

**LIST OF PUBLICATIONS OF
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PRODUCTS

h-Index = 31; Citation > 2800; 75 peer-reviewed journal papers; 9 books; 48 book chapters; > 100 conference papers; > 120 reports

REFEREED JOURNAL PUBLICATIONS (h-Index = 30 as of 12/09/2013)

Published (73)

1. Singh, R.P., Fu, D.F., Ojha, C.S.P., Juan, H., Surapalli, R.Y., and Zhang, T.C. (15%) (2014). Highway runoff treatment by lab-scale horizontal sub-surface flow constructed wetlands. Ecological Eng., (in press).
2. Yang, H.J., Li, H.R., Lau, J., and Zhang, T. C. (15%) (2014). Verification and simplification of manufacturers' data in unitary HVAC equipment through a DX cooling coil modeling. Energy and Buildings. Energy and Buildings, (in press).
3. Yang, H.J., Shi, Y.F., Lau, J., and Zhang, T. C. (15%) (2014). An optimal control strategy based on virtual flow measuring for variable flow primary pumping. HVAC&R Research, (in press) DOI:10.1080/10789669.2013.874245.
4. Yang, H.J., Shi, Y.F., Lau, J., and Zhang, T. C. (15%) (2014). An optimal control strategy based on virtual flow measuring for variable flow primary pumping. HVAC&R Research, (in press).
5. Biswas, S. Kranz, W. L., Shapiro, C. A., Mamo, M., Bartelt-Hunt, S. L., Snow, D. D., Shelton, D. P., Tarkalson, D. D., Mader, T. L., van Donk, S. J., and Zhang, T. C. (5%). (2013). Use of a surrogate to evaluate the impact of tillage on the transport of steroid hormones from manure-amended agricultural fields. Transactions of the ASABE, 56(4), 1379-1385.
6. Guo, H., Ren, Y., Sun, X., Xu, Y., Li, X., Zhang, T.C. (10%), Kang, J., and Liu, D. (2013). Removal of Pb²⁺ from aqueous solutions by a high-efficiency resin. Applied Surface Science. 283, 660-667.
7. van Donk, S.J., Biswas, S., Kranz, W.L., Snow, D. D., Bartelt-Hunt, S. L., Mader, T. L., Shapiro, C. A., Shelton, D. P., Tarkalson, D. D., Zhang, T. C. (5%), and Ensley, S. (2013). Transport of steroid hormones in the vadose zone after land application of beef cattle manure. Transactions of the ASABE, 56(4), 1327-1338.
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9. Bartelt-Hunt, S.L., DeVivo, S., Jhonson, L., Snow, D.D., Kranz, W.L., Mader, T.L., Shapiro, C.A., van Donk, S.J., Shelton, D.P., Tarkalson, D.D., and Zhang, T.C. (5%) (2013). "Effect of composting on the fate of steroids in beef cattle manure." J. Environ. Qual., 42(4), 1159-1166.
10. Biswas, S., Shapiro, C.A., Kranz, W.L., Mader, T.L., Shelton, D.P., Snow, D.D., Bartelt-Hunt, S.L., Tarkalson, D.D., van Donk, S.J., Zhang, T.C. (5%), and Ensley, S. (2013). Current knowledge on the environmental fate, potential impact and management of growth promoting steroids used in the US

- beef cattle industry. J. Soil Water Conservation, 68(4), 325-336.
11. Neal, J., A. Schwer, D. Tiller, B. Cory, N. Barry, C. Berryman, Z. Shen, J. Shi, Y. Cho, J. Stansbury, H. Li, E. Lau, T.C. Zhang (5%), and M. Alahmad (2012). "Analysis of Components in a Zero Net Energy Test House (ZNETH) in Omaha Nebraska." The International Journal of the Constructed Environment, 2(1), 37-49.
 12. Sang, W., Zhang, Y., Zhou, X., and Zhang, T.C. (20%). (2012). Spatial and seasonal distribution of synthetic musks in sewage treatment plants of Shanghai, China. Wat. Sci. Technol., 66(1), 201-209.
 13. Bartelt-Hunt, S., Snow, D., Kranz, W., Mader, T., Shapiro, C., van Donk, S., Shelton, D., Tarkalson, D., and Zhang, T.C. (5%) (2012). Effect of growth promotants on the occurrence of natural and synthetic steroid hormones on feedlot soils and in runoff from beef cattle feeding operations. Environ. Sci. & Tech., 46, 1352-1360.
 14. Ni, L, Lau, S.K., Li, H., Zhang, T.C. (15%), Stansbury, J.S., and Neal, Jill (2012). Feasibility study of a localized residential graywater energy-recovery system. Applied Thermal Eng., 39, 53-62.
 15. Shi, L., Zhou, X., Zhang, Y., Gu, G., Surampalli, R.Y., and Zhang, T.C. (15%) (2010). Development of an analytical method for eight fluoroquinolone antibiotics using solid-phase extraction and liquid chromatography with fluorescence detection. International J. of Environ. Analytical Chemistry, 90(14-15), 1085-1098.
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 18. Yan, S., Bala Subramanian, S., Tyagi, R.D., Surampalli, R.Y., and Zhang, T.C. (15%) (2010). Emerging contaminants of environmental concern: source, transport, fate and treatment. Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management, 14(1), 2-20.
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 24. Huang, Y.H. (Post-doc), and T.C. Zhang (30%) (2006). Nitrite reduction and formation of corrosion coating in a zerovalent iron system. Chemosphere, 64, 937-943.
 25. Huang, Y.H. (Post-doc), and T.C. Zhang (40%) (2006). Reduction of nitrobenzene and formation of corrosion coatings in zerovalent iron system. Water Res., 40, 3075-3082.
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32. Hu, C. (M.S. student), T.C. Zhang (50%), Y. H. Huang, M. F. Dahab, and R. Surampalli (2005). Effects of long-term wastewater application on chemical properties and phosphorus adsorption capacity in soils of a wastewater land treatment system. Environ. Sci. Technol. 39(18):7240-7245.
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Papers under Review and in Preparation

