2006 International Conferences on Applied Mathematics and Interdisciplinary Research	2006.6	天津
International Conference on Recent Advances in Scientific Computations	2006.6	Beijing
Workshop on Multiscale Modeling of Complex Fluids	2006.6	Beijing
International Conference on PDE and Numerical Analysis	2006.6	长沙
The Symposium on Multi-physics and Muti-Scale Computation of Materials-2006	2006.10	西安
International Workshop on Multiscale Analysis and Applications	2006.12	Singapore
Multiscale Modeling of Complex Fluids	2007.4	Maryland
Canada-China workshop on industrial mathematics	2007.8	Banff, Canada
6 th International Conference on Scientific Computing and applications	2008.6	Busan, Korea
Workshop on Nanoscale Interfacial Phenomena in Complex Fluids	2008.6	Beijing

另外，1999年6月作为政府代表团成员参加由联合国教科文组织在匈牙利举办的世界科学家大会及青年科学家论坛。

所承担的科研项目

课题名称	项目起止时间	经费	所属单位
基于调和映照的协同式自适应方法及其应用	2008. 1-2010. 12	22万	基金委

时空优化问题研究	2006.8-2006.11	14万	中船工业集团
多尺度问题的建模、分析和算法研究 (两个基地)	2006.1-2008.12	25万	基金委
时空优化问题研究	2005.11-2006.1	13万	中船工业集团
聚合物凝聚态的多尺度连贯研究	2004.1-2007.12	28万	基金委
国家重点基础研究发展规划项目“高性能科学计算研究”第四课题“材料物理的多物理多尺度计算研究”	2005.12-2010.11	每年 7-8 万	科技部
国家杰出青年基金(独立)	2003.1-2006.12	100万	基金委
半导体纳米器件量子输运多尺度模型与模拟(合作研究)	2003.1-2005.12	26万	基金委
海外(及港澳)青年学者合作研究基金(合作研究)	2002.1-2004.12	40万	基金委
国家重点基础研究发展规划项目“大规模科学计算研究”第四课题“基础计算方法创新与发展”(课题组长)	1999.10- 2004.9	每年 7-8 万	科技部
提高 ZnO 非线性电阻能量吸收均匀性的研究(排名第二)	2000.1 - 2002.12	6 万元	基金委
和材料科学有关的微分方程数值解(排名第二)	2000.1 - 2002.12	1 万元	教育部,
半导体 MOS 结构模型的参数反演(排名第一)	2001.3 - 2001.8	22.8 万元	摩托罗拉电子有限公司中国公司
关于研制用于 ICF 数值模拟的多重网格解法器的合作协议	2001. 7-2002. 2	15 万元	合作
半导体 MOS 结构模型的参数反演(排名第一)	2000.9 - 2000.12	8.9 万元	摩托罗拉电子有限公司中国公司
水平集方法在铸造过程中的应用(排名第一)	2000.1 - 2000.12	2 万元	中科院金属研究所(沈阳)
合作开展青藏高原天然地震观测资料数学处理方法研究(排名第一)	1999.12 - 2000.11	3 万元	中国地质科学院地质研究所
攀登项目“大规模科学与工程计算的方法和理论”	1997.1 - 1999.9	10.5 万元	科技部项目
边界积分方法和水平积分方法在流体界面运动中应用(独立完成)	1997.1 - 1999.12	3.6 万元	基金委
非线性偏微分方程奇性数值解研究(排名第二)	1997.1 - 1999.12	1 万元	教育部

论文

- 1 Pingwen Zhang, *Viscous Splitting for the Exterior Problem of Navier-Stokes Equations*, Acta Scientiarum Naturalium Universitatis Pekinensis. Vol 27 No.3, (1991).
- 2 Pingwen Zhang, *Viscosity Splitting with Nonzero Tangent Boundary Value*, Numerical Mathematics, A Journal of Chinese Universities. Vol 14, No. 2, (1992)
- 3 Pingwen Zhang, *Exterior Problem for the Three-Dimensional Euler Equation*, Journal of Partial Differential Equations. Vol 5, No. 3, (1992).
- 4 Pingwen Zhang, *A Sharp Estimate of Simplified Viscosity Splitting Scheme*, Journal of Computational Mathematics, Vol 11, No. 3, 295-210, (1993).
- 5 Pingwen Zhang, *A Family of Viscous Splitting Schemes for Navier-Stokes Equations*, Journal of Computational

