

论著目录

出版专著与教材：

专著《最优控制问题高效算法理论》(英文版)，(由国家出版基金资助、入选信息与计算科学丛书)，科学出版社，2015 年 11 月，陈艳萍、鲁祖亮著。

主编研究生教材《偏微分方程数值解》(由国家出版基金资助、入选信息与计算科学丛书)。科学出版社，2015 年 1 月，陈艳萍、鲁祖亮、刘利斌编著。

《数值计算方法》，科学出版社，2009 年 1 月，黄云清、舒适、陈艳萍、金继承、文立平编著。(入选了“普通高等教育十二五国家级规划教材”和国家级十一·五规划教材，获 2009 年度普通高等教育精品教材)

《数学建模教学与评估指南》，上海大学出版社，2017 年 6 月，梁贯成、赖明治、乔中华、陈艳萍编译。(本书英文版由美国工业与应用数学学会 (SIAM)、数学及其应用联合会 (COMAP)、全国数学教师协会 (NCTM) 联合推出，是影响美国数学教育、落实美国数学课程共同核心国家标准 (CCSSM) 的一部力作)

论著目录：(*通讯作者)

1. Yunxia Wei and **Yanping Chen***, A Jacobi spectral method for solving multidimensional linear Volterra integral equation of the second kind, Journal of Scientific Computing. (accepted, Jan. 15, 2019) (SCI 刊物, *通讯作者)
2. Haitao Leng, **Yanping Chen***, and Yunqing Huang, Equivalent a posteriori error estimates for elliptic optimal control problems with L1-control cost, Computers and Mathematics with Applications. (accepted, Oct. 9, 2018) (SCI 刊物, *通讯作者)
3. Chuanjun Chen, Kang Li, **Yanping Chen***, and Yunqing Huang, Two-grid finite element methods combined with Crank-Nicolson scheme for nonlinear Sobolev equations, Advances in Computational Mathematics. (accepted, August 7, 2018) (SCI 刊物, *通讯作者)
4. Yunxia Wei, **Yanping Chen*** and Yunqing Huang, Legendre collocation method for Volterra integro-differential algebraic equation, Computational Methods in Applied Mathematics. (accepted, June, 2018) (SCI 刊物, *通讯作者)
5. Fenglin Huang, **Yanping Chen***, and Yunqing Huang, A priori error estimates of Meshless method for optimal control problems of stochastic elliptic PDEs, International Journal of Computer Mathematics. (accepted, May, 2018) (SCI 刊物, *通讯作者)
6. Haotao Cai, **Yanping Chen***, and Yunqing Huang, A Legendre-Petrov-Galerkin method for solving Volterra Integro-differential equations with proportional delays, International Journal of Computer Mathematics. (accepted, April 2, 2018) (SCI 刊物, *通讯作者)

7. **Yanping Chen**, Haitao Leng, and Wendi Yang, Error estimates of pseudostress-velocity MFEM for optimal control problems governed by stokes equations, *Applied Numerical Mathematics*, 135, 2019, pp. 407-422. (SCI 刊物, *通讯作者)
8. Weishan Zheng, **Yanping Chen***, and Yunqing Huang, Convergence analysis of Legendre-collocation spectral methods for second order Volterra integro-differential equation with delay, *Advances in Applied Mathematics and Mechanics*, Vol. 11, No. 1, Feb. 2019, pp. 1-15. (SCI 刊物, *通讯作者)
9. Xingfa Yang, Yin Yang, **Yanping Chen** and Jie Liu, Jacobi Spectral Collocation Method Based on Lagrange Interpolation Polynomials for Solving Nonlinear Fractional Integro-Differential Equations, *Advances in Applied Mathematics and Mechanics*, Vol. 10, No. 6, December 2018, pp. 1440-1458. (SCI 刊物, *通讯作者)
10. Guanrong Li, **Yanping Chen***, and Yunqing Huang, A new weak Galerkin finite element scheme for general second-order elliptic problems, *Journal of Computational and Applied Mathematics*, Volume 344, December 2018, pp. 701-715. (SCI 刊物, *通讯作者)
11. Yang Wang and **Yanping Chen***, A two-grid method for incompressible miscible displacement problems by mixed finite element and Eulerian-Lagrangian localized adjoint methods, *Journal of Mathematic Analysis and Applications*, Volume 468, Issue 1, December 2018, pp. 406-422. (SCI 刊物, *通讯作者)
12. Jiming Yang, **Yanping Chen**, and Yunqing Huang*, A priori error estimates of a combined mixed finite element and local discontinuous Galerkin method for an incompressible miscible displacement problem, *Applied Mathematics and Computation*, Vol. 334, October 2018, pp. 141-151. (SCI 刊物)
13. Jianyun Wang and **Yanping Chen***, Superconvergence analysis of bi-k degree rectangular elements for two-dimensional time-dependent Schrodinger equations, *Applied Mathematics and Mechanics*, Volume 39, Issue 9, September 2018, pp. 1353 - 1372. (SCI 刊物, *通讯作者)
14. Jiaoyan Zeng, **Yanping Chen***, and Hanzhang Hu, Two-grid method for compressible miscible displacement problem by CFEM-MFEM, *Journal of Computational and Applied Mathematics*, Vol. 337, August 2018, pp. 175-189. (SCI 刊物, *通讯作者)
15. Weishan Zheng and **Yanping Chen***, Chebyshev spectral method for Volterra integral equation with multiple delays, *Journal of Mathematical Study*, Vol. 51, No. 2, June 2018, pp. 214-226. (*通讯作者)
16. Keyan Wang and **Yanping Chen***, Analysis of two-grid discretization scheme for semilinear hyperbolic equations by mixed finite element methods, *Mathematical Methods in the Applied Sciences*, Vol. 41, Issue 9, June 2018, pp. 3370-3391. (SCI 刊物, *通讯作者)
17. Shang Liu, **Yanping Chen***, Yunqing Huang, and Jie Zhou, Two-grid methods for miscible displacement problem by Galerkin methods and mixed finite element methods, *International Journal of Computer Mathematics*, Vol. 95, No. 8, May 2018, pp. 1453-1477. (SCI 刊物, *通讯作者)
18. Haotao Cai and **Yanping Chen***, A fractional order collocation method for second kind Volterra integral equations with weakly singular kernels, *Journal of Scientific Computing*, Volume 75, Issue 2, May 2018, pp. 970 - 992. (SCI 刊物, *通讯作者)

