(1) Ying Lungan, Zhou Tie, "Long-time Asymptotic Behavior of Lax-Friedrichs Scheme", J. Partial Diff. Eqs., Vol.6, No.1 (1993), 39-61
(2) Long-an Ying, Tie Zhou, "Nonlinear Stability of Discrete Shocks", Proceedings of the Japan-China Seminar on Numerical mathematics, Lecture Notes in Numerical and Applied Analysis, Vol.14 (1995), pp227-239.
(3) Tie Zhou, "A Remark on the Nonlinear Stability of Discrete Shocks for Single Hyperbolic Conservation Laws", Acta Scientiarum Naturalium Universitatis Pekinensis, Vol.33, No.5 (1997), pp554-560. (EI)
(4) Han-song Tang, Tie Zhou, "Why nonconservative interface algorithms may be applicable: analysis for Chimera grids", Proceedings of 7th International Symposium on CFD(1997), pp336-341.
(5) Han-song Tang, Tie Zhou, "On Nonconservative Conditions at Grid Interfaces", SIAM Journal on Numerical Analysis, Vol.37, No.1 (1999), pp173-193. (SCI)
(6) 李荫藩，宋松和，周铁，“双曲型守恒律的高阶、高精度有限体积法”，力学进展, Vol. 31, No.2 (2001), pp245-263.
(7) Tie Zhou, Yin-fan Li, Chi-Wang Shu, "Numerical Comparison of WENO Finite Volume and Runge-Kutta Discontinous Galerkin Methods", Journal of Scientific Computing, Vol.16, No.2 (2001), pp145-171. (EI)
(8) Tie Zhou, Yan Guo, Chi-Wang Shu, "Numerical Study on Landau Damping", Physica D, Vol.157 (2001), pp322-333. (SCI)
(9) Tie Zhou, Shulin Zhou, Ming Jiang, Danfeng Lu, "Theory of continuous multiscale homomorphic filtering and applications", XI-th International Congress for Sterology Beijing Conference, in conjunction with Xth Chinese National Symposium for Sterology and Image Analysis, November 4-8, 2003, Beijing.
(10) Yan Guo, Chi-Wang Shu, Tie Zhou, "The dynamics of a Plane Diode", SIAM Journal on Mathematical Analysis, Vol. 35, Number 6 pp. 1617-1635. 2004. (SCI)
(11) Jinghua Wang, Hairui Wen, Tie Zhou, "On large time step schemes for hyperbolic conservation laws", COMM. MATH. SCI. , Vol. 2, No. 3, pp. 477-495. 2004.
(12) Jiansheng Yang, Qiang Kong, Tie zhou, Ming Jiang, "Cone Beam Cover Method: An Approach to Performing Backprojection in Katsevich’s Exact Algorithm for Spiral Cone Beam CT", Journal of X-ray Science and Technology， Vol.9 , 1-16, 2004. (EI)
(13) 蔚喜军，周铁，“流体力学方程的间断有限元方法”，计算物理，Vol. 22, No. 2 (2005), pp108-116. (EI)
(14) DanFeng Lu, HongKai Zhao, Ming Jiang, ShuLin Zhou, Tie Zhou, "A Surface Reconstruction Method for Highly Noisy Point Clouds", N. Paragios et al. (Eds.): VLSM 2005, LNCS 3752, pp. 283–294. Springer-Verlag Berlin Heidelberg 2005. (SCI)
(15) 郭晓虎，杨建生，孔强，周铁，姜明，“锥束覆盖方法的并行实现及性能分析”，中国体视学与图像分析，Vol.10, No.3, 165-169, 2005.

