

CURRICULUM VITAE

NAME

Qian, Yaling

ADDRESS

Horticulture and Landscape Architecture
College of Agricultural Sciences

Shepardson

PHONE

(970) 491-7079

EDUCATION

1996 Ph D, Kansas State University

1988 MS, Nanjing Agricultural University

1981 BS, Hangzhou Teacher's College

OTHER POSITIONS

2004 - 2009 Associate Professor, Colorado State University.

1998 - 2004 Assistant Professor, Colorado State University.

1996 - 1997 Assistant Research Scientist, Texas A&M University.

1987 - 1992 Instructor, Hangzhou Teachers College.

1981 - 1985 Instructor, Hangzhou Teachers College.

PUBLISHED WORKS

Refereed Journal Articles

Gillette, K., Qian, Y., Follett, R., Delgraso, S. Nitrous oxide emissions from a golf course fairway and rough following application of different nitrogen fertilizers. *J. Environ. Quality*.

Gillette, K., Qian, Y., Follett, R., Delgraso, S. Reduced Methane Oxidation Potential from Turfgrass at a Colorado Golf Course. *Agriculture, Ecosystems and Environment*.

Wang, L., Qian, Y., Brummer, J. E., Wilhelm, S. J., Parton, W. J. (2015). Simulated biomass, environmental impacts and best management practices for long-term switchgrass systems in a semi-arid region. *Biomass and Bioenergy*, 75, 254-266.

Wang, L., Qian, Y., Brummer, J. E., Wilhelm, S. J., Parton, B. Simulated biomass, environmental impacts and best management practices for long-term switchgrass systems on marginal land in a semi-arid region. *Biomass and Bioenergy*.

Wang, L., Qian, Y., Brummer, J. E., Wilhelm, S. J., Keough, C. Simulated biomass, environmental impacts and

best management practices for long-term switchgrass systems on marginal land in a semi-arid region. *Biomass and Bioenergy*.

- Graus, M., Allyson, S. D., Fall, R., Yuan, B., Qian, Y., Westra, P., Gouw, J., Warneke, C. (2013). Biosphere-atmosphere exchange of volatile organic compounds over C4 biofuel crops. *Atmospheric Environment*, 66, 161-168.
- Negahban-Azar, M., Sharvelle, S., Qian, Y., Shogbon, A. (2013). Leachability of chemical constituents in soil-plant systems irrigated with synthetic graywater. *Environ. Sci. Processes Impacts*, 15, 760-772.
- Zhang, Y., Qian, Y., Bremer, D. J., Kaye, J. P. (2013). Simulation of N₂O emissions and estimation of global warming potential in turfgrass systems using the DAYCENT model. *J. Environ. Qual.*, 42, 1100-1108.
- Skiles, D. J., Qian, Y. (2013). Soil chemical property changes on golf course fairways under eight years of effluent water irrigation. *Int. Turfgrass Res. J.*, 12, 561-566.
- (2012). Biosphere-atmosphere exchange of volatile organic compounds over C4 biofuel crops. *Atmospheric Environment*, 66, 161-168.
- (2012). Leachability of Chemical Constituents in Soil-Plant Systems Irrigated with Synthetic Graywater. *Environmental Science: Processes & Impacts (Accepted)*.
- (2012). Long-term effects of landscape irrigation using household graywater – Experimental Study. *A report for the Water Environment Research Foundation Pp 153 Available online: <http://www.waciscience.org/docs/Long-term%20Study%20on%20Landscape%20Irrigation%20Using%20Household%20Graywater.pdf>*.
- (2012). Performance and Physiological Processes of ‘Brilliant’ Kentucky Bluegrass (*Poa pratensis* L) in Response to Salinity and Mowing Management. *Int Turfgrass Res J (in press)*, 12.
- (2012). Saltgrass Germination Responses to Salinity with Different Seed Treatments. *Int Turfgrass Res J (in press)*, 12.
- (2012). SOIL CHEMICAL PROPERTY CHANGES ON GOLF COURSE FAIRWAYS UNDER EIGHT YEARS OF EFFLUENT WATER IRRIGATION. *Int Turfgrass Res J (in press)*, 12.
- (2011). Spectral Reflectance Response of Three Turfgrasses to Leaf Dehydration. *Asian Journal of Plant Sciences*, 10, 67-73.
- (2010). Establishment, growth, and irrigation requirements of Kentucky bluegrass and tall fescue as influenced by two water sources. *Research Journal of Environmental Sciences*, 4, 443- 451.
- (2010). Soil Organic Carbon Input from Urban Turfgrasses. *Soil Sci Soc Am J*, 74, 366-371.
- (2009). Growth responses and ion regulation of four warm season turfgrasses to long-term salinity stress. *Sci Hortic-Amsterdam*, 122, 620-625.
- (2009). Topdressing Kentucky Bluegrass with Compost Increases Soil Water Content and Improves Turf Quality During Drought. *Compost Sci Util*, 17, 95-102.
- (2008). Cold hardiness of southern and northern saltgrass ecotypes. *Acta Hortic*, 48, 175-179.
- (2008). Effect of Seeding Date, Seeding Rate, and Seed Treatments on Saltgrass Seed Germination and Establishment. *Crop Sci*, 48, 2453-2458.