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2. Zhou, X., Zhang, Y., Zhang, X., Jiang, M., Surampalli, R.Y., and Zhang, T.C. (15%) (2013). Modified anaerobic digestion model No. 1 (ADM1) for modeling municipal wastewater treatment by a novel outside cycling anaerobic reactor. Water Research (under review).
3. Hu, M., Zhang, T.C., Zhou, J., Chen, H., Stansbury, J., Shi, J., and Neal, J. (2013). Internal/external membrane fouling in MBRs and modeling. J. Membrane Science (under review).
4. Barry, N., Berryman, C., Shen, Z.G., Neal, J., Shi, J., Cho, Y., Stansbury, J., Li, H., Lau, E., Zhang, T.C., Alahmad, M., and Ashwer, A. (2013). Successful Green Commercial Building Practices: Analyzing Potential Influence within the Residential Sector. (Submitted).
5. Gardels, D., Stansbury, J., Killion, S., Neal, J., Zhang, T.C., Shen, Z.G., Shi, J., Berryman, C., Ashwer, A., Cho, Y., Li, H., Lau, E., and Alahmad, M. (2012). Economic input-output life cycle assessment of water reuses strategies in residential buildings. (under review).

REFERRED BOOKS AND BOOK CHAPTERS

Books Published (7)

1. Surampalli, R., Zhang, T.C., Gurjar, B.R., Ojha, C.S.P., Tyagi, R.D., and Kao, C.M. (eds.) (2014). Carbon Capture and Storage: Physical, Chemical and Biological Methods. ASCE, Reston, Virginia, (in press).
2. Surampalli, R., Zhang, T.C., Ojha, C.S.P., Gurjar, B.R., Tyagi, R.D., and Kao, C.M. (eds.) (2013). Climate Change Modeling, Mitigation and Adaptation. ASCE, Reston, Virginia, February 2013.
3. Zhang, T.C., Surampalli, R.Y., Vigneswaran, S., Tyagi, R.D., Ong, S.L. and Kao, C.M. (eds.) (2012). Membrane Technology and Environmental Applications. ASCE, Reston, Virginia, 2012.
4. Khanal, S.K., Surampalli, R.Y., Zhang, T.C., Lamsal, B.P., Tyagi, R.D., and Kao, C.M. (eds.) (2010). Bioenergy and Biofuel from Biowastes and Biomass. ASCE, Reston, Virginia, 2010.
5. Tyagi, R.D., Surampalli, R.Y., Yan, S., Zhang, T.C., Kao, C.M., and Lohani, B.N. (eds.) (2009). Sustainable Sludge Management: Production of Value Added Products. ASCE, Reston,

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6. Zhang, T.C., Surampalli, R., Lai, K.C.K., Hu, Z., Tyagi, R.D., and Lo, I. (eds.) (2009). Nanotechnologies for Water Environment Applications. ASCE, Reston, Virginia, 2009.
7. Bhandari, A., Surampalli, R., Adams, C.D., Champagne, P., Ong, S.-K., Tyagi, R.D., and Zhang, T.C. (eds.) (2009). Contaminants of Emerging Environmental Concern, ASCE, Reston, Virginia, 2009.

Book Chapters (43)

