

I. Personal Information

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II. Academic and Professional Background

Associate Director	Environmental Engineering Program, University of Colorado, Boulder, 2017-present
Visiting Professor	Institute of Biochemistry and Pollutant Dynamics, Environmental Chemistry Group, ETH, Zurich, Switzerland, 2015-2016
Visiting Professor	Swiss Federal Institute of Aquatic Sciences and Technology, EAWAG, Dübendorf, Switzerland, 2015-2016
Associate Professor	Civil, Environmental and Architectural Engineering, University of Colorado, Boulder, 2015-Present
Assistant Professor	Civil, Environmental and Architectural Engineering, University of Colorado, Boulder, 2008-2015
Post-Doctoral:	Southern Nevada Water Authority, Henderson, Nevada, 2006-2008
Graduate:	D.Env. Environmental Science and Engineering, UCLA, 2006
Instructor:	Environmental Charter High School, Lawndale, California, 2003
Graduate:	M.S. in Chemistry, California Institute of Technology, 2002
Undergraduate:	B.S. in Chemistry, University of Puerto Rico, 1999

III. Funded Research

Current and Past Funded Grants

1. Quantifying hydroxylating species in dissolved organic matter. Principal Investigator: Fernando L. Rosario-Ortiz. Co-Principal Investigator: Garrett McKay. Funding Agency: National Science Foundation. Total Award: \$408,848. Award Duration: **2018-2021**
2. Application of fluorescence spectroscopy for the characterization of dissolved organic matter: Disentangling common misconceptions and underlying chemistry. Principal Investigator: Fernando L. Rosario-Ortiz. Funding Agency: National Science Foundation. Total Award to CU: \$227,538. Award Duration: **2018-2021**
3. RAPID: Assessment of water quality in Puerto Rico after Hurricane Maria. Principal Investigator: Fernando L. Rosario-Ortiz. Funding Agency: National Science Foundation. Total Award to CU: \$73,873. Award Duration: **2018-2019**
4. Characterizing pyrogenic soil organic matter as a source of nitrogenous disinfection byproducts. Principal Investigator: Fernando L. Rosario-Ortiz. Co-Principal Investigator: Julie Korak. Funding Agency: National Science Foundation. Total Award to CU: \$247,708. Award Duration: **2016-2019**

5. Impact of metals on photochemical aging of water-soluble organic carbon in atmospheric particulate matter: A combined lab and field study. Principal Investigator: Michael Hannigan. Co-Principal Investigator: Fernando L. Rosario-Ortiz. Funding Agency: National Science Foundation. Total Award to CU: \$254,219. Award Duration: **2016-2019**
6. An integrated modeling and decision framework to evaluate adaptation strategies for sustainable drinking water utility management under drought and climate change. Principal Investigator: Kenan Ozekin (WRF). Co-Principal Investigators: Balaji Rajagopalan, R. Scott Summers, Fernando Rosario-Ortiz, Ben Livneh and Joseph Kasprzyk. Funding Agency: US EPA. Total Award: \$1,250,000. Award Duration **2015-2019**
7. CAREER: Impact of effluent organic matter on photochemical processes in surface waters. Principal Investigator: Fernando L. Rosario-Ortiz. Funding Agency: National Science Foundation. Total Award: \$500,000. Award Duration: **2015-2020**
8. Wildfire Impacts on Drinking Water Treatment Process Performance: Development of Evaluation Protocols and Management Practices. Principal Investigator: Fernando L. Rosario-Ortiz. Co-Principal Investigators: R. Scott Summers, William Becker and Ben Stanford. Funding Agency: Water Research Foundation. Total Award: \$267,053. Award Duration: **2014-2017**
9. EPA National Center for Innovation in Small Drinking Water Systems: Sunlight Photochemical Processes (FRO Project, part of Center). Principal Investigator for Center: R. Scott Summers. Funding Agency: US EPA. Total Award: \$4,099,973 (\$250,000 for FRO). Award Duration: **2014-2017**
10. The impact of Colorado wildfires on source water and implications for water treatment and finished water quality. Principal Investigator: Fernando L. Rosario-Ortiz. Co-Principal Investigators: R. Scott Summers and Pinar Omur-Ozbek. Funding Agency: Water Research Foundation. Total Award: \$100,000. Award Duration: **2013-2014**
11. The impact of the High Park Fire on Source Water Quality for Utilities in Fort Collins Area. Principal Investigator: Fernando L. Rosario-Ortiz. Co-Principal Investigators: R. Scott Summers and Jeffrey Writer. Funding Agency: Water Research Foundation. Total Award: \$50,000. Award Duration: **2012-2013**
12. Impact of the High Park forest fire on water quality. Principal Investigator: Fernando L. Rosario-Ortiz. Funding Agency: Colorado Department of Public Health and the Environment. Total Award: \$54,923. Award Duration: **2013-2014**
13. Photochemical formation of hydroxyl radical from effluent organic matter. Principal Investigator: Fernando L. Rosario-Ortiz. Funding Agency: National Science Foundation. Total Award: \$234,447 (REU \$6,000 supplement awarded 2013; \$46,000 supplement awarded 2013). Award Duration: **2012-2014**
14. Characterization of organic matter in aerosols. Principal Investigator: Michael Hannigan. Collaborator: Fernando L. Rosario-Ortiz. Funding Agency: CU Boulder (Innovative Seed Grant Program). Total Award: \$46,000 (share for FRO: \$14,000). Award Duration: **2012-2013**
15. Release of algal metabolites due to pre-ozonation. Principal Investigator: Eric C. Wert. Co-Principal Investigator: Fernando L. Rosario-Ortiz. Funding Agency: Water Research Foundation. Total Award: \$269,099 (share for FRO: \$58,900). Award Duration: **2011-2013**
16. RAPID: Photochemical fate of oil dispersants in the gulf oil spill clean-up. Principal Investigator: Karl Linden. Co-Principal Investigator: Fernando L. Rosario-Ortiz. Funding Agency: National Science Foundation. Total Award: \$82,319. Award Duration: **2010-2011**

17. High quality water supply study: Impact of algae disinfection byproduct formation at Colorado drinking water utilities. Principal Investigator: Fernando L. Rosario-Ortiz. Co-Principal Investigator: R. Scott Summers and Diane McKnight. Funding Agency: Colorado Department of Public Health and the Environment. Total Award: \$73,300. Award Duration: **2010**
18. Climate change impacts on Lake Erie disinfection byproduct formation tailored collaboration proposal. Principal Investigator: Chad Seidel (Jacobs Engineering). Co-Principal Investigator: Fernando L. Rosario-Ortiz, R. Scott Summers and Diane McKnight. Funding Agency: Water Research Foundation. Total Award: \$380,893 (\$150,000 for CU). Award Duration: **2010-2013**
19. Reactivity of effluent organic matter towards hydroxyl radical and its effects on the application of advanced oxidation for water reuse applications. Principal Investigator: Fernando L. Rosario-Ortiz. Funding Agency: National Science Foundation. Total Award: \$174,977 (Additional supplement of \$41,500 awarded on Aug. 2010). Award Duration: **2009-2011**
20. Occurrence of emerging contaminants in the source waters of the city of Longmont. Principal Investigator: Fernando L. Rosario-Ortiz. Funding Agency: City of Longmont, Colorado. Total Award: \$35,766. Award Duration: **2009**
21. Watershed analysis of dissolved organic matter and control of disinfection by-products. Principal Investigator: R. Scott Summers. Co-Principal Investigator: Fernando L. Rosario-Ortiz, Diane McKnight and Judy Billica (formerly at City of Fort Collins, now at Northern Colorado Water). Funding Agency: Water Research Foundation. Total Award: \$160,000. Award Duration: **2009-2011**
22. Optimization of advanced oxidation processes (AOP) for water reuse. Principal Investigator: Fernando L. Rosario-Ortiz (at Southern Nevada Water Authority-SNWA). Co-Principal Investigator: Shane Snyder (SNWA), Eric Wert (SNWA) and Stephen Mezyk (Cal State University, Long Beach). Funding Agency: Water Reuse Foundation. Total Award: \$213,855. Award Duration: **2007-2009**
23. Comparison of chemical composition of reclaimed and conventional waters. Principal Investigator: Shane Snyder (at Southern Nevada Water Authority-SNWA). Co-Principal Investigator: Jörg Drewes (Colorado School of Mines), Erik Dickenson (Colorado School of Mines), Fernando Rosario-Ortiz (SNWA) and Mark Benotti (SNWA). Funding Agency: Water Reuse Foundation. Total Award: \$423,500. Award Duration: **2007-2009**

Other Grants

1. Application of Fourier Transform Ion Cyclotron Resonance Mass Spectrometry for Environmental Sample Analysis. Principal Investigator: Fernando Rosario-Ortiz. Award: \$12,800. Award Duration: **2018**
2. Adding advanced analytical techniques to the Water Chemistry Lab. Principal Investigator: Fernando L. Rosario-Ortiz. Funding Agency: College of Engineering; Engineering Excellence Fund. Total Award: \$33,938. Award Duration: **2012**
3. REU site in environmental engineering. Principal Investigator: Angela Bielefeldt. Co-Principal Investigator: Fernando L. Rosario-Ortiz. Funding Agency: National Science Foundation. Total Award: \$300,000. Award Duration: **2010-2013**
4. New GK-12: Engineering for society-An energy and environmental sustainability research pathway to cultivate engineering leaders and enrich education for disadvantaged youth. Principal Investigator: Jacquelyn Sullivan. Co-Principal Investigators: Malinda Zarske, Angela Bielefeldt and Fernando Rosario-Ortiz. Funding Agency: National Science Foundation. Total Award: \$2,875,000. Award Duration: **2010-2016**

IV. Publications

Journal Articles (* FRO as corresponding author; # Student advisee; Google Scholar h-index: 25 with 2,256 total citations; Web of Science h-index 21 with 1,547 citations)

1. McKay, G.[#]; Korak, J. A.; Rosario-Ortiz, F. L.* Temperature dependence of the fluorescence of dissolved organic matter: Implications for DOM photophysics. *Environmental Science and Technology*, **2018**, 52, 16, 9022-9032
2. Önnby, L.; Salhi, E.; McKay, G.; Rosario-Ortiz, F. L.; von Gunten, U. Ozone and chlorine reactions with dissolved organic matter- Assessment of oxidant-reactive moieties by optical measurements and the electron donating capacities. *Water Research*, **2018**, 144, 64-75
3. Becker, W.; Hohner, A. K.; Rosario-Ortiz, F. L.; Wolfe, J. Preparing for wildfires and extreme weather: Plant design and operation recommendations. *Journal of American Water Works Association*, **2018**, 110, 7, 32-40
4. Cawley, K.*; Hohner, A. K.[#]; McKee, G.; Borch, T.; Omur-Ozbek, P.; Oropeza, J.; Rosario-Ortiz, F. L.* Characterization and spatial distribution of particulate and soluble carbon and nitrogen from wildfire impacted sediments. *Journal of Soils and Sediments*, **2018**, 18, 1314-1326
5. McKay, G.; Korak, J. A.; Erickson, P.; Latch, D. E.; McNeil, K.; Rosario-Ortiz, F. L. The case against charge transfer interactions in dissolved organic matter photophysics. *Environmental Science and Technology*, **2018**, 52, 2, 406-414
6. Ulliman, S.; McKay, G.; Rosario-Ortiz, F. L.; Linden, K. Low levels of iron enhance UV/H₂O₂ efficiency at neutral pH. *Water Research*, **2018**, 130, 234-242
7. Saunders, J.; Yu, Y.; McCutchan, J. H.; Rosario-Ortiz, F. L. Characterizing limits of precision for dissolved organic nitrogen calculations. *Environmental Science and Technology Letters*, **2017**, 4, 11, 452-456
8. Prado, M.; Lastre-Acosta, A. M.; Mostafa, S.; McKay, G. J.; Linden, K. G.; Rosario-Ortiz, F. L.; Teixeira, A. C. S. C. Photochemical generation of reactive intermediates from urban-waste bio-organic substances under UV and solar radiation. *Environmental Science and Pollution Research*, **2017**, 24, 22, 18470-18478
9. McKay, G.[#]; Huang, W.; Crouch, J.[#]; Romara-Castillo, C.; Rosario-Ortiz, F. L.; Jaffe, R. Predicting reactive intermediate quantum yields from dissolved organic matter photolysis using optical properties and antioxidant capacity. *Environmental Science and Technology*, **2017**, 51, 10, 5404-5413
10. Hohner, A. K.[#]; Gilmore, P. L.; Townsend, E.; Summers, R. S.; Rosario-Ortiz, F. L.* Water treatment process evaluation of wildfire-affected sediment leachates. *Environmental Science: Water Research and Technology*, **2017**, 3, 2, 352-365
11. Cawley, K. M.*; Hohner, A. K.[#]; Podgotski, D. C.; Cooper, W. T.; Korak, J. A.; Rosario-Ortiz, F. L.* Molecular and spectroscopic characterization of water extractable organic matter from soils exposed to simulated wildfire conditions reveal insight into disinfection byproduct precursors. *Environmental Science and Technology*, **2017**, 51, 2, 771-779
12. Raseman, W. J.; Kasprzyk, J. R.; Rosario-Ortiz, F. L.; Stewart, J.; Livneh, B. Decision support systems for water treatment under climate extremes: A critical review. *Environmental Science: Water Research and Technology*, **2017**, 3, 18-36
13. Rosario-Ortiz, F. L.; Canonica, S. Probe compounds to assess the photochemical activity of dissolved organic matter. *Environmental Science and Technology*, **2016**, 50, 23, 12532, 12547