19. Xin Zhao and **Yanping Chen***, Mortar element method for the coupling of Navier-Stokes and Darcy flows, *Advances in Applied Mathematics and Mechanics*, Vol. 10, No. 3, April 2018, pp. 710-734. (SCI 刊物, *通讯作者)
20. Zhikun Tian, **Yanping Chen***, and Jianyun Wang, Superconvergence analysis of bilinear finite element for the nonlinear Schrodinger equation on the rectangular mesh, *Advances in Applied Mathematics and Mechanics*, Vol. 10, Issue 2, April 2018, pp. 468-484. (SCI 刊物, *通讯作者)
21. Luoping Chen and **Yanping Chen***, A novel discretization method for semilinear reaction-diffusion equation, *Advances in Applied Mathematics and Mechanics*, Vol. 10, No. 2, April 2018, 375-389. (SCI 刊物, *通讯作者)
22. Luoping Chen, **Yanping Chen***, and Xiong Liu, A two level sparse grid collocation method for semilinear stochastic elliptic equations, *Computational Method in Applied Mathematics*, Vol. 18, Issue 2, April 2018, pp. 165-179. (SCI 刊物, *通讯作者)
23. Haitao Leng and **Yanping Chen***, Convergence and quasi-optimality of an adaptive finite element method for optimal control problems with integral control constraint, *Advances in Computational Mathematics*, Vol. 44, Issue 2, April 2018, pp. 367-394. (SCI 刊物, *通讯作者)
24. Chuanjun Chen, **Yanping Chen***, and Xin Zhao, A posteriori error estimates of two-grid finite volume element methods for nonlinear elliptic problems, *Computers and Mathematics with Applications*, Vol. 75, Issue 5, March 2018, pp. 1756-1766. (SCI 刊物, *通讯作者)
25. Yunxia Wei, **Yanping Chen***, and Xiulian Shi, A spectral collocation method for multidimensional nonlinear weakly singular Volterra integral equation, *Journal of Computational and Applied Mathematics*, Vol. 331, No. 15, March 2018, pp. 52-63. (SCI 刊物, *通讯作者)
26. Xiong Liu and **Yanping Chen***, Convergence analysis for the Chebyshev collocation methods to Volterra integral equations with a weakly singular kernel, *Advances in Applied Mathematics and Mechanics*, Vol. 9, No. 6, December 2017 pp. 1506-1524. (SCI 刊物)
27. Haitao Leng and **Yanping Chen***, Convergence and quasi-optimality of an adaptive finite element method for optimal control problems on L^2 errors, *Journal of Scientific Computing*, Vol. 73, Issue 1, October 2017, pp 438–458. (SCI 刊物)
28. Keyan Wang and **Yanping Chen***, Two-grid mixed finite element method for nonlinear hyperbolic equations, *Computers & Mathematics with Applications*, Vol. 74, Issue 6, 15 September 2017, pp. 1489-1505. (SCI 刊物)
29. **Yanping Chen** and Fenglin Huang, Spectral method approximation of flow optimal control problems with H^1 -norm state constraint, *Numerical Mathematics: Theory, Methods and Applications*, Vol. 10, Issue 3, August 2017, pp. 614-638. (SCI 刊物)
30. Yunxia Wei and **Yanping Chen***, Legendre spectral collocation method for Volterra-Hammerstein integral equation of the second kind, *Acta Mathematica Scientia*, Vol. 37, Issue 4, July 2017, pp. 1105-1114. (SCI 刊物, *通讯作者)
31. Shang Liu and **Yanping Chen***, A new two-grid method for expanded mixed finite element solution of nonlinear reaction diffusion equations, *Advances in Applied Mathematics and Mechanics*, Vol. 9, No. 3, June 2017, pp. 757-774. (SCI 刊物)

32. Yin Yang, **Yanping Chen**, Yunqing Huang, and Huayi Wei, Spectral collocation method for the time-fractional diffusion-wave equation and convergence analysis, *Computers and Mathematics with Applications*, Vol. 73, Issue 6, 15 March 2017, pp. 1218-1232. (SCI 刊物)
33. Libin Liu and **Yanping Chen***, A-posteriori error estimation in maximum norm for a strongly coupled system of two singularly perturbed convection-diffusion problems, *Journal of Computational and Applied Mathematics*, Vol. 313, March 2017, pp. 152–167. (SCI 刊物)
34. Yin Yang and **Yanping Chen**, Spectral collocation methods for nonlinear Volterra integro-differential equations with weakly singular kernels, *Bulletin of the Malaysian Mathematical Sciences Society*, March 2017, DOI 10.1007/s40840-017-0487-7. (SCI 刊物)
35. Yunxia Wei, **Yanping Chen**, Xiulian Shi, and Yuanyuan Zhang, Jacobi spectral collocation method for the approximate solution of multidimensional nonlinear Volterra integral equation, *SpringerPlus*, (2016) 5:1710. DOI 10.1186/s40064-016-3358-z (SCI 刊物, *通讯作者)
36. Hanzhang Hu, **Yanping Chen***, and Jie Zhou, Two-grid method for miscible displacement problem by mixed finite element methods and finite element method of characteristics, *Computers and Mathematics with Applications*, Vol. 72, Issue 11, December 2016, pp. 2694 – 2715. (SCI 刊物, *通讯作者)
37. **Yanping Chen** and Libin Liu, An adaptive grid method for singularly perturbed time-dependent convection-diffusion problems, *Communications in Computational Physics*, Vol. 20, No. 5, November 2016, pp. 1340-1358. (SCI 刊物, *通讯作者)
38. **Yanping Chen** and Hanzhang Hu, Two-grid method for miscible displacement problem by mixed finite element methods and mixed finite element method of characteristics, *Communications in Computational Physics*, Vol.19, No. 5, May 2016, pp. 1503-1528. (SCI 刊物)
39. **Yanping Chen** and Keyan Wang, Two-Grid scheme for the mixed finite element approximations of nonlinear hyperbolic equations, *Journal of South China Normal University (Natural Science Edition)*, Vol. 48, No. 3, 2016, pp. 1-6. (in Chinese)
40. **Yanping Chen** and Fenglin Huang, A new error estimates for elliptic optimal control problems with control and state constraints, *Journal of South China Normal University (Natural Science Edition)*, Vol. 48, No. 5, 2016, pp. 86-91. (in Chinese)
41. **Yanping Chen**, JiaoyanZeng, and Jie Zhou, L^p error estimates of two-grid method for miscible displacement problem, *Journal of Scientific Computing*, Vol. 69, Issue 1, 2016, pp. 28-51. (SCI 刊物)
42. Hanzhang Hu and **Yanping Chen***, A conservative difference scheme for two-dimensional nonlinear Schrödinger equation with wave operator, *Numerical Methods for Partial Differential Equations*, Vol. 32, Issue 3, 2016, pp. 862-876. (SCI 刊物, *通讯作者)
43. **Yanping Chen** and Fenglin Huang, Galerkin spectral approximation of elliptic optimal control problems with H^1 -norm state constraint, *Journal of Scientific Computing*, Vol. 67, 2016, pp. 65-83. (SCI 刊物)
44. Xiulian Shi and **Yanping Chen***, Spectral-collocation method for Volterra delay integro-differential equations with weakly singular kernels, *Advances in Applied Mathematics and Mechanics*, Vol. 8, No. 4, 2016, pp. 648-669. (SCI刊物, *通讯作者)