1. Surampalli, R., Gurjar, B. R., Zhang, T.C., and Ojha, C.S.P. (2014). Introduction. Ch. 1 in Carbon Capture and Storage: Physical, Chemical and Biological Methods, Surampalli, R., Zhang, T.C., Gurjar, B.R., Ojha, C.S.P., Tyagi, R.D., and Kao, C.M. (eds.), ASCE, Reston, Virginia, (in press).
2. Gurjar, B. R., Ojha, C.S.P., Surampalli, R. Y., Zhang, T.C., and Walvekar, P. P. (2014). Carbon capture and storage: An overview. Ch. 2 in Carbon Capture and Storage: Physical, Chemical and Biological Methods, Surampalli, R., Zhang, T.C., Gurjar, B.R., Ojha, C.S.P., Tyagi, R.D., and Kao, C.M. (eds.), ASCE, Reston, Virginia, (in press).
3. Nouha, N. John, R. P., Yan, S., R. D. Tyagi, Surampalli, R. Y., and Zhang, T. C. (2014). Carbon capture and sequestration” Biological technologies. Ch. 4 in Carbon Capture and Storage: Physical, Chemical and Biological Methods, Surampalli, R., Zhang, T.C., Gurjar, B.R., Ojha, C.S.P., Tyagi, R.D., and Kao, C.M. (eds.), ASCE, Reston, Virginia, (in press).
4. Mariyamma, P. N., Yan, S., R. D. Tyagi, Surampalli, R. Y., and Zhang, T. C. (2014). CO₂ sequestration and leakage. Ch. 5 in Carbon Capture and Storage: Physical, Chemical and Biological Methods, Surampalli, R., Zhang, T.C., Gurjar, B.R., Ojha, C.S.P., Tyagi, R.D., and Kao, C.M. (eds.), ASCE, Reston, Virginia, (in press).
5. Ramakrishnan, A., Zhang, T. C., and Surampalli, R. Y. (2014). Monitoring, verification and accounting of CO₂ stored in deep geological formations. Ch. 6 in Carbon Capture and Storage: Physical, Chemical and Biological Methods, Surampalli, R., Zhang, T.C., Gurjar, B.R., Ojha, C.S.P., Tyagi, R.D., and Kao, C.M. (eds.), ASCE, Reston, Virginia, (in press).
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8. Bhattacharya, I., More, T. T., Yadav, J. S. S., Kumar, L., Yan, So., John, R., P., Tyagi, R. D., Surampalli, R. Y., and Zhang, T. C. (2014). Carbon burial and enhanced soil carbon trapping. Ch. 11 in Carbon Capture and Storage: Physical, Chemical and Biological Methods, Surampalli, R., Zhang, T.C., Gurjar, B.R., Ojha, C.S.P., Tyagi, R.D., and Kao, C.M. (eds.), ASCE, Reston, Virginia, (in press).
9. Bhattacharya, I., More, T. T., Yadav, J. S. S., Kumar, L., Yan, So., John, R., P., Tyagi, R. D., Surampalli, R. Y., and Zhang, T. C. (2014). Carbon burial and enhanced soil carbon trapping. Ch. 11 in Carbon Capture and Storage: Physical, Chemical and Biological Methods, Surampalli, R., Zhang, T.C., Gurjar, B.R., Ojha, C.S.P., Tyagi, R.D., and Kao, C.M. (eds.), ASCE, Reston, Virginia, (in press).
10. Zhang, X., Yan, So., John, R., P., Tyagi, R. D., Surampalli, R. Y., and Zhang, T. C. (2014). Algae-

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 12. Zhang, X., Yan, So., John, R., P., Tyagi, R. D., Surampalli, R. Y., and Zhang, T. C. (2014). Enzymatic sequestration of carbon dioxide. Ch. 14 in Carbon Capture and Storage: Physical, Chemical and Biological Methods, Surampalli, R., Zhang, T.C., Gurjar, B.R., Ojha, C.S.P., Tyagi, R.D., and Kao, C.M. (eds.), ASCE, Reston, Virginia, (in press).
 13. Bhattacharya, I., Yadav, J. S. S., More, T. T., Yan, So., John, R., P., Tyagi, R. D., Surampalli, R. Y., and Zhang, T. C. (2014). Biochar. Ch. 15 in Carbon Capture and Storage: Physical, Chemical and Biological Methods, Surampalli, R., Zhang, T.C., Gurjar, B.R., Ojha, C.S.P., Tyagi, R.D., and Kao, C.M. (eds.), ASCE, Reston, Virginia, (in press).
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GENBANK SUBMISSION IN USA

Thirty-three (33) bacterial strains were isolated and identified from microbial fuel cells that were inoculated with sludge from an anaerobic digester and fed with corn stove. The results were submitted to Genbank, USA.

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 20. Bezbaruah^P, A.N., and Zhang, T.C. (2006). Micro- and macro-environmental studies in *Scirpus validus* rhizosphere: engineering significance. OP and Proceedings of the 2006 World Water and Environmental Resource Congress (CD-ROM), EWRI-ASCE, Omaha, NE, May 21-25, 2006.
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62. Zhang^P, T.C., and T. Noike (1988). Comparison of one-phase and two-phase anaerobic digestion processes. OP and Proceedings of 43th Annual Conference of Japan Society of Civil Engineers, Hiroshima, Japan. II-509, pp. 1052-1055.

Under Review

OTHER CONFERENCE PRESENTATIONS AND PUBLICATIONS (^P = presenter)