- (2008). Physiological response of different croftonweed (*Eupatorium adenophorum*) populations to low temperature. *Weed Sci*, 56, 196-202.
- (2008). Predicting relative low-temperature tolerance of non-acclimatized buffalograss using calorimetric data. *Thermochim Acta*, 479, 11-Jul.
- (2007). Environmental factors affecting vegetation composition in the Alxa Plateau, China. *J Arid Environ*, 69, 473-489.
- (2007). Freezing tolerance of 27 saltgrass ecotypes from three cold hardiness zones. *Hortscience*, 42, 157-160.
- (2007). Relative salinity tolerance of turf-type saltgrass selections. *Hortscience*, 42, 205-209.
- (2006). Techniques for enhancing saltgrass seed germination and establishment. *Crop Sci*, 46, 2613-2616.
- (2006). Topdressing turf with composted manure improves soil quality and protects water quality. *Soil Sci Soc Am J*, 70, 2114-2121.
- (2005). First report of brown stripe of saltgrass caused by *Bipolaris heveae* in Colorado. *Plant Dis*, 89, 913-913.
- (2005). Long-term effects of recycled wastewater irrigation on soil chemical properties on golf course fairways. *Agron J*, 97, 717-721.
- (2005). Response of creeping bentgrass to salinity and mowing management. *Hortscience*, 40, 2170-2174.
- (2005). Responses of creeping bentgrass to salinity and mowing management. *Hortscience*, 40, 463-467.
- (2004). Carbon isotope discrimination of three Kentucky bluegrass cultivars with contrasting salinity tolerance. *Agron J*, 96, 571-575.
- (2004). Growth response of four turfgrass species to salinity. *Agr Water Manage*, 66, 97-111.
- (2003). Cold hardiness of saltgrass accessions. *Crop Sci*, 43, 2142-2147.
- (2003). Estimation of soil organic carbon changes in turfgrass systems using the CENTURY model. *Agron J*, 95, 558-563.
- (2003). Light intensity affects gibberellic acid content in Kentucky bluegrass. *Hortscience*, 38, 113-116.
- (2003). Long-term effects of clipping and nitrogen management in turfgrass on soil organic carbon and nitrogen dynamics. *J Environ Qual*, 32, 1694-1700.
- (2003). Relationships of soluble carbohydrates and freeze tolerance in saltgrass. *Crop Sci*, 43, 2148-2153.
- (2002). Assessing soil carbon sequestration in turfgrass systems using long-term soil testing data. *Agron J*, 94, 930-935.
- (2002). Relative NaCl tolerance of Kentucky bluegrass, Texas bluegrass, and their hybrids. *Crop Sci*, 42, 2025-2030.
- (2002). Soluble carbohydrates in two buffalograss cultivars with contrasting freezing tolerance. *J Am Soc Hortic Sci*, 127, 45-49.
- (2001). Amending sand with isolite and zeolite under saline conditions. *Hortscience*, 36, 717-720.

- (2001). Comparative responses of two Kentucky bluegrass cultivars to salinity stress. *Crop Sci*, 41, 1895-1900.
- (2001). Freezing tolerance of six cultivars of buffalograss. *Crop Sci*, 41, 1174-1178.
- (2000). Salinity effects on zoysiagrass cultivars and experimental lines. *Crop Sci*, 40, 488-492.
- (1999). Influence of trinexapac-ethyl on diamond zoysiagrass in a shade environment. *Crop Sci*, 39, 202-208.
- (1999). Performance of five turfgrasses under linear gradient irrigation. *Hortscience*, 34, 893-896.