(16) Jiansheng Yang, Xiaohu Guo, Qiang Kong, Tie Zhou, Ming Jiang, "Parallel Implementation of the Katsevich's FBP Algorithm", International Journal of Biomedical Imaging, Special Issue on "Development of Computed Tomography Algorithms", 2006, Article ID 17463.
(17) Ge Wang, Ming Jiang, Jie Tian,Wenxiang Cong, Yi Li, Weimin Han, Durai Kumar, Xin Qian, Haiou Shen, Tie Zhou, Jiantao Cheng, Yujie Lv, Hui Li, Jie Luo, "Recent development in bioluminescence tomography", 2006 3RD IEEE INTERNATIONAL SYMPOSIUM ON BIOMEDICAL IMAGING: FROM MACRO TO NANO, VOLS 1-3, IEEE International Symposium on Biomedical Imaging, pages: 678-681, 2006. (SCI)
(18) Ming Jiang, Tie Zhou, Jiantao Cheng, Wengxiang Cong, Durairaj Kumar, Ge Wang, "Image Reconstruction for Bioluminescence Tomography", RSNA 2005.
(19) Ming Jiang, Tie Zhou, Jiantao Cheng, Wenxiang Cong, Ge Wang, "Development of bioluminescence tomography", art. no. 63180E, Developments in X-Ray Tomography V, PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE), vol. 6318, pages: E3180-E3180, 2006. (SCI)
(20) Jinxiao Pan, Tie Zhou, Yan Han, Ming Jiang, “Variable Weighted Ordered Subset Image Reconstruction Algorithm”, International Journal of Biomedical Imaging, Volume 2006 (2006), doi:10.1155/IJBI/2006/10398 Article ID 10398, 7 pages
(21) Seung Wook Lee, Jinxiao Pan, Chunhua Liu, Tie Zhou, Cheul-Muu Sim, Ming Jiang, A Preliminary Study of Iterative Reconstruction Algorithms for Neutron Tomography, The 8th World Conference on Neutron Radiography, National Institute of Standards and Technology, Gaithersburg, MD, 16 - 19 October, 2006. (SCI)
(22) G. Wang, X. Qian, W. Cong, H. Shen, Y. Li, W. Han, D. Kumar, M. Jiang, T. Zhou, J. Cheng, J. Tian, Y. Lv, Hui Li, J. Luo, "Recent development in bioluminescence tomography", Current Medical Imaging Reviews, Volume 2, Number 4, November 2006. (SCI)
(23) Tony Chan, Haomin Zhou, Tie Zhou, "Error Analysis for H^1 Based Wavelet Interpolations", Image Processing Based on Partial Differential Equations: Proceedings of the International Conference on PDE-Based Image Processing and Related Inverse Problems, Editors: X.-C. Tai, K.-A. Lie, T.F. Chan, and S. Osher, Series: Mathematics and Visualization, Springer Verlag, 2007.
(24) Jiang, Ming; Louis, Alfred K.; Wolf, Didier; Zhao, Hongkai; Daul, Christian; Zhang, Zhaotian; Zhou, Tie, Mathematics in biomedical imaging: Editorial, International Journal of Biomedical Imaging, v 2007, Article number: 64954. 2007. (EI)
(25) M. Jiang, T. Zhou, J. Cheng, W. Cong, G. Wang, "Image reconstruction for bioluminescence tomography from partial measurement", OPTICS EXPRESS, Vol. 15, No. 18, September 2007. (SCI)

(26) Wenlei Ni, Ming Jiang, Shulin Zhou, Tie Zhou, “On Reconstruction Algorithms of X-ray Phase Contrast CT by Holographic Measurements” (invited), An Interdisciplinary Workshop on Mathematical Methods in Biomedical Imaging and Intensity-Modulated Radiation Therapy (IMRT), Centro di Ricerca Matematica Ennio De Giorgi, Scuola Normale Superiore di Pisa, Italy, October 15 - 20, 2007.

(27) Ni Wen-lei, Zhou Tie, "Algorithm for phase contrast X-ray tomography based on nonlinear phase retrieval", Applied Mathematics and Mechanics (English Edition), Vol.29, No.1, pp101-112, 2008. (SCI)

(28) Jiantao Cheng, Tie Zhou, "A Variational EM Method for the Inverse Black Body Radiation Problem", Journal of Computational Mathematics (English Edition), Vol.26, No.6, pp876–890, 2008. (SCI)

(29) Tie Zhou, Jiantao Cheng, Ming Jiang, Bioluminescence Tomography Reconstruction by Radial Basis Function Collocation Method, Industrial and Applied mathematics in China (Series in Contemporary Applied Mathematics CAM 10), pp229-239, Higher Education Press, 2009.

(30) Caifang Wang, Tie Zhou, “Local convergence of an EM-like image reconstruction method for diffuse optical tomography”, Journal of Computational Mathematics (English Edition), Vol.29, No.1, pp.61-73, 2011. (SCI)

(31) Caifang Wang, Tie Zhou, “The order of convergence for Landweber Scheme with α,β –rule”, Inverse Problems and Imaging,Vol.6, No.1, pp.133-146, 2012. (SCI)

(32) 周宇，周铁，姜明，“X 射线相位相位衬度层析成像的数学模型”，数学建模及其应用，第 1 卷，第 2 期，pp.12-18，2012.