45. Fenglin Huang, **Yanping Chen***, and Xiulian Shi, Equivalent a posteriori error estimator of spectral approximation for control problems with integral control-state constraints in one dimension, *Advances in Applied Mathematics and Mechanics*, Vol. 8, No. 3, 2016, pp. 464-484. (SCI 刊物, *通讯作者)
46. Chunjuan Hou, **Yanping Chen**, and Zuliang Lu, A posteriori error estimates of mixed finite element solutions for fourth order parabolic control problems, *Journal of Inequalities and Applications*, December 2015, 2015:240.DOI: 10.1186/s13660-015-0762-9 (SCI 刊物)
47. **Yanping Chen** and Zuliang Lu, *High Efficient and Accuracy Numerical Methods for Optimal Control Problems*, Series in Information and Computational Science 72, Published by Science Press, November, 2015.
48. **Yanping Chen**, Zuliang Lu, and Libin Liu, Numerical solution for Partial Differential Equations, Series in Information and Computational Science 67, Published by Science Press, January, 2015.
49. **Yanping Chen**, Yunqing Huang, Wenbin Liu, and Ningning Yan, A mixed multiscale finite element method for convex optimal control problems with oscillating coefficients, *Computers and Mathematics with Applications*, Vol. 70, Issue 4, August 2015, pp. 297-313. (SCI 刊物)
50. Zhendong Gu and **Yanping Chen***, Piecewise Legendre spectral-collocation method for Volterra integro-differential equations, *LMS Journal of Computation and Mathematics*, Vol. 18, No. 1, 2015, pp. 231-249. (SCI 刊物, *通讯作者)
51. **Yanping Chen** and Jianwei Zhou, Error estimates of spectral Legendre- Galerkin methods for the fourth-order equation in one dimension, *Applied Mathematics and Computation*, Vol. 268, No. 1, 2015, pp. 1217-1226. (SCI 刊物)
52. Tianliang Hou and **Yanping Chen***, Superconvergence of fully discrete rectangular mixed finite element methods of parabolic control problems, *Journal of Computational and Applied Mathematics*, Vol. 286, 2015, pp. 79–92. (SCI 刊物, *通讯作者)
53. **Yanping Chen** and Zhuoqing Lin, A posteriori error estimates of semidiscrete mixed finite element methods for parabolic optimal control problems, *East Asian Journal on Applied Mathematics*, Vol. 5, No. 1, 2015, pp. 85-108. (SCI 刊物)
54. **Yanping Chen**, Haitao Leng, and Li-Bin Liu, Error analysis for a non-monotone FEM for a singularly perturbed problem with two Small parameters, *Adv. Appl. Math. Mech.*, Vol. 7, No. 2, 2015, pp. 196-206. (SCI 刊物)
55. Tianliang Hou and **Yanping Chen***, Mixed discontinuous Galerkin time-stepping method for linear parabolic optimal control problems, *Journal of Computational Mathematics*, Vol.33, No.2, 2015, 158–178.(SCI 刊物, *通讯作者)
56. Yin Yang, **Yanping Chen***, Yunqing Huang, and Wei Yang, Convergence analysis of Legendre-collocation methods for nonlinear Volterra type integro-equations, *Advances in Applied Mathematics and Mechanics*, Vol. 7, No. 1, 2015, pp. 74-88. (SCI 刊物, *通讯作者)
57. Libin Liu and **Yanping Chen***, An adaptive moving grid method for a system of singularly perturbed initial value problems, *Journal of Computational and Applied Mathematics*, Vol. 274, 2015, pp. 11–22. (SCI 刊物, *通讯作者)

58. Fenglin Huang and **Yanping Chen***, Error estimates for spectral approximation of elliptic control problems with integral state and control constraints, *Computers and Mathematics with Applications*, Vol. 68, No. 8, 2014, pp. 789–803. (SCI 刊物, *通讯作者)
59. Libin Liu and **Yanping Chen***, A robust adaptive grid method for a system of two singularly perturbed convection-diffusion equations with weak coupling, *Journal of Scientific Computing*, Vol. 61, No. 1, 2014, pp. 1–16. (SCI 刊物, *通讯作者)
60. **Yanping Chen** and Chunmei Sun, Error estimates and superconvergence of mixed finite element methods for fourth order hyperbolic control problems, *Applied Mathematics and Computation*. 244 (2014), pp. 642–653. (SCI 刊物)
61. Yin Yang, **Yanping Chen**, and Yunqing Huang, Spectral-collocation method for fractional Fredholm integro-differential equations, *J. Korean Math. Soc.*, 51 (2014), No. 1, pp. 203–224. (SCI 刊物)
62. Xianbing Luo, **Yanping Chen***, Yunqing Huang, and Tianliang Hou, Some error estimates of finite volume element method for parabolic optimal control problems, *Optimal Control Applications and Methods*, Volume 35, Issue 2, 2014, pp. 145–165. (SCI 刊物, *通讯作者)
63. Yin Yang, **Yanping Chen***, and Yunqing Huang, Convergence analysis of the Jacobi spectral-collocation method for fractional integro-differential equations, *Acta Mathematica Scientia*, 2014, 34B (3): 673–690. (SCI 刊物, *通讯作者)
64. **Yanping Chen** and Yijie Lin, A posteriori error estimates for control problems governed by nonlinear elliptic equations in *hp*-FEM, *Applied Mathematics and Computation*, 238 (2014) 163–176. (SCI 刊物)
65. Luoping Chen and **Yanping Chen***, Two-grid discretization scheme for nonlinear reaction diffusion equations by mixed finite element methods, *Advances in Applied Mathematics and Mechanics*, Vol. 6, No. 2, April 2014, pp. 203–219. (SCI刊物, *通讯作者)
66. Zhiguang Xiong and **Yanping Chen***, A triangular finite volume element method for a semilinear elliptic equation, *Journal of Computational Mathematics*, Vol.32, No.2, 2014, 152–168. (SCI刊物, *通讯作者)
67. Yunxia Wei and **Yanping Chen***, Legendre spectral collocation method for neutral and high-order Volterra integro-differential equation, *Applied Numerical Mathematics*, 81 (2014), 15–29. (SCI刊物, *通讯作者)
68. Zhendong Gu and **Yanping Chen***, Legendre spectral-collocation method for Volterra integral equations with non-vanishing delay, *Calcolo*, Volume 51, Issue 1, March 2014, pp. 151–174. (SCI刊物, *通讯作者)
69. Fang Wang, **Yanping Chen***, and Yuelong Tang, Superconvergence of fully discrete splitting positive definite mixed FEM for hyperbolic equations, *Numerical Methods for Partial Differential Equations*, Vol. 30, Issue 1, January 2014, pp. 175–186. (SCI 刊物, *通讯作者)
70. Libin Liu and **Yanping Chen***, Maximum norm a posteriori error estimates for a singularly perturbed differential difference equation with small delay, *Applied Mathematics and Computation*, Vol. 227, 15 January 2014, pp. 801–810. (SCI刊物, *通讯作者)
71. Yongquan Dai and **Yanping Chen***, Superconvergence for general convex optimal control problems governed by semilinear parabolic equations, *ISRN Applied Mathematics*, Volume

2014 (2014), pp. 1-12. (SCI刊物, *通讯作者)