Non-Refereed Journal Articles

- Qian, Y. (2015). Comparison of soil properties and mineral composition of turfgrass shoots prior to and after 10 years of irrigation with effluent water. *Turfgrass and Environmental Research Online*.
- Qian, Y., Gillette, K., Zhang, Y., Koski, A. J., Follett, R. (2015). Carbon footprint and agronomy practices to reduce carbon footprint of golf courses. *USGA Turfgrass and Environmental Research Online*.
- Zhang, Y., Qian, Y. How Will Kentucky Bluegrass Turf Respond to Global Climate Change? Results from Ecosystem Modelling. *Acta Horticulturae*.
- Qian, Y., Koski, A. J., Zhang, Y. (2014). Carbon footprint and agronomy practices to reduce carbon footprint of golf courses. *USGA Turfgrass and Environmental Research Online*, 13(4), 4-5.
- Qian, Y. (2014). Soil analysis before and 10 years after effluent water irrigation. *Golfdom*.
- Skiles, D.J, Alshammary, S., Qian, Y. (2014). Spatial and temporal salinity accumulation patterns on golf course fairway soils under effluent water irrigation. *Australian Journal of Crop Science*, 8, 80-98.
- Zhang, Y., Qian, Y., Mecham, B., Parton, W. (2013). Development of best turfgrass management practices using the DAYCENT model. *Agron. J*, 105, 1151-1159.
- Wang, J. Z., Fu, J. M., Wilhelm, S. J., Qian, Y. (2013). Performance and physiological processes of 'Brilliant' Kentucky bluegrass (*Poa pratensis* L.) in response to salinity and mowing management. *Int. Turfgrass Res. J*, 12, 491-495.
- Nickell, K., Qian, Y. (2013). Saltgrass germination responses to salinity with different seed treatments. *Int. Turfgrass Res. J.*, 12, 187-192.
- Wang, L., Qian, Y., Brummer, J. E., Zheng, J., Wilhelm, S. J., Keough, C. Biomass, Soil C and N Dynamics, and Greenhouse Gas Budget of Switchgrass Grown on Marginal Quality Soil in a Semi-Arid Region. *GCB Bioenergy, John Wiley & Sons Ltd*.
- Qian, Y., Zhang, Y., Gillette, K., Koski, A. J. (2013). Carbon footprint and agronomy practices to reduce carbon footprint of golf courses. *USGA Turfgrass and Environmental Research Online*.
- Qian, Y., Koski, A. J., Additon, T. (2013). Development of seeded turf-type saltgrass. *USGA Turfgrass and Environmental Research Online*, 12(1).
- (2012). Water Reuse for Turfgrass and Urban Landscape Plants: Case Studies and Keys for Long-term Sustainability. *Colorado Water*, 29(2), 5-Feb.
- (2012). *Development of best turfgrass management practices using Daycent model*. ASA, CSSA and SSSA Annual Meetings [2012] p 72858.

- (2012). *Development of Best Turfgrass Management Practices Using the DAYCENT Model* (vol. 47, pp. S351). Hortscience: 2012 ASHS Annual Conference.
- (2012). *Heritability estimates and accession evaluation in Distichlis spicata*. ASA, CSSA and SSSA Annual Meetings [2012] p 75219.
- (2012). *Simulation of N₂O emissions from two cool season turfgrass lawns using the DAYCENT model*. ASA, CSSA and SSSA Annual Meetings [2012] p 72912.
- (2012). *Trace gas fluxes from Colorado golf courses*. ASA, CSSA and SSSA Annual Meetings [2012] p 71088.
- (2011). *Comparison of VOC emissions from conventional and alternative biofuel crops*. Abstract in the 242nd ACS National Meeting & Exposition, Denver, CO.
- (2011). *Effect of Seed Treatments, Seeding Date, and Seeding Rate on Saltgrass Seed Germination and Establishment* (1st ed., vol. 10, pp. 7-Jan). USGA Turfgrass and Environmental Research Online.
- (2011). *The Carbon Footprint of Colorado Golf Courses Estimated by Clubhouse Energy Use, Trace Gas Emissions and Modeling Carbon Sequestration*. In the 20011 ASA-CSSA-SSSA Int Annual Meetings Abstract.
- (2010). *Long-term study on landscape irrigation using household graywater experimental study*. A report for the Water Environment Research Foundation Available online: <http://www.waciscience.org/docs/WERF%20Long-Term%20Graywater%20Study%20Interim%20Report.pdf>.
- (2010). *Salinity management in turfgrass systems irrigated with effluent water* (23rd ed., vol. 9, pp. 4). In 2010 Turfgrass and Environmental Research Summary USGA Turfgrass and Environmental Research Online.
- (2010). *Soil Analysis Before and 5 Years after Recycled Water Irrigation*. Proceedings of the 25th Annual WateReuse Symposium in Washington DC.
- (2010). *VOC Emissions from the Potential Biofuel Crop: Switchgrass*. American Geophysical Union, Fall Meeting 2010, abstract #A53C-0222.