(33) Yu Zhou, Tie Zhou, Ming Jiang, “An alternative derivation for Bronnikov’s formula in x-ray phase contrast tomography”, World Congress on Medical Physics and Biomedical Engineering, of International Federation for Medical and Biological Engineering (IFMBE) Proceedings, vol. 39,pp.1038-1040, 2012.(EI)

(34) Yanbin Lu, Jiansheng Yang, John W Emerson, Heng Mao, Tie Zhou,Yuanzheng Si, Ming Jiang, “Cone-beam reconstruction for the two-circles-plus-one-line trajectory”, Physics in Medicine and Biology”, Vol.57, No.9, pp.2689-2707, 2012.(SCI)

(35) S. Luo, H. Zhou, T. Zhou, “An Improved Color Image Demosaicking Algorithm”, 2012 5th International Congress on Image and Signal Processing (CISP 2012), 2012-10. (EI)

(36) Yu Zhou, Alfred K Louis, Tie Zhou, Ming Jiang, “Partial Coherence Theory for X-ray Phase Contrast Imaging Technique with Gratings”, Optics Communications， Volume 285, Issue 24, Pages 4763–4774, 2012-11. (SCI)

(37) Seung Wook Lee, Yu Zhou, Tie Zhou, Ming Jiang, Jongyul Kim, Chiwon Ahn, Alfred K. Louis, Visibility studies in grating-based neutron phase contrast and dark-field imaging by partial coherence theory, Journal of Korean Physical Society, Vol. 63, NO. 11, pp. 2093 - 2097, 2013.

(38) Shousheng Luo, Jiansheng Yang and Tie Zhou, “Moment-based cosh-Hilbert Inversion and Its Applications in Single-photon Emission Computed Tomography”, CHINESE JOURNAL OF COMPUTATIONAL PHYSICS（计算物理）, Vol. 30, No. 6, pp.799-807, Nov. 2013.（核心期刊）

(39) Shousheng Luo, Tie Zhou, “Superiorization of EM Algorithm and Its Application in Single-Photon Emission Computed Tomography(SPECT) ”, Inverse Problems and Imaging , Vol 8, Issue 1, Pages: 223 - 246, February 2014.(SCI)

(40) Tangjie Lv, Tie Zhou, “VARIATIONAL ITERATIVE ALGORITHMS IN PHOTOACOUSTIC

TOMOGRAPHY WITH VARIABLE SOUND SPEED", Journal of Computational Mathematics, Vol.32, No.5, pp.579-600, Aug. 2014. (SCI)

(41) 毛珩，李宣成，李海文，TAO Louis，周铁，“基于主动轮廓模型的运动线虫中心线定位算法”，中国科学：数学 46(7)，pp.1005-1016，2016.

(42) Ji Li and Tie Zhou, "On gradient descent algorithm for generalized phase retrieval problem", Proceedings of IEEE Conference on Signal Processing (ICSP 2016).(EI)

(43) Ji Li and Tie Zhou, "On Relaxed Averaged Alternating Reflections (RAAR) Algorithm for Phase Retrieval from Structured Illuminations", Inverse Problems, 33 (2), 025012(20pp), 2017. (SCI)

(44) Ji Li and Tie Zhou, "NUMERICAL OPTIMIZATION ALGORITHMS FOR WAVEFRONT PHASE RETRIEVAL FROM MULTIPLE MEASUREMENTS", Inverse Problems and Imaging 11(4), pp.721-743, 2017.(SCI)

(45) Ji Li, Tie Zhou and Chao Wang, "On global convergence of gradient descent algorithms for generalized phase retrieval problem", Journal of Computational and Applied Mathematics, Volume 329, Pages 202-222, 2017.(SCI)

(46) Chao Wang, Tie Zhou, "On Iterative Algorithms for Quantitative Photoacoustic Tomography in the Radiative Transport Regime", Inverse Problems, 33(11), 115006 (25pp) , 2017. (SCI)

(47) Chao Wang, Tie Zhou, "A Hybrid Reconstruction Approach for Absorption Coefficient by Fluorescence Photoacoustic Tomography", Inverse Problems, 35 (2019) 025005, 2019. (SCI)

(48) S. Luo, Y. Zhang, T. Zhou and J. Song , "XCT Image Reconstruction by a Modified Superiorized Iteration and Theoretical Analysis", Optimization Methods and Software, online, https://doi.org/10.1080/10556788.2018.1560442, 2019. (SCI)