14. Hohner, A. K.[#]; Cawley, K.; Oropeza, J.; Summers, R. S.; Rosario-Ortiz, F. L.* Drinking water treatment response following a Colorado wildfire. *Water Research*, **2016**, 105, 187-198
15. McKay, G.[#]; Couch, K.[#]; Mezyk, S. P.; Rosario-Ortiz, F. L.* Investigation of the coupled effects of molecular weight and charge transfer interactions on the optical and photochemical properties of dissolved organic matter. *Environmental Science and Technology*, **2016**, 50, 15, 8093-8102
16. Mostafa, S.[#]; Rubinato, M.; Rosario-Ortiz, F. L.; Linden, K. G. Impact of light screening and photosensitization by surface water organic matter on *E. faecalis* inactivation. *Environmental Engineering Science*, **2016**, 33, 6, 365-373
17. Rosario-Ortiz, F. L.; Rose, J. B.; Speight, V. L.; von Gunten, U.; Schnoor, J. How do you like your tap water? *Science*, **2016**, 351, 6276, 912-914
18. Arias, M.; Cawley, K.; Rosario-Ortiz, F. L. Enhanced DOC removal using anion and cation ion exchange resins. *Water Research*, **2016**, 88, 1, 981-989
19. Saunders, J.; Hohner, A. K.[#]; Summers, R. S.; Rosario-Ortiz, F. L.* Regulating chlorophyll-a to control DBP precursors in water supply reservoirs. *Journal of the American Water Works Association*, **2015**, E603-E612, November
20. Korak, J. A.[#]; Wert, E. C.; Rosario-Ortiz, F. L.* Fluorescence spectroscopy as a surrogate for the release of intracellular organic matter upon oxidation of cyanobacteria cells. *Journal of the American Water Works Association*. **2015**, E523-E532, October
21. Prado, M.; Mostafa, S.[#]; McKay, G. J.[#]; Rosario-Ortiz, F. L.; Silva Costa, A. C. Environmental photochemical fate of amicarbazone in aqueous medium: laboratory measures and simulations. *Environmental Engineering Science*. **2015**, 32, 8, 730-740
22. Korak, J. A.[#]; Rosario-Ortiz, F. L.; Summers, R. S. Evaluation of optical surrogates for the characterization of DOM removal by coagulation. *Environmental Science: Water Research and Technology*, **2015**, 1, 493-506
23. Wagner, S.; Cawley, K.; Rosario-Ortiz, F. L.; Jaffe, R. In-stream sources and links between particulate and dissolved black carbon following a wildfire. *Biogeochemistry*, **2015**, 124, 1-3, 145-161
24. McKay, G.[#]; Rosario-Ortiz, F. L.* Temperature dependence of the photochemical formation of hydroxyl radical from dissolved organic matter. *Environmental Science and Technology*, **2015**, 49, 7, 4147-4154
25. Cawley, K.; Korak, J. A.[#]; Rosario-Ortiz, F. L.* Quantum yields for the formation of reactive intermediates from dissolved organic matter samples from the Suwanee River. *Environmental Engineering Science*, **2015**, 32, 1, 31-37
26. Dong, M. M.[#]; Trenholm, R.; Rosario-Ortiz, F. L.* Photochemical degradation of pharmaceuticals in wastewater. *Journal of Hazardous Materials*, **2015**, 282, 216-223
27. Korak, J. A.[#]; Wert, E. C.; Rosario-Ortiz, F. L.* Evaluating fluorescence spectroscopy as a tool to characterize cyanobacteria intracellular organic matter upon simulated release and oxidation in natural water. *Water Research*, **2015**, 68, 1, 432-443
28. Shimabuku, K. K.; Cho, H.; Townsend, E. B.; Rosario-Ortiz, F. L.; Summers, R. S. Modeling competitive adsorption with powdered activated carbon: the role of dissolved organic matter characteristics and non-equilibrium. *Environmental Science and Technology*, **2014**, 48, 23, 13735-13742.

29. Parker, A. M.; Ferrer, I.; Thurman, E. M.; Rosario-Ortiz, F. L.; Linden, K. G. Determination of COREXIT components used in the Deepwater Horizon Cleanup by liquid chromatography-ion trap mass spectrometry. *Analytical Methods*, **2014**, 6, 5498-5502
30. Glover, C. M.[#]; Mezyk, S. P.; Linden, K. G.; Rosario-Ortiz, F. L. * Photochemical degradation of the oil dispersant Corexit components in ocean water. *Chemosphere*, **2014**, 111, 596-602
31. Writer, J.*; Hohner, A.[#]; Oropeza, J.; Schmidt, A.; Cawley, K.; Rosario-Ortiz, F. L.*. Water treatment implications after the High Park wildfire, Colorado. *Journal of the American Water Works Association*, **2014**, 4, E189-E199
32. McKay, G.; Kleinman, J. L.; Johnston, K. M.; Dong, M. M.[#]; Rosario-Ortiz, F. L.; Mezyk, S. P. Kinetics of the reaction between the hydroxyl radical and organic matter standards from the International Humic Substances Society. *Journal of Soils and Sediments*, **2014**, 14, 298-304
33. Wert, E. C.[#]; Trenholm, R. A.; Korak, J. A.[#]; Rosario-Ortiz, F. L. Effect of oxidant exposure on the release of intracellular microcystin, MIB and geosmin from three cyanobacteria species. *Water Research*, **2014**, 52, 251-259
34. Kover S.[#]; Rosario-Ortiz, F. L.; Linden, K. L. Photochemical fate of solvent constituents of corexit oil dispersants. *Water Research*, **2014**, 52, 101-111
35. Keen, O.; Mackay, G.; Mezyk, S. P.; Linden, K. G.; Rosario-Ortiz, F. L. Identifying the factors that influence the reactivity of effluent organic matter with hydroxyl radicals. *Water Research*, **2014**, 50, 408-419
36. Korak, J.[#]; Dotson, A.; Summers, R. S.; Rosario-Ortiz, F. L.* Critical analysis of commonly used fluorescence metrics to characterize dissolved organic matter. *Water Research*, **2014**, 49, 327-338
37. Glover, C. [#]; Rosario-Ortiz, F. L. * Impact of halides on the photoproduction of reactive intermediates from organic matter. *Environmental Science and Technology*, **2013**, 47 (24), 13949-13956
38. Lee, E.; Glover, C. [#]; Rosario-Ortiz, F. L.* Photochemical formation of hydroxyl radical from effluent organic matter: Role of organic composition. *Environmental Science and Technology*, **2013**, 47 (21), 12073-12080
39. Mostafa, S.[#]; Rosario-Ortiz, F. L.* Singlet oxygen formation from wastewater organic matter. *Environmental Science and Technology*, **2013**, 47, 8179-8186
40. Wert, E. C. [#]; Rosario-Ortiz, F. L. Intracellular organic matter from cyanobacteria as a precursor for carbonaceous and nitrogenous disinfection byproducts. *Environmental Science and Technology*, **2013**, 47, 6332-6340
41. Wert, E. C. [#]; Dong, M. M.[#]; Rosario-Ortiz, F. L. Using digital flow cytometry to assess the degradation of three cyanobacteria species after oxidation processes. *Water Research*, **2013**, 47, 3752-3761
42. Rosario-Ortiz, F. L. Watershed perturbations and water quality. *Journal of the American Water Works Association*. **2013**, 105, 4, 2
43. Beggs, K. M. H.; Bilica, J. A.; Korak, J. A.[#]; Rosario-Ortiz, F. L.; McKnight, D. M.; Summers, R. S. Spectral evaluation of watershed dissolved organic matter and DBP precursors. *Journal of the American Water Works Association*, **2013**, 105, 4 E173-E188
44. Phillibert, M.; Rosario-Ortiz, F. L.; Suffet, I. H. Comparison of two polarity measurements of hydrophobic organic matter for the evaluation of water treatment processes: XAD Resin and PRAM. *Water Science and Technology*, **2012**, 66, 11, 2418-2424

45. Dong, M. M.[#]; Rosario-Ortiz, F. L.*; Photochemical formation of hydroxyl radical from effluent organic matter. *Environmental Science and Technology*, **2012**, 46, 3788-3794
46. Gonzales, S.[#]; Peña, A.[#]; Rosario-Ortiz, F. L.* Examining the role of effluent organic matter components on the decomposition of ozone and formation of hydroxyl radical in wastewater. *Ozone Science and Engineering*, **2012**, 34, 42-48
47. Wert, E. C.[#]; Gonzales, S.[#]; Dong, M. M.[#]; Rosario-Ortiz, F. L.* Evaluation of enhanced coagulation pretreatment to improve ozone oxidation efficiency in wastewater. *Water Research*, **2011**, 45, 5191-5199
48. MacKay, G.[#]; Dong, M. M.[#]; Kleinman, J. L.; Mezyk, S. P.; Rosario-Ortiz, F. L.* Temperature dependence of the reaction between the hydroxyl radical and organic matter. *Environmental Science and Technology*, **2011**, 45, 6932-6937
49. Wert, E. C.[#]; Rosario-Ortiz, F. L. Effect of ozonation on trihalomethane and haloacetic acid formation in a full-scale distribution system, *Ozone Science and Engineering*, **2011**, 33, 14-22
50. Dong, M. M.[#]; Mezyk, S. P.; Rosario-Ortiz, F. L.*; Reactivity of effluent organic matter (EfOM) with hydroxyl radical as a function of molecular weight. *Environmental Science and Technology*, **2010**, 44, 15, 5714-5720
51. Rosario-Ortiz, F. L.*; Wert, E. C.; Snyder, S. A. Evaluation of UV/H₂O₂ treatment for the oxidation of pharmaceuticals in wastewater. *Water Research*, **2010**, 44, 5, 1440-1448
52. Wert, E. C.; Rosario-Ortiz, F. L.; Snyder, S. A. Using UV absorbance and color to assess pharmaceutical oxidation during the ozonation of wastewater. *Environmental Science and Technology*, **2009**, 43, 13, 4858-4863
53. Rosario-Ortiz, F. L.*; Gerringer, F.; Suffet, I. H. Application of a Novel Polarity Method for the Characterization of Natural Organic Matter during Water Treatment. *Journal of Water Supply: Research and Technology – AQUA*, **2009**, 58, 3, 159-169
54. Wert, E. C.; Rosario-Ortiz, F. L.; Snyder, S. A. Effect of ozone exposure on the oxidation of trace organic contaminants in wastewater. *Water Research*, **2009**, 43, 4, 1005-1014
55. Mawhinney, D. B.; Rosario-Ortiz, F. L.; Baik, S.; Vanderford, B. J.; Snyder, S. A. Characterization of fulvic acids by liquid chromatography quadrupole time-of-flight mass spectrometry. *Journal of Chromatography A*, **2009**, 1216, 1319-1324
56. Gerringer, F.; Rosario-Ortiz, F. L.; Suffet, I. H. Characterization of the changes in polarity and size of natural organic matter during water treatment. *Journal of Environmental Engineering and Management*, **2009**, 19, 1, 11-20
57. Philibert, M.; Bush, S.; Rosario-Ortiz, F. L.; Suffet, I. H. Advanced in the characterization of the polarity of DOM under ambient water quality conditions using the polarity rapid assessment method. *Water Science and Technology: Water Supply*, 8, 6, 725-733, **2008**
58. Trenholm, R. A.; Rosario-Ortiz, F. L.; Snyder, S. A. Analysis of formaldehyde formation in wastewater using on-fiber derivatization solid phase extraction gas chromatography mass spectrometry. *Journal of Chromatography A*, **2008**, 1210, 1, 25-29
59. Rosario-Ortiz, F. L.*; Mezyk, S. P.; Wert, E.; Doud, D. F. R.; Singh, M. K.; Xin, M.; Baik, S.; Snyder, S. A. Effect of pre-oxidation on the absolute rate constants between hydroxyl radical and effluent organic matter. *Journal of Applied Oxidation Technologies*, **2008**, 11, 3, 529-535
60. Rosario-Ortiz, F. L.*; Mezyk, S. P.; Doud, D. F. R.; Snyder, S. A. Quantitative correlation of absolute hydroxyl radical rate constants with non-isolated effluent organic matter bulk properties in water. *Environmental Science and Technology*, **2008**, 42, 16, 5924-5930

61. Vanderford, B. J.; Mawhinney, D. B.; Rosario-Ortiz, F. L.; Snyder, S.A. Real-time detection and identification of aqueous chlorine transformation products using QTOF-MS. *Analytical Chemistry*, **2008**, 80, 11, 4193-4199
62. Vanderford, B. J.; Rosario-Ortiz, F. L.; Snyder, S. A. Analysis of *p*-chlorobenzoic acid by liquid chromatography/tandem mass spectrometry. *Journal of Chromatography A*, **2007**, 1164, 1-2, 219-223
63. Rosario-Ortiz, F. L.*; Snyder, S.; Suffet, I. H. Characterization of dissolved organic matter in drinking waters sources impacted by multiple tributaries. *Water Research*, **2007**, 41, 18, 4115-4128
64. Rosario-Ortiz, F. L.*; Snyder, S.; Suffet, I. H. Characterization of the polarity of natural organic matter under ambient conditions by the polarity rapid assessment method (PRAM). *Environmental Science and Technology*, **2007**, 41, 4895-4900
65. Wert, E. C.; Rosario-Ortiz, F. L.; Drury, D. D.; Snyder, S. A. Formation of oxidation byproducts from ozonation of wastewater. *Water Research*. **2007**, 41, 7, 1481-1490.
66. Rosario-Ortiz, F. L.*; Al-Samarrai, H. N.; Kozawa, K.; Gerringer, F. W.; Gabelich, C. J.; Suffet, I. H. Characterization of the Changes in Polarity of Natural Organic Matter using Solid-Phase Extraction: Introducing the NOM Polarity Rapid Assessment Method (NOM-PRAM). *Water Science and Technology: Water Supply*, **2004**, 4, 4, 11-18