Abstract

- Gillette, K., Qian, Y., DelGrosso, S., Follett, R. (2014). *Methane emissions from a Colorado golf course: Effects of soil drainage*. The ASA, CSSA and SSSA Annual Meetings [2014]. p. 87679..
- Gillette, K., Qian, Y., DelGrosso, S., Follett, R. (2014). *Soil drainage effects on N₂O emissions from a Colorado golf course using controlled released fertilizers*. The ASA, CSSA and SSSA Annual Meetings [2014]. p. 87654..
- Qian, Y. (2014). *C Sequestration and N₂O Emissions in Urban Soils*. ASA, CSSA and SSSA Annual Meetings abstract.
- Zhang, Y., Qian, Y. (2014). *How Will Kentucky Bluegrass Turf Respond to Global Climate Change? Results from Ecosystem Modelling*. South Brisbane, QLD 4001,: International Horticulture Congress 2014.
- Isweiri, H., Wilhelm, S., Qian, Y. (2014). *Switchgrass Germination and Growth as Affected by Soil Salinity*. the ASHS Annual Conference.
- Qian, Y., Wilhelm, S. J. (2013). *Soil analysis before and 5 years after effluent water irrigation*. ASA, CSSA and SSSA Annual Meetings Abstract.

Isweiri, H., Qian, Y. (2013). *Interactive Effects of Hypoxia and Salinity on Perennial Ryegrass and Alkaligrass*. 2013 ASHS ANNUAL CONFERENCE Proceeding.

Book Review

(2011). *Carbon dynamics and sequestration in urban turfgrass ecosystems* (pp. 161-172). Carbon Sequestration in Urban Ecosystems Springer Publications , Lal, R and B Augustin (eds) , ISBN 978-94-007-2365-8.

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

December 12, 2015, "Turfgrass Research Updates", Rocky Mountain Regional Turfgrass Conference, Rocky Mountain Regional Turfgrass Association, (Presenter) Qian, Y., Denver.

November 6, 2013, "Soil Analysis Before and 5 Years After Effluent Water Irrigation", the 2013 ASA-CSSA-SSSA annual conference, Tampa, FL, peer-reviewed/refereed.

October 25, 2013, "Salinity Issues in Green Industry", Online Horticulture Seminar Series, Colorado State University.

September 10, 2013, "Salinity issues facing green industry", International Society of Arboriculture Conference, Cheyenne, WY.

July 26, 2013, "Carbon and Nitrogen Dynamics in Perennial Grass Landscape Systems", Key Laboratory of Soil Erosion and Dryland Farming on the Loess Plateau, Northwest A&F University, (Presenter) Qian, Y., Yangling, Shanxi, China.

July 5, 2013, "Interactive Effects of Hypoxia and Salinity on Perennial Ryegrass and Alkaligrass", 2013 ASHS ANNUAL CONFERENCE, Palm Desert, CA, peer-reviewed/refereed.

March 18, 2013, "Water Conservation Techniques in Urban Landscapes", Water Conservation in Arid Land Agriculture Conference, Saudi Arabia, Saudi Arabia., peer-reviewed/refereed.

2012, "Development of best turfgrass management practices using Daycent model. Presented in the 2012 ASA, CSSA and SSSA Annual Meetings".

2012, "Simulation of N₂O emissions from two cool season turfgrass lawns using the DAYCENT model. Presented in the 2012 ASA, CSSA and SSSA Annual Meetings".

2012, "Trace gas fluxes from Colorado golf courses. Presented in the 2012 ASA, CSSA and SSSA Annual Meetings".

2012, "Turfgrass research report. Presented at the Annual Rocky Mountain Turf Conference. Denver, December 5".

2011, "Gillette, K. L., Follett, Ronald, Qian, Yaling, Koski, Anthony, Del Grosso, Stephen. 2011. The Carbon Footprint of Colorado Golf Courses Estimated by

Clubhouse Energy Use, Trace Gas Emissions and Modeling Carbon Sequestration. Presented in the 2011 ASA-CSSA-SSSA Int. Annual Conference".