- Mathematics, Vol. 11, No.1, 20-36,(1993).
- 6 Pingwen Zhang, *A Symmetrical Viscous Splitting Schemes for Navier-Stokes Equations*, Numerical Mathematics, A Journal of Chinese Universities. Vol 1, No. 1, (1993).
- 7 Long-an Ying and Pingwen Zhang, *Fully Discrete Convergence Estimates for Vortex Methods in Bounded Domains*, SIAM Journal on Numerical Analysis, Vol 31, No. 2, 344-361, (1994).
- 8 Pingwen Zhang, *Convergence of Vortex Methods for Exterior Problems*, Chinese Annal of Mathematics 15A(3), 287-296, (1994). (in Chinese).
- 9 Pingwen Zhang, *On Vortex Methods for Initial Boundary Problems*, Northeast. Mathematical Journal, Vol. 10 No. 2, 256-266, (1994).
- 10 Zhenhuan Teng, Long-an Ying and Pingwen Zhang, *Convergence of Variable-Elliptic-Vortex Method for Euler Equations*, SIAM Journal on Numerical Analysis, Vol 32 No. 3, 754-774, (1995).
- 11 Pingwen Zhang, Huaqi Liu and Yu Zhang, *Computation of Wavelet Function*, Journal of Computational Mathematics, Vol 2 (in Chinese) 173-185, (1995).
- 12 Pingwen Zhang, *Convergence of the Point Vortex Methods for Euler Equation on Half Plane*, Journal of Computational Mathematics, Vol. 14, No. 3, 213-222, (1996).
- 13 Thomas Y. Hou, Zhenhuan Teng and Pingwen Zhang, *Well-Posedness for Linearized Motion of 3-D Water Waves Far From Equilibrium*, Communications in Partial Differential Equations, 21 (9&10), 1551-1585, (1996).
- 14 Pingwen Zhang, *Convergence of Vortex Methods in a Bounded Domain Using Linear Finite Elements*, IMA Journal of Numerical Analysis, 16, 539-548, (1996).
- 15 Pingwen Zhang, *Convergence of Vortex With Boundary Element Methods*, Journal of Computational Mathematics, 15: (2) 127-137 (1997).
- 16 Zhenhuan Teng and Pingwen Zhang, *Optimal L^1 -Rate of Convergence for Viscosity Method and Monotone Scheme to Piecewise Constant Solution with Shocks*, SIAM Journal on Numerical Analysis Vol. 34, 3, 959-978 (1997).
- 17 Thomas Y. Hou and Pingwen Zhang, *Growth Rates for the Linearized Motion of 3-D Fluid Interfaces with Surface Tension Far from Equilibrium*, The Asian Journal of Mathematics, Vol.2, 2, 263-288 (1998).
- 18 Long-an Ying and Pingwen Zhang, *Vanishing Curvature Viscosity for Front propagation*, Journal of Differential Equations, 161, 289-306 (2000).
- 19 Pingwen Zhang and Yu Zhang, *Wavelet Boundary Element Methods*, Journal of Computational Mathematics, Vol.18, No.1 25-42 (2000).
- 20 Tao Tang, Weimin Xue and Pingwen Zhang, *Analysis of Moving Mesh Methods Based on geometrical Variables*, Journal of Computational Mathematics, Vol. 19, No.1, 41-54 (2001)
- 21 Thomas Y.Hou and Pingwen Zhang, *A New Stability Technique for Boundary Integral Methods*, Mathematics of Computation Vol. 70 No. 235, 951-976 (2001).
- 22 傅博杰、杨志坚、王仰麟、张平文, *黄土丘陵坡地土壤水分空间分布数学模型*, 中国科学D辑 Vol 44 No.5 395-402 (2001).
- 23 Rou Li, Tao Tang and Pingwen Zhang, *Moving Mesh Methods in Multiple Dimensions Based on Harmonic Maps*, Journal of Computational Physics 170, 562-588 (2001).
- 24 Tiejun Li and Pingwen Zhang, *Numerical Studies of Shallow Water Waves on Slopping Beach with Artificial Boundary*, 计算数学 Vol.23, No.4 503-512 (2001).
- 25 Qiang Du, Dianzhong Li, Yiyi Li, Rou Li and Pingwen Zhang, *Simulating A Double Casting technique Using Level Set Method*, Computational Materials Science 22, 200-212 (2001).
- 26 Thomas Y. Hou and Pingwen Zhang, *Convergence of A Boundary Integral Method for 3-D Water Waves*, Discrete and Continuous Dynamical Systems Series B, Vol. 2, Number 1, 1-34, (2002).
- 27 Pingwen Zhang and Xiaoming Zheng, *Numerical Studies of 2D Free Surface Waves with Fixed Bottom*, Journal of Computational Mathematics, Vol.20, No.4, 391-412, (2002).
- 28 Zhenfu Xu and Pingwen Zhang, *Stability of Boundary Integral Method for Water Wave*, 计算数学 Vol.24, No.3, 311-318 (2002).

