

CV SECTION 2: Publications/Scholarly Record

Jason C. Quinn

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Professional Experience:

- Rockwell-Anderson Professorship (July 2019-present), Walter Scott Jr. College of Engineering, Colorado State University
- Associate Professor, (July 2018-present) Department of Mechanical Engineering, Colorado State University
- Assistant Professor, (August 2016-June 2018) Department of Mechanical Engineering, Colorado State University
- Assistant Professor, (July 2012-August 2016) Department of Mechanical & Aerospace Engineering, Utah State University
- Research Scientist, (May 2011-July 2012) Department of Mechanical Engineering, Colorado State University

PUBLISHED WORKS

My H-index based on Google Scholar is 18 with a total of 1958 citations from 44 peer reviewed journal publications.

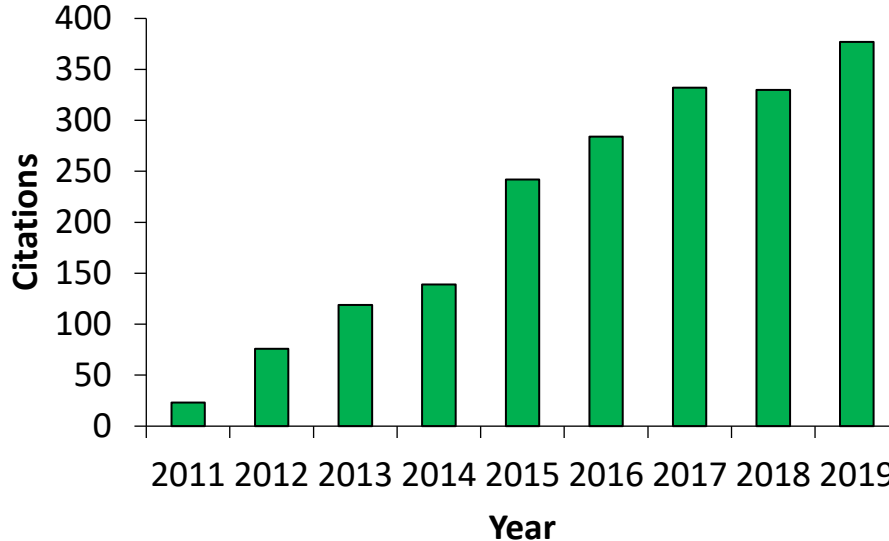


Figure 1. Annual citations based on google scholar, accessed 9/18/2019.
Total Citations: 1803

Refereed Journal Articles:

1. Beckstrom, B., Wilson, M., Crocker, M., Quinn, J.C., 2020, Bioplastic production from microalgae with fuel co-products: A techno-economic and life-cycle assessment, *Algal Research* 46: 101769 (IF:6.198 C:N/A)