72. **Yanping Chen**, Tianliang Hou, and Nianyu Yi, Variational discretization for optimal control problems governed by parabolic equations, *Journal of Systems Science and Complexity*, Vol. 26, No. 6, December 2013, pp 902-924. (SCI 刊物)
73. **Yanping Chen** and Zhendong Gu, Legendre spectral-collocation method for Volterra integral differential equations with non-vanishing delay, *Communications in Applied Mathematics and Computational Science*, Vol. 8, No. 1, December 2013, pp. 67-98. (SCI刊物)
74. **Yanping Chen** and Tianliang Hou, Error estimates and superconvergence of RT0 mixed methods for a class of semilinear elliptic optimal control problems, *Numerical Mathematics Theory, Methods and Applications*, Vol. 6, No. 4, November 2013, pp. 637-656. (SCI 刊物)
75. **Yanping Chen** and Libin Liu, An adaptive moving grid method for a singularly perturbed convection-diffusion problem, *Journal of South China Normal University (Natural Science Edition)*, Vol. 45, No. 6, November 2013, pp. 1-5. (in Chinese)
76. Yuelong Tang and **Yanping Chen***, Superconvergence of finite element methods for optimal control problems governed by parabolic equations with time-dependent coefficients, *East Asian Journal on Applied Mathematics*, Vol. 3, No. 3, August 2013, pp. 209-227. (SCI刊物, *通讯作者)
77. **Yanping Chen**, Zuliang Lu, and Yunqing Huang, Superconvergence of triangular Raviart-Thomas mixed finite element methods for bilinear constrained optimal control problem, *Computers and Mathematics with Applications*, Vol. 66, Issue 8, November 2013, pp. 1498-1513. (SCI刊物)
78. Jiming Yang, **Yanping Chen**, and Zhiguang Xiong, Superconvergence of a full-discrete combined mixed finite element and discontinuous Galerkin method for a compressible miscible displacement problem, *Numerical Methods for Partial Differential Equations*, Vol. 29, Issue 6, November 2013, pp. 1801-1820. (SCI 刊物)
79. Xianbing Luo, **Yanping Chen***, and Yunqing Huang, A priori error estimates of Crank-Nicolson finite volume element method for parabolic optimal control problems, *Advances in Applied Mathematics and Mechanics.*, Vol. 5, No. 5, 2013, pp. 688-704. (SCI 刊物, *通讯作者)
80. Xianbing Luo, **Yanping Chen***, and Yunqing Huang, Some error estimates of finite volume element approximation for elliptic optimal control problems, *International Journal of Numerical Analysis and Modeling*, Vol. 10, No. 3, October 2013, pp. 697-711. (SCI 刊物, *通讯作者)
81. Zhendong Gu and **Yanping Chen***, Chebyshev spectral-collocation method for Volterra integral equations, *Contemporary Mathematics*, Volume 586, 2013, pp. 163-170. The Proceedings of the 8th International Conference on Scientific Computing and Applications. (ISTP收录, *通讯作者)
82. **Yanping Chen**, Luoping Chen, and Xiaochun Zhang, Two-grid method for nonlinear parabolic equations by expanded mixed finite element methods, *Numerical Methods for Partial Differential Equations*, Vol. 29, Issue 4, July 2013, pp. 1238-1256. (SCI 刊物)
83. Tianliang Hou and **Yanping Chen***, Superconvergence for elliptic optimal control problems discretized by RT1 mixed finite elements and linear discontinuous elements, *Journal of Industrial and Management Optimization*, Vol. 9, No. 3, July 2013, pp. 631-642. (SCI刊物,

*通讯作者)

84. Yunxia Wei and **Yanping Chen***, A spectral method for neutral Volterra integro-differential equation with weakly singular kernel, Numerical Mathematics: Theory, Methods and Applications, Vol. 6, No. 2, May 2013, pp. 424-446. (SCI刊物, *通讯作者)
85. Xianbing Luo, **Yanping Chen***, and Yunqing Huang, A priori error estimates of finite volume element method for hyperbolic optimal control problems, Science in China Series A: Mathematics, Vol. 56, No. 5, May 2013, pp. 901-914. (SCI刊物, *通讯作者)
86. Weishan Zheng and **Yanping Chen***, A spectral method for second order Volterra integro-differential equations with pantograph delay, Advances in Applied Mathematics and Mechanics, Vol. 5, No. 2, April 2013, pp. 131-145. (SCI刊物, *通讯作者)
87. Tianliang Hou and **Yanping Chen***, Superconvergence of RT1 mixed finite element approximations for elliptic control problems, Science in China Series A: Mathematics, Vol. 56, No. 2, February 2013, pp. 267-281. (SCI刊物, *通讯作者)
88. Yuelong Tang and **Yanping Chen***, Superconvergence analysis of fully discrete finite element methods for semilinear parabolic optimal control problems, Frontiers of Mathematics in China, Vol. 8, No. 2, 2013, pp. 443-464. (SCI刊物, *通讯作者)
89. **Yanping Chen**, Xianjuan Li, and Tao Tang, A note on Jacobi spectral-collocation methods for weakly singular Volterra integral equations with smooth solutions, Journal of Computational Mathematics, Vol. 31, No. 1, 2013, pp. 47-56. (SCI刊物)
90. Zuliang Lu and **Yanping Chen***, A priori error estimates of mixed finite element methods for general semilinear elliptic optimal control problems, Computational Mathematics and Modeling, Volume 24, Issue 1, 2013, pp. 114-135. (SCI刊物, *通讯作者)
91. **Yanping Chen**, Zuliang Lu, and Min Fu, A posteriori error estimates for mixed finite element approximation of nonlinear quadratic optimal control problems, Optimization Methods and Software, Vol. 28, No. 1, 2013, pp. 37-53. (SCI收录)
92. **Yanping Chen**, Tianliang Hou, and Weishan Zheng, Error estimates and Superconvergence of mixed finite element methods for optimal control problems with low regularity, Advances in Applied Mathematics and Mechanics, Vol. 4, No. 6, December 2012, pp. 751-768. (SCI刊物)
93. Yunxia Wei and **Yanping Chen***, Legendre spectral collocation methods for pantograph Volterra delay-integro-differential equations, Journal of Scientific Computing, Vol. 53, No. 3, 2012, pp. 672-688. (SCI收录, *通讯作者)
94. Yuelong Tang and **Yanping Chen***, Variational discretization for parabolic optimal control problems with control constraints, Journal of Systems Science and Complexity, Vol. 25, 2012, pp. 880-895. (SCI收录, *通讯作者)
95. **Yanping Chen**, Yunqing Huang, and Tianliang Hou, Richardson extrapolation and defect correction of mixed finite element methods for elliptic optimal control problems, J. Korean Math. Soc. 49 (2012), No. 3, pp. 549-569. (SCI收录)
96. Yuelong Tang and **Yanping Chen***, Recovery type a posteriori error estimates of fully discrete finite element methods for general convex parabolic optimal control problems, Numerical Mathematics: Theory, Methods and Applications, Vol. 5, No. 4, 2012, pp. 573-591. (SCI收录, *通讯作者)

97. **Yanping Chen** and Tianliang Hou, Superconvergence and L^∞ -error estimates of RT1 mixed methods for semilinear elliptic control problems with an integral constraint, Numerical Mathematics: Theory, Methods and Applications, Vol. 5, No. 3, 2012, pp. 423-446. (SCI 收录)
98. Zuliang Lu, **Yanping Chen***, and Weishan Zheng, A posteriori error estimates of lowest order Raviart-Thomas mixed finite element methods for bilinear optimal control problems, East Asia Journal on Applied Mathematics, Vol. 2, No. 2, 2012, pp. 108-125. (SCI 收录, *通讯作者)
99. **Yanping Chen**, Zuliang Lu, and Ruyi Guo, Error estimates of triangular mixed finite element methods for quasilinear optimal control problem, Front. Math. China, 2012, 7(3): 397-413. (SCI 收录)
100. Jiming Yang and **Yanping Chen**, A posteriori error analysis for a fully discrete discontinuous Galerkin approximation to a kind of reactive transport problems, Journal of Systems Science and Complexity, (2012) 25: 398-409. (SCI 收录)
101. Liu Yang, **Yanping Chen***, and Xiaojiao Tong, A note on local sensitivity analysis for parametric optimization problem, Pacific Journal of Optimization, Vol. 8, No. 1, 2012, pp. 185-195. (SCI 收录, *通讯作者)
102. **Yanping Chen** and Zuliang Lu, L^∞ -estimates of mixed finite element methods for general nonlinear optimal control problems, Journal of Systems Science and Complexity, Vol. 25, No. 1, 2012, pp. 105-120. (SCI 刊物)
103. Jiming Yang, and **Yanping Chen**, Superconvergence of a combined mixed finite element and discontinuous Galerkin approximation for an incompressible miscible displacement problem, Applied Mathematical Modelling, Vol. 36, 2012, pp. 1106-1113. (SCI 收录)
104. Yunxia Wei and **Yanping Chen***, Convergence analysis of the spectral methods for weakly singular Volterra integro-differential equations with smooth solutions, Advances in Applied Mathematics and Mechanics, Vol. 4, No. 1, 2012, pp. 1-20. (SCI 收录, *通讯作者)
105. Jianmei Yuan, **Yanping Chen***, and Yuliang Mao, Electronic transport in a new type nano-junction: Carbon atomic chain inserted into a Carbon nanotube, Journal of Computational and Theoretical Nanoscience, Vol. 9, 2012, pp. 1-4. (SCI 收录, *通讯作者)
106. Luoping Chen and **Yanping Chen***, Two-grid method for nonlinear reaction-diffusion equations by mixed finite element methods, Journal of Scientific Computing, Vol. 49, No. 3, 2011, pp.383-401. (SCI 收录, *通讯作者)
107. **Yanping Chen**, Study of highly efficient, extremely accurate numerical methods for partial differential equations, Journal of South China Normal University (Natural Science Edition), Vol. 43, No. 4, November 2011, pp. 1-8. (in Chinese)
108. Qin Zhou, **Yanping Chen***, and Yin Yang, Two improved algorithms and implementation for a singularly perturbed problem on moving meshes, Journal of Systems Science and Complexity, Vol.24, No. 6, 2011, pp. 1232-1240. (SCI 收录, *通讯作者)
109. Yunxia Wei and **Yanping Chen***, Convergence analysis of the Legendre spectral collocation methods for second order Volterra integro-differential equations, Numer. Math. Theor. Meth. Appl., Vol. 4, 2011, pp. 419-438. (SCI 收录, *通讯作者)
110. Xiaoqing Xing and **Yanping Chen**, L^∞ -error estimates for a quadratic optimal control problem by mixed finite element methods, Natural Science Journal of Xiangtan University, Vol. 33, No.