2011, "Yaling Qian. Carbon dynamics and sequestration in urban grasslands. Presented at the Institute of Botany, JiangSu, Chinese Academy of Science, China".

2011, "Yaling Qian. Carbon footprint of Colorado golf courses. Presented at the Annual Rocky Mountain Turf Conference. Denver".

2011, "Yaling Qian. Dec. 2011. Switchgrass as an energy crop in Colorado. Presented in the Department of Chemical and Biological Engineering, University of Colorado.".

2011, "Yaling Qian. Salinity and water quality associated with landscape irrigation. Presented at the 2011 Wyoming Groundskeepers & Growers Association Annual Conference".

2011, "Yaling Qian. Salinity issues in green industry. Presented in the 2011 Wyoming Groundskeepers & Growers Association Conference. Casper, WY.".

2011, "Yaling Qian. Carbon dynamics and water reuse in urban landscapes. Presented at the Institute of Ecology and Geography, Chinese Academy, Xinjiang, China".

2011, "Yaling Qian. Water reuse for landscape irrigation. Guest lecture for CIVE481".

2010, "CSU research report. Presented at the Annual Rocky Mountain Turf Conference. Denver, December 8".

2010, "Growing switchgrass as an energy crop in Colorado. Presented at Sundrop Fuels, Louisville, CO. July, 22, 2010.".

2010, "Water reuse for landscape irrigation. Guest lecture for SOCR481/CIVE481. April 21".

2010, "Yaling Qian and Abigail Holmquist. Soil analysis before and 5 years after recycled water irrigation. Presented at the 25th Annual Water reuse symposium. Washington D.C. September 2010".

2010, "Yaling Qian. Carbon dynamics and sequestration in turfgrass ecosystems. Presented at the Carbon Sequestration in Urban Ecosystems Symposium. Columbus, Ohio. April 14, 2010".

2010, "Yaling Qian. Carbon footprint in turfgrass systems. Presented at the Rutgers Turfgrass Symposium. New Brunswick, NJ. Jan. 11, 2010".

2010, "Yaling Qian. Carbon trapping in turfgrass systems. Presented at the GCSAA Annual Conference. San Diego, CA. Feb. 8-9. 2010".

2010, "Yaling Qian. Growing switchgrass as an energy crop in CO. Presented at the 2010 Western Great Plains Sustainable Feedstock Conference. Fort Collins, CO. September 15, 2010".

2010, "Yaling Qian. Impacts of recycled water on landscape plants. Presented at the ISA-RMC Plant healthcare workshop. Fort Collins, CO. June 22, 2010".

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2016	Spring	HORT698 - Research	18	15
2016	Spring	HORT571 - Soil-Plant-Water Relations/Water Stress	3	18
2015	Fall	HORT487 - Internship	18	25
2015	Fall	HORT698 - Research	18	18
2015	Fall	HORT792 - Seminar	1	3
2015	Fall	HORT441 - Turfgrass Science	3	2
2015	Summer	HORT487 - Internship	18	24
2015	Spring	HORT699 - Thesis	18	3
2014	Fall	HORT487 - Internship	18	30
2014	Fall	HORT698 - Research	18	12
2014	Summer	HORT487 - Internship	18	30
2014	Summer	HORT698 - Research	18	1
2014	Spring	HORT799 - Dissertation	18	3
2014	Spring	HORT698 - Research	18	10
2014	Spring	HORT571 - Soil-Plant-Water Relations/Water Stress	3	12
2014	Spring	HORT699 - Thesis	18	4
2013	Fall	HORT799 - Dissertation	18	3
2013	Fall	HORT487 - Internship	18	36