- 29 Rou Li, Tao Tang and Pingwen Zhang, *A Moving Mesh Finite Element Algorithm for Singular Problems for Two and Three Space Dimensions*, Journal of Computational Physics 177, 365-393, (2002).
- 30 Qi Wang, Weinan E, Chun Liu and Pingwen Zhang, *A Kinetic Theory for Flows of Nonhomogeneous Rodlike Liquid Crystalline Polymers with a Nonlocal Intermolecular Potential*, Physic Review E, Vol. 65, 051504 (2002).
- 31 Weinan E, Tiejun Li and Pingwen Zhang, *Convergence of a stochastic method for the modeling of polymeric fluids*, Acta Mathematicae Applicatae Sinica, English Series, Vol. 18, 529-536, (2002).
- 32 Thomas Y. Hou, Gang Hu and Pingwen Zhang, *Singularity Formulation of 3D Vortex Sheets*, Physics of Fluids, Vol.15,No.1, 147-172,(2003).
- 33 Pingwen Zhang, Yi Sun, Haiyan Jiang and Wei Yao, *Multi-scale Methods for Inverse Modeling in 1-D Mos Capacitor*, Journal of Computational Mathematics, Vol.21,No.1, 85-100, (2003).
- 34 Huazhong Tang, Tao Tang and Pingwen Zhang, *An Adaptive Mesh Redistribution Method for Nonlinear Hamiltonian-Jacobi Equations in Two- and Three Dimensions*, Journal of Computational Physics, Vol 188/2 543 – 572, (2003).
- 35 Yingxion Xiao, Shi Shu, Pingwen Zhang, Zeyao Mo and Jinchao Xu, 求解二维三温能量方程的半粗化代数多重网格法 (A kind of semi-roarsing AMG method for two dimensional energy equations with three temperatures), 数值计算与计算机应用, 第4期 293-303 (2003).
- 36 Daming Li, Ruo Li and Pingwen Zhang, *A New Coupled Model for Alloy Solidification*, Science in China series A-Mathematics, 47: pp41-52 Suppl. S APR (2004).
- 37 Weinan E, Tiejun Li and Pingwen Zhang, *Well-Posedness for the Dumbbell Model of Polymeric Fluids*, Communications in Mathematical Physics, 248 (2): 409-427, (2004).
- 38 Tiejun Li, Hui Zhang and Pingwen Zhang, *Local Existence for the Dumbbell Model of Polymeric Fluids*, Communications in Partial Differential Equations, 29 (5-6): 903-923 MAY-JUN (2004).
- 39 Hui Zhang and Pingwen Zhang, *A Theoretical and Numerical Study for the Rod-Like Model of a Polymeric Fluid*, Journal of Computational Mathematics 22 (2): 319-330 (2004).
- 40 Tiejun Li, Eric Vanden-Eijnden, Pingwen Zhang and Weinan E, *Stochastic Models of Polymeric Liquids at Small Deborah Number*, Journal of Non-Newtonian Fluid Mechanics, 121, 117-125, (2004).
- 41 Tiejun Li, Pingwen Zhang and Xiang Zhou, *Analysis of 1+1 Dimensional Stochastic Models of Liquid Crystal Polymer Flows*, Communications in Mathematical Sciences, 2, 295-316, (2004).
- 42 Tiao Lu, Pingwen Zhang and Wei Cai, *Discontinuous Galerkin Methods for Dispersive and Lossy Maxwell's Equations and PML Boundary Conditions*, Journal of Computational Physics, 200 (2): 549-580, (2004).
- 43 Chong Luo, Hui Zhang and Pingwen Zhang, *The Structure of Equilibrium Solutions of One-Dimensional Doi Equation*, Nonlinearity, 18, 379-389, (2005).
- 44 Weinan E, Pingbing Ming and Pingwen Zhang, *Analysis of the Heterogeneous Multiscale Method for Elliptic Homogenization Problems*, Journal of the American Mathematical Society 18 (1): 121-156, (2005).
- 45 Tiao Lu, Wei Cai and Pingwen Zhang, *Conservative Local Discontinuous Galerkin Methods for Time Dependent Schrödinger Equation*, International Journal of Numerical Analysis & Modeling Vol. 2 (1), 75-84 (2005).
- 46 Tiao Lu, Wei Cai and Pingwen Zhang, *Discontinuous Galerkin Time-Domain Method for GPR Simulation in Dispersive Media*, IEEE Transactions on Geoscience and Remote Sensing 43 (1): 72-80, (2005).
- 47 Yana Di, Ruo Li, Tao Tang and Pingwen Zhang *Moving Mesh Finite Element Methods for the Incompressible Navier-Stokes Equations* SIAM Journal on Scientific Computing 26 (3): 1036-1056, (2005).
- 48 Hailiang Liu, Hui Zhang and Pingwen Zhang, *Axial Symmetry and Classification of Stationary Solutions of Doi-Onsager Equation on the Sphere With Maier-Saupe Potential*, Communications in Mathematical Sciences, 3 201-218, (2005).
- 49 Xia Ji, Tiao Lu T, Wei Cai and Pingwen Zhang, *Discontinuous Galerkin Time Domain (DGTD) Methods for the Study of 2-D Waveguide-Coupled Microring Resonators*, Journal of Lightwave Technology 23 (11):