3, 2011, pp. 13-17. (in Chinese)

111. Tianliang Hou, **Yanping Chen***, and Yunqing Huang, A posteriori error estimates of mixed methods for quadratic optimal control problems governed by parabolic equations, Numerical Mathematics: Theory, Methods and Applications, Vol. 4, No. 4, 2011, pp. 439-458. (SCI收录, *通讯作者)
112. **Yanping Chen** and Yuelong Tang, Numerical methods for constrained elliptic optimal control problems with rapidly oscillating coefficients, East Asia Journal on Applied Mathematics, Vol. 1, No. 3, 2011, pp. 235-247. (SCI 收录)
113. **Yanping Chen**, Nianshi Xia, and Nianyu Yi, A Legendre Galerkin spectral method for optimal control problems, Journal of Systems Science and Complexity, Vol. 24, No. 4, 2011, pp. 663-671. (SCI 收录)
114. Chunjuan Hou, **Yanping Chen*** and Zuliang Lu, Superconvergence property of finite element methods for parabolic optimal control problems, Journal of Industrial and Management Optimization, Vol. 7, No. 4, 2011, pp. 927-945. (SCI 收录, *通讯作者)
115. **Yanping Chen**, Fenglin Huang, Nianyu Yi, and Wenbin Liu, A Legendre Galerkin spectral method for optimal control problems governed by Stokes equations, SIAM J. Numer. Anal. 49 (2011), pp. 1625-1648. (SCI 收录)
116. Jiming Yang and **Yanping Chen**, Superconvergence of a combined mixed finite element and discontinuous Galerkin method for a compressible miscible displacement problem, Acta Mathematicae Applicatae Sinica (English Series), Vol. 27, No. 3, 2011, pp. 481-494. (SCI 收录)
117. Liu Yang, **Yanping Chen***, Xiaojiao Tong, and Chunlin Deng, A new smoothing Newton method for solving constrained nonlinear systems of equations, Applied Mathematics and Computation, 217 (2011), pp. 9855-9863. (SCI 收录, *通讯作者)
118. **Yanping Chen** and Yijie Lin, A posteriori error estimates for hp finite element solutions of convex optimal control problems, Journal of Computational and Applied Mathematics, 235 (2011), pp. 3435-3454. (SCI 刊物)
119. Xiaoqing Xing and **Yanping Chen***, Superconvergence of mixed methods for optimal control problems governed by parabolic equations, Advances in Applied Mathematics and Mechanics, Vol. 3, No. 4, 2011, pp. 401-419. (SCI 收录, *通讯作者)
120. Wenqiang Wang, **Yanping Chen**, Mean-square stability of semi-implicit Euler method for nonlinear neutral stochastic delay differential equations, Applied Numerical Mathematics, Vol. 61, 2011, pp. 696-701. (SCI 收录)
121. Wenqiang Wang and **Yanping Chen**, Numerical stability of Heun methods for nonlinear stochastic delay differential equations, Mathematica Numerica Sinica, Vol. 33, No. 1, 2011, pp. 69-76. (in Chinese)
122. Kang Deng, **Yanping Chen***, and Zuliang Lu, Higher order triangular mixed finite element methods for semilinear quadratic optimal control problem, Numerical Mathematics: Theory, Methods and Applications, Vol. 4, No. 2, 2011, pp. 180-196. (SCI 收录, *通讯作者)
123. Li-Bin Liu, Huan-Wen Liu, and **Yanping Chen**, Polynomial spline approach for solving second-order boundary-value problems with Neumann conditions, Applied Mathematics and

Computation, 217 (2011), pp. 6872-6882. (SCI 收录)

124. **Yanping Chen** and Zuliang Lu, A posteriori error estimates for semilinear boundary control problems, DD19 Proceedings, published by Springer Verlag in the series Lecture Notes in Computational Science and Engineering, 2011, pp. 455-462. (ISTP 收录)
125. Jiming Yang and **Yanping Chen**, A priori error of a combined mixed finite element and discontinuous galerkin method for compressible miscible displacement with molecular diffusion and dispersion, Journal of Computational Mathematics, Vol.29, No.1, 2011, pp. 93-110. (SCI 收录)
126. **Yanping Chen**, Lingli Liu and Zuliang Lu, A posteriori error estimates of mixed methods for parabolic optimal control problems, Numerical Functional Analysis and Optimization, Vol. 31, Issue 10, 2010, pp. 1135 – 1157. (SCI 收录)
127. Jiming Yang and **Yanping Chen**, A priori error analysis of a discontinuous Galerkin approximation for a kind of compressible miscible displacement problems, Science China Mathematics, Vol. 53, No. 10, 2010, pp. 2679-2696. (SCI 收录)
128. Jianwei Zhou, **Yanping Chen***, and Yongquan Dai, Superconvergence of triangular mixed finite elements for optimal control problems with an integral constraint, Applied Mathematics and Computation, 217 (2010), Issue 5, pp. 2057-2066. (SCI 收录, *通讯作者)
129. **Yanping Chen** and Zuliang Lu, Error estimates for parabolic optimal control problem by fully discrete mixed finite element methods, Finite Elements in Analysis and Design, Vol. 46, No. 11, 2010, pp. 957-965. (SCI/EI 收录)
130. **Yanping Chen**, Li Dai, and Zuliang Lu, Superconvergence of rectangular mixed finite element methods for constrained optimal control problem, Advances in Applied Mathematics and Mechanics, Vol. 2, No. 1, 2010, pp. 56-75. (SCI 收录)
131. Wenqiang Wang and **Yanping Chen**, Mean-square stability of Euler method for linear neutral stochastic delay differential equations, Mathematica Numerica Sinica, Vol. 32, No. 2, 2010, pp. 206-212. (in Chinese)
132. Wenqiang Wang and **Yanping Chen**, Mean-square stability of milstein methods for neutral stochastic delay differential equations, Mathematica Applicata, Vol. 23, No. 3, 2010, pp. 548-553. (in Chinese)
133. **Yanping Chen** and Zuliang Lu, Error estimates of fully discrete mixed finite element methods for semilinear quadratic parabolic optimal control problems, Computer Methods in Applied Mechanics and Engineering, Vol. 199, No. 23, 2010, pp. 1415–1423. (SCI /EI 收录)
134. **Yanping Chen**, Yunqing Huang, Wenbin Liu, and Ningning Yan, Error estimates and superconvergence of mixed finite element methods for convex optimal control problems, Journal of Scientific Computing, Vol. 42, No. 3, 2010, pp. 382–403. (SCI 收录)
135. Xiaoqing Xing, **Yanping Chen***, and Nianyu Yi, Error estimates of mixed finite element methods for quadratic optimal control problems, Journal of Computational and Applied Mathematics, Vol. 233, 2010, pp. 1812-1820. (SCI收录, *通讯作者)
136. **Yanping Chen** and Tao Tang, Convergence analysis of the Jacobi spectral-collocation methods for Volterra integral equations with a weakly singular kernel, Mathematics of Computation, Vol. 79, No. 269, 2010, pp. 147–167. (SCI 收录)