Book Chapters (peer reviewed)

1. Gerrity, D.; Rosario-Ortiz, F. L.*; Wert, E. C. Application of ozone in water and wastewater treatment. In: *Advanced Oxidation Processes for Water and Wastewater Treatment*. Editor: M. Stefan, **2017**, 123-156
2. McKay, G.; Rosario-Ortiz, F. L.* Photochemical reactivity of organic matter and its fractions. Submitted to *Surface Water Photochemistry*, published in the *Comprehensive Series in Photochemical and Photobiological Sciences* by the Royal Society of Chemistry, Editors: D. Vione and P. Calza. **2016**, 77-95
3. Rosario-Ortiz, F. L.* Introduction: The need to study organic matter. In: *Advances in the characterization of dissolved organic matter: Impact on Natural and Engineered Systems*. Edited by Rosario-Ortiz, F. L. ACS Symposium Series 1160, **2014**, 1-3
4. Duhl, T. R.; Clements, N.; Mladenov, N.; Cawley, K., Rosario-Ortiz, F. L.; Hannigan, M. P. Natural and unnatural organic matter in the atmosphere: Recent perspectives on the high molecular weight fraction or organic aerosol. In: *Advances in the characterization of dissolved organic matter: Impact on Natural and Engineered Systems*. Edited by Rosario-Ortiz, F. L. ACS Symposium Series 1160, **2014**, 87-111
5. Mostafa, S. #; Shimabuku, K.; Korak, J. A. #; Glover, C. M. #; Rosario-Ortiz, F. L. Relation between optical properties and formation of reactive intermediates from different size fractions of organic matter. In: *Advances in the characterization of dissolved organic matter: Impact on Natural and Engineered Systems*. Edited by Rosario-Ortiz, F. L. ACS Symposium Series 1160, **2014**, 159-179
6. Korak, J. A.; Rosario-Ortiz, F. L.; Summers, R. S. Fluorescence characterization of humic substance coagulation: Application of new tools to an old process. In: *Advances in the characterization of dissolved organic matter: Impact on Natural and Engineered Systems*. Edited by Rosario-Ortiz, F. L. ACS Symposium Series 1160, **2014**, 281-300

7. Snyder, S. A.; Vanderford, S. A.; Rosario-Ortiz, F. L. Iodate and perchlorate in bottled water: methods for discovery and impact to humans. In: Comprehensive handbook of iodine. Edited by Preedy, V.; Burrow, G.; Watson, R. Elsevier, ISBN-13: 978-0-12-374135-6, **2009**

Additional Articles

1. McKay, G.; Korak, J. A.; Rosario-Ortiz, F. L. Response to comment on “The case against charge transfer interactions in dissolved organic matter photophysics”. *Environmental Science and Technology*, **2018**, 52, 9, 5514-5516
2. Chin, Y.; McKnight, D.; Rosario-Ortiz, F. L. A tribute to George Aiken. Editorial for Special Virtual Issue. *Environmental Science and Technology*, **2018**, 52, 8, 4489-4489
3. Knicker, H.; Rosario-Ortiz, F. L.; Zaccone, C. Preface-special issue in memory of Frank J. Stevenson, *Journal of Soils and Sediments*, **2018**, 18, 4, 1209-1211
4. Rosario-Ortiz, F. L.*; Korak, J. A. Oversimplification of fluorescence analysis of dissolved organic matter fluorescence analysis: Potential pitfalls of current methods. *Environmental Science and Technology*, **2017**, 51, 2, 759-761
5. Hohner, A.; Gosh, A.; Rosario-Ortiz, F. L. Formation of nitrogenous disinfection byproducts from algal organic matter. Part of Research Finding Section. J AWWA, January **2013**

Conference Proceedings (not peer reviewed)

1. Wert, E. C.; Dong, M. M.; Korak, J.[#]; Trenholm, R.; Rosario-Ortiz, F. L. Release of cyanobacterial metabolites due to peroxidation processes. Proceedings of the AWWA WQTC Conference, Long Beach, CA, November 3-7, **2013**
2. Wert, E. C.; Rosario-Ortiz, F. L. Disinfection byproduct formation from intracellular organic matter of cyanobacteria. Proceedings of the AWWA WQTC Conference, Long Beach, CA, November 3-7, **2013**
3. Wert, E.; Dong, M. M.; Korak, J.; Rosario-Ortiz, F. L. Release of intracellular metabolites and disinfection byproduct precursors after oxidation of cyanobacteria. Proceedings of the IOA-IUVA World Congress, Las Vegas, NV, September 22-25, **2013**
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V. Presentations (*Presenting author underlined, # indicates student advisee, * indicates poster presentation*)

Presentations at national and international meetings

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2. Couch, K.; McKay, G.; Rosario-Ortiz, F.L. Production of hydroxylating species from DOM model sensitizers. 19th International Conference of International Humic Substances Society, Albena Resort, Bulgaria, September 16-21, **2018**
3. Rosario-Ortiz, F. L. Assessment of water quality in Puerto Rico after hurricane Maria. Natural Hazards Conference. Westminster, CO, July 10, **2018**

4. Ulliman, S.; Korak, J.; Linden, K.; Rosario-Ortiz, F. L. Assessment of optically-based measurements of organic matter for differentiation of source waters and treated waters. Environmental Sciences: Water Gordon Conference. June 24-29, **2018***
5. McKay, G.; Korak, J. A.; Erickson, P.; Latch, D. E.; McNeil, K.; Rosario-Ortiz, F. L. The case against charge transfer interactions in dissolved organic matter photophysics. 2018 Environmental Sciences: Water Gordon Conference. June 24-29, **2018***
6. Becker, W.; Hohner, A.; Rosario-Ortiz, F. L. Extreme weather events and wildfires: Impact on treatment and design. AWWA ACE Conference, Las Vegas, NV, June 10, 14, **2018**
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15. Kasprzyk, J.; Smith, R.; Raseman, W.; DeRousseau, M.; Dilling, L.; Ozekin, K.; Summers, R. S.; Balaji, R.; Livneh, B.; Rosario-Ortiz, F. L.; Sprain, L.; Srubar, W. Collaborative workshops for assessment and creation of multi-objective decision support for multiple sectors. AGU Conference. New Orleans, LA, December 11-15, **2017***
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27. McKay, G.; Huang, W.; Romea-Castillo, C.; Rosario-Ortiz, F. L.; Jaffe, R. Assessing dissolved organic matter photo-reactivity in a subtropical wetland ecosystem: Correlations between optical properties, antioxidant capacity, and the photochemical formation of reactive intermediates. 253rd American Chemical Society National Meeting and Exposition. San Francisco, CA, April 2-6, **2017**
28. Korak, J. A.; McKay, G.; Erickson, P. R.; Latch, D. E.; McNeil, K. P.; Aiken, G.; Rosario-Ortiz, F. L. Investigation of the effect of solvent polarity and temperature on the optical properties of dissolved organic matter. 253rd American Chemical Society National Meeting and Exposition. San Francisco, CA, April 2-6, **2017**
29. Webster, J. P.; Youg, R. B.; Borch, T.; Rosario-Ortiz, F. L. High resolution mass spectrometry of leachate from soils subject to simulated wildfire heating. 253rd American Chemical Society National Meeting and Exposition. San Francisco, CA, April 2-6, **2017**
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36. Rosario-Ortiz, F. L.; Hohner, A. K. Laboratory simulation of wildfire effects on DOM character, treatability and DBP formation. AWWA WQTC, Indianapolis, IN, November 13-16, **2016**
37. Viscut, M.; Rosario-Ortiz, F. L.; Rodriguez, R. A.; McKay, G. Pre-treatment ponds for small drinking water systems: Sunlight exposure effects on pathogen inactivation and on disinfection byproducts formation. AWWA WQTC, Indianapolis, IN, November 13-16, **2016***
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39. McKay, G.; Rosario-Ortiz, F. L. Formation of hydroxyl radical from solar photolysis of dissolved organic matter. GRC: Environmental Sciences Water. June 26-July 1st, **2016***
40. McKay, G.; Laszakovits, J.; Sharpless, C. M.; Rosario-Ortiz, F. L. Apportionment of hydroxyl radical formation from effluent organic matter photolysis. 251st ACS National Meeting. San Diego, California, March 13-17, **2016***
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43. Couch, K.; McKay, G.; Rosario-Ortiz, F. L.; Mezyk, S. P. Photochemical production and scavenging of reactive intermediates by dissolved organic matter in natural water samples. Environmental Health Symposium. San Diego, California, March **2016**
44. McKay, G.[#]; Rosario-Ortiz, F. L. Model photosensitizers for the photochemical production of hydroxyl radical from dissolved organic matter. 2015 International chemical congress of pacific basin societies (Pacificchem), Honolulu, Hawaii, December 15-20, **2015**
45. Rosario-Ortiz, F. L.; McKay, G.[#] Model photosensitizers for the photochemical production of hydroxyl radical from dissolved organic matter. 16th European Meeting on Environmental Chemistry. Turing, Italy, November 30-December 2, **2015**

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47. Hohner, A. K.#; Gilmore, P.; Townsend, E.; Summers, R. S.; Rosario-Ortiz, F. L. The assessment of a lab-based approach to evaluate wildfire impacts on treatment processes. 2015 AWWA Water Quality and Technology Conference, Salt Lake City, Utah, November 15-19, **2015**
48. Korak, J. A.#; Rosario-Ortiz, F. L.; Summers, R. S. Fluorescence monitoring for DOM removal by coagulation: the relative (un)importance of wavelength selection. IWA Specialist Conference on Natural Organic Matter in Water-NOM6. Malmo, Sweden, September 7-10, **2015**
49. Silva, M. P.; McKay, G. J.#; Mostafa, S.#; Linden, K. G.; Rosario-Ortiz, F. L.; Teixeira, A. C. S. C. Production of reactive intermediates from urban-waste bio-organic substances under different irradiation systems. IWA Specialist Conference on Natural Organic Matter in Water-NOM6. Malmo, Sweden, September 7-10, **2015**
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52. Hohner, A.#; Gilmore, P. L.; Townsend, E.; Summers, R. S.; Rosario-Ortiz, F. L. Nitrogenous disinfection byproduct precursor levels in wildfire-impacted water and their fate during pre-oxidation and coagulation treatment. Gordon Research Conference: Drinking water disinfection byproducts. Mount Holyoke College, South Hadley, MA, August 9-14, **2015***
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54. McKay, G.#; Rosario-Ortiz, F. L. Probing the mechanism of the photochemical production of reactive intermediates from dissolved organic matter. 2015 AEESP Research and Education Conference, Yale University, New Haven, Connecticut, June 13-16, **2015**
55. Kasprzyk, J.; Pence, R.; Livneh, B.; Rosario-Ortiz, F. L. Coupling between the hydrologic processes and water quality systems under extreme events. 2015 AEESP Research and Education Conference, Yale University, New Haven, Connecticut, June 13-16, **2015**
56. Hohner, A.#; Cawley, K.; Oropeza, J.; Summers, R. S.; Rosario-Ortiz, F. L. Assessing the impacts of wildfire on source water quality and treatment. 2015 AWWA ACE Conference, Anaheim, CA, June 7-10, **2015**
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58. McKay, G.#; Rosario-Ortiz, F. L. Temperature dependence of the photochemical formation of hydroxyl radical from dissolved organic matter. 249th ACS National Meeting, Denver, CO., March 22-26, **2015**
59. Hohner, A. K.#; Cawley, K.; Omur-Ozbek, P.; Summers, R. S.; Rosario-Ortiz, F. L. Evaluating the treatability and reactivity of wildfire-impacted DOM using leachates from burned sediments. 249th ACS National Meeting, Denver, CO., March 22-26, **2015***

60. Glover, C. M.[#]; Rosario-Ortiz, F. L. Photochemical processing of wastewater impacted streams. 249th ACS National Meeting, Denver, CO., March 22-26, **2015***
61. Mostafa, S.[#]; Rubinato, M.; Rosario-Ortiz, F. L.; Linden, K. G. Photochemical inactivation of *E. faecalis* in the presence of organic matter. 249th ACS National Meeting, Denver, CO., March 22-26, **2015***
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63. Hohner, A. K.; Cawley, K.; Omur-Ozbek, P.; Summers, R. S.; Rosario-Ortiz, F. L. Assessing wildfire-impacted source water quality and treatability through a lab-based leaching study. 2014 AWWA Water Quality and Technology Conference, New Orleans, LA, November 16-19, **2014**
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65. Wert, E. C.; Rosario-Ortiz, F. L. Release of MIB, geosmin and microcystin-LR from cyanobacteria during oxidation processes. Meeting of the International Ozone Association. Montreal, CA, August 25-27, **2014**
66. Korak, J. A.; Wert, E. C.; Rosario-Ortiz, F. L. Fluorescence spectroscopy as an indicator for cyanobacteria organic matter release by oxidation processes. 248th ACS National Meeting, San Francisco, CA, August 10-14, **2014**
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70. Cawley, K.; Hohner, A. K.[#]; Rosario-Ortiz, F. L. Concentration and character of particulate and dissolved organic matter mobilized following a wildfire. Joint Aquatic Sciences Meeting, Portland, Oregon, May 18-23, **2014**
71. Hohner, A. K.; Writer, J.; Cawley, K.; Summers, R. S.; Rosario-Ortiz, F. L. The impact of the High Park Wildfire on source water quality and implications for treatment. 2014 Spring CA-NV Section AWWA Conference, Anaheim, CA, March 24-27, **2014**
72. Wert, E. C.; Rosario-Ortiz, F. L. Disinfection byproduct formation from the intracellular organic matter of cyanobacteria. 2014 Spring CA-NV Section AWWA Conference, Anaheim, CA, March 24-27, **2014**
73. Hohner, A. K.[#]; Writer, J.; Cawley, K.; Summers, R. S.; Rosario-Ortiz, F. L. Impact of the high park forest fire on water quality and treatment. AWWA WQTC Conference, Long Beach, CA, November 3-7, **2013**
74. Wert, E. C.; Dong, M. M.; Korak, J. A.[#]; Rosario-Ortiz, F. L. Release of cyanobacterial metabolites due to peroxidation processes. AWWA WQTC Conference, Long Beach, CA, November 3-7, **2013***

