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Institute of Tibetan Plateau Research
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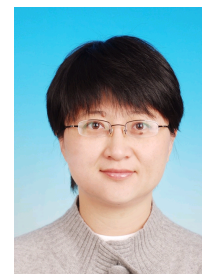
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研究队伍

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简历:

- 2009年9月-至今 中国科学院青藏高原研究所 研究员
- 2008年4月-2009年9月 美国橡树岭国家实验室环境科学所 研究员 (Research Staff Scientist)
- 2005年5月-2008年3月 美国橡树岭国家实验室环境科学所 博士后 (Research Associate)
- 2000年8月- 2005年5月 美国中佛罗里达大学 研究助理 (Research Assistant)

研究方向:

水资源与数值模拟

学历:

2000年8月-2005年5月 美国中佛罗里达大学 市政工程专业 博士
1998年9月-2000年7月 清华大学 市政工程专业 硕士
1994年9月-1998年7月 清华大学 环境工程专业 学士

职务:

社会任职:

学术期刊副主编 Journal of Hydrologic Engineering;
项目申请评审 US Department of Energy (DOE) Small Business Innovation Research (SBIR) Phase II Proposal, 2008;
学术期刊评审 Ground Water, Geochimica et Cosmochimica Acta, Journal of Environmental Management, Environmental Science & Technology, Waste Management, Frontiers of Environmental Science & Engineering in China, Computational Geosciences, Water Resources Research, Journal of Contaminant Hydrology, Transport in Porous Media Journal;
美国地球物理学联合会 (AGU) 会员;
美国土木工程师学会 (ASCE) 环境与水资源分会 (EWRD) 会员。

获奖及荣誉:

- Who's Who in America, Marguis Who's Who, 2009
- Outstanding Student Paper Award, American Geophysical Union, 2003
- Kersten Graduate Fellowship, University of Central Florida, 2002-2004
- Graduate Travel Fellowship, University of Central Florida, 2002
- 光华奖学金, 清华大学, 1999
- 优良毕业生, 清华大学, 1998
- IET奖学金, IET教育基金, 1997-1998
- 优秀学生一等奖学金, 清华大学, 1995-1996
- 优秀学生一等奖学金, 清华大学, 1994-1995

代表论著:

期刊论文

1. **Zhang, F.** and J. C. Parker. An Efficient Modeling Approach to Simulate Heat Transfer rate between Fracture and Matrix Regions for Oil Shale Retorting. *Transport in porous media*. In press (2009)
2. Mayes, M. A., G. Tang, P. M. Jardine, L. D. McKay, X. L. Yin, M. N. Pace, J. C. Parker, **F. Zhang**, T. L. Melhorn and R. Dansby-Sparks. Effects of Heterogeneous Sedimentary Layering on Flow and Transport under Saturated and Unsaturated Conditions. *Soil Science Society of America Journal*. Accepted (2009).
3. Yeh, G. T., Y. Fang, **F. Zhang**, J. Sun, Y. Li, M. H. Li, and M. D. Siegel. "Numerical Modeling of Coupled Fluid Flow and Thermal and Reactive Biogeochemical Transport in Porous and Fractured Media". *Computational Geosciences*. Accepted (2009).
4. **Zhang, F.**, J. C. Parker, S. C. Brooks, Y.-J. Kim, P. M. Jardine and D. B. Watson. Comparison of Approaches to Calibrate a Surface Complexation Model for U(VI) Sorption to Weathered Sapolite. *Transport in Porous Media Journal*. 78 (2): 185-197 (2009)
5. **Zhang, F.**, W. Luo, J. C. Parker, B. P. Spalding, S. C. Brooks, D. B. Watson, P. M. Jardine and B. Gu. Geochemical reactions affecting aqueous-solid partitioning metals during titration of uranium contaminated soil. *Environmental Science and Technology*. 42 (21): 8007-8013 (2008).
6. **Zhang, F.**, W. Luo, D. B. Watson, J. C. Parker, B. Gu, B. P. Spalding and P. M. Jardine. A reactive transport model to simulate uranium immobilization through pH manipulation. *Geochimica et cosmochimica acta*. 72(12): Meeting abstract A1080- A1080 (2008).
7. Yan X., E. Radwan, **F. Zhang**, and J. C. Parker. Evaluation of Dynamic Passing Sight Distance Problem Using a Finite Element Model. *Journal of Transportation Engineering-ASCE*. 134: 225-235. (2008).
8. **Zhang, F.**, G. T. Yeh, J. C. Parker, and P. M. Jardine. A reaction-based river/stream water quality model: Model development and numerical schemes. *Journal of Hydrology*. 348: 496-509 (2008).
9. **Zhang, F.**, L. Jiang, G. T. Yeh, and J. C. Parker. An Adaptive Local Grid Refinement and Peak/Valley Capture Algorithm to Solve Nonlinear Transport Problems with Moving Sharp-Fronts. *Transport in Porous Media Journal*. 72: 53-69. (2008).
10. **Zhang, F.**, G. T. Yeh, J. C. Parker, S. C. Brooks, M. N. Pace, Y.-J. Kim, P. M. Jardine, and D. B. Watson. A reaction-based paradigm to model reactive chemical transport in groundwater with general kinetic and equilibrium reactions. *Journal of Contaminant Hydrology*. 92: 10-32 (2007).
11. 张凡,刘翔。KDF金属滤料去除水中苯酚的试验研究。 *中国给水排水*25 (9): 35-38 (2001).