137. Jiming Yang and **Yanping Chen**, An efficient adaptive algorithm based on upwind difference for a singularly perturbed two-point boundary value problem, Numerical Mathematics A Journal of Chinese Universities, Vol. 31, No. 3, 2009, pp. 277-288. (in Chinese)
138. **Yanping Chen**, Peng Luan, and Zuliang Lu, Analysis of two-grid methods for nonlinear parabolic equations by expanded mixed finite element methods, Advances in Applied Mathematics and Mechanics, Vol. 1, No. 6, 2009, pp. 830-844. (SCI 收录)
139. **Yanping Chen** and Tao Tang, Spectral methods for weakly singular Volterra integral equations with smooth solutions, Journal of Computational and Applied Mathematics, Vol. 233, 2009, pp. 938-950. (SCI 收录)
140. **Yanping Chen**, Yao Fu, Huanwen Liu, Yongquan Dai, and Huayi Wei, Recovery a posteriori error estimates for general convex elliptic optimal control problems subject to pointwise control constraints, Journal of Computational Mathematics, Vol.27, No.4, 2009, 543-560. (SCI 收录)
141. **Yanping Chen** and Yongquan Dai, Superconvergence for optimal control problems governed by semi-linear elliptic equations, Journal of Scientific Computing, Vol. 39, 2009, pp.206–221. (SCI 收录)
142. Huanwen Liu, Libin Liu, and **Yanping Chen**, A semi-discretization method based on quartic splines for solving one-space-dimensional hyperbolic equations, Applied Mathematics and Computation, Vol. 210, 2009, pp. 508–514. (SCI 收录)
143. Liu Yang, **Yanping Chen***, and Xiaojiao Tong, Smoothing Newton-like method for the solution of nonlinear systems of equalities and inequalities, Numer. Math. Theor. Meth. Appl., Vol. 2, No. 2, 2009, pp. 224-236. (SCI 收录, *通讯作者)
144. Zuliang Lu and **Yanping Chen***, A posteriori error estimates of triangular mixed finite element methods for semilinear optimal control problems, Advances in Applied Mathematics and Mechanics, Vol. 1, No. 2, 2009, pp. 242-256. (SCI 收录, *通讯作者)
145. Zuliang Lu and **Yanping Chen**, L^∞ -error estimates of triangular mixed finite element methods for optimal control problems governed by semilinear elliptic equations, Numerical Analysis and Applications, 2009, Vol. 2, No. 1, pp. 1–13. (EI 收录)
146. **Yanping Chen** and Li Li, L^p error estimates of two-grid schemes of expanded mixed finite element methods, Applied Mathematics and Computation, 209 (2009), pp. 197–205. (SCI 收录)
147. Yin Yang, **Yanping Chen**, and Yunqing Huang*, An efficient moving mesh method for a model of turbulent flow in circular tubes, Journal of Computational Mathematics, Vol.27, No.2-3, 2009, 388–399. (SCI 收录)
148. Zhengsu Wan, **Yanping Chen***, and Yunqing Huang, Legendre spectral Galerkin method for second-kind Volterra integral equations, Front. Math. China, Vol.4, No.1, 2009, 181–193. (SCI 收录, *通讯作者)
149. Zuliang Lu, **Yanping Chen**, and Hongwei Zhang, A priori error analysis of mixed methods for nonlinear quadratic optimal control problems, Lobachevskii Journal of Mathematics, Vol. 29, No. 3, 2008, pp. 164–174.
150. Liu Yang and **Yanping Chen**, A new globally convergent Levenberg-Marquardt method for solving nonlinear systems of equations, Numer. Math. Sinica., Vol. 30, No.4, 2008, pp.

388-396.(in Chinese)

- 151.Liu Yang, **Yanping Chen**, and Xiaojiao Tong, A smoothing method for solving the nonlinear system of equalities and inequalities, Journal of Yunnan University (Natural Sciences Edition), Vol. 30, No.6, 2008, pp. 553-558.
- 152.**Yanping Chen**, Yunqing Huang, and Nianyu Yi, A posteriori error estimates of spectral method for optimal control problems governed by parabolic equations, Science in China Series A: Mathematics, Vol. 51, No. 8, 2008, pp. 1376-1390. (SCI 收录)
- 153.**Yanping Chen**, Nianyu Yi, and Wenbin Liu, A Legendre Galerkin spectral method for optimal control problems governed by elliptic equations, SIAM Journal On Numerical Analysis, Vol. 46, No. 5, 2008, pp. 2254-2275. (SCI 收录)
- 154.**Yanping Chen**, Superconvergence of quadratic optimal control problems by triangular mixed finite elements, International Journal for Numerical Methods in Engineering, Vol. 75, No. 8, 2008, pp. 881-898. (SCI/EI 收录)
- 155.Xiaoqing Xing and **Yanping Chen***, Error estimates of mixed methods for optimal control problems governed by parabolic equations, International Journal for Numerical Methods in Engineering, Vol. 75, No. 6, 2008, pp. 735-754. (SCI/EI 收录, *通讯作者)
- 156.Zhiguang Xiong and **Yanping Chen***, A rectangular finite volume element method for a semilinear elliptic equation, Journal of Scientific Computing, Vol. 36, No. 2, 2008, pp. 177-191. (SCI 收录, *通讯作者)
- 157.**Yanping Chen**, Superconvergence of mixed finite element methods for optimal control problems, Mathematics of Computation, 77 (2008), 1269-1291. (SCI 收录)
- 158.Zhiguang Xiong, **Yanping Chen**, and Yan Zhang, Convergence of FEM with interpolated coefficients for semilinear hyperbolic equation, Journal of Computational and Applied Mathematics, Vol. 214, 2008, pp. 313-317. (SCI 收录)
- 159.**Yanping Chen** and Wenbin Liu, A posteriori error estimates for mixed methods of miscible displacement problems, International Journal for Numerical Methods in Engineering, Vol.73, No.3, 2008, pp. 331-343. (SCI/EI 收录)
- 160.Yuliang Mao, Jianxin Zhong, **Yanping Chen**, First principles study of the band structure and dielectric function of (6,6) single-walled zinc oxide nanotube, Physica E, 40 (2008), 499-502. (SCI 收录)
- 161.Xiaoqing Xing and **Yanping Chen***, L^∞ -error estimates for general optimal control problem by mixed finite element methods, International Journal of Numerical Analysis & Modeling, Vol. 5, No. 3, 2008, pp. 441-456. (SCI 收录, *通讯作者)
- 162.**Yanping Chen** and Wenbin Liu, A posteriori error estimates for mixed finite element solutions of convex optimal control problems, Journal of Computational and Applied Mathematics, 211 (2008), 76-89. (SCI 收录)
- 163.**Yanping Chen** and Jiming Yang, A posteriori error estimation for a fully discrete discontinuous Galerkin approximation to a kind of singularly perturbed problems, Finite Elements in Analysis and Design, 43 (2007), pp. 757-770. (SCI/EI 收录)
- 164.Huanwen Liu, Sunkang Chen, and **Yanping Chen**, Bivariate C^1 cubic spline space over Powell-Sabin's type-1 refinement, Journal of Information and Computational Science, Vol. 4,