2. Chen, P., Jimenez, J.V., Rowland, S., Quinn, J.C., Laurens, L., 2020, Algae Nutrient Recycle from Hydrothermal Liquefaction Aqueous Phase through a Novel Selective Remediation Approach, *Algal Research* 46: 101776 (IF:6.198 C:N/A)
3. DeRose, K., Liu, F., Davis, R.W., Simmons, B.A., Quinn, J.C., 2019, Conversion of Distiller's Grains to Renewable Fuels and High Value Protein: Integrated Techno-Economic and Life Cycle Assessment, *Environmental Science and Technology* 53(17): 10525-10533 (IF:6.198 C:N/A)
4. Antonanzas, J, Arbeloa-Ibero, M., Quinn, J.C., 2019, Comparative life cycle assessment of fixed and single axis tracking systems for photovoltaics, *Journal of Cleaner Production* 240: 118016 (IF:6.395 C:N/A)
5. Sproul, E., Barlow, J., Quinn, J.C., 2019, Temporal Impacts of Greenhouse Gas Emissions in Life Cycle Assessment, *Environmental Science and Technology* 53, 6073-80 (IF:6.198 C:N/A)
6. Jablonski, B.B.R., Carolan, M., Hale, J., Thilmany McFadden, D., Love, E., Christensen, L., Covey, T., Bellows, L., Cleary, R., David, O., Jablonski, K.E., Jones, A.S., Meiman, P., Quinn, J., Ryan, E.P., Schipanski, M., Summers, H., Uchanski, M., 2019, Connecting Urban Food Plans to the Countryside: Leveraging Denver's Food Vision to Explore Meaningful Rural-Urban Linkages. *Sustainability*, 11(7), 2022 (IF:2.075 C:N/A)
7. Hess, D., Wendt, L.M., Wahlen, B.D., Aston, J.E., Hu, H., Quinn, J.C., 2019, Techno-economic Analysis of Ash Removal in Biomass Harvested from Algal Turf Scrubbers, *Biomass and Bioenergy*, 123, 149-158 (IF:4.232 C:N/A)
8. Somers, M., Quinn, J.C., 2019, Sustainability of Carbon Delivery to an Algal Biorefinery: A Techno-economic and Life-cycle Assessment, *Journal of CO2 Utilization*, 30, 193-204 (IF:6.141 C:N/A)
9. DeRose, K., DeMill, C., Davis, R.W., Quinn, J.C., 2019, Integrated Techno-economic and Life Cycle Assessment of the Conversion of High Productivity, Low Lipid Algae to Renewable Fuels, *Algal Research*, 38, 101412 (IF:4.475 C:N/A)
10. Cruce, J., Quinn, J.C., 2019, Economic viability of multiple algal biorefining pathways and the impact of public policies, *Applied Energy*, 233-234, 735-746 (IF:7.888 C:N/A)
11. Aligata, A. J., Tryner, J., Quinn, J. C., & Marchese, A. J. (2018). Effect of microalgae cell composition and size on responsiveness to ultrasonic harvesting. *Journal of Applied Phycology*, 31(3), 1637-1649 (IF:2.401 C:N/A)
12. Limb, B. J., Asher, Z. D., Bradley, T. H., Sproul, E., Trinko, D. A., Crabb, B., Zane, R., Quinn, J.C., 2018, Economic Feasibility of Transportation Electrification Integrating Wireless Power Transfer, *IEEE Transactions on Transportation Electrification*, DOI:0.1109/TTE.2018.2876067 (IF:N/A C:N/A)
13. Hess, D., Quinn, J.C., 2018, Impact of Inorganic Contaminants on Microalgal Biofuel Production through Multiple Conversion Pathways, *Biomass and Bioenergy*, 119, 237-245 (IF:4.232 C:N/A)
14. Edlund, A., Jones, J., Lewis, R., Quinn, J.C., 2018, Economic Feasibility and Environmental Impact of Synthetic Spider Silk Production from *Escherichia coli*, *New Biotechnology*, 42, 12-18 (IF:3.183 C:N/A)
15. Hess, D., Napan, K., McNeil, B.T., Torres, E.M., Guy, T., McLean, J., Quinn, J.C., 2017, Quantification of the impact and end fate of inorganic contaminants from flue gas utilization on microalgae productivity, *Algal Research*, 25, 68-75. (IF:4.621 C:N/A)
16. Vogel, B., Quinn, J.C., 2017, Economic Evaluation of Small Modular Reactors and the Complications of Regulatory Fee Structures, *Energy Policy*, 104, 395-403. (IF:4.599 C:N/A)
17. Torres, E.M., Hess, D., McNeil, B.T., Guy, T., Quinn, J.C., 2017, Impact of inorganic contaminants on microalgae productivity and bioremediation potential, *Ecotoxicology and Environmental Safety*, 139, 367-376. (IF:3.577 C:1)
18. Hoffman, J., Pate, R.C., Drennen, T., Quinn, J.C., 2017, Techno-economic Assessment of Open Microalgae Production Systems, *Algal Research*, 23, 51-57. (IF:4.621, C:3)
19. Shurtz, B., Wood, B., Quinn, J.C., 2017, Resource Assessment Associated with Large-scale Microalgae to Biofuel Production: Multi-pathway Evaluation, *Sustainable Energy Technologies*

- and Assessments, 19, 51-58. (IF:TBD, C:2)
20. McNeil, B., Hess, D., Torres, E., Sims, R.C., Quinn, J.C., 2016, Integration of Produced Water from Oil and Gas with Microalgae Cultivation: Impact of Productivity, Utah Academy of Science Arts and Letters, 3, 55-75.
 21. Beal, C.M., Davidson, F.T., Weber, M.E., Quinn, J.C., 2016, Flare Gas Recovery for Algal Protein Production, Algal Research, 20, 142-152. (IF:4.621, C:1)
 22. Quiroz-Arita, C., Yilmaz, O., Barlack, S., Catton, K., Quinn, J.C., Bradley, T.H., 2016, A Geographical Assessment of Vegetation Carbon Stocks and Greenhouse Gas Emissions on Potential Microalgae-based Biofuel Facilities in the United States, Bioresource Technology, 221, 270-275. (IF:6.102, C:1)
 23. Barlow, J., Sims, R.C., Quinn, J.C., 2016, Techno-Economic and Life-Cycle Assessment of an Attached Growth Algal Biorefinery, Bioresource Technology, 220, 360-368. (IF:6.102, C:7)
 24. Napan, K., Kumarasamy, K., Quinn, J.C., Wood, B., 2016, Contamination levels in biomass and spent media from algal cultivation system contaminated with heavy metals, Algal Research, 19, 39-47. (IF:4.621, C:3)
 25. Mason, G., Reeve, D., Schacht, A., Goodrich, A., Napan, K., Quinn, J.C., 2016, Low-Energy Input Continuous Flow Rapid Pre-Concentration of Microalgae through Electro-Coagulation-Flocculation, Chemical Engineering Journal, 297, 97-105. (IF:6.216, C:3)
 26. Jones, M.A., Odehb, I., Haddad, M., Hindb, A., Quinn, J.C., 2016, Economic Analysis of Direct-Coupled Photovoltaic (PV) Powered Water Pumping and Desalination for Agriculture, Desalination, 387, 35-45. (IF:5.905, C:8)
 27. Jena, U., McCurdy, A., Warren, A., Summers, H., Ledbetter, R., Hoekman, S.K., Seefeldt, L.C., Quinn, J.C., 2015, Oleaginous Yeast Platform for Producing Biofuels via Co-Solvent Hydrothermal Liquefaction, BioTechnology for Biofuels, 8.1, 167. (IF:5.203, C:8)
 28. Summers, H., Ledbetter, R., McCurdy, A., Morgan, M., Seefeldt, L.C., Jena, U., Hoekman, S.K., Quinn, J.C., 2015, Techno-economic Feasibility and Life Cycle Assessment of Dairy Effluent to Renewable Diesel via Hydrothermal Liquefaction, Bioresource Technology, 196, 431-440. (IF:6.102, C:8)
 29. Napan, K., Hess, D., McNeil, B., Quinn, J.C., 2015, Quantification of heavy metals and other inorganic contaminants on the productivity of microalgae, Journal of Visualized Experiments, e52936. (IF:1.2, C:6)
 30. Napan, K., Christianson, T., Voie, K., Quinn, J.C., 2015, Quantitative assessment of microalgae biomass and lipid stability post cultivation, Frontiers in Energy Research, 3, 15. (IF:1.52, C:1)
 31. Napan, K., Teng, L., Quinn, J.C., Wood, B., 2015, Impact of Heavy Metals from Flue Gas Integration with Microalgae Production, Algal Research, 8, 83-88. (IF:4.621, C:16)
 32. Bennion, E.P., Ginosar, D.M., Moses, J., Agblevor, F., Quinn, J.C., 2015, Lifecycle Assessment of Microalgae to Biofuel: Thermochemical Processing Through Hydrothermal Liquefaction or Pyrolysis, Applied Energy, 154, 1062-1071. (IF:4.621, C:7.500)
 33. Quinn, J.C., Davis, R., 2015, The Potentials and Challenges of Algae Based Biofuels: A Review of the Techno-economic, Life cycle, and Resource Assessment Modeling, Bioresource Technology, 184, 444-452. (IF:6.102, C:96)
 34. McCurdy, A. T., Higham, A.J., Morgan, M.R., Quinn, J.C., Seefeldt, L.C., 2014, Two-step process for production of biodiesel blends from oleaginous yeast and microalgae, Fuel, 137, 269-276. (IF:4.726, C:7)
 35. Quinn, J.C., Hanif, A., Sharvelle, S., Bradley, T.H., 2014, Microalgae to biofuels: Life cycle impacts of methane production of anaerobically digested lipid extracted algae, Bioresource Technology, 171, 37-43. (IF:6.102, C:23)
 36. Willis, R. M., McCurdy, A. T., Ogborn, M. K., Wahlen, B. D., Quinn, J.C., Pease III, L. F., Seefeldt, L. C., 2014, Improving Energetics of Triacylglyceride Extraction from Wet Oleaginous Microbes¶. Bioresource Technology, 167, 416-424. (IF:6.102, C:8)
 37. Moody, J.W., McGinty, C.M., Quinn, J.C., 2014, Global Evaluation of Biofuel Potential from