75. Wert, E. C.; Rosario-Ortiz, F. L. Disinfection byproduct formation from the intracellular organic matter of cyanobacteria. AWWA WQTC Conference, Long Beach, CA, November 3-7, **2013**
76. Korak, J. A.[#]; Dotson, A.; Summers, R. S.; Rosario-Ortiz, F. L. Framework for using fluorescence spectroscopy to evaluate the changes in organic matter. AWWA WQTC Conference, Long Beach, CA, November 3-7, **2013**
77. Korak, J. A.[#]; Wert, E. C.; Dong, M. M.; Rosario-Ortiz, F. L. Characterizing algal organic matter and its transformations during oxidation using fluorescence spectroscopy. AWWA WQTC Conference, Long Beach, CA, November 3-7, **2013**
78. Clements, N.; Duhl, T.; Lee, E.; Chun, B.; Rosario-Ortiz, F.; Milford, J.; Miller, S.; Hannigan, M. Exploring the composition of urban and rural organic matter found in coarse particles (PM 10-2.5) in Northeastern Colorado. 32nd Annual Conference American Association for Aerosol Research, Portland, OR, September 30-October 4th, **2013**
79. Wert, E.; Dong, M. M.; Korak, J. A.[#]; Rosario-Ortiz, F. L. Release of intracellular metabolites and disinfection byproduct precursors after oxidation of cyanobacteria. 2013 IOA/IUVA World Congress and Exhibition, Las Vegas, NV, September 22-26, **2013**
80. Mundy, B.; Rawkness, K.; Wert, E.; Hunter, G.; Rosario-Ortiz, F. L. Bromate formation differences between an ozone side stream transfer system and an ozone diffuser transfer system. 2013 IOA/IUVA World Congress and Exhibition, Las Vegas, NV, September 22-26, **2013**
81. Rosario-Ortiz, F. L.; Wert, E. Application of advanced oxidation processes for the removal of organic contaminants from wastewater. 246th ACS National Meeting, Indianapolis, IN, September 8-12, **2013**
82. Shimabuku, K.; Townsend, E.[#]; Rosario-Ortiz, F. L.; Summers, R. S. Characterizing and modeling dissolved organic matter competition with MIB and sulfamethoxazole adsorption to powdered activated carbon. AEESP 50th Anniversary Conference, Golden, CO, July 14-16, **2013***
83. Al-Mutlaq, S.[#]; Mostafa, S.[#]; Rosario-Ortiz, F. L. Formation of triplets in the presence of wastewater organic matter. AEESP 50th Anniversary Conference, Golden, CO, July 14-16, **2013***
84. Korak, J. A.[#]; Dotson, A.; Rosario-Ortiz, F. L.; Critical analysis of commonly used fluorescence metrics to characterize natural organic matter. AEESP 50th Anniversary Conference, Golden, CO, July 14-16, **2013***
85. Mostafa, S.[#]; Rosario-Ortiz, F. L. Singlet oxygen formation from wastewater organic matter. AEESP 50th Anniversary Conference, Golden, CO, July 14-16, **2013**
86. Glover, C. M.[#]; Rosario-Ortiz, F. L. Impact of halides on the photoproduction of reactive oxygen species from organic matter. AEESP 50th Anniversary Conference, Golden, CO, July 14-16, **2013**
87. Cawley, K.; Writer, J.; Hohner, A. K.[#]; Rosario-Ortiz, F. L. Wildfire impacts on dissolved organic matter quality in a sub-alpine stream. AEESP 50th Anniversary Conference, Golden, CO, July 14-16, **2013***
88. Shimabuku, K.; Townsend, E.; Summers, R. S.; Rosario-Ortiz, F. L. The influence of DOM characteristics on MIB, sulfamethoxazole, and DOM control with powdered activated carbon. 2013 AWWA ACE Conference, Denver, CO, June 9-13, **2013**
89. Wert, E. C.; Dong, M.; Korak, J. A.; Rosario-Ortiz, F. L. Release of cyanobacteria metabolites due to pre-oxidation processes. 2013 AWWA ACE Conference, Denver, CO, June 9-13, **2013**
90. Korak, J. A.; Wert, E. C.; Dong, M.; Rosario-Ortiz, F. L. Characterizing algal organic matter and its transformations during oxidation using fluorescence spectroscopy. 2013 AWWA ACE Conference, Denver, CO, June 9-13, **2013**

91. McKay, G.; Mezyk, S. P.; Keen, O.; Rosario-Ortiz, F. L. Reactivity of the hydroxyl radical with natural organic matter: Molecular size vs. chemical composition. 245th ACS National Meeting, New Orleans, LA, April 7-11, **2013**
92. Duhl, T.; Lee, E.; Hannigan, M.; Rosario-Ortiz, F. L. Vertical and temporal variability of carbonaceous aerosol and contributions from organic matter: Preliminary results from aerosol samples collected at the Boulder Atmospheric Observatory tower in Erie, CO. 245th ACS National Meeting, New Orleans, LA, April 7-11, **2013**
93. Shimabuku, K.; Townsend, E. [#]; Summers, R. S.; Rosario-Ortiz, F. L. Identification of OM components that compete with target sorbates to powdered activated carbon. 245th ACS National Meeting, New Orleans, LA, April 7-11, **2013**
94. Lee, E.; Duhl, T.; Clements, N.; Hannigan, M.; Rosario-Ortiz, F. L. Characterization of the physicochemical properties of organic matter in aerosols. 245th ACS National Meeting, New Orleans, LA, April 7-11, **2013***
95. Townsend, E. [#]; Butlet, M. [#]; Glover, C. M. [#]; Rosario-Ortiz, F. L. Correlating the spectroscopic properties of organic matter to the photochemical formation of hydroxyl radical in natural waters. 245th ACS National Meeting, New Orleans, LA, April 7-11, **2013***
96. Lee, E.; Rosario-Ortiz, F. L. Photochemical formation of hydroxyl radical from wastewater derived organic matter. 245th ACS National Meeting, New Orleans, LA, April 7-11, **2013**
97. Korak, J. [#]; Rosario-Ortiz, F. L.; Summers, R. S. Framework for using fluorescence spectroscopy to evaluate the changes in organic matter. 245th ACS National Meeting, New Orleans, LA, April 7-11, **2013**
98. Korak, J. [#]; Wert, E. [#]; Dong, M. M.; Rosario-Ortiz, F. L. Characterizing algal organic matter and its transformations during oxidation using fluorescence spectroscopy. 245th ACS National Meeting, New Orleans, LA, April 7-11, **2013***
99. Keen, O.; Linden, K.; Rosario-Ortiz, F. L. Identifying the factors that influence the reactivity of effluent organic matter with hydroxyl radicals. 245th ACS National Meeting, New Orleans, LA, April 7-11, **2013**
100. Mostafa, S. [#]; Rosario-Ortiz, F. L. Photochemical formation of singlet oxygen from wastewater derived organic matter. 245th ACS National Meeting, New Orleans, LA, April 7-11, **2013**
101. Glover, C. M. [#]; Parker, A. M.; Linden, K.; Rosario-Ortiz, F. L. Organic matter in ocean water as a proxy for indirect degradation of the dispersants used in the Deepwater Horizon oil spill. 245th ACS National Meeting, New Orleans, LA, April 7-11, **2013***
102. Glover, C. M. [#]; Rosario-Ortiz, F. L. Halide quenching of reactive oxygen species photoproduced from organic matter. 245th ACS National Meeting, New Orleans, LA, April 7-11, **2013**
103. Mostafa, S. [#]; Linden, K.G.; Rosario-Ortiz, F.L. Photochemical singlet oxygen formation from wastewater organic matter and impact on pathogen inactivation. Sunlight Degradation of Biomolecules and Pathogens Workshop, Stanford, CA, April 2, **2013**
104. Wert, E. C. [#]; Dong, M. M. [#]; Korak, J. A. [#]; Rosario-Ortiz, F. L. Release of cyanobacterial metabolites due to peroxidation processes. Cal-Nevada Conference, Las Vegas, NV, March 25-28, **2013**

105. Glover, C. M.[#]; Rosario-Ortiz, F. L. Impact of halides on the photoproduction of reactive oxygen species from organic matter. Humic Science and Technology Conference, Boston, MA, March 20-21, **2013**
106. Kover, S. C.; Rosario-Ortiz, F. L.; Linden, K. G. Photo-induced degradation of corexit constituents. GOMRI (Gulf of Mexico Research Initiative) Oil Spill & Ecosystem Science Conference, New Orleans, LA, January 20-21, **2013**
107. Dong, M. M.[#]; Trenholm, R.; Rosario-Ortiz, F. L. Photochemical degradation of pharmaceuticals compounds in wastewater effluents. 33rd Annual Meeting SETAC North America, Long Beach, CA, November 11-15, **2012**
108. Glover, C.[#]; Dong, M. M.[#]; Townsend, E.[#]; Rosario-Ortiz, F. L. Photochemical formation of hydroxyl radicals from dissolved organic matter. 33rd Annual Meeting SETAC North America, Long Beach, CA, November 11-15, **2012***
109. Mundy, B.; Rakness, K.; Rosario-Ortiz, F. L.; Wert, E.[#] Bromate formation differences between ozone side stream transfer and an ozone diffuser system transfer. International Ozone Association PAG meeting. Milwaukee, WI. September 23-26, **2012**
110. Wert, E.[#]; Dong, M. M.[#]; Korak, J.[#]; Rosario-Ortiz, F. L. Effects of ozone oxidation on algal cells. International Ozone Association PAG meeting. Milwaukee, WI. September 23-26, **2012**
111. Rosario-Ortiz, F. L.; Wert, E.[#] The application of ozone for the oxidation of trace organic contaminants from wastewater. International Ozone Association PAG meeting. Milwaukee, WI. September 23-26, **2012**
112. McKay, G.[#]; Dong, M. M.[#]; Kleinman, J.; Mezyk, S. P.; Rosario-Ortiz, F. L. Temperature dependence of the reaction between the hydroxyl radical and organic matter. 16th Meeting of the International Humic Substances Society, Hangzhou, China, September 9-14, **2012 ***
113. Rosario-Ortiz, F. L.; Dong, M. M.[#] Radical chemistry of effluent organic matter. Gordon Research Conference: Environmental Sciences, Holderness School, NH, June 24-29, **2012***
114. Glover, C. M.[#]; Rosario-Ortiz, F. L. Photoproduction and quenching of hydroxyl radical from organic matter. Gordon Research Conference: Environmental Sciences, Holderness School, NH, June 24-29, **2012***
115. Mostafa, S.[#]; Rosario-Ortiz, F. L. Sunlight-mediated formation of singlet oxygen from DOM. Gordon Research Conference: Environmental Sciences, Holderness School, NH, June 24-29, **2012***
116. Rosario-Ortiz, F. L.; Hohner, A.[#]; Khan, A.; McKnight, D.; Saunders, J.; Summers, R. S. The role of nutrients and algae on DBP formation in Colorado watersheds: Implications for source water quality management. AWWA ACE Conference, Dallas, TX, June 10-14, **2012**
117. Ghosh, A.; Tang, G.; Seidel, C.; Hohner, A. K.[#]; Rosario-Ortiz, F. L.; Summers, R. S.; Rodgers, M. Connecting the dots: Can climate change influence algal blooms that lead to disinfection by-product formation in your drinking water?. AWWA WQTC Conference, Phoenix, AZ, November 13, 16, **2011**
118. Hohner, A.[#]; Khan, A.; McKnight, D.; Summers, R. S.; Rosario-Ortiz, F. L. The role of nutrient levels and algae on DBP formation in Colorado watersheds: Implications for source water quality management. AWWA WQTC Conference, Phoenix, AZ, November 13, 16, **2011**
119. Moutinho, J.[#]; Korak, J.[#]; Summers, R. S.; Rosario-Ortiz, F. L. Characterization of natural organic matter removal by coagulation using fluorescence spectroscopy. SACNAS National Conference, San Jose, CA, October 27-30, **2011** (poster)