No. 1, 2007, pp. 151-160. (SCI/EI 收录)

165. Zhiguang Xiong and **Yanping Chen***, Finite volume element method with interpolated coefficients for two-point boundary value problem of semilinear differential equations, Computer Methods in Applied Mechanics and Engineering, Vol. 196, 2007, pp. 3798-3804. (SCI/EI 收录, *通讯作者)
166. Shuguang Gong, **Yanping Chen**, and Yunqing Huang, Applications of EFG methods for structural shape optimization of linear elasticity problems, Mechanical Science and Technology, Vol.26, No.3, 2007, pp. 373-377.
167. **Yanping Chen**, Huanwen Liu, and Shang Liu, Analysis of two-grid methods for reaction diffusion equations by expanded mixed finite element methods, International Journal for Numerical Methods in Engineering, Vol.69, No.2, 2007, pp. 408-422. (SCI/EI 收录)
168. Jan H. Brandts, **Yanping Chen**, and Julie Yang, A note on least-squares mixed finite elements in relation to standard and mixed finite elements, IMA Journal of Numerical Analysis, Vol.26, No.4, 2006, pp. 779-789. (SCI 收录)
169. **Yanping Chen** and Fangyun Xue, Superconvergence of miscible displacement by mixed finite element and a characteristics method, the proceedings of The seventh Japan-China Joint Seminar on Numerical Mathematics, Science Press, 2006, pp. 19-32. (ISTP 收录)
170. Shuguang Gong, **Yanping Chen**, and Yunqing Huang, Shape optimization and sensitivity analysis based on element-free Galerkin methods, Chinese Journal of Mechanical Engineering, Vol.42, No.6, 2006, pp. 199-204. (EI 收录)
171. Shuguang Gong, **Yanping Chen**, and Yunqing Huang, Application research of meshless method in shape optimization, China Mechanical Engineering, Vol.17, No.12, 2006, pp. 1290-1293. (EI 收录)
172. Jiming Yang and **Yanping Chen***, A unified a posteriori error analysis for discontinuous Galerkin approximations of reactive transport equations, Journal of Computational Mathematics, Vol.24, No.3, 2006, pp. 425-434. (SCI 收录, *通讯作者)
173. **Yanping Chen**, Uniform convergence analysis of finite difference approximations for singular perturbation problems on an adapted grid, Advances in Computational Mathematics, Vol. 24, No.1-4, 2006, pp. 197-212. (SCI 收录)
174. **Yanping Chen** and Wenbin Liu, Error estimates and superconvergence of mixed finite element for quadratic optimal control, International Journal of Numerical Analysis & Modeling, Vol.3, No.3, 2006, pp. 311-321. (SCI 收录)
175. Jan H. Brandts and **Yanping Chen**, Superconvergence of least-squares mixed finite elements, International Journal of Numerical Analysis and Modeling, Vol.3, No.3, 2006, pp. 303-310. (SCI 收录)
176. **Yanping Chen**, A posteriori error estimates of mixed methods for two phase flow problems, Contemporary Mathematics, Vol.383, 2005, pp. 203-211. (ISTP 收录)
177. Shuguang Gong, **Yanping Chen**, and Yunqing Huang, Study on design sensitivity analysis based on EFG method in mechanical shape optimization, proceedings of the international conference on mechanical engineering and mechanics, Oct. 26-28, 2005, pp.876-881. (ISTP 收录)

178. Shuguang Gong, **Yanping Chen**, and Lianwen Zhang, CAE analysis and test research on asphalt transfer vehicle structure, *Construction Machinery and Equipment*, Vol.36, No.11, 2005, pp.22-25.
179. Lan Xu, Shuguang Gong, **Yanping Chen**, Guilan Xie, Qiudong He, and Weinan Cao, Structural shape optimization and modal analysis for axial fan hub by finite element method, *Modern Manufacturing Engineering*, No.12, 2005, pp.3-6.
180. Liu Yang and **Yanping Chen**, On the Convergence of A New Levenberg-Marquardt Method, *Chinese Journal of Numerical Mathematics and Applications*, Vol.27, No.2, 2005, pp. 79-87; *Numer. Math. Sinica.*, Vol.27, No.1, 2005, pp. 55-62.
181. Jiming Yang and **Yanping Chen**, High accuracy algorithm for solving a singularly perturbed two-point boundary value problem with adaptive upwind scheme, *Natur. Sci. J. Zhejiang Univ.*, Vol.32, No.5, 2005, pp. 513-518.
182. Jiming Yang and **Yanping Chen**, A moving-mesh algorithm for a class of singularly perturbed problem, *Natural Science J of Xiangtan University*, Vol.26, No.3, 2004, pp. 24-29. (in Chinese)
183. Hua Chen and **Yanping Chen**, Discontinue Galerkin method for compressible miscible displacement problem, *Natural Science J of Xiangtan University*, Vol.26, No.2, 2004, pp. 119-126.
184. **Yanping Chen**, Superconvergence for elliptic problems by least-squares mixed finite element, *Advances in Scientific Computing and Applications*, Yayan Lu, Weiwei Sun, Tao Tang, Science Press, 2004, pp. 104-116. (ISTP 收录)
185. Jan H. Brandts and **Yanping Chen**, An alternative to the least-squares mixed finite element method for elliptic problems, *Numerical Mathematics and Advanced Applications*, M. Feistauer, V. Dolesi, P. Knobloch, and K. Najzar (Eds.), Springer Verlag, 2004, pp. 169-175. (ISTP 收录)
186. Shuguang Gong, **Yanping Chen**, and Guilan Xie, A homogenization method for structural optimization of perforated plates, *Mechanical Science and Technology*, Vol.23, No.8, 2004, pp. 995-998.
187. Guilan Xie, Ping Zhang, Shuguang Gong, and **Yanping Chen**, Study on effective elastic constants of tubesheets homogenization-based theory, *Chinese Journal of Applied Mechanical*, Vol.21, No.3, 2004, pp.129-133. (EI 收录)
188. **Yanping Chen** and Manping Zhang, Superconvergence of least-squares mixed finite element for symmetric elliptic problems, *Applied Numerical Mathematics*, Vol.48, No.2, 2004, pp. 195-204. (SCI 收录)
189. **Yanping Chen**, Uniform pointwise convergence for a singularly perturbed problem using arc-length equidistribution, *Journal of Computational and Applied Mathematics*. Vol.159, No.1, 2003, pp. 25-34. (SCI 收录)
190. **Yanping Chen**, Yunqing Huang, and Dehao Yu, A two-grid method for expanded mixed finite-element solution of semilinear reaction-diffusion equations, *International Journal for Numerical Methods in Engineering*, Vol.57, No.2, 2003, pp. 193-209. (SCI/EI 收录)
191. **Yanping Chen** and Dehao Yu, Superconvergence of least-squares mixed finite element for second-order elliptic problems, *Journal of Computational Mathematics*, Vol.21, No.6, 2003, pp. 825-832. (SCI 收录)