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- 50 Haiyang Jiang and Pingwen Zhang, *Model Analysis and Parameter Extraction for MOS Capacitor Including Quantum Mechanical Effects*, Journal of Computational Mathematics 24 (3): 401-411 MAY (2006).
- 51 Tiejun Li and Pingwen Zhang, *Convergence Analysis of BCF Method for Hookean Dumbbell Model with Finite Difference Scheme*, Multiscale Modeling & Simulation 5 (1): 205-234 (2006).
- 52 Hui Zhang and Pingwen Zhang, *Local Existence for the FENE-Dumbbell Model of Polymeric Fluids*, Archive for Rational Mechanics and Analysis 181 (2): 373-400 JUL (2006).
- 53 Dongzhuo Zhou, Pingwen Zhang and Weinan E, *Modified Models of Polymer Phase Separation*, Physical Review E 73 (6): Art. No. 061801 Part 1 JUN (2006).
- 54 Yana Di and Pingwen Zhang, *Moving Mesh Kinetic Simulation for Sheared Rodlike Polymers with High Potential Intensities*, Communications in Computational Physics, 1 859-873. (2006).
- 55 Yana Di, Ruo Li, Tao Tang, and Pingwen Zhang, *Moving Mesh Methods for Singular Problems on A Sphere Using Perturbed Harmonic Mappings*, SIAM Journal on Scientific Computing, 28, 1490-1508. (2006).
- 56 Pingbing Ming and Pingwen Zhang, *Analysis of the Heterogeneous Multiscale Method for Parabolic Homogenization Problems*, Mathematics of Computation 76 (257): 153-177 (2006).
- 57 Guanghua Ji, Qi Wang, Pingwen Zhang and Hong Zhou, *Study of Phase Transition in Homogeneous, Rigid Extended Nematics and Magnetic Suspensions Using an Arder-Reduction Method*, Physics of Fluids, 18, 123103 (2006).
- 58 Weinan E and Pingwen Zhang, *A Molecular Kinetic Theory of Inhomogeneous Liquid Crystal Flow and the Small Deborah Number Limit*, Methods and Applications of Analysis Vol. 13, No. 2, 181-198, JUN (2006).
- 59 Xia Ji, Wei Cai and Pingwen Zhang, *High Order DGTD Methods for Dispersive Maxwell's Equations and Modeling of Silver Nanowire Coupling*, International Journal for Numerical Methods in Engineering, 69, 308-325 (2007).
- 60 Haijun Yu and Pingwen Zhang, *A Kinetic-Hydrodynamic Simulation of Microstructure of Liquid Crystal Polymers in Plane Shear Flow*, Journal of Non-Newtonian Fluid Mechanics 141 (2-3): 116-127 FEB 15 (2007).
- 61 Daming Li, Ruo Li and Pingwen Zhang, *A Cellular Automaton Technique for Modelling of A Binary Dendritic Growth with Convection* Applied Mathematical Modelling 31 (6): 971-982 JUN (2007).