120. Parker, A. M.; Glover, C. #; Rosario-Ortiz, F. L.; Linden, K. G. Photochemical degradation of oil dispersants in ocean waters. IOA/IUVA Specialty Conference, Toronto, CA, September 18-21, **2011**
121. Wert, E. C.; Gonzales, S. #; Dong, M. M. #; Rosario-Ortiz, F. L. Evaluation of enhanced coagulation pre-treatment to improve ozone oxidation efficiency in wastewater. IOA/IUVA Specialty Conference, Toronto, CA, September 18-21, **2011**
122. Gonzales, S. #; Wert, E. C.; Rosario-Ortiz, F. L. Examining the role of effluent organic matter components on the decomposition of ozone and formation of hydroxyl radical in wastewater. IOA/IUVA Specialty Conference, Toronto, CA, September 18-21, **2011**
123. Leppke, B. #; Dong, M. M. #; Glover, C. #; Rosario-Ortiz, F. L. Photolysis of organic contaminants in wastewater dominated streams. 242nd American Chemical Society Fall Meeting, Denver, CO, August 28-Sept 1, **2011**
124. McKay, G. #; Mezyk, S. P.; Kleinman, J. L.; Dong, M. M. #; Rosario-Ortiz, F. L. Temperature dependence of the reaction between hydroxyl radicals and organic matter. 242nd American Chemical Society Spring Meeting, Anaheim, CA, August 28-Sept 1, **2011**
125. Glover, C. #; Parker, A. M.; Linden, K. G.; Rosario-Ortiz, F. L. Photochemical degradation of oil dispersants in ocean waters. 242nd American Chemical Society Fall Meeting, Denver, CO, August 28-Sept 1, **2011**
126. Dong, M. M. #; Leppke, B.; # Rosario-Ortiz, F. L. Photochemical production of hydroxyl radical in wastewater-impacted streams. 242nd American Chemical Society Fall Meeting, Denver, CO, August 28-Sept 1, **2011**
127. Korak, J. #; Dowdell, K. #; Hohner, A. #; Rosario-Ortiz, F. L.; Summers, R. S. Characterization of natural organic matter removal during coagulation using fluorescence spectroscopy. IWA NOM Conference, Irvine, CA, July 27-29, **2011** (poster)
128. Wert, E. C.; Gonzales, S. #; Dong, M. M. #; Rosario-Ortiz, F. L. Evaluation of enhanced coagulation pre-treatment to improve ozone oxidation efficiency in wastewater. IWA NOM Conference, Irvine, CA, July 27-29, **2011**
129. Philibert, M.; Suffet, M.; Rosario-Ortiz, F. L. Comparison of two polarity measurements of hydrophobic organic matter for the evaluation of water treatment processes: XAD resin and PRAM. IWA NOM Conference, Irvine, CA, July 27-29, **2011**
130. Dong, M. M. #; Gonzales, S. #; Mezyk, S.P.; Wert, E. C.; Rosario-Ortiz, F. L. Effect of effluent organic matter on the application of advanced oxidation for wastewater treatment. IWA NOM Conference, Irvine, CA, July 27-29, **2011**
131. McKay, G. #; Kleinman, J. L.; Mezyk, S. P.; Dong, M. M. #; Rosario-Ortiz, F. L. Temperature dependence of the reaction between hydroxyl radical and organic matter. IWA NOM Conference, Irvine, CA, July 27-29, **2011**
132. Hohner, A. #; Khan, A.; McKnight, D.; Summers, R. S.; Rosario-Ortiz, F. L. Characterization of dissolved organic matter in Colorado watersheds: The role of nutrients and algae on DBP formation. IWA NOM Conference, Irvine, CA, July 27-29, **2011**
133. Hohner, A. K. #; Khan, A.; McKnight, D. M.; Summers, R. S.; Rosario-Ortiz, F. L. Evaluating the link between nutrient loadings, algal activity and formation of disinfection by-products in watersheds. 241st American Chemical Society Spring Meeting, Anaheim, CA, March 27-31, **2011**

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134. Rosario-Ortiz, F. L.; Dong, M. M.[#]; Gonzales, S.[#]; Mezyk, S. Effect of effluent organic matter on the application of advanced oxidation for wastewater treatment. 241st American Chemical Society Spring Meeting, Anaheim, CA, March 27-31, **2011**
135. McKay, G.; Dong, M. M.[#]; Mezyk, S. P.; Rosario-Ortiz, F. L. Reactivity of effluent organic matter with hydroxyl radical as a function of molecular weight and temperature. 241st American Chemical Society Spring Meeting, Anaheim, CA, March 27-31, **2011**
136. Glover, C.[#]; Parker, A.; Rosario-Ortiz, F. L.; Linden, K. Photochemical fate of oil dispersants used in the gulf oil spill clean-up. 241st American Chemical Society Spring Meeting, Anaheim, CA, March 27-31, **2011** *
137. Khan, A. L.; McKnight, D. M.; Hohner, A. K.; Rosario-Ortiz, F. L.; Summers, R. S. Evaluation of the relationship between DOM, chlorophyll-a and algal species in Colorado. ASLO Aquatic Sciences Meeting, San Juan, PR, February 13-18, **2011** *
138. Dong, M. M.[#]; Mezyk, S. P.; Rosario-Ortiz, F. L. Characterization of the reactivity of effluent organic matter towards hydroxyl radical. Pacificchem, Honolulu, Hawaii, December 16-20, **2010**
139. Khan, A.; McKnight, D.; Hohner, A. K.[#]; Rosario-Ortiz, F. L.; Summers, R. S. Evaluation of the relationship between dissolved organic matter (DOM), chlorophyll-a, and algal species in lakes and reservoir in Colorado. AGU Fall Meeting, San Francisco, CA, 13-17 December, **2010**
140. Wert, E. C.; Rosario-Ortiz, F. L. Effect of ozonation on trihalomethane and haloacetic acid formation and speciation in a full-scale distribution system. International Ozone Association Conference, Seattle, WA, September 19-22, **2010**
141. Wert, E. C.; Rosario-Ortiz, F. L. Using UV₂₅₄ to assess contaminant oxidation during ozonation and UV/H₂O₂ treatment of wastewater. International Ozone Association Conference, Seattle, WA, September 19-22, **2010**
142. Rosario-Ortiz, F. L.; Dong, M. M.[#]; Mezyk, S. P. Reactivity of effluent organic matter towards hydroxyl radical as a function of molecular weight and its effects on the application of advanced oxidation. International Ozone Association Conference, Seattle, WA, September 19-22, **2010**
143. Rosario-Ortiz, F. L.; Dong, M. M.[#]; Mezyk, S. P. Evaluation of the reactivity of hydroxyl radical towards effluent organic matter. 240th American Chemical Society Fall Meeting, Boston, MA, August 22-26, **2010**
144. Peña, A.[#]; Gonzales, S.[#]; Rosario-Ortiz, F. L. Investigating the effect of wastewater organic matter on the application of ozone for micropollutant degradation for water reuse. SMART Program Meeting, New Jersey, July 31st, **2010**
145. Dong, M. M.[#]; Mezyk, S. P.; Rosario-Ortiz, F. L. Reactivity of effluent organic matter towards hydroxyl radical as a function of molecular weight and its effects on the application of advanced oxidation, NSF Minority Faculty Development Workshop, MIT, March 21-24, **2010** *
146. Dong, M. M.[#]; Mezyk, S. P.; Rosario-Ortiz, F. L. Reactivity of effluent organic matter towards hydroxyl radical as a function of molecular weight and its effects on the application of advanced oxidation, ACS National Meeting and Exposition, San Francisco, CA, March 21-25, **2010**
147. Dickenson, E.; Benotti, M.; Rosario-Ortiz, F. L.; Robinson, B.; Tenorio, L.; Drewes, J.; Snyder, S. A. Comparison of indirect potable reuse and conventional drinking waters. 24th Annual WateReuse Symposium, Seattle, WA, Sept. 13-16, **2009**
148. Sanchez, R.[#]; Rosario-Ortiz, F. L.; Dong, M. M.[#]; Gonzalez, S.[#] Classification of effluent organic matter (EfOM) in wastewater via polarity fraction analysis. SMART summer presentation in Virginia, July **2009**

149. Rosario-Ortiz, F. L.; Wert, E. C.; Snyder, S. A. Application of advanced oxidation processes for the removal of pharmaceuticals. WaterReuse Foundation Annual Research Conference. Huntington Beach, CA, May 18-19, **2009**
150. Wert, E.C.; Rosario-Ortiz, F. L.; Snyder, S. A. Application of ozone for contaminant oxidation in wastewater. IOA-IUVA Conference, May 3-5, **2009**
151. Doud, D. F. R.; Mezyk, S. P.; Rosario-Ortiz, F. L. Absolute rate constant measurements for the hydroxyl radical (OH) with effluent organic matter. 237th ACS National Meeting and Exposition. Salt Lake City, UT, March 22-26, **2009**
152. Mezyk, S. P.; Doud, D. F. R.; Rosario-Ortiz, F. L.; Snyder, S. A. Quantifying pCBA radical chemistry: Kinetics of hydroxylated product formation and decay. 237th ACS National Meeting and Exposition. Salt Lake City, UT, March 22-26, **2009** *
153. Rosario-Ortiz, F. L.; Wert, E. C.; Snyder, S. A. Evaluation of the removal efficiency of pharmaceuticals during UV advanced treatment as a function of the water quality. AWWA Research Symposium on Emerging Organic Contaminants, Austin, TX, February 12-13, **2009**
154. Mawhinney, D. B.; Rosario-Ortiz, F. L.; Baik, S.; Vanderford, B. J.; Snyder, S. A. Characterization of dissolved organic matter from Lake Mead by liquid chromatography quadrupole time of flight mass spectrometry. Lake Mead Science Symposium, Las Vegas, NV, January 13-14, **2009**
155. Trenholm, R. A.; Rosario-Ortiz, F. L.; Snyder, S. A. Analysis of the formation of formaldehyde during advanced oxidation treatment using on-fiber derivatization SPME GC-MS. AWWA WQTC, Cincinnati, OH, November 16-20, **2008**
156. Rosario-Ortiz, F. L.; Mezyk, S.P.; Doud, D.; Snyder, S. A. Quantification of the hydroxyl radical scavenging capacity during advanced oxidation treatment. AWWA WQTC, Cincinnati, OH, November 16-20, **2008**
157. Rosario-Ortiz, F. L., Snyder, S. A.; Mezyk, S. P. Use of fluorescence to understand the reactivity of effluent organic matter with OH. AGU Chapman Conference on Organic Matter Fluorescence. Birmingham, UK, October 20-23 **2008** *
158. Rosario-Ortiz, F. L.; Geringer, F.; Suffet, I. H. Application of a novel polarity method for the analysis of natural organic matter during water treatment. XIV International Meeting of the International Humic Substances Society, Moscow-St. Petersburg, September 14-19, **2008** *
159. Phillibert, M.; Bush, S.; Rosario-Ortiz, F. L.; Suffet, M. Advances in the characterization of the polarity of DOM under ambient conditions using the polarity rapid assessment method. IWA NOM Conference, Bath, UK, September 2-4, **2008**
160. Rosario-Ortiz, F. L.; Mezyk, S. P.; Doud, D.; Snyder, S. A. Quantitative correlation of absolute hydroxyl radical rate constants with non-isolated effluent organic matter bulk properties in water. IWA NOM Conference, Bath, UK, September 2-4, **2008**
161. Snyder, S. A.; Vanderford, B. J.; Rosario-Ortiz, F. L. Evaluation of OH quantification methods for advanced oxidation processes. IOA, Orlando, FL, August 24-26, **2008**
162. Rosario-Ortiz, F. L.; Mezyk, S.P.; Doud, D.; Snyder, S. A. Quantification of the hydroxyl radical scavenging capacity during advanced oxidation treatment. IOA, Orlando, FL, August 24-26, **2008**
163. Mezyk, S. P.; Doud, D. F. R.; Singh, M. K.; Rosario-Ortiz, F. L.; Snyder, S. A. Absolute rate constant measurement for OH reaction with effluent organic matter. 236th ACS Meeting, Philadelphia, PA, August 17-21, **2008**

164. Mawhinney, D. D.; Rosario-Ortiz, F. L.; Baik, S.; Vanderford, B. J.; Snyder, S. A. Characterization of natural organic matter in raw water with QTOF mass spectrometry. ASAM, Denver, CO, June 1-5, **2008** *
165. Vanderford, B. J.; Mawhinney, D. B.; Rosario-Ortiz, F. L.; Snyder, S. A. Real-time detection and identification of aqueous chlorine transformation products using QTOF-MS. ASMS, Denver, CO, June 1-5, **2008**
166. Rosario-Ortiz, F. L.; Janex-Habibi, M.; Baudin, I. Byproducts of potential health concern formed during the reaction between disinfectants and micropollutants. AWWA WQTC, Charlotte, NC, November 4-8, **2007**
167. Vanderford, B.; Rosario-Ortiz, F. L.; Snyder, S. Real-time oxidation and by-product formation by LC-MS. AWWA Water Quality Technology Conference and Exhibition, Charlotte, North Carolina, November 4-8, **2007**
168. Rosario-Ortiz, F. L.; Mezyk, S.; Vanderford, B.; Snyder, S. Evaluation of OH quantification methods for advanced oxidation processes. 22nd WaterReuse Symposium, Tampa, Florida, September 9-12, **2007**
169. Rosario-Ortiz, F. L.; Suffet, I. H.; Snyder, S. Effect of ozone on the chemical and physical characteristics of natural organic matter. IOA-IUVA World Congress, Los Angeles, California, August 27-29, **2007**
170. Rosario-Ortiz, F. L.; Geringer, F.; Suffet, I. H. Rapid characterization of the changes in polarity of NOM during water treatment using PRAM. AWWA Annual Conference Exposition, Toronto, Canada, June 24-28, **2007**
171. Rosario-Ortiz, F. L.; Snyder, S.; Suffet, I. H. Analysis of polarity fractionated dissolved organic matter using 3-D fluorescence excitation-emission matrix spectroscopy. 233rd ACS National Meeting, Chicago, Illinois, March 25-29, **2007** *
172. Rosario-Ortiz, F. L.; Snyder, S.; Suffet, I. H. Characterization of Natural Organic Matter (NOM) on Lake Mead and its effect on Water Treatment. AWWA Water Quality Technology Conference and Exhibition, Denver, Colorado, November 5-9, **2006** *
173. Snyder, S.; Rosario-Ortiz, F. L. Treatment of Endocrine Disruptors and Pharmaceuticals by Ozone and UV. East Valley Water District Water Quality Conference, Ontario, California, October 11-13, **2006**
174. Rosario-Ortiz, F. L.; Suffet, I. H. Rapid Characterization of the Changes in Polarity of NOM during Water Treatment. East Valley Water District Water Quality Conference, Ontario, California, October 11-13, **2006**
175. Rosario-Ortiz, F. L.; Snyder, S.; Rexing, D.; Suffet, I. H. Development of the polarity rapid assessment method (PRAM) for analysis of dissolved organic matter: Theory and characterization. XIII International Meeting of the International Humic Substances Society, Karlsruhe, Germany, July 30- August 4, **2006** *
176. Lei, D.; Snyder, S. A.; Rosario-Ortiz, F. L.; Westerhoff, P.; Rogers, T.; Drewes, J. Empirical and Quantum Mechanical Models for Emerging Contaminant Research. 2005 AWWA Water Quality Technology Conference and Exhibition, Quebec City, Quebec, November 6-10, **2005**
177. Rosario-Ortiz, F. L.; Snyder, S.; Rexing, D.; Suffet, I. H. Fluorescence EEM Characterization of Dissolved Organic Matter Polarity Fractions Using PRAM. 2005 AWWA Water Quality Technology Conference and Exhibition, Quebec City, Quebec, November 6-10, **2005**