192. **Yanping Chen** and Julie Yang, Superconvergence of least-squares mixed finite element for elliptic problems on triangulation, Numer. Math. J. Chinese Univ., Vol.12, No.2, 2003, pp. 214-225.
193. Jan H. Brandts, **Yanping Chen**, and Julie Yang, Analysis of least-squares mixed finite elements in terms of standard and mixed elements, UvANumerica Preprint 2003 (08):1-20.
194. Jianzhou Liu, Yunqing Huang, and **Yanping Chen**, Some estimates for eigenvalues and singular value of schur complements of normal matrices, Proceedings of the 2001' International Conference on Numerical Optimization and Numerical Linear Algebra, Science Press, 2003, pp. 133-138.
195. **Yanping Chen** and Wenbin Liu, Posteriori error estimates for mixed finite elements of a quadratic control problem, Recent Progress in Computational and Applied PDEs, Kluwer Academic, 2002, pp. 123-134.
196. **Yanping Chen** and Manping Zhang, Superconvergence of least-squares mixed finite element approximations over quadrilaterals, Recent Progress in Computational and Applied PDEs, Kluwer Academic, 2002, pp. 135-144.
197. Manping Zhang and **Yanping Chen**, Superconvergence of least-squares mixed finite element solutions over quadrilaterals, Natural Science J of Xiangtan University, Vol.24, No.1, 2002, pp. 4-7. (in Chinese)
198. Julie Yang and **Yanping Chen**, Superconvergence of least-squares mixed finite elements for elliptic problems on triangulation, Natural Science J of Xiangtan University, Vol.24, No.1, 2002, pp. 8-12. (in Chinese)
199. **Yanping Chen** and Yunqing Huang, Improved error estimates for mixed finite element for nonlinear hyperbolic equations: the continuous-time case, Journal of Computational Mathematics, Vol.19, No.4, 2001, pp. 385-392. (SCI 收录)
200. **Yanping Chen**, Yunqing Huang, and Zuhe Shen, Least-squares mixed finite element approximation of degenerate elliptic problem, Chin. J of Numer. Math. & Appl., Vol.23, No.2, 2001, pp. 19-28; Numer. Math. Sinica. Vol.23, No.1, 2001, pp. 87-94.
201. **Yanping Chen**, Superconvergence of the full-discrete F.E.M. for compressible miscible displacement: the full tensor case, Numer. Math. J. Chinese Univ. Vol.9, No.1, 2000, pp. 71-82.
202. **Yanping Chen**, Zuhe Shen, and Yunqing Huang, Error estimates for the full-discrete mixed FEM for nonlinear hyperbolic problems, Numer. Math. J. Chinese Univ., Vol.9, No.2, 2000, pp. 181-192.
203. **Yanping Chen**, Yunqing Huang, and Zuhe Shen, The mixed finite element methods for nonlinear hyperbolic equation, Numer. Math. J. of Chinese Universities, Vol.22, No.1, 2000, pp. 63-69. (in Chinese)
204. **Yanping Chen**, Yunqing Huang, and Zuhe Shen, Least-squares mixed finite element methods for incompressible miscible displacement, Numer. Math. J. of Chinese Universities, Vol.22, No.3, 2000, pp. 272-278. (in Chinese)
205. **Yanping Chen**, Mixed finite element methods for a strongly nonlinear parabolic problem, Journal of Computational Mathematics, Vol.17, No.2, 1999, pp. 209-220. (SCI 收录)
206. **Yanping Chen**, A posteriori error estimates of finite element method for parabolic problems,

Acta. Math. Sci., Vol.19, No.4, 1999, pp. 1-9. (SCI 收录)

207. **Yanping Chen**, Global superconvergence of mixed finite element methods for the wave equation, J. Sys. Sci. & Math. Scis., Vol.12, No.2, 1999, pp. 159-165.
208. **Yanping Chen** and Yunqing Huang, The full-discrete mixed finite element methods for nonlinear hyperbolic equation, Comm. In Nonli. Sci. & Numer. Simul., Vol.3, No.3, 1998, pp. 152-155. (EI 收录)
209. **Yanping Chen** and Yunqing Huang, The superconvergence of mixed finite element methods for nonlinear hyperbolic equation, Comm. In Nonli. Sci. & Numer. Simul., Vol.3, No.3, 1998, pp. 155-158. (EI 收录)
210. **Yanping Chen**, Superconvergence in the simulation of miscible displacement, J. Sys. Sci. & Math. Scis., Vol.18, No.3, 1998, pp. 328-334. (in Chinese)
211. **Yanping Chen**, Application of superconvergence to a model for compressible miscible displacement, Numer. Math. J. of Chinese Universities, Vol.7, No.1, 1998, pp. 25-37.
212. **Yanping Chen** and Yunqing Huang, Superconvergence of a time-discretization procedure for compressible miscible displacement, Natural Science J of Xiangtan University (the Special Issue for 40th anniversary of Xiangtan University), Vol.20, No.3, 1998, pp. 41-50.
213. **Yanping Chen**, Superconvergence to the full discrete FEM for compressible miscible displacement with dispersion, CSIAM'98, 1998, pp. 592-597. (in Chinese)
214. **Yanping Chen**, The mixed finite element methods for some initial-boundary problems, Ph.D thesis, Shandong University, 1997.
215. **Yanping Chen**, Superconvergence of a fully discrete procedure for two-phase displacement problems, Natural Science J of Shandong University, Vol.32, No.1, 1997, pp. 1-8.
216. **Yanping Chen**, Superconvergence of the mixed finite element methods for semilinear elliptic problem, CSIAM'96, 1996, pp. 517-524. (in Chinese)
217. **Yanping Chen** and Yunqing Huang, The superconvergence and asymptotic exact a posteriori error estimates of finite element on K-mesh, Chin. J of Numer. Math. & Appl., Vol.16, No.4, 1994, pp. 66-74; Numer. Math. Sinica., Vol.16, No.3, 1994, pp. 278-285.
218. **Yanping Chen** and Yunqing Huang, Global high accuracy of finite element solutions to singular nonsymmetric two point boundary value problems, Numer. Math. J. of Chinese Universities, Vol.16, No.3, 1994, pp. 271-278. (in Chinese)
219. **Yanping Chen**, Asymptotic expansion with higher order remainder for the finite element approximation of eigenvalues, Natural Science J of Xiangtan University, Vol.16, No.2, 1994, pp. 137-147.
220. Yunqing Huang and **Yanping Chen**, A multilevel iterative method for finite element solutions to singular two-point boundary value problems, Natural Science J of Xiangtan University, Vol.16, No.1, 1994, pp. 23-26. (in Chinese)
221. **Yanping Chen**, Asymptotic expansions of finite element solutions to singular nonlinear problems, Natural Science J of Xiangtan University, Vol.15, No.3, 1993, pp. 28-32. (in Chinese)
222. **Yanping Chen**, Successive asymptotic expansions and midpoint extrapolation formulas for

finite element solutions and their gradients, Natural Science J of Xiangtan University, Vol.15, Suppl., 1993, pp. 97-105. (in Chinese)

223. Yunqing Huang and **Yanping Chen**, A lower bound estimate of condition number for finite element equations on highly refined meshes, Natural Science J of Xiangtan University, Vol.15, Suppl., 1993, pp. 92-96. (in Chinese)

224. **Yanping Chen**, Asymptotic expansions of finite element solutions to singular two-point boundary value problems, Natural Science J of Xiangtan University, Vol.14, No.1, 1992, pp. 8-15. (in Chinese)