- 62 Tiejun Li and Pingwen Zhang, *Mathematical Analysis of Multi-scale Models of Complex Fluids*, Communications in Mathematical Sciences 5 (1): 1-51 MAR (2007).
- 63 Yana Di, Ruo Li, Tao Tang and Pingwen Zhang, *Level set Calculations for Incompressible Two-Phase Flows on A Dynamically Adaptive Grid*, Journal of Scientific Computing 31 (1-2): 75-98 MAY (2007).
- 64 Dan Hu, Pingwen Zhang and Weinan E, *Continuum Theory of A Moving Membrane*, Physical Review E 75 (4): Art. No. 041605 Part 1 APR (2007).
- 65 Hui Zhang and Pingwen Zhang, *Stable Dynamic States at the Nematic Liquid Crystals in Weak Shear Flow*, Physica D-Nonlinear Phenomena 232 (2): 156-165 (2007).
- 66 Congmin Wu, Tiezhen Qian, Pingwen Zhang, *Non-Equilibrium Molecular-Dynamics Measurement of the Leslie Coefficients of A Gay-Berne Nematic Liquid Crystal*, Liquid Crystals 34 (10): 1175-1184 (2007).
- 67 Guanghua Ji, Qi Wang, Pingwen Zhang, Hongyun Wang and Hong Zhou, *Steady States and Their Stability of Homogeneous, Rigid, Extended Nematic Polymers under Imposed Magnetic Fields*, Communications in Mathematical Sciences 5 (4): 917-950 DEC (2007).
- 68 Guoxian Chen, Huazhong Tang and Pingwen Zhang, *Second-Order Accurate Godunov Scheme for Multicomponent Flows on Moving Triangular Meshes*, Journal of Scientific Computing Volume: 34 64-86 (2008).
- 69 Lingyun Zhang, Hui Zhang and Pingwen Zhang, *Global Existence of Weak Solutions to the Regularized*

- Hookean Dumbbell Model*, Communications in Mathematical Sciences 6 (1): 85-124 (2008).
- 70 Han Wang, Kun Li and Pingwen Zhang, *Crucial Properties of the Moment Closure Model FENE-QE*, Journal of Non-Newtonian Fluid Mechanics, 150(2-3), 80-92 (2008)
- 71 Pingwen Zhang and Xinwei Zhang, *An Efficient Numerical Method of Landau-Brazovskii Model*, Journal of Computational Physics, 227 (11) 5859-5870 (2008).
- 72 Peng Song and Pingwen Zhang, *Numerical Simulation of Fluid Membranes in Two-Dimensional Space*, Communications in Computational Physics, 3(4) 794-821 (2008).
- 73 Xia Ji, Wei Cai and Pingwen Zhang, *Reflection/Transmission Characteristics of A Discontinuous Galerkin Method for Maxwell's Equations in Dispersive Inhomogeneous Media*, Journal of Computational Mathematics, 26 (3): 347-364 MAY (2008).
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