178. Rosario-Ortiz, F. L.; Snyder, S.; Rexing, D.; Suffet, I. H. Rapid Characterization of the Changes in DOM During Water Treatment using PRAM, Fluorescence EEM and HPLC-SEC. AWWA Annual Conference Exposition, San Francisco, California, June 12-16, **2005**
179. Rosario-Ortiz, F. L.; Snyder, S.; Rexing, D.; Suffet, I. H. Characterization of the Changes in Polarity of DOM during Water Treatment using PRAM. Nevada Water Environment Association 2005 Annual Conference, Las Vegas, Nevada, March 23-25, **2005**
180. Rosario-Ortiz, F. L.; Quinones, O.; Suffet, I. H.; Rexing, D.; Snyder, S. Development of an HPLC-SEC-ICP-MS Method for the Analysis of Dissolved Organic Matter. 229th ACS National Meeting, San Diego, California; March 13-17, **2005** *
181. Gerringer, F. W.; Rosario-Ortiz, F. L.; Gabelich, C. J.; Pedersen, J. A.; Sibley, S. D.; Suffet, I. H. Organic Fouling of Polyamide Reverse Osmosis: Effect of Natural Organic Matter Properties on Membrane Performance. 2004 AWWA Water Quality Technology Conference (WQTC), San Antonio, Texas, November 14-18, **2004**
182. Rosario-Ortiz, F. L.; Al-Samarai, H. N.; Kozawa, K.; Gerringer, F. W.; Gabelich, C. J.; Suffet, I. H. Characterization of the Polarity of Natural Organic Matter Using Solid Phase Extraction. XII International Meeting of the International Humic Substances Society, São Pedro; Brazil, July 26-30, **2004**
183. Gerringer, F. W.; Rosario-Ortiz, F. L.; Gabelich, C. J.; Pedersen, J. A.; Sibley, S. D.; Suffet, I. H. Effects of Natural Organic Matter on Reverse Osmosis Membrane Fouling. 227th ACS National Meeting, Anaheim, CA; March 28-April 1, **2004**
184. Rosario-Ortiz, F. L.; Al-Samarai, H. N.; Kozawa, K.; Gerringer, F. W.; Gabelich, C. J.; Suffet, I. H. A Quick Method to Understand the Polarity of Natural Organic Matter Using Solid Phase Extraction. 227th ACS National Meeting, Anaheim, CA; March 28-April 1, **2004**
185. Rosario-Ortiz, F. L.; Al-Samarai, H. N.; Kozawa, K.; Gerringer, F. W.; Gabelich, C. J.; Suffet, I. H. Characterization of the Polarity of Natural Organic Matter Using Solid Phase Extraction. Natural Organic Material Research: Innovations and Applications for Drinking Water; Victor Harbor, Australia, March 2-5, **2004**
186. Rosario-Ortiz, F. L.; Geiger, C.; Whitten, D. Self-Assembly of Styryl Naphthalene Amphiphiles: Aggregate Structure, Assembly Properties, Photochemistry and Photophysics. MARC-MBRS Meeting, New York, NY; November 21-25, **1998***
187. Rosario, F. L.; Quiñones, E.; Rodriguez, A. Oxidative Electronic Quenching of Pheophytin-a Methylviologen In SDS. 216th ACS National Meeting, Boston, MA; August 22-27, **1998***
188. Rosario, F. L.; Quiñones, E.; Rodriguez, A. Topological Studies of Pheophytin-a in SDS. MARC-MBRS Meeting, New York City, NY; November 21-25, **1998***

Presentations at local meetings

1. Huang, W.; McKay, G.; Romera-Castillo, C.; Rosario-Ortiz, F. L.; Jaffe, R. Assessing dissolved organic matter photo-reactivity in a subtropical wetland ecosystem: Interrelations between optical properties, redox potential and the formation of reactive species. American Chemical Society, Florida Section (FAME2016), Tampa, FL, May 5-7, **2016***
2. McKay, G.; Rosario-Ortiz, F. L. Common water treatment techniques enhance the production of reactive oxygen species from dissolved organic matter photolysis. Emerging Contaminant Summit, Westminster, CO, **2016** *

3. McKay, G. M.; Rosario-Ortiz, F. L. The effect of temperature on the quantum yield of photochemical hydroxyl radical formation from dissolved organic matter. 10th Annual Hydrological Sciences Research Symposium. Boulder, CO, April 2-3, **2015**
4. Mostafa, S.; Rubinato, M.; Rosario-Ortiz, F. L.; Linden, K. G. Photochemical inactivation of E. Faecalis in the presence of organic matter. 10th Annual Hydrological Sciences Research Symposium. Boulder, CO, April 2-3, **2015***
5. Johnson, S.#; Cawley, K.; Rosario-Ortiz, F. L. Impact of the High Park fire on the Cache La Poudre river watershed sediment. Presented at SMART/REU Symposia, University of Colorado, Boulder, August 7th, **2014 ***
6. Hohner, A. K.#; Cawley, K.; Rosario-Ortiz, F. L. Assessing wildfire impacted source water quality and treatability in the Cache la Poudre watershed through monitoring and a lab-leaching study. 9th Annual Hydrologic Sciences Research Symposium. CU Boulder, April 3-4, **2014 ***
7. Meyer, J.#; Hohner, A. K.#; Rosario-Ortiz, F. L. Characterizing fire-impacted dissolved organic matter (DOM) before and after coagulation. 9th Annual Hydrologic Sciences Research Symposium. CU Boulder, April 3-4, **2014***
8. Korak, J. A.#; Wert, E. C.; Rosario-Ortiz, F. L. Fluorescence spectroscopy as an indicator for cyanobacteria organic matter release. 9th Annual Hydrologic Sciences Research Symposium. CU Boulder, April 3-4, **2014**
9. Cawley, K.; Hohner, A. #; Rosario-Ortiz, F. L. Wildfire impacts on dissolved and particulate organic matter quality in a sub-alpine stream. Rocky Mountain Hydrologic Research Center Annual Meeting. Boulder, CO October 18th, **2013**
10. Hohner, A. K.#; Writter, J.; Cawley, K.; Summers, R. S.; Rosario-Ortiz, F. L. The impact of the High Park wildfire on source water quality and implications for treatment. Joint RMWEA/RMSAWWA conference. Keystone, CO, September 8-11, **2013**
11. Korak, J. A.#; Summers, R. S.; Rosario-Ortiz, F. L. Evaluating DOM removal during coagulation using fluorescence spectroscopy. Joint RMWEA/RMSAWWA conference. Keystone, CO, September 8-11, **2013**
12. Korak, J. A.#; Wert, E. C.; Dong, M. M.; Rosario-Ortiz, F. L. Characterizing algal organic matter and its transformations during oxidation using fluorescence spectroscopy. 10th Annual RMSAWWA/RMWEA Student Conference, Colorado School of Mines, Golden, CO. May 14th, **2013**
13. Glover, C.#; Rosario-Ortiz, F. L. Halide quenching of reactive oxygen species photoproducts from organic matter. 10th Annual RMSAWWA/RMWEA Student Conference, Colorado School of Mines, Golden, CO. May 14th, **2013**
14. Townsend, E.#; Glover, C. #; Rosario-Ortiz, F. L. Photochemical formation of hydroxyl radical from organic matter: physicochemical characterization. Final REU presentation, Boulder, CO, August 9th, **2012**
15. Butler, M.#; Glover, C. #; Rosario-Ortiz, F. L. Detection of hydroxyl radical in detention ponds. Presentation at You're @ CU Poster Session, April 17th, **2012***
16. Glover, C. M.#; Parker, A. M.; Linden, K. G.; Rosario-Ortiz, F. L., Photochemical degradation of oil dispersants in ocean waters. 2012 RM AWWA Chapter, May **2012**
17. Glover, C.M.#; Parker, A.M.; Linden, K. L.; Rosario-Ortiz, F.L. Photochemical degradation of oil dispersants in ocean waters. NIST Materials Challenges for Next-Generation Water Treatment. Boulder, CO, October 27th-28th, **2011**. (poster)

18. Leppék, B.[#]; Dong, M. M.; Rosario-Ortiz, F. L. Indirect photolysis of organic contaminants in wastewater dominated streams. Discovery Learning Apprentice Poster Session, CU Boulder, April 15, **2011** (poster)
19. McKay, G.[#]; Dong, M. M.[#]; Mezyk, S. P.; Rosario-Ortiz, F. L. Determination of activation energies for the reaction of hydroxyl radical and effluent organic matter as a function of molecular weight. Final REU Presentation, Boulder, CO, August 5th, **2010**
20. Peña, A.[#]; Gonzales, S.; Rosario-Ortiz, F. L. Investigating the effect of wastewater organic matter on the application of ozone for micropollutant degradation for water reuse. SMART Program Final Meeting, Boulder, CO, August 5th, **2010**
21. Dong, M. M.[#]; Mezyk, S. P.; Rosario-Ortiz, F. L. Reactivity of effluent organic matter towards hydroxyl radical as a function of molecular weight and its effects on the application of advanced oxidation. 7th Annual WEF/AWWA Student Conference, University of Colorado, Boulder, May 18th, **2010**
22. Gonzales, S.[#]; Rosario-Ortiz, F. L. The relationship between the apparent molecular weight of effluent organic matter and ozone/hydroxyl radical exposure. 7th Annual WEF/AWWA Student Conference, University of Colorado, Boulder, May 18th, **2010**
23. Sanchez, R.[#]; Dong, M. M.; Gonzalez, S.; Rosario-Ortiz, F. L. Physicochemical characterization of effluent organic matter as a function of molecular weight. SMART summer poster presentation, Boulder, CO, August **2009**
24. Campos, J. J.; Rosario-Ortiz, F. L.; Quiñones, E. On the Development of a β -Cyclodextrin-Lissamine Complex as a Solution Additive in the Separation of Enantiomers. 2nd Annual Undergraduate Research Symposium & Colloquium on Ethics, Río Piedras Campus, University of Puerto Rico, Río Piedras, PR; July 29, **1999**
25. Rosario, F. L.; Geiger, C.; Whitten, D. Self-Assembly of Styryl Naphthalene Amphiphiles: Aggregate Structure, Assembly Properties, Photochemistry and Photophysics. NSF Center for Photoinduced Charge Transfer Summer Program Meeting, Rochester, NY; August 3, **1998***
26. Rosario, F. L.; Quiñones, E.; Rodriguez, A. Topological Studies of Pheophytin-a in SDS. 22nd Senior Technical Meeting, Aguadilla, PR; November 13-14, **1998***

Invited Presentations

1. Assessing the impact of wildfires on water quality, Department of Civil and Environmental Engineering, Syracuse University, October 12th, **2018**
2. Assessing Puerto Rico's hurricane water quality. 256th ACS National Meeting, Boston, MA, August 19-23, **2018**
3. Impact of wildfires on carbon mobilization. Wildfires, Water Quality Impacts, and Forestry Management, University of Colorado Boulder, June 5th, **2018**
4. Are wildfires poisoning our water supplies? East Los Angeles Community College, April 23rd, **2018**
5. Impact of wildfires on water treatment and formation of disinfection byproducts. University of Lisbon, February 16th, **2018**
6. Assessing the impact of wildfires on water quality. Department of Civil and Environmental Engineering and Earth Sciences. University Notre Dame. February 26th, **2018**

7. Environmental photochemistry of organic matter. Department of Civil and Environmental Engineering, University of California, Irvine, January 26th, **2018**
8. Assessing the impact of wildfires on water quality. Department of Civil and Environmental Engineering, Colorado School of Mines, January 18th, **2018**
9. Ongoing Research on wildfire water quality. EPA National Priorities: Systems-based strategies to improve the Nation's ability to plan and respond to water scarcity and drought meeting. Oakland, December 8th, **2017**
10. Assessing the impact of wildfires on water quality. University of California, Merced, November 15th, **2017**
11. Assessing the impact of wildfires on water quality and treatment efficacy. AEESP Emerging Investigator Lecture, AWWA WQTC, Portland, Oregon, November 13th, **2017**
12. Assessing the impact of wildfires on water quality. USGS Lakewood, CO, June 15th, **2017**
13. Assessing the impact of wildfires on water quality. EPA National Enforcement Investigations Center, May 31st, **2017**
14. Assessing the impact of wildfires on water quality. Department of Civil and Environmental Engineering, University of California, Irvine, May 26th, **2017**
15. Assessing the impact of wildfires on the mobilization of dissolved organic carbon from soils, INSTAAR, April 24th, **2017**
16. Assessing the impact of wildfires on water quality and treatment. Department of Civil and Environmental Engineering, University of Nevada, Reno, March 9th, **2017**
17. Assessing the impact of wildfires on water quality and treatment. Department of Civil and Environmental Engineering, University of Iowa, December 2nd, **2016**
18. Assessing the impact of wildfires on water quality and treatment. Department of Civil and Environmental Engineering, University of California, Riverside, October 21st, **2016**
19. Environmental photochemistry of organic matter. Stanford University, August 10th, **2016**
20. Environmental photochemistry of organic matter. EPFL, Lausanne, Switzerland, April 12th, **2016**
21. Environmental photochemistry of organic matter. Technische Universität München, Munich, Germany, November 16th, **2015**
22. Assessing the impact of wildfires on water quality and treatment. EAWAG Department of water resources and drinking water. October 19th **2015**
23. Assessing the impact of wildfires on water quality and treatment. Department of Chemical Engineering, University of Bath, UK, October 9th, **2015**
24. Photochemical formation of hydroxyl radical from wastewater-derived organic matter. Keynote address at the 2015 Annual Meeting of the Swiss Photochemistry Section, ETH Zurich, September 8th, **2015**
25. Environmental photochemistry of organic matter. University of Arizona, Tucson, April, 28th, **2015**
26. Environmental photochemistry of organic matter. Department of Chemistry, Case Western Reserve University, April 2nd, **2015**