会议论文

1. Parker J. C. and **F. Zhang**. Modeling in Situ Shale Oil Retorting. *Proceedings of the 26th Oil Shale Symposium*. Golden, Colorado, USA. October 16-18 (2006).
2. Yeh G. T., **F. Zhang**, T.-S. Wu, and G. Hu. BEST3D: A Numerical Hydrodynamics and Water Quality Model: 2 – Water Quality. *Proceedings of the seventh international conference on hydroscience and engineering*. Philadelphia, Pennsylvania, USA. September 10-13 (2006).
3. Yeh, G. T., G. B. Huang, **F. Zhang**, H. P. Cheng, H. C. Lin, J. R. Cheng, E. Edris, and D. Richards. "An Integrated Media, Integrated Processes Watershed Model-WASH123D: Part 1-Model Descriptions and Features". *Proceedings of the XVIth International Conference on Computational Methods in Water Resources*. Copenhagen, Denmark. June 18-22 (2006).
4. **Zhang, F.**, and G. T. Yeh. "An Integrated Media, Integrated Processes Watershed Model-WASH123D: Part 6-Sediment and Reactive Chemical Transport in Stream/River Networks". *Proceedings of the XVIth International Conference on Computational Methods in Water Resources*. Copenhagen, Denmark. June 18-22 (2006).
5. **Zhang F.** and G. T. Yeh. "An Integrated Media, Integrated Processes Watershed Model-WASH123D: Part 7-Sediment and Reactive Chemical Transport in Surface Runoff". *Proceedings of the XVIth International Conference on Computational Methods in Water Resources*. Copenhagen, Denmark. June 18-22 (2006).
6. **Zhang, F.**, G. T. Yeh, J.C. Parker, S. C. Brooks, M.N. Pace, Y. J. Kim, and P.M. Jardine "An Integrated Media, Integrated Processes Watershed Model-WASH123D: Part 8-Reactive Chemical Transport in Subsurface Media". *Proceedings of the XVIth International Conference on Computational Methods in Water Resources*. Copenhagen, Denmark. June 18-22 (2006).
7. Yeh, G. T., **F. Zhang**, J. Yu, T. S. Wu, and G. Hu. "A Reaction-based, Diagonalization Approach to Water Quality Modeling". [Estuarine and Coastal Modeling -- Proceedings of the Ninth International Conference](#). Charleston, South Carolina, USA. October 31-November 2 (2005). (EI)
8. Yeh, G. T., **F. Zhang**, T. S. Wu, and G. Hu. "Are the status quo water quality models adequate for TMDL?" *Proceedings of the Third Conference on Watershed Management to Meet Water Quality Standards and Emerging TMDL (Total Maximum Daily Load)*. Atlanta, Georgia, USA. March 5-9 (2005).
9. Yeh, G. and **F. Zhang**. An Adaptive Local Grid Refinement and Peak/Valley Capture Algorithm to Solve Nonlinear Transport Problems with Moving Sharp-Fronts. *Proceedings of the 6th International Conference on Hydroinformatics*. Singapore, June 21-24 (2004).
10. Yeh, G., H. Shan, **F. Zhang**, and G. Hu. A Bay-Estuarine Model to Simulate Hydrodynamics and Thermal, Salinity, Sediment, and Water Quality Transport in Three Dimensions (BEST3D). *Proceedings of the 6th International Conference on Hydroinformatics*. Singapore, June 21-24 (2004).

11. **Zhang, F.** and G. T. Yeh. "A General Paradigm of Modeling Two-Dimensional Overland Watershed Water Quality". Proceedings of the XVth International Conference on Computational Methods in Water Resources. Chapel Hill, North Carolina, USA. June 13-17 (2004).
12. **Zhang, F.** and G. T. Yeh. "A General Paradigm of Modeling Three-Dimensional Coastal Water Quality". Proceedings of the Sixth International Conference on Hydro-science and Engineering. Brisbane, Australia. May 30-June 3 (2004).
13. **Zhang, F.**, G. T. Yeh, and H. Suk. "An Investigation of various Eulerian-Lagrangian Localized Adjoint Methods and Lagrangian-Eulerian Finite Element Methods to Solve Transport Problems". Proceedings of the XIVth International Conference on Computational Methods in Water Resources. Delft, the Netherlands. June 23-28 (2002).



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