- Microalgae. Proceedings of the National Academy of Sciences of the United States of America, 111, 23. (IF:9.661, C:94)
38. Quinn, J.C., Smith, T.G., Downes, C.M., Quinn, C., 2014, Microalgae to Biofuels Lifecycle Assessment-Multiple Pathway Evaluation, *Algal Research*, 4, 116-122. (IF:4.621, C:54)
 39. Batan, L., Quinn, J. C., Bradley, T., 2013, Analysis of Water Footprint of a Photobioreactor Microalgae Biofuel Production System from Blue, Green and Lifecycle Perspectives, *Algal Research*, 2, 196-203. (IF:4.621, C:29)
 40. Quinn, J. C., Catton, K., Johnson, S., Bradley, T., 2012, Geographical Assessment of Microalgae Biofuels Potential incorporating Resource Availability, *Bioenergy Research*, 6, 591-600. (IF:2.487, C:33)
 41. Quinn, J. C., Yates, T., Douglas, N., Weyer, K., Butler, J., Bradley, T. H., Lammers, P. J., 2012, Nannochloropsis Production Metrics in a Scalable Outdoor Photobioreactor for Commercial Applications. *Bioresour. Technology*, 117, 164-71. (IF:6.102, C:114)
 42. Quinn, J., Catton, K., Wagner, N., Bradley, T., 2011, Current US Biofuel Potential from Microalgae Cultivated in Large-Scale Photobioreactors, *Bioenergy Research*, 5, 49-60. (IF:2.487, C:55)
 43. Fagerstone, K, Quinn, J., Marchese, A., Bradley, T., 2011, Quantitative Measurement of Direct Nitrous Oxide Emissions from Microalgae Cultivation, *Environmental Science & Technology*, 45, 9449-9456. (IF:6.198, C:52)
 44. Quinn, J., Turner, C., Bradley, T., 2012, Scale-Up of Flat Plate Photobioreactor Considering Diffuse and Direct Light Characteristics, *Biotechnology and Bioengineering*, 109, 363-370. (IF:4.481, C:18)
 45. Quinn, J., de Winter, L., Bradley, T., 2011, Microalgae Bulk Growth Model with Application to Industrial Scale System, *Bioresour. Technology*, 102, 5083-5092. (IF:6.102, C:134)
 46. Batan, L.¹ Quinn, J.¹, Willson, B., Bradley, T., 2010, Net Energy and Greenhouse Gas Emissions Evaluation of Biodiesel Derived from Microalgae, *Environmental Science & Technology* 44, 7975-7980. (IF:6.198, C:262)

Refereed Proceedings/Transactions:

Refereed Invited Conference Presentations:

1. Sproul, E., Quinn, J.C., 2020, Energy Systems Analysis Using Life Cycle Assessment, Techno-Economics, and Integrated Assessment Modeling, International Symposium on Sustainable Systems and Technologies, Philadelphia, PA.
2. Horesh, N., Quinn, C., Tong, A., Wang, H., Zane, R., Quinn, J.C., 2020, Economic and environmental impact of recondition 2nd life lithium ion batteries for grid services, International Symposium on Sustainable Systems and Technologies, Philadelphia, PA.
3. Summer, H.M., Sproul, E., Quinn, J.C., 2020, Green isn't Green: The Environmental Burden of Cannabis Cultivation, International Symposium on Sustainable Systems and Technologies, Philadelphia, PA.
4. Saarloos, B., Quinn, J.C., 2020, A Net-Zero Energy Campus Case-Study: Denver's National Western Center, International Symposium on Sustainable Systems and Technologies, Philadelphia, PA.
5. Antonanzas, J., Quinn, J.C., 2020, The role of the photovoltaic industry in fighting climate change in the last two decades, International Symposium on Sustainable Systems and Technologies, Philadelphia, PA.
6. DeRose, K., Davis, R.W., Banks, A., Quinn, J.C., Economic evaluation of the costs and benefits of proactive algae bloom prevention in Lake Erie, International Symposium on Sustainable Systems and Technologies, Philadelphia, PA.

¹ Co-authored

7. Quinn, J.C., Summers, H.M., Sproul, E., Seavert, C., Teegerstrom, T., Gutierrez, P., Robbs, J., Mealing, V., Landis, A.E., Fan, N., Sun, O., Vazquez, D., 2020, Integrated Economic and Environmental Analysis of Emerging Industrial Crops in Arid Regions of the Southwest United States, International Symposium on Sustainable Systems and Technologies, Philadelphia, PA.
8. Somers, M.D., Quinn, J.C., 2019, The economics of carbon delivery to an algal biorefinery, Algal Biomass Summit, Orland, FL.
9. Quinn, J.C., Cruce, J., Sommers, M., Beckstrom, B., Chen, P., DeRose, K., 2019, An economic and life cycle perspective on the future of algal biorefineries, Algal Biomass Summit, Orland, FL.
10. Greene, J., Huesemann, M., Gulden, J., Wood, G., Mumford, T., Quinn, J.C., 2019, Utilizing Techno-Economic Modeling to Identify Effective Methods to Reduce the Cost of Fuel Production from Macroalgae, Algal Biomass Summit, Orland, FL.
11. DeRose, K., Davis, R.W., Liu, F., Quinn, J.C., 2019, Production of alternative fuels from low-lipid, high productivity algae; a comparison of processing options as evaluated through economic viability and sustainability, Algal Biomass Summit, Orland, FL.
12. Crocker, M., Wilson, M.H., Groppo, J., Kesner, S., Mohler, D., Pace, R., Grubbs T., Quinn, J.C., Beckstrom, B., Quiroz, D., Zeller, A., Hunt, R., Durst, D., 2019, CO2 to Bioplastics Using Microalgae, Algal Biomass Summit, Orland, FL.
13. Beckstrom, B.D., Quiroz, D., Wilson, M.H., Crocker, M., Zeller, A., Quinn, J.C., 2019, Bioplastic production from microalgae: Economic and Life Cycle potential, Algal Biomass Summit, Orland, FL.
14. Chen, P., Quinn, J.C., 2019, Carbon sequestration through char production with hydrothermal liquefaction of algal biomass, American Center for Life Cycle Assessment XIX, Tucson, AZ.
15. Summers, H., Quinn, J.C., 2019, TITLE, American Center for Life Cycle Assessment XIX, Tucson, AZ.
16. Sproul, E., Summers, H., AUTHORS, 2019, TITLE, American Center for Life Cycle Assessment XIX, Tucson, AZ.
17. Greene, J., Huesemann, M., Gulden, J., Wood, G., Mumford, T., Quinn, J.C., 2019, Macroalgae biorefining: Using a modular approach to quantify the impacts of emerging technology on system performance, American Center for Life Cycle Assessment XIX, Tucson, AZ.
18. Antonanzas, J., Arbeloa-Ibero, M., Quinn, J.C., 2019, TITLE, American Center for Life Cycle Assessment XIX, Tucson, AZ.
19. Summers, H., Browning, D., Quinn, J.C., 2019, Environmental Impacts of Colorado Cannabis Industry, International Symposium on Sustainable Systems and Technology, Portland, OR.
20. Sproul, E., Barlow, J., Quinn, J.C., 2019, Monetized Impacts of Time Resolved Greenhouse Gas Emissions, International Symposium on Sustainable Systems and Technology, Portland, OR.
21. Quinn, J.C., Sproul, E., DeRose, K., Greene, J., Summers, H., Cruce, J., 2019, The Power Of Sustainability Modeling and the Importance of Methodology, Biochar & Bioenergy 2019, Fort Collins, CO.
22. Mendel, H., Chen, P., Marchese, A., Quinn, J.C., 2019, Optimization of Continuous Flow, Scalable, Low Energy Ultrasonic Harvesting for Microalgae, Algal Biomass Summit, Orland, FL.
23. Quinn, J.C., Cruce, J., Sommers, M., Beckstrom, B., Chen, P., DeRose, K., 2019, Current state and future direction of algal based biorefineries: An economic and life cycle perspective, Algal Biomass, Biofuels, and Bioproducts, Boulder, CO.
24. Huesemann, M., Edmundson, S., Yang, Z., Wang, T., Whiting, J., Copping, A., Freeman, M., Gao, S., Quinn, J.C., Greene, J., Yim, S., Chen, M., Gulden, J., Wood, G., Mumford, T., 2019, Development of the Ocean NOMAD (Nautical Off-shore Macroalgal Autonomous Device) for Low-Cost Production of Biomass for Foods, Feeds, and Fuels, Algal Biomass, Biofuels, and Bioproducts, Boulder, CO.
25. Greene, J., Huesemann, M., Gulden, J., Mumford, T., Wood, G., Quinn, J.C., 2019, Utilizing Techno-Economic Modeling to Identify Effective Methods to Reduce the Cost of Fuel Production from Macroalgae, Algal Biomass, Biofuels, and Bioproducts, Boulder, CO.