27. The impact of the High Park Wildfire on source water quality and implications for treatment. Institute of the Environment and Sustainability, Environmental Science and Engineering Program, UCLA. February 3rd, **2015**
28. The impact of wildfires on water quality. National Ecological Observatory Network, Boulder, CO, December 2nd, **2014**
29. The application of ozone for water reuse. University of Sheffield, Sheffield, UK, June 17th, **2014**.
30. Photochemistry of effluent organic matter. Swiss Federal Institute of Aquatic Science and Technology (EAWAG), Dübendorf, Switzerland, June 13, **2014**
31. Photochemistry of effluent organic matter. Swiss Federal Institute of Technology (ETH), Zurich, Switzerland, June 12, **2014**
32. The impact of the High Park Wildfire on source water quality and implications for treatment. Colorado Department of Public Health and Environment, Denver, CO. June 4th, **2014**
33. Analytical framework for the development of nutrient criteria for PWS. Presented at “The impacts of nutrient enrichment on drinking water quality”. Webinar presented by the American Water Works Association, April 30th, **2014**
34. Photochemical formation of reactive oxygen species from wastewater organic matter. Department of Chemistry and Biochemistry, Florida International University, Miami, FL, February 28th, **2014**
35. The connection between the properties of organic matter and its reactivity in the environment. Department of Soil and Crop Sciences, Colorado State University, Fort Collins, CO, January 23rd, **2014**
36. Photochemical formation of reactive oxygen species from wastewater organic matter. Department of Chemistry and Biochemistry, University of Colorado, Boulder, December 2nd, **2013**
37. Photochemical formation of reactive oxygen species from wastewater organic matter. Department of Chemistry, Denver University, October 24th, **2013**
38. Photochemical formation of reactive oxygen species from wastewater organic matter. Department of Civil and Environmental Engineering, Georgia Tech, September 25th, **2013**
39. Photochemical formation of reactive oxygen species from wastewater organic matter. Department of Chemistry, Ball State University, September 9th, **2013**
40. Photochemical formation of reactive oxygen species from wastewater organic matter. Department of Civil Engineering, University of Minnesota, June 27th, **2013**
41. Graduate investments and reciprocity. National Institute for Leadership Advancement, Denver CO, August 2nd, **2013**
42. Impact of the High Park fire on water quality. Wildfire Readiness and Response Workshop, Denver, CO, April 4-5th, **2013**
43. The role of nutrient levels and algae on DBP formation in Colorado watersheds. Department of Civil and Environmental Engineering, University of Colorado, Denver, February 18th, **2013**
44. The radical chemistry of effluent organic matter. Department of Chemistry, University of Puerto Rico, Rio Piedras, PR, November 16th, **2012**
45. Evaluation of the effectiveness of ozone for the oxidation of emerging contaminants. International Ozone Association PAG meeting. Milwaukee, WI. September 23rd, **2012**
46. The radical chemistry of effluent organic matter. Civil, Environmental and Sustainable Engineering Program, Arizona State University, AZ, February 28th, **2012**

47. Photochemical degradation of oil dispersants in ocean water. Presented at the “What happened at Deepwater Horizon? Workshop”, University of Colorado, Boulder, January 26th, **2012**
48. Effect of organic matter on the application of advanced oxidation processes. Trojan Technologies, London, ON, CA. April 26th, **2011**
49. Effects of EfOM on the application of AOPs for wastewater treatment. Seminar at Colorado State University-Department of Civil and Environmental Engineering, Fort Collins, CO, September 14, **2010**
50. Emerging contaminants in water: Overview and Research Opportunities. Third Puerto Rico NSF EPSCoR/RII Institute for Functional Nanomaterials (IFN) Annual Meeting, Rio Grande, PR, May 20, **2010**
51. Overview of efforts towards understanding of TOC issues in watersheds. Front Range Drinking Water Consortium Meeting, Westminster, CO, May 19, **2010**
52. Emerging contaminants: Sources and treatment. 8th CECIA-IAU Biennial Symposium on Potable Water Issues in Puerto Rico: Science, Technology and Regulation. San Juan, PR, February 19-20, **2009**

VI. Distinctions

1. Excellence in Review, Super Reviewer Award, *Environmental Science and Technology*, **2018**
2. Selected to participate at the Excellence in Leadership Program at the University of Colorado, **2018-2019**
3. Selected as a RIO fellow, University of Colorado, Boulder, **2017-2018**
4. Selected as part of the BFA Leadership Institute 2017-18 cohort, University of Colorado, Boulder, **2017-2018**
5. Selected as the inaugural AEESP Emerging Investigator Lecture at the AWWA WQTC Conference, **2017**
6. Selected as Trustee for the Water Quality and Research Division of the American Water Works Association, **2017-2020**
7. Selected as one of the top 10 reviewers for *Environmental Science: Water Research and Technology*, **2016**
8. University of Colorado, Boulder, Provost Faculty Achievement Award, **2016**
9. Shaye Faculty Fellowship, University of Colorado, Boulder **2016-2019**
10. Best paper award, Journal American Water Works Association, **2016**
11. College of Engineering and Applied Science Dean’s Award for Outstanding Junior Faculty, University of Colorado Boulder, **2015**
12. Visiting professor, ETH, Zurich, **2015-2016**
13. Visiting Scientist, EAWAG, Dübendorf, **2015-2016**
14. University of Colorado Boulder Faculty Assembly Faculty Recognition Award, **2015**
15. National Science Foundation CAREER award, **2015**
16. College of Engineering and Applied Science Dean’s Award for Professional Development, University of Colorado Boulder, **2014**
17. Excellence in Review Award, *Environmental Science and Technology*, **2014**
18. Faculty research development award, Department of Civil, Environmental and Architectural Engineering, University of Colorado Boulder, **2014**
19. American Water Works Association, Water Science & Research Division Volunteer Recognition Award, **2014**

20. Outstanding Faculty Award, Student Leadership Council, College of Engineering and Applied Science, University of Colorado Boulder, **2013**
21. ASCE Fellowship to attend the ExCEED workshop, Florida Gulf Coast University, July 21-26th, **2013**
22. Carl Storm Underrepresented minority (CSURM) Fellowship. Supported travel to attend Gordon Research Conference, June 24-29th, **2012**
23. Travel award to participate at the 2005 Ecological Chemistry Conference held at the Republic of Moldova, May 20-21, **2005** (Travel funded by the American Chemical Society and the National Science Foundation)
24. International Humic Substances Society (IHSS) Travel Award to present at the XII International Meeting of the IHSS in São Pedro; Brazil July 26-30, **2004**
25. National Consortium for Graduate Degrees for Minorities in Engineering and Science, INC. (GEM) Fellowship, **2000-2001**
26. Puerto Rican Chemical Society Award, **1999**
27. Selected as the Best Chemistry Student in Puerto Rico by the Puerto Rican Chemical Society, **1998-1999**
28. American Chemical Society Undergraduate Award in Analytical Chemistry, **1998**
29. Minority Access to Research Careers (MARC) Fellowship, **1996-1999** University of Puerto Rico

VII. Professional Affiliations

1. American Chemical Society (1995-present)
2. American Water Works Association (2003-present)
3. International Ozone Association (2007-2010)
4. International Water Association (2008-2009)
5. Association of Environmental Engineering and Science Professors (2008-present)
6. American Society for Engineering Education (2008-2009)
7. International Humics Substances Society (2005-present)

VIII. National and International Service

1. Volunteer for National and International Conferences
 - a) American Chemical Society National Meetings
 - i) “Chemistry of water treatment: Honoring Mel Suffet”. 253rd National ACS Meeting in San Francisco, CA, April 2-6, **2017** (co-organizer)
 - ii) “Modern Analytical Approaches for the Characterization of Natural Organic Matter in the Environment” for the 249th National ACS Meeting in Denver, CO, March 22-26, **2015**. (co-organizer)
 - iii) “Occurrence and fate of emerging contaminants in the urban water cycle”. 248th ACS Meeting, San Francisco, CA, August 10-14, **2014** (co-organizer)
 - iv) “Humic substances and their critical role in environmental chemistry”. 248th ACS Meeting, San Francisco, CA, August 10-14, **2014** (co-organizer)
 - v) “Physicochemical Characterization of Organic Matter: Past, Present and Future and the Role in the Environment”. 245th American Chemical Society National Meeting, New Orleans, **2013** (Organizer)
 - vi) “Environmental fate of dispersants used in oil spills”. 243rd American Chemical Society National Meeting, in San Diego **2012** (co-Organizer)

- vii) “Chemistry of hydroxyl radical in natural and engineered systems”. 242nd American Chemical Society National Meeting, Denver **2011** (Organizer)
 - viii) “Occurrence, detection and removal of pharmaceuticals and personal care products in potable water sources”, 241st American Chemical Society National Meeting, Anaheim, **2011** (co-Organizer)
 - ix) “Chemistry of AOP radicals in water and wastewater treatment”, 240th American Chemical Society National Meeting, Boston, **2010** (Organizer)
 - b) International Water Association
 - i) Scientific Committee International Water Association Specialty Conference in NOM, Irvine, CA, July 27-29th, **2011**
 - c) International Ozone Association
 - i) Technical committee International Ozone Association Conference, Seattle, WA September 18-21, **2010**
 - d) American Water Works Association
 - i) “Effectively assessing and treating dissolved organic matter from affected watersheds”. Workshop presented at AWWA Annual Conference and Exposition, June 9th, **2013**
 - e) International Humic Substances Society
 - i) Co-Organizer for the 20th IHSS Conference in Estes Park, August **2020**
 - f) AEESP
 - i) “Redox processes for the mitigation of anthropogenic and biogenic pollutants in the environment”. AEESP 50th Anniversary Conference, Golden, CO, July 14-16, **2013**
 - g) AGU
 - i) Organizer for workshop entitled “Trials and tribulations of fluorescing dissolved organic matter chemical interpretation: Converging fluorescent community challenges.” 2017 AGU Meeting in New Orleans, **2017**
2. Committee Work
 - a) Trustee for the American Water Works Association, Water Quality and Research Division, **2017-2020**
 - b) Member of the American Water Works Association University Student Activity Committee. This committee focuses on the evaluation of abstracts, presentations and thesis submitted by students. (**2015-present**)
 - c) Chair of American Water Works Association Organic Contaminant Research Committee (**2011-2014**). Responsibilities included developing overview articles, workshops and other materials relevant to the needs of the drinking water community
 - d) Member of American Water Works Association organic contaminants committee (**2006-2014**)
 3. Member of the International Water Association specialist group on Water Reuse (**2008-2010**)
 4. Workshops Attended
 - a) Water Research Foundation Nanomaterials Workshop, Denver June 28-29, 2011
 5. Member of project advisory committee (PAC). Responsibilities include reviewing progress made on projects by different teams and review final report before final publication.
 - a) Water Research Foundation 4499 (2013-2015)
 - b) Water Research Foundation 4422 (2012-2014)
 - c) Water Research Foundation 4336 (2010-2012)
 - d) Water Research Foundation 4113 (2007-2010)
 6. Member of review panel for proposals
 - a) National Science Foundation
 - i) July (EEC)
 - ii) May 2018 (EPsCOR)

- iii) September 2017 (CBET)
 - iv) April 2017 (EPsCOR fellowship proposals (2 by email))
 - v) February 2017 (CBET)
 - vi) October 2016 (CBET)
 - vii) April 2014 (CBET)
 - viii) June 2013 (BRIGE)
 - ix) April 2011 (CBET-by mail)
 - x) October 2010 (MRI-by mail)
 - xi) October 2009 (CBET)
 - xii) February 2009 (CBET)
 - b) EPA
 - i) STAR panel 2012 (by mail)
 - ii) STAR panel 2011
 - c) Canada Water Network
 - i) October 2009
 - ii) June 2009
 - d) Romanian National Scientific Research Council
 - i) Spring 2012
 - ii) Summer 2011
 - e) ACS Petroleum Research Fund
 - f) Ohio Sea Grant
7. Reviewer for peer reviewed publications (in alphabetical order)
- a) ACS Books-Symposium Series
 - b) Analytical Chemistry
 - c) Chemical Engineering Journal
 - d) Chemosphere
 - e) Environmental Engineering Science
 - f) Environmental Science and Technology
 - g) Environmental Science and Technology Letters
 - h) Environmental Science: Processes and Impacts
 - i) Environmental Science: Water Science and Technology
 - j) Environmental Technology
 - k) Journal of Applied Oxidation Technologies
 - l) Journal of Environmental Engineering
 - m) Journal of Environmental Management
 - n) Journal of Hazardous Materials
 - o) Journal of Photochemistry and Photobiology A: Chemistry
 - p) Journal of the American Water Works Association
 - q) Journal of Water and Health
 - r) Water Research
8. Chair of the Nomination Committee for the International Humic Substances Society (2015)
9. Editorial Experience
- a) Associate Editor for *AWWA Water Science*, **2018-present**
 - b) Member of the Editorial Advisory Board for *Environmental Science and Technology*, **2018-present**
 - c) Guest Editor for virtual issue of *Environmental Science and Technology* honoring George Aiken, **2017-2018**
 - d) Guest Editor *Journal of Soils and Sediments*, **2016-2017**
 - e) Guest Editor *Journal of the American Water Works Association*, April **2013**