1. Snow^P, D.D., Bartelt-Hunt, S.L., Biswas, S., Kranz, W.L., Mader, T.L., Shapiro, C.A., van Donk, S.J., Shelton, D.P., Zhang, T.C., Tarkalson, D.D. (2013) "Effects of Manure Management on Steroid Hormones in the Feedlot and the Field." Poster presentation in Special Symposium – Lessons Learned from USEPA STAR Endocrine Disrupting Chemicals Research Grants, SETAC North America National Conference, November 17-21, 2013, Nashville, TN.
2. Qi^P, Y., Zhang, T.C., and Ren, Y.Z. (2013). "Colloid-facilitated transport of testosterone in soils." Poster presentation at the 57th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, LaVista, NE, April 18-19, 2013.
3. Klein^P, M., Dayton, J., Zhang, T.C., Stansbury, J., Moussavi, M., and Richter-Egger, D.L. (2013). "Passive samplers for sampling storm water from BMPs." Poster presentation at the 57th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, LaVista, NE, April 18-19, 2013.
4. Yuan^P, Y., and Zhang, T.C. (2012) Treatment of real graywater with shredded-tire biofilters. Poster presentation at the 56th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, LaVista, NE, April 11-12, 2012.
5. Yuan^P, Y., and Zhang, T.C. (2012) FO osmosis and its application for graywater treatment. Poster presentation at the 56th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, LaVista, NE, April 11-12, 2012.
6. Hu, M., Zhang^P, T.C., Stansbury, J., Dahab, M., Shi, J., Neal, J., Alahmad, M., Berryman, C., Li, H., Schwer, A., and Shen, Z. (2011). Treatment of graywater with shredded-tire biofilters and membrane bioreactors. Oral presentation at the World Environmental & Water Resources Congress, May 22-26, 2011, Palm Springs, CA.
7. Hu^P, M., and Zhang, T.C. (2010) Combination of shredded-tire biofilters and membrane bioreactors for graywater treatment. Poster presentation at the 54th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, LaVista, NE, April 6-7, 2010.
8. Ma, R., Zhang^P, T.C., Bartelt-Hunt, S., Snow, D., Kranz, B., Mader, T., Shapiro, C., Shelton, D., Ensley, S., and Tarkalson, D. (2009) Sorption and Desorption of Testosterone in Agricultural Soils. Oral presentation at the World Environmental and Water Resources Congress 2009, May 17-21, 2009, Kansas City, MO.
9. Huang, H.^P, and Zhang, T.C. (2009) Start-up of microbial fuel cell reactors with different substrates. Poster presentation at the Graduate Research Symposium & Poster Session of UNL 2009 E-Week Event, April 24, 2009, Lincoln, NE.

10. Huang, H.^P, and Zhang, T.C. (2009) Bioenergy generated from corn stover with microbial fuel cells. Poster presentation at the 2009 Graduate Student Poster Session of UNL 2009 Research Fair, April 15, 2009, Lincoln, NE.
11. Ma^P, R., Zhang, T.C., Bartelt-Hunt, S., Snow, D., Kranz, B., Mader, T., Shapiro, C., Shelton, D., Ensley, S., and Tarkalson, D. (2009) Field- and laboratory-scale studies on fate and transport of hormones in soil/water systems. Poster presentation at the 53th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, LaVista, NE, April 1-2, 2009.
12. DeVivo^P, S., Bartelt-Hunt, S., Zhang, T.C., Snow, D., Kranz, B., Mader, T., Shapiro, C., Shelton, D., Ensley, S., and Tarkalson, D. (2009) Fate of hormones in the environment. Poster presentation at the 53th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, LaVista, NE, April 1-2, 2009.
13. Huang, H.^P, and Zhang, T.C. (2009) Start-up of microbial fuel cell reactors to treat biomass. Poster presentation at the 53th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, LaVista, NE, April 1-2, 2009.
14. Wan^P, J., Zhang, T.C., Shea, P., Stansbury, J., and Xia, Y. (2008) Simulation of decision making processes in competitive environments: application of agent-based modeling techniques. Poster presentation at the 52th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Council Bluffs, IW, March 26-27, 2008.
15. Ma^P, R., Zhang, T.C., Bartelt-Hunt, S., Snow, D., Kranz, B., Mader, T., Shapiro, C., Shelton, D., Ensley, S., and Tarkalson, D. (2008) Fate and transport of hormones in the soil/water system. Poster presentation at the 52th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Council Bluffs, IW, March 26-27, 2008.
16. Nunes, G. S., Zhang, T. C., Hu, C., Dahab, M. F., and Surampalli^P, R. (2006) Phosphorus fate and transport in Muskegon's wastewater land treatment system. OP and PP at the 5th IWA Biennial World Water Congress and Exhibition, Beijing, China, Sept. 10-14, 2006.
17. Nunes, G., Zhang^P, T.C., Dahab, M.F., and Surampalli, R. (2006) Phosphorous fate and transport in soils: laboratory column studies. Poster presentation at the 50th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Council Bluffs, IA, March 29-30, 2006.
18. Hu^P, C., Zhang, T.C., Huang, Y.H., Dahab, M.F., and Surampalli, R. (2005) Phosphorous fate and transport in soils for long-term wastewater land treatment. Poster presentation at the 49th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Council Bluffs, IA, April 13-14, 2005.
19. Huang^P, Y.H., and T.C. Zhang (2005) Impact of Fe²⁺ on redox reactions and activities of iron oxides formed in zero-valent iron promoted remediation systems. Poster presentation at the 49th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Council Bluffs, IA, April 13-14, 2005.
20. Hu^P. C., Zhang, T.C., Huang, Y.H., Dahab, M.F., and R. Surampalli (2004) Phosphorous sorption and movement in muskegon's soil for long-term wastewater land treatment. Oral presentation at the 48th Annual Great Plains Waste Management Conference, NE Water Environment Association, Council Bluffs, IW, March 24-26, 2004.
21. Huang^P, Y.H, and T.C. Zhang (2004) Impact of Al on nitrate reduction by zero-valent iron. Poster presentation at the 48th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Council Bluffs, IW, March 24-26, 2004.
22. Zeng^P, H., and T.C. Zhang (2004) Design and operation of the SLAD processes for small communities. Poster presentation at the 48th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Council Bluffs, IW, March 24-26, 2004.
23. Flere, J.M., and T.C. Zhang^P (2003) Nitrate removal in drinking water treatment with SLAD processes. Poster presentation at the 3rd Alternative Water and Wastewater Technologies for Small Communities Conference, Omaha, NE, April 1-3, 2003.
24. P. A. Mehta^P, and T.C. Zhang (2003) Effects of adding Al on nitrate reduction by zero-valent iron.