26. Chen, P.H., Venegas Jimenez, J.L., Rowland, S., Panczak, B., Quinn, J.C., Laurens, L., 2019, Impact of remediation of hydrothermal liquefaction aqueous phase on algal growth, *Algal Biomass, Biofuels, and Bioproducts*, Boulder, CO.
27. Beckstrom, B.D., Wilson, M.H., Crocker, M., Zeller, A., Quinn, J.C., 2019, Economic and life-cycle potential of microalgae derived bioplastics with fuel co-products, *Algal Biomass, Biofuels, and Bioproducts*, Boulder, CO.
28. Greene, J., Huseman, M., Gulden, J., Wood, G., Mumford, T., Quinn, J.C., 2019, Evaluating the Economic Viability of Offshore Macroalgae Production and the Impacts of Emerging Technologies and Downstream Processing Into Bioproducts, *World Aquaculture Society Triennial Meeting*, New Orleans, LA.
29. Summers, H.M., Sproul, E., Meaing, V., Eranki, P., Landis, A.E., Quinn, J.C., 2018, Process Modeling and Life Cycle Assessment of Rubber and Co-products from Guayule, *American Center for Life Cycle Assessment XVIII*, Fort Collins, CO.
30. Quiroz-Arita, C.E., Reardon, K.F., Pengyu, C., Chen, P., Quinn, J.C., Bradley, T.H., 2018, Sustainability Implications of Mixing Energy for the Industrial Scale Design of Cyanobacterial Cultivation in Open Raceway Ponds and Flat-Panel Photobioreactors, *American Center for Life Cycle Assessment XVIII*, Fort Collins, CO.
31. Quinn, J.C., Somers, M.D., 2018, Life Cycle Assessment of Various Carbon Delivery Methods to an Algal Growth System, *American Center for Life Cycle Assessment XVIII*, Fort Collins, CO.
32. Sproul, E., Barlow, J., Quinn, J.C., 2018, The Present Value of Greenhouse Gas Emissions in Life Cycle Assessment, *American Center for Life Cycle Assessment XVIII*, Fort Collins, CO.
33. Beckstrom, B., Wilson, M.H., Crocker, M., Zeller, A., Quinn, J.C., 2018, The cost of carbon sequestration through algae: an innovative biological approach, *Algal Biomass Summit*, Huston, TX.
34. Quiroz-Arita, Reardon, K.F., Chen, P., Quinn, J.C., Bradley, T.H., Implications of Mixing Energy at Photo-inhibiting Light Intensities for the Industrial Scale Design and Sustainability of Cyanobacterial Cultivation in Open Raceway Ponds and Flat-Panel Photobioreactors, *Algal Biomass Summit*, Huston, TX.
35. DeRose, K., Davis, R.W., Liu, F., Quinn, J.C., 2018, Optimizing the economics of low value algae: Processing based on algal composition and dealing with ash, *Algal Biomass Summit*, Huston, TX.
36. Chen, P., Quinn, J.C., 2018, Techno-economic analysis of potentially cost-prohibitive factors in algal biomass and biofuel costs, *Algal Biomass Summit*, Huston, TX.
37. Wilson, M.H., Groppo, J., Mohler, D., Kesner, S., Crocker, M., Quinn, J.C., 2018, Algae-Based Beneficial Re-use of Industrial Carbon Emissions: A Comparison of Algae Production Systems, *Algal Biomass Summit*, Huston, TX.
38. Huesemann, M., Edmindson, S., Yang, Z., Wang, T., Copping, A., Quinn, J.C., Gulden, J., Wood, G., Mumford, M., 2018, Development of the Ocean NOMAD (Nautical Off-shore Macroalgal Autonomous Device) for Low-Cost Production of Biomass for Foods, Feeds, and Fuels, *Algal Biomass Summit*, Huston, TX.
39. Quinn, J.C., 2018, Techno-Economical Assessment and Life Cycle Analysis in Food Production Processes, *3rd Annual Innovator Summit*, Davis, CA.
40. DeRose, K., Davis, R., Liu, F., Quinn, J.C., 2018, Environmental and Economic Impacts of Producing Alternative Fuels from High Productivity, Low Lipid Algae, *9th International Congress on Environmental Modelling and Software*, Fort Collins, CO.
41. Beckstrom, B., Quinn, J.C., 2018, Sustainability of Algal Biorefining: Potential of Integrating Bioplastic Production, *9th International Congress on Environmental Modelling and Software*, Fort Collins, CO.
42. Chen, P., Quinn, J.C., 2018, Sensitivity analysis of techno-economic factors in algal biofuel production, *9th International Congress on Environmental Modelling and Software*, Fort Collins, CO.