2013	Fall	HORT698 - Research	18	10
2013	Fall	HORT441 - Turfgrass Science	3	22
2013	Summer	HORT487 - Internship	18	35
2013	Spring	HORT799 - Dissertation	18	2
2013	Spring	HORT698 - Research	18	13
2012	Fall	HORT799 - Dissertation	18	3
2012	Fall	HORT487 - Internship	18	44
2012	Fall	HORT698 - Research	18	15
2012	Fall	HORT441 - Turfgrass Science	3	12
2012	Summer	HORT487 - Internship	18	42
2012	Spring	HORT799 - Dissertation	18	4
2012	Spring	HORT698 - Research	18	14
2012	Spring	HORT571 - Soil-Plant-Water Relations/Water Stress	3	21
2012	Spring	HORT699 - Thesis	18	3
2011	Fall	HORT495 - Independent Study	18	7
2011	Fall	HORT487 - Internship	18	60
2011	Fall	HORT698 - Research	18	15
2011	Fall	HORT699 - Thesis	18	3
2011	Fall	HORT441 - Turfgrass Science	3	15
2011	Summer	HORT487 - Internship	18	57
2011	Spring	HORT799 - Dissertation	18	6
2011	Spring	HORT698 - Research	18	9
2011	Spring	HORT699 - Thesis	18	2
2010	Fall	HORT799 - Dissertation	18	1
2010	Fall	HORT698 - Research	18	10
2010	Fall	HORT699 - Thesis	18	2
2010	Fall	HORT441 - Turfgrass Science	3	15
2010	Spring	HORT698 - Research	18	10
2010	Spring	HORT699 - Thesis	18	4
2009	Fall	HORT698 - Research	18	12
2009	Fall	HORT699 - Thesis	18	4
2009	Fall	HORT441 - Turfgrass Science	3	13
2009	Spring	HORT698 - Research	18	8
2009	Spring	HORT571 - Soil-Plant-Water Relations/Water Stress	3	12
2009	Spring	HORT699 - Thesis	18	3
2008	Fall	HORT487 - Internship	18	35
2008	Fall	HORT698 - Research	18	12
2008	Fall	HORT699 - Thesis	18	3
2008	Fall	HORT441 - Turfgrass Science	3	10
2008	Summer	HORT487 - Internship	18	35
2008	Spring	HORT698 - Research	18	12
2007	Fall	HORT496 - Group Study	18	0
2007	Fall	HORT487 - Internship	18	48
2007	Fall	HORT441 - Turfgrass Science	3	10

Evidence of Teaching Effectiveness (Annual Input)

Other Evidence

Fall 2013, HORT 441–Turfgrass Science

Enrollment number is 22. On a 1 to 5 scale (5=best), the average overall rating for the course was 4.7.

The overall rating for the instructor was 4.65.

EXTENSION/ENGAGEMENT ACTIVITIES/ACCOMPLISHMENTS

Presentation

Golf Course Irrigation with Effluent Water. Adult. Percent Responsible: 100%. 4th Quarter 2015.

WERA-011 Colorado State Report. Percent Responsible: 100%. 2nd Quarter 2014.

Decline of Spruce Trees in Parks of Cheyenne and. Percent Responsible: 100%. 3rd Quarter 2014.

Issues Associated with Landscape Irrigation with Recycled Water and Graywater. Adult. Percent Responsible: 60%. 4th Quarter 2014.

Salinity issues facing green industry. Percent Responsible: 100%. 2013.

COMMITTEES

the Alliance for Graduate Education and the Professoriate (AGEP) program, (January 31, 2010 - Present).

HLA Dept. Head Search Committee, (October 2015 - May 2016).

Graduate Admissions Committee, (January 1, 2013 - Present).

Tenure and promotion, (January 2010 - September 2015).

Tenure and promotion, (September 30, 2012 - November 1, 2013).

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

American Society of Agronomy (ASA).

Crop Science Society of America (CSSA).

International Turfgrass Society (ITS).

Soil Science Society of America (SSSA).

Water Reuse Association. (September 2014 - Present).

Committee Member, Fred Grau Turfgrass Science Award Committee. (May 1, 2013 - Present).

Committee Member, A453 Tengtou Agricultural Science Award Committee. (May 1, 2012 - Present).

Environmental Management. (2012 - Present).

International Turfgrass Research Journal. (2012 - Present).

Agronomy Journal. (2011 - Present).

Crop Science. (2010 - Present).

Global Change Biology. (2010 - Present).

HortScience. (2010 - Present).

Reviewer, Ad Hoc Reviewer, Journal of Environmental Quality. (2010 - Present).

Editor, Associate Editor, Crop Science Society of America. (September 2015 - December 31, 2018).

Committee Member, The Chinese University of Hong Kong. (January 2012 - December 2014).

Reviewer, Ad Hoc Reviewer, the Annals of Botany. (January 2014 - November 2014).

Applied Turfgrass Science. (2012 - December 2013).

Reviewer, Grant Proposal, Kentucky Science and Engineering Foundation. (January 1, 2013 - July 1, 2013).

Member, Search committee for the biofuels position. (2010 - 2011).

Member, Serve as a member for the Special Symposium Committee, Turfgrass Division, ASA, CSSA, and SSSA So. (2010).

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

Academic, City of Cheyenne, Cheyenne, WY, United States. (April 1, 2014 - August 1, 2014).