- Poster presentation at the 3rd Alternative Water and Wastewater Technologies for Small Communities Conference, Omaha, NE, April 1-3, 2003.
25. Huang^P, Y.H., and T.C. Zhang (2002) Mechanisms of nitrate removal by zerovalent iron powder. Poster presentation in the 46th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Omaha, NE, March 25-27, 2002.
 26. Bezbaruah^P, A.N., T.C. Zhang, and J. S. Stansbury (2002) Evaluation of two different operation modes for nitrogen removal in lab-scale subsurface flow constructed wetlands. Oral presentation at the 46th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Omaha, NE, March 25-27, 2002.
 27. Bezbaruah^P, A.N., and T.C. Zhang (2002) Characterization of microenvironments in constructed treatment wetland plant rhizosphere. Poster presentation at the 46th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Omaha, NE, March 25-27, 2002.
 28. Huang^P Y.H., and T.C. Zhang (2001) "Mechanisms of nitrate removal by zerovalent iron powder." Poster presentation in the 45th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Omaha, NE, March 28-29, 2002.
 29. Bezbaruah^P, A.N., T.C. Zhang, and J. S. Stansbury (2001) Ammonium and nitrate removal in from municipal wastewater using root-zone methods. Oral presentation in the 45th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Omaha, NE, March 28-29, 2002.
 30. Bezbaruah^P, A.N., and T.C. Zhang (2001) Performance of Lab-scale construction wetlands for organics and nitrogen removal. Poster presentation in the 45th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Omaha, NE, March 28-29, 2002.
 31. Huang^P Y.H., and T.C. Zhang (2001) Effects of selected cations and aqueous ferric iron on nitrate reduction with metallic iron powder. Oral presentation and Abstracts Book of 2001 Conference on Environ. Res., p.9-10, Manhattan, Kansas, May 21-24, 2001.
 32. Bezbaruah^P, A.N., T.C. Zhang, and J. S. Stansbury (2001) Effects of influent ammonium concentration on nitrogen removal in subsurface-flow constructed wetlands. Oral presentation and Abstracts Book of 2001 Conference on Environ. Res., p.2-3, U.S. EPA, HSRC, Manhattan, Kansas, May 21-24, 2001.
 33. Huang^P Y.H., and T.C. Zhang (2000) Nitrate removal using wasted industrial iron powder. Oral presentation and Abstracts Book of 2000 Conference on Hazardous Waste Res., p.21, U.S. EPA, HSRC, Denver, CO, May 23-25, 2000.
 34. Bezbaruah^P, A.N., and T.C. Zhang (2000) Nitrogen removal in laboratory-scale constructed wetlands. Oral presentation and Abstracts Book of 2000 Conference on Hazardous Waste Res., p.6, U.S. EPA, HSRC, Denver, CO, May 23-25, 2000.
 35. Huang^P, Y.H., and T.C. Zhang (2000) Nitrate removal using metallic iron powder. I. mechanisms and kinetics. Poster presentation in Research Symposium of Hazardous Substance Research Centers, Pacific Grove, Monterey, CA, July 9-10, 2000.
 36. Huang^P Y.H., and T.C. Zhang (2000) Nitrate removal by iron powder. Poster presentation in the 44th Annual Great Plains Waste Management Conference, Nebraska Water Environment Association, Omaha, NE, March 26-28, 2000.
 37. Bezbaruah^P, A.N., T.C. Zhang, and J. S. Stansbury (2000) Constructed wetlands for wastewater treatment. Oral presentation at the 44th Annual Great Plains Water Environment and Solid Waste Management Conference, Nebraska Water Environment Association, Omaha, NE, March 26-28, 2000.
 38. Flere, J.M., and T.C. Zhang^P (1998) Sulfur and limestone autotrophic denitrification for treatment of nitrate-contaminated water during fixed bed column experiments. Oral presentation in NSF International/PAHO/ WHO 1st International Symposium, May 10-13, 1998 Washington, D.C.
 39. Lampe, D.G., and T.C. Zhang^P (1997) Sulfur-based autotrophic denitrification for remediation of

- nitrate-contaminated surface water. Poster presentation at the 4th International In-Situ and On-Site Bioremediation Symposium, New Orleans, LA, April 28 - May 1, 1997.
40. Zhang^P, T.C. (1997) Sulfur-limestone autotrophic denitrification system for nitrate contaminated water. Oral presentation at the 41st Annual Great Plains Waste Management Conference. March 26, 1997.
 41. Singh^P, J., C.F. Chew, L.L. Zawaideh, S. Comfort, P. Shea, and T.C. Zhang (1997) Fe⁰ metal promoted processes to remove and transformation atrazine and nitrate in contaminated soil and water. Poster presentation at the U.S.EPA site visiting, Kansas State University, March 19, 1997.
 42. Li, Z.M., P.J. Shea^P, S.D. Comfort, T.C. Zhang, and L.E. Erickson (1996) Fenton oxidation of TNT in soil slurries as influenced by temperature, dissolved organic matter and clay minerals. Poster presentation at the 1996 HSRC/WERC Joint Conference on the Environment. May 21-23, 1996, Albuquerque, NM.
 43. Zhang^P, T.C., and P.L. Bishop (1996) Evaluation of microelectrode performance and applicability in biofilm systems. Poster presentation at WEFTEC'96, the Water Environment Federation 69th Annual Conference & Exposition. Dallas, TX, October 5-9, 1996.
 44. Zhang^P, T.C. (1995) Effects of microscale environmental conditions on transport and transformation processes in biofilms and contaminated soils. Oral presentation given to the Agronomy Department at the UNL. May 1, 1995.
 45. Zhang^P, T.C., and P.L. Bishop (1994) Evaluation of substrate, mass transfer, substrate and pH effects in a nitrifying biofilm. Poster presentation at WEFTEC '94, the 67th Annual WEF Conference in Chicago, Illinois on October 17, 1994.