43. Summers, H., Sproul, E., Johnson, J., Quinn, J.C., 2018, Economic viability and environmental impact of processing arid crops in the American Southwest, 9th International Congress on Environmental Modelling and Software, Fort Collins, CO.
44. Aligata, A., Gómez, E.H., Tryner, J., Marchese, A., Quinn, J.C., 2018, Acoustic harvesting: implications of algal composition on performance, Algal Biomass, Biofuels, and Bioproducts, Seattle, WA.
45. DeRose, K., Davis, R., Liu, F., Quinn, J.C., 2018, Production of high valued products and biofuel through protein-targeted fermentation and HTL: Economic Viability, Environmental Impact and Process Optimization, Algal Biomass, Biofuels, and Bioproducts, Seattle, WA.
46. Davis, R.W., Monroe, E., Wu, B.C., Zivojnovich, M., Siccardi, A., Quinn, J.C., Lundquist, T., Benemann, J., 2018, Comparative assessment of suspended and attached microalgae cultivation for coupling water treatment and production of biobased commodities, Algal Biomass, Biofuels, and Bioproducts, Seattle, WA.
47. Vogel, B., Quinn, J.C., 2018, Techno-economic Feasibility of Small Modular Nuclear Reactors, American Society of Thermal and Fluids Engineers, Fort Lauderdale, FL.
48. Quinn, J.C., Trinko, D., Sproul, E., Asher, Z., Limb, B., Bradley, T.H., 2018, Economic Feasibility of Roadway Electrification, CERV, Park City, UT.
49. Sproul, E., Trinko, D., Asher, Z.D., Limb, B., Bradley, T.H., Quinn, J.C., 2018, Electrification of class 8 trucking: Economic analysis of in-motion wireless power transfer compared to long-range batteries, IEEE Transportation Electrification Conference and Expo, Long Beach, CA.
50. Sproul, E., Barlow, J., Quinn, J.C., 2017, Characterizing and Accounting for Temporal Impacts of Carbon Emissions, Environmental and Energy Resource Management Summit, Reston, VA.
51. Vogel, B., Quinn, J.C., 2017, Bottom-Up Capital Cost Estimation for Generation IV Small Modular Reactors, American Nuclear Society National Meeting, Washington D.C.
52. Compton, S., Cruce, J., Somers, M., Csakan, N., Lammers, P., Quinn, J.C., 2017, Development, Validation, and Application of an ORP and PBR Growth Model for Geographically Resolved Reactor Optimization, Resource Assessment, and Reliability Modeling, Algal Biomass Summit, Salt Lake City, UT.
53. Quinn, J.C., Huesemann, M., 2017, Economic Viability of Long Line Open Ocean Macroalgae Cultivation, Algal Biomass Summit, Salt Lake City, UT.
54. DeRose, K., DeMill, C., Davis, R.W., Quinn, J.C., 2017, Production of High Valued Products and Biofuel through Fermentation and HTL: Process Optimization for Seasonal Variability and Composition, Algal Biomass Summit, Salt Lake City, UT.
55. Aligata, A., Gómez, E.H., Tryner, J., Marchese, A., Quinn, J.C., 2017, Understanding acoustic harvesting: determination of microalgal acoustic properties, Algal Biomass Summit, Salt Lake City, UT.
56. Sproul, E., Barlow, J., Quinn, J.C., 2017, Development of Methods to Account for the Temporal Impacts of Greenhouse Gas Emissions, American Center for Life Cycle Assessment LCA XVII, Portsmouth, NH.
57. Quiroz-Arita, C.E., Bark, D., Dasi, L.P., Chen, P., Quinn, J.C., Bradley, T.H., 2017, Optimization of turbulent mixing and the motion of photoautotrophic cells in photobioreactors at high light intensity: implications for the net energy ratios of industrial cultivation systems, Algal Biomass, Biofuels, and Bioproducts, Miami, FL.
58. Davis, R.W., Siccardi, A., Zivojnovich, M., Quinn, J.C., Pate, R.C., Wu, B.C., Woertz, I., Lundquist, T., Benemann, J., 2017, Comparative Assessment of Suspended and Benthic Microalgae Cultivation Systems for Wastewater Treatment and Production of Biobased Commodities, Algal Biomass, Biofuels, and Bioproducts, Miami, FL.
59. Compton, S., Lammers, P., Quinn, J.C., 2017, A validated model of temperature and algal growth in outdoor algal growth systems for multiple species, Algal Biomass, Biofuels, and Bioproducts, Miami, FL, June 2017
60. Somers, M., Lammers, P., Quinn, J.C., Sustainability of CO₂ supplementation in microalgae