IX. University Service

1. Member of the Academic Futures Committee, University of Colorado, Boulder, **2017-2018**
2. Chair for the EVEN search committee, **2017-2018**
3. Associate Director, Environmental Engineering Program, University of Colorado, Boulder, **2017-present**
4. RAP review task force, University of Colorado, Boulder, **2016-2017**
5. Chair of the EVEN graduate committee, University of Colorado, Boulder, **2016-present**
6. Graduate Admissions Committee, Department of Civil, Environmental and Architectural Engineering, **2008-2010; 2012-2013; 2015-2016**
7. Member of the Boulder Faculty Assembly Faculty Affairs Committee, **2015-present**
8. Chair of interview committee for CEAE, **2014**
9. Chair of the *ad hoc* awards committee, Department of Civil, Environmental and Architectural Engineering, **2014-present**
10. Organizer for Environmental Engineering Seminar Series, **Fall 2012, Fall 2013, Spring 2014, Fall 2016**
11. First year mentoring student program, including being a member of the *ad-hoc* executive committee for the program, Boulder Faculty Assembly, Fall **2013-2015**
12. Instructor Search Committee, Environmental Engineering Program, **2013-2014**
13. Faculty Search Committee, Department of Civil, Environmental and Architectural Engineering, **2012-2013**
14. Environmental Engineering Program Steering Committee (**2011-2012**)
15. Research Committee, Department of Civil, Environmental and Architectural Engineering, **2010-2011**
16. Diversity Action Committee, College of Engineering and Applied Sciences **2009-2012**

X. Students Mentored (including past and current members of research group)

1. High school
 - a. Elizabeth McNichols (Summer 2014)
 - b. Matt McNichols (Summers 2011 and 2012)
2. Undergraduate
 - a. Jeremy Torres-Ruiz (Summer 2018)
 - b. Claire Farmer (Spring 2018-present)
 - c. Madeline Hankard (Summer 2017)
 - d. Giovanni Caro-Ortiz (Summer 2017)
 - e. Melanie Warren (Spring 2017)
 - f. Tyler Kurtz (Fall 2016-Spring 2018)
 - g. Andrew Moscovich (Spring 2016)
 - h. Wade Godman (Spring 2016)
 - i. Celeste Havener (Summer 2015)
 - j. Ariel Retuta (Summer/Fall 2015)
 - k. Juliana Laszakovits (Summer 2015)
 - l. Kylie Crouch (Summer 2015)
 - m. Jacco Ramirez (REU Summer 2015)
 - n. Jenna Crouch (Spring 2015-Summer 2016)
 - o. Stephanie Ho (Fall-Spring 2014-15)
 - p. Marta Viscut (DLA Fall-Spring 2014-15)

- q. Stephanie Johnson (REU Summer 2014)
 - r. Jesse Nestler (Fall 2013-2014)
 - s. John Meyer (DLA, 2013-2014)
 - t. Matt McNichols (Summer 2013)
 - u. Cristina Tillberry (REU 2013, Summer 2014)
 - v. Sarah Al- Multaq (REU 2013, Summer, Fall 2013)-BS Thesis
 - w. Katie Birch (Fall 2012-independent study)
 - x. Eli Townsend (NSF Research Experiences for Undergraduates Summer 2012; Earn Learn Fall 2012, research assistant Spring 2013)
 - y. Miranda Butler (Spring/Fall 2012)
 - z. Jenniffer Mountinho (Summer 2011-REU)
 - aa. Katherine Dowdell (Fall/Spring 2010-2011)
 - bb. Bailey Leppek (Discovery Learning Apprenticeship-Fall/Spring 2010; Research funding Fall 2011)
 - cc. Andria Peña-Melendez (Summer Multicultural Access to Research Training program, summer 2010)
 - dd. Garrett McKay (NSF Research Experiences for Undergraduates program, summer 2010)
 - ee. Roberto Sanchez (Summer Multicultural Access to Research Training program, summer 2009)
3. Masters
- a. Melanie Warren (6/17-present)
 - b. Ariel Retuta (1/2016-8/2018)
 - c. Stephanie Kover (1/2012-05/2013) (co-advised with Karl Linden)
 - i. Thesis titled: "Photochemical fate of solvent constituents of core exit oil dispersants"
 - d. Fan Ye (1/2012-Summer 2013)
 - e. Amanda Hohner (01/2010 -12/2011)
 - i. Thesis titled: Source water quality characteristics and implications for disinfection byproduct formation in Colorado surface waters.
 - f. Sarah Gonzales (06/2009 -12/2010)
 - i. Thesis titled: Impact of effluent organic matter on the application of ozone for treatment of organic contaminants from wastewater
4. Doctoral
- a. Blair Hanson (5/18-present)
 - b. Sydney Uliman (1/2017-present, co-advised with Karl Linden)
 - c. Kylie Couch (8/2016-present)
 - d. Garrett McKay (6/2014-12/2017)
 - i. Thesis titled: "Relationships between the photochemical and photophysical properties of dissolved organic matter"
 - ii. Garrett is currently a post doc at the Colorado School of Mines.
 - iii. Starting in the Fall of 2019, Garrett will be an assistant professor at Texas A&M.
 - e. Parnaz B (Spring 2014-12/2016) (co-advised with Wei Tan)
 - i. Thesis titled: "Evaluation of fibrous polymeric coating over vascular stent material"
 - f. Amanda Hohner (6/2013-11/2016)
 - i. Thesis titled: "Wildfire disturbances to water quality: Implications for drinking water treatment"
 - ii. Amanda is currently an assistant professor at Washington State University
 - g. Simon Mostafa (8/2011-5/2015) (co-advised with Karl Linden)

- i. Thesis titled: “Sunlight-induced photochemical processes in natural and wastewater treatment systems”
 - ii. Simon is working with an NGO in Mexico helping improve the water quality in the region
 - h. Caitlin Glover (6/2010-5/2015)
 - i. Thesis titled: “Photochemical formation of reactive intermediates from dissolved organic matter in aquatic systems”
 - ii. Caitlin is currently a post doc at Southern Nevada Water Authority
 - i. Julie Korak (6/2011-7/2014) (co-advised with Scott Summers)
 - i. Thesis titled: “Use of fluorescence spectroscopy to characterize dissolved organic matter”
 - ii. Julie is currently employed at the US Bureau of Reclamation. Starting in the Fall of 2018, Julie will be assistant professor at CU Boulder.
 - j. Eric Wert (8/2011-05/2013)
 - i. Thesis titled: “Release of intracellular metabolites from cyanobacteria during oxidation processes in drinking water”
 - ii. Eric is a project manager at the Southern Nevada Water Authority
 - k. Mei Mei Dong (6/2009 - 5/2012)
 - i. Thesis titled: Scavenging and Photochemical Formation of hydroxyl radical by effluent organic matter and the removal of trace organic contaminants in wastewater.
 - ii. Mei Mei is currently a consultant with Hazen and Sawyer
- 5. Post-doctoral
 - a. Frank Leresche, 2017-present
 - b. Yun (Rosa) Yu, 2016-present
 - c. Jackson Webster, 2015-2016
 - d. Julie Korak, 2014-2015
 - e. Kaelin Cowley, 2013-2015
 - f. Eunkyung Lee, 2012-2013
 - g. Gaelle Semard, 2009
- 6. Visiting Students
 - a. Marcela Prado (PhD student from Brazil). February-July, 2014

XI. Courses Taught

1. CVEN 5424: Environmental Organic Chemistry
2. CVEN 5834: Analytical Methods in Environmental Engineering
3. CVEN 6404: Advanced Aquatic Chemistry
4. CVEN 4404/4414: Water Chemistry
5. CVEN 3414: Fundamentals of Environmental Engineering

XII. Media appearances

1. Coverage related to work done evaluating the water quality in Puerto Rico.
 - a. Interviewed on an article on NPR (<https://www.npr.org/sections/health-shots/2018/09/20/645625805/puerto-ricos-tap-water-often-goes-untested-raising-fears-about-lead-contaminatio?t=1537505544031>)
2. Coverage related to “How do you like your tap water?” publication in *Science*.
 - a. Interviewed guest on Science magazine podcast 2/25/16 (<https://itunes.apple.com/us/podcast/science-magazine->

- podcast/id120329020?mt=2&i=363694533)
- b. Article in English in The Conversation (<https://theconversation.com/can-drinking-water-be-delivered-without-disinfectants-like-chlorine-and-still-be-safe-55476>)
 - c. Article in French in The Conversation (<https://theconversation.com/leau-potable-peut-elle-se-passer-de-desinfectants-56620>)
 - d. Article in Medical Daily (<http://www.medicaldaily.com/drinking-water-disinfectant-water-pipes-375198>)
 - e. Article in Water Online (<http://www.wateronline.com/doc/are-residual-disinfectants-really-crucial-to-clean-water-0001>)
 - f. Article in Examiner (<http://www.examiner.com/article/infrastructure-study-sheds-light-on-water-purity>)
 - g. Article in El Español (http://www.elespanol.com/ciencia/20160225/104989818_0.html)
 - h. Article in Dutch Newspaper (<http://www.volkskrant.nl/wetenschap/internationaal-onderzoek-nederlands-drinkwater-van-topkwaliteit~a4253528/>)
3. Coverage related to research on the impact of wildfires on water quality
 - a. Featured in report by local ABC station, July 2nd, **2018**
 - b. Interviewed for article on the front page of Denver Post, July 2nd, **2018** (https://www.denverpost.com/2018/07/02/high-country-colorado-wildfire-watersheds/?utm_source=mile-high-roundup&utm_medium=Email&utm_term=https%3a%2f%2fwww.denverpost.com%2f2018%2f07%2f02%2fhigh-country-colorado-wildfire-watersheds%2f&utm_campaign=roundup20180702)
 - c. Interviewed for article on the Daily Camera, June 23rd, **2018** (http://www.dailycamera.com/cu-news/ci_31963273/cu-boulder-study-shows-wildfires-downstream-effect-water)
 - d. Interviewed for the Science Update Radio show (<http://www.scienceupdate.com/2018/03/fire-2/>), March 21st, **2018**
 - e. Press conference on wildfires at the ACS National Meeting in New Orleans, March **2017**
 - f. Featured in article entitled “Wildfires: A year later, a destructive fire’s legacy arrives as a flood”. Published by Environment and Engineering Publishing, section on The Politics and Business of Climate Change, August 19th, **2013**
 4. Coverage related to chemical dispersants
 - a. Featured together with doctoral students and Prof Karl Linden in article published in Chemical and Engineering News describing the use of web tools for the dissemination of work, **2010**
 - b. Featured in newspaper article entitled "CU scientists to study fate of oil dispersants in the Gulf". Article published in the Boulder Daily Camera (7/22/10). **2010**
 - c. Interviewed live on KOA news radio to discuss work on the fate of chemical dispersants in the Gulf of Mexico. Interview was broadcasted live July 21, 2010 at 7:30 am. **2010**
 - d. Interviewed by 7news (local ABC Denver affiliate) to talk about funded project evaluation the fate of chemical dispersants in the Gulf of Mexico. Interviewed was broadcasted on July 22, **2010**.
 - e. Featured in newspaper article entitled "CU-Boulder team to study Gulf of Mexico spill chemicals". Article published in the Denver Business Journal (7/22/10) and picked up by other newspapers in the area. **2010**
 - f. Interviewed together with Dr. Karl Linden on KGNU station to discuss work with chemical dispersants. **2010**

XIII. Student Recognition

1. Kylie Couch
 - a. Travel Award to attend International Humic Substances Society (IHSS) conference in Bulgaria. Conference to be held September **2018**
2. Amanda Hohner
 - a. Best poster presentation (graduate) at 9th Hydrologic Sciences Symposium, **2014**
 - b. Department of Civil, Environmental and Architectural Engineering Doctoral Assistantship for Excellence Award, **2013**
3. John Meyer
 - a. Best poster presentation (undergraduate) at 9th Hydrologic Sciences Symposium, **2014**
4. Julie Korak
 - a. Department of Civil, Environmental and Architectural Engineering Outstanding Dissertation Award, **2015**
 - b. Travel Award to attend International Humic Substances Society (IHSS) conference in Greece. Conference to be held September **2014**
 - c. Best oral presentation at 9th Hydrologic Sciences Symposium, **2014**
 - d. NSF GRFP, **2011-2014**
5. Stephanie Kover
 - a. NSF GRFP. Awarded **2013**. Funding was declined as student decided to pursue a law degree.
6. Caitlin Glover
 - a. NSF GRF **2011-2015**
7. Simon Mostafa
 - a. EPA STAR **2011-2015**
8. Garrett MacKay
 - a. American Chemical Society Graduate Student Awards in Environmental Chemistry, **2017**
 - b. Department of Civil, Environmental and Architectural Engineering Doctoral Assistantship for Excellence Award, **2014**
 - c. Travel Award to attend International Humic Substances Society (IHSS) conference in China. Conference was held **2012**
 - d. Poster award at IHSS conference, China **2012**
9. Marta Viscut
 - a. Department of Civil, Environmental and Architectural Engineering Doctoral Assistantship for Excellence Award, **2015**
 - b. American Chemical Society Division of Environmental Chemistry Undergraduate Award, **2015**