INVITED SPEECH, PRESENTATIONS AND LECTURES

1. Zhang^P, T.C. (2013) Physical-chemical treatment processes. Invited lectures (total 8 of 2-h lectures) given at Huazhong University of Science and Technology, Wuhan, P.R.C., Dec, 16-22, 2013.
2. Zhang^P, T.C. (2013) Stormwater management and treatment. Invited speech, Huazhong University of Science and Technology, Wuhan, P.R.C., Dec, 21, 2013.
3. Zhang^P, T.C. (2013) SERS and CARS for environmental applications. Invited speech, Huazhong University of Science and Technology, Wuhan, P.R.C., Dec, 19, 2013.
4. Zhang^P, T.C. (2013) Environmental science and engineering: Research trend in the USA. Invited speech, Wuhan University, P.R.C., Dec. 17, 2013.
5. Zhang^P, T.C. (2013) Passive samplers for highway runoff BMP monitoring. Invited speech, Shichuan University, P.R.C., Nov. 18, 2013.
6. Zhang^P, T.C. (2013) Emerging contaminants: CAFO and its management. Invited speech, Shichuan University, P.R.C., Nov. 18, 2013.
7. Zhang^P, T.C. (2013) Development of low carbon society: Water and energy systems. Invited speech, Xi'an University, P.R.C., June. 20, 2013.
8. Zhang^P, T.C. (2013) Raman-based technology: its bio-molecular and environmental applications. Invited speech, Xi'an University, P.R.C., June. 19, 2013.
9. Zhang^P, T.C. (2013) Sorption and desorption: new perspectives. Invited speech, Xi'an University, P.R.C., June. 21, 2013.
10. Zhang^P, T.C. (2013) Iron: from ZVI to NZVI and activated iron. Invited speech, Xi'an University, P.R.C., June. 24, 2013.
11. Zhang^P, T.C. (2013) Surface-enhanced Raman spectroscopy nanosensors: principles and biomelecular applications. Invited speech, Department of Pharmacology and Experimental Neuroscience Seminar Series, University of Nebraska Medical Center, Omaha, NE, April 26, 2013.
12. Zhang^P, T.C. (2012) Physical-chemical treatment processes. Invited lectures (total 8 of 2-h lectures) given at Huazhong University of Science and Technology, Wuhan, P.R.C., Dec, 10-23, 2012.