- cultivation, Algal Biomass, Biofuels, and Bioproducts, Miami, FL.
61. DeRose, K., DeMill, C., Davis, R.W., Quinn, J.C., 2017, Production of high valued products and biofuel through fermentation and HTL: Environmental impact and Economic Viability, Algal Biomass, Biofuels, and Bioproducts, Miami, FL.
 62. Hess, D., Torres, E., Napan, K., McNeil, B., Quinn, J.C., 2017, Impact and characterization of heavy metals inherent in waste streams on microalgae growth and lipid production, Algal Biomass, Biofuels, and Bioproducts, Miami, FL.
 63. Aligata, A., Tryner, J., Marchese, A., Quinn, J.C., 2017, Acoustic harvesting of algal biomass: Species and compositional impacts, Algal Biomass, Biofuels, and Bioproducts, Miami, FL.
 64. Jena, U., McCurdy, A.T., Summers, H., Ledbetter, R.N., Seefeldt, L., Quinn, J.C., Hoekman, S.K., 2016, Co-solvent Hydrothermal Liquefaction of Microbial Yeast Biomass, AIChE, San Francisco, CA.
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 71. Quinn, J.C., 2016, Integration of Experimental Systems with Engineering Process Modeling for Sustainability Assessment, Algal Biomass, Biofuels, and Bioproducts. San Diego, CA.
 72. Quiroz Arita, C.E., Bark, D., Dasi, L.P., Quinn, J.C., Bradley, T.H., Reardon, K.F., 2016, Scalability of Photobioreactors: Incorporating Langrangian Fluid Mechanics in Growth Models, Algal Biomass, Biofuels, and Bioproducts. San Diego, CA.
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95. Quinn, J.C., Morgan, M., Vaughn, T., McCurdy, A., Seefeldt, L., Bugbee, B., Marchese, A., 2015, Combustion of biodiesel derived from *Nannochloropsis salina* and *Cryptococcus curvatus*: Compression ignition engine particulate and gaseous emissions, Algal Biomass, Biofuels, and Bioproducts, San Diego, CA.
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- Environmental Impact of Electrification of Roadways for Wireless Power Transfer, CERV, Park City, UT.
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 108. Quinn, J.C., Shurtz, B., Wood, B., 2013, Potential Effects of the Integration of Microalgae with Wastewater: Water Footprint and Resource Requirements, 2013 International Biomass Conference & Expo, Minneapolis, MN.
 109. Quinn, J.C., Catton, K., Johnson, S., Bradley, T., 2012, GIS Evaluation of Microalgae Productivity Including Resource Assessment, Algal Biomass Summit, Denver, CO.
 110. Batan, L., Quinn, J.C., Bradley, T., 2011, A Current Evaluation of Life Cycle Greenhouse Gas Emissions, Land Use and Environmental Impact from Large Scale Production of Biofuels from Microalgae, World Congress on Industrial Biotechnology and Bioprocessing, Toronto, Canada.
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 113. Quinn, J., Butler, J., Bradley, T., 2010, Solix Biofuels-The Commercialization of Microalgae, Biotechnology Industry Organization 2010 Pacific Rim Summit, Waikiki, HI.
 114. Quinn, J., Bradley, T., 2010, Microalgae Biomass Production Potential in the US, ECI: CO2 Summit: Technology and Opportunity, Vail, CO.
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Refereed Conference Publications:

1. Quiroz, D., Beckstrom, B.D., Wilson, M.H., Crocker, M., Zeller, A., Quinn, J.C., 2019, Microalgal Proteins to Bioplastics: Techno-Economic Analysis and Life Cycle Assessment, Bioenergy Sustainability Conference, Nashville, TN.
2. DeRose, K., Davis, R.W., Quinn, J.C., 2019, Integrated techno-economic and life cycle assessment of the conversion of distiller's grains to renewable fuels and higher value protein products, International Symposium on Sustainable Systems and Technology, Portland, OR.
3. Sproul, E., Summers, H., Quinn, J.C., 2019, Techno-Economic and Environmental Impact Analysis of Guayule and Guar, International Symposium on Sustainable Systems and Technology, Portland, OR.
4. Mendel, H., Chen, P., Marchese, A., Quinn, J.C., 2019, Optimization of Continuous Flow, Scalable, Low Energy Ultrasonic Harvesting for Microalgae, Algal Biomass, Biofuels, and Bioproducts, Boulder, CO.
5. DeRose, K., Davis, R.W., Liu, F., Quinn, J.C., 2019, Evaluating fuel production opportunities for low lipid algae through integrated growth and production models, Algal Biomass, Biofuels, and Bioproducts, Boulder, CO.
6. Beckstrom, B.D., Wilson, M.H., Crocker, M., Zeller, A., Quinn, J.C., 2018, Carbon Sequestration in an Algae Biorefinery Through Bio-Plastic Production, American Center for Life Cycle Assessment XVIII, Fort Collins, CO.
7. Greene, J., Huesemann, M.H., Gulden, J., Mumford, T., Wood, G., Quinn, J.C., 2018, Environmental Impact of a Macroalgae Biorefinery, American Center for Life Cycle Assessment XVIII, Fort Collins, CO.
8. Mealing, V., Summers, H.M., Eranki, P., Sproul, E., Landis, A.E., Quinn, J.C., 2018, Life Cycle Assessment of Cultivating Guar in the American Southwest, American Center for Life Cycle Assessment XVIII, Fort Collins, CO.
9. Sproul, E., Trinko, D., Asher, Z.D., Zane, R., Bradley, T.H., Quinn, J.C., 2018, Operational Emissions and Energy of Long-Haul Trucks Using In-Motion Wireless Power Transfer, American Center for Life Cycle Assessment XVIII, Fort Collins, CO.
10. Quinn, J.C., Markham, J., Somers, M.D., Cruce, J.R., Davis, R., Lammers, P.J., 2018, TEA and LCA of corn stover-derived cellulosic sugars as feedstock for mixotrophic microalgae cultivation, Algal Biomass Summit, Huston, TX.
11. Cruce, J.R., Quinn, J.C., 2018, Economic viability of multiple algal biorefining pathways and the impact of public policies, Algal Biomass Summit, Huston, TX.
12. Greene, J., Huesemann, M., Mumford, T., Gulden, J., Quinn, J.C., 2018, Environmental Impacts of Producing BioFuels from Long-Line Cultivated Macroalgae, Algal Biomass Summit, Huston, TX.
13. Aligata, A., Mendel, H., Tryner, J., Quinn, J.C., Marchese, A., 2018, Acoustic harvesting: implications of algal composition on performance, Algal Biomass Summit, Huston, TX.
14. Wendt, L.M., Aston, J.E., Wahlen, B.D., Walton, M., Hess, D., Quinn, J.C., 2018, Management of ash in benthic microalgae, Algal Biomass Summit, Huston, TX.
15. Quiros-Arita, C., Reardon, K.F., Chen, P., Quinn, J.C., Bradley, T.H., 2018, Implications of Mixing Energy at Photo-inhibiting Light Intensities for the Industrial Scale Design and Sustainability of Cyanobacterial Cultivation in Open Raceway Ponds and Flat-Panel Photobioreactors, Algal Biomass Summit, Huston, TX.
16. Quinn, J.C., Summers, H., Vaughn, T., Marchese, A.J. 2018, Particulate and Gaseous Emissions from the Combustion of Methyl Ester Biodiesel Derived from Microbial Sources, 37th International Symposium on Combustion, Dublin, Ireland.
17. Huesemann, M., Edmundson, S., Yang, Z., Wang, T., Copping, A., Quinn, J.C., Gulden, J., Wood, G., Mumford, T., 2018, Development of the Ocean NOMAD (Nautical Off-shore