13. Zhang^P, T.C. (2012) Comparison of education systems between China, USA and Japan. Invited speech, Huazhong University of Science and Technology, P.R.C., Dec. 20, 2012.
14. Zhang^P, T.C. (2012) Green technology for sustainable water management. Invited speech, Huazhong University of Science and Technology, P.R.C., Dec. 26, 2012.
15. Zhang^P, T.C. (2011) Environmental engineering and science: Trends and future directions in the US. Invited speech, Huazhong University of Science and Technology, P.R.C., Dec. 22, 2011.
16. Zhang^P, T.C. (2011) Membrane technologies for development of sustainable communities. Invited speech, Huazhong University of Science and Technology, P.R.C., Dec. 15, 2011.
17. Zhang^P, T.C. (2011) Physical-chemical treatment processes. Invited lectures (total 8 of 2-h lectures) given at Huazhong University of Science and Technology, Wuhan, P.R.C., Dec, 8-23, 2011.
18. Zhang^P, T.C. (2011) Membrane bioreactors (MBRs): fouling, modeling and future perspectives. Invited speech, Seminar in Chemical Engineering, Dept. of Chemical Engineering, Ketchum Auditorium, Lafferre Hall, University of Missouri, Nov. 10, 2011.
19. Zhang^P, T.C. (2011) Membrane technology and environmental applications. Invited speech at University of Technology Sydney, Sept., 15, 2011.
20. Zhang^P, T.C., and Surampulli, R.Y. (2011). Nanotechnology: Environmental application and implications. Invited speech at 4th International Contaminated Site Remediation Conference, Adelaide, Australia, 11-15 Sept., 2011.
21. Zhang^P, T.C. (2010) Environmental pollution control, energy and sustainability. Invited speech given at Wuhan Institute of Technology, Dec, 20, 2010, Wuhan, P.R.C.
22. Zhang^P, T.C. (2010) Emerging contaminants: current status and future trend. Invited speech given at Wuhan Institute of Technology, Dec, 21, 2010, Wuhan, P.R.C.
23. Zhang^P, T.C. (2010) Climate change and water environment: trend and research directions. Invited speech given at South-Central University for Nationalities, Dec. 17, 2010, Wuhan, P.R.C.
24. Zhang^P, T.C. (2010) Physical-chemical treatment processes. Invited lectures (total 8 2-h lectures) given at Huazhong University of Science and Technology, Dec, 9-23, 2010, Wuhan, P.R.C.
25. Zhang^P, T.C. (2010) Low carbon communities with innovative decentralized water/energy systems. Invited speech given at the Symposium on Science and Technology for Water Pollution Control in China, Japan, and US, Oct. 24-30, Hangzhou, China.
26. Zhang^P, T.C. (2010) Decentralized water/energy systems for development of low carbon communities. Invited speech given at the 2010 Shanghai Chongming Eco-Island International Forum, July 5-7, 2010, Shanghai, China.
27. Zhang^P, T.C. (2009) Bioenergy and biofuel: key issues about biomass. Invited speech given in the Department of Environmental Science and Engineering at Tongji University, July 6, Shanghai, P.R.C.
28. Zhang^P, T.C. (2009) Nanotechnology and microbial fuel cells. Invited speech given in the Department of Civil Engineering at Wuhan Institute of Technology, July 1, 2009, Wuhan, P.R.C.
29. Zhang^P, T.C. and Huang, H. (2009) Environmental engineering and science: trend and research directions in the US. Keynote speech at 2009 Wuhan International Conference on the Environment, June 27-30, 2009, Wuhan, P.R.C.
30. Zhang^P, T.C. (2009) Microbial fuel cells: its principles and future potentials. Invited speech given in the Department of Environmental Science and Engineering at Wuhan Polytechnic University, June 26, 2009, Wuhan, P.R.C., and in the Department of Environmental Science and Engineering at Tongji University, July 7, Shanghai, P.R.C.
31. Zhang^P, T.C. (2009) Microbial fuel cells: applications and implications. Invited speech given in the School of Environmental Science and Engineering at Huazhong University of Science and Technology, June 25, 2009, Wuhan, P.R.C.
32. Zhang^P, T.C. (2004) Wastewater treatment technologies for small communities. Invited oral presentation to the first Nebraska Engineering Connects Event in Columbus, Columbus, NE, Nov. 17.
33. Zhang^P, T.C. (2004) Wastewater land treatment systems and related P fate and transport studies. Invited speech to the Environ. Eng. Dept., Tsinghua Univ, P.R. China, June 14, 2004.

34. Zhang^P, T.C. (2004) M.S. Environmental Engineering (MSEE) program at UNL and related research activities. Invited speech to the Civil Eng. Dept., Wuhan Univ, P.R. China, June 7, 2004.
35. Zhang^P, T.C. (2003) Enhancement of nitrate reduction in zero-valent iron promoted processes. Invited oral presentation at Science to Achieve Results (STAR) Grant Seminar, the U.S. EPA Region 7 and EPA's National Center for Environmental Research, Kansas City, KA, Aug. 13.
36. Zhang^P, T.C. (2000) Zero-valent promoted processes for remediation of contaminated ground water and soils. Oral presentation to the Environ. Eng. Dept., Tsinghua Univ, P.R. China, June 12, 2000.
37. Zhang^P, T.C. (2000) Microelectrode technologies and their applications in environmental engineering and sciences. Oral presentation to the Civil Eng. Dept., Wuhan Univ, P.R. China, June 17, 2000.
38. Zhang^P, T.C. (1994) Influence of biofilm structure on transport and transformation processes in biofilms. Oral presentation given to the Environment Department at the R&D Division of Proctor and Gamble Co., April, 1994.

REPORTS

1. Zhang, T.C., Stansbury, J., and Moussavi, M., Klein, M., Dou, Y. Q., and Richter-Egger, D. L. (2013). *Passive stormwater samplers for sampling highway runoff from BMPs: Feasibility studies*. Final report submitted to NDOR.
2. Zhang, T.C., Stansbury, J., Moussavi, M., Jones, D., and Richter-Egger, D. L. (2013). *Development and evaluation of BMPs for highway runoff pollution control*. Final reports submitted to NDOR.
3. Zhang, T.C. (2012-). Influence of soil particle size fractions and environmental conditions on fate and transport of hormones in soils. Annual Reports submitted to NSF, 09/01/12 and 09/01/13.
4. Zhang, T.C., Stansbury, J., and Moussavi, M. (2011-). Development and evaluation of BMPs for highway runoff pollution control. Quarterly progress reports submitted to NDOR, 09/15/11, 12/15/11, 03/15/12, 06/15/12, 09/15/12, 12/15/12, 03/15/13, 06/15/13, and 09/15/13.
5. Zhang, T.C., Stansbury, J., and Moussavi, M. (2011-). Passive stormwater samplers for sampling highway runoff from BMPs: Feasibility studies. Quarterly progress reports submitted to NDOR, 09/15/11, 12/15/11, 03/15/12, 06/15/12, 09/15/12, 12/15/12, 03/15/13, 06/15/13, and 09/15/13.
6. Stansbury, J., Moussavi, M., and Zhang, T.C. (2008-11). Feasibility of Integrating Natural and Constructed Wetlands in Roadway Drainage System Design. Quarterly progress reports submitted to NDOR, 05/30/2012 (Final Report), 09/15/08, 12/15/08, 03/15/09, 06/15/09, 09/15/09, 12/15/09, 03/15/10, 06/15/10, 09/15/10, 12/15/10, 03/15/11, 06/15/11, 09/15/11, and 12/15/11 (Progress Reports).
7. Zhang, T.C. (2009-11). Advanced decentralized water/energy network design for sustainable infrastructure. Quarterly progress reports submitted to EPA, 09/15/09, 12/15/09, 03/15/10, 06/15/10, 09/15/10, 12/15/10, 03/15/11, 06/15/11, 09/15/11, and 12/15/11.
8. Guo, J., Zhang, T.C., Admiraal, D.M., and Bushra, A. (2010). Computational Design Tool for Bridge Hydrodynamic Loading in Innudated Flows of Midwest Rivers. Final Report (Report # 25-1121-0001-227) submitted to Mid-America Transportation Center, University of Nebraska-Lincoln, NE. April 1, 2010 (60 pages).
9. Zhang, T.C. (2009). Generation of Bioenergy from Solid Agricultural Wastes with Novel Microbial Fuel Cell Technology. Reports submitted to NE Center for Energy Science Research, NE, 04/30/09 and 04/30/10 (progress report) and 10/30/09 and 10/30/10 (annual report).
10. Zhang, T.C., and M. F. Dahab (2003-06) Phosphorus sorption capability and distributions in long-term wastewater land treatment. Reports submitted to the U.S. EPA Region 7, Kansas City, KA, 05/20/06 (final report), 05/05, 09/20/04 and 12/03/03.
11. Zhang, T.C., and P.J. Shea (2003-05) Kinetic and mechanistic framework for remediation using zerovalent iron (SEER 2), Reports submitted to The U.S. EPA, Washington DC, 11/29/05, 11/29/04, and 11/29/03.

12. Zhang, T.C., and P.J. Shea (2004-09) Building Surface Analysis into a New University Infrastructure in Environmental Science, Reports submitted to NRI, UNL, 12/10/09 (report for outside funding generated by the project), 08/07/06 (final report), 11/30/05, 05/24/05, and 1/30/04.
13. Zhang, T.C., and H. Zeng (2003-04) Development of Sulfur-Limestone Autotrophic Denitrification Processes for Treatment of Nitrate-Contaminated Groundwater in Small Communities. Reports submitted to the Midwest Technology Assistance Center for Small Public Water Systems, Illinois, IL, 08/31/04 (final report), 07/15/04, 04/15/04, 01/15/04, 10/15/03, 07/15/03, 04/15/03, and 01/15/03.
14. Zhang, T.C., P.J. Shea, and S.D. Comfort (1996-2001) 95-32 Simultaneous Transformation of Atrazine and Nitrate in Contaminated Water, Sediment and Soil by Zero-Valent Iron-Promoted Processes. Reports submitted to the U.S. EPA HSRC. 09/01 (final report, 91 p.), 04/30/01 (annual report, 28 p.), 10/15/00 (semi-annual report, 15 p.), 07/5/00 (progress report, 32 p.), 04/30/00 (annual report, 35 p.), 10/05/99 (semi-annual report, 24 p.), 04/30/99 (annual report, 37 p.), 09/28/98 (semi-annual report, 22 p.), 04/30/98 (annual report, 42 p.), 09/30/97 (semi-annual report, 20 p.), 07/14/97 (response report, 10 p.), 09/26/97 (progress report, 11 p.), 04/26/97 (annual report, 25 p.), 02/18/97 (response report, 12 p.),
15. Zhang, T.C. (1996-99) Sulfur-Limestone Autotrophic Denitrification System for Remediation of Nitrate-Contaminated Groundwater. Reports submitted to the U.S.G.S., 02/15/99 (report for website, 5 p.), 07/18/97 (final report, 35 p.), 02/12/96 (progress report, 3 p.).
16. Zhang, T.C., and J. Shan (1999) In-situ Remediation of Septic-System Nitrate Using Sulfur-Limestone Denitrification Processes. Reports submitted to NDEQ, 10/15/99, 01/12/99.
17. Shea, P.J., S.D. Comfort, R. Drijber, T. Elthon, G. Horst, L. Harshman, T. Kokjohn, W. Powers, and T.C. Zhang (1998) Accelerated Bioremediation of Xenobiotics in Soil and Water. Annual Report submitted to NSF, 04/98.
18. Zhang, T.C. and J. M. Flere (1996-98) Remediation of Nitrate-Contaminated Water Using Sulfur-Limestone Autotrophic Denitrification Processes. Reports submitted to NWRI (National Water Research Institute), 10/14/98 (final report), 04/98, 01/98, 10/97, 07/97, 04/30/97, 01/97, and 10/28/96.
19. Shea, P.J., S.D. Comfort, R. Drijber, T. Elthon, G. Horst, L. Harshman, T. Kokjohn, W. Powers, and T.C. Zhang (1997) Accelerated Bioremediation of Xenobiotics in Soil and Water. Annual Report submitted to NSF, 04/97.
20. Zhang, T.C., and H. Pang (1997) Environmental Processes for Accelerated Bioremediation of Xenobiotics in Soil and Water. Project Semi-Annual Progress Report submitted to NSF through Dr. P. Shea of the Agronomy Department at UNL, 7 p., 03/03/97.