- Macroalgal Autonomous Device) for Low-Cost Production of Biomass for Foods, Feeds, and Fuels, Algal Biomass, Biofuels, and Bioproducts, Seattle, WA
18. Beckstrom, B., Wilson, M.H., Crocker, M., Zeller, A., Quinn, J.C., 2018, Sustainability of Algal Biorefining: Potential of Integrating Bioplastic Production, Algal Biomass, Biofuels and Bioproducts, Seattle, WA
 19. Chen, P., Davis, R., Laurens, L., Quinn, J.C., 2018, Defining operational requirements for the economic viability of biomass production for algal biorefining, Algal Biomass, Biofuels and Bioproducts, Seattle, WA
 20. Compton, S., Lammer, P., Quinn, J.C., 2018, A dynamic model of mixotrophic and autotrophic algal cultivation systems: validation and capabilities, Algal Biomass, Biofuels and Bioproducts, Seattle, WA
 21. Cruce, J., Somers, M.D., Beckstrom, B., Chen, P., Quinn, J.C., 2018, A review and harmonization of techno-economic and lifecycle assessments of algal biofuel production, Algal Biomass, Biofuels and Bioproducts, Seattle, WA
 22. Cruse, J., DeRose, K., Markham, J., Davis, R., Quinn, J.C., 2018, Optimizing the processing path for sustainable algae biorefining: Techno-economic assessment and Life cycle assessment of multiple pathways, Algal Biomass, Biofuels and Bioproducts, Seattle, WA
 23. Hess, D., Wendt, L.M., Wahlen, B.D., Aston, J.E., Hu, H., Quinn, J.C., 2018, A Technoeconomic Analysis: The Impact of Ash Content and Ash Removal on Microalgae Biofuel Production and Cost, Algal Biomass, Biofuels and Bioproducts, Seattle, WA
 24. Cruce, J.R., Markham, J., Davis, R., Lammers, P., Quinn, J.C., 2107, Real-world Performance Scenarios and Economics for Hydrothermal Liquefaction of Algae, 2017, Algal Biomass Summit, Salt Lake City, UT.
 25. Compton, S., Lammers, P., Quinn, J.C., 2017, A Validated model of Mixotrophic Algal Growth in Photobioreactors, Algal Biomass Summit, Salt Lake City, UT.
 26. Bush, M., Aligata, A., Quinn, J.C., 2017, Potential for Remediation of Agricultural Runoff with Microalgae, Algal Biomass Summit, Salt Lake City, UT.
 27. Hess, D., Torres, E., Napan, K., McNeil, B., Quinn, J.C., 2017, Impact of Heavy Metals on Microalgae Growth and Conversion into Biofuel and Biogas Production: Bioremediation and Fuel Gas Integration Potential, Algal Biomass Summit, Salt Lake City, UT.
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 29. Compton, S., Cruce, J., Somers, M., Csakan, N., Lammers, P., Quinn, J.C., 2017, Microalgae as a Solution to Carbon Mitigation and Remediation of Contaminated Waters, NAE Global Grand Challenges, Washington D.C.
 30. Hess, D., Torres, E., McNeil, B., Quinn, J.C., 2017, Capabilities of Microalgae to Remediate Inorganic Contaminants in Polluted Water, NAE Global Grand Challenges, Washington D.C.
 31. Aligata, A., Tryner, J., Marchese, A., Quinn, J.C., 2017, Providing Access to Clean Water Through Low Cost Acoustic Processing, NAE Global Grand Challenges, Washington D.C.
 32. Cruce, J., Quinn, J.C., 2017, Sustainability and economic analysis of emerging renewable biofuel production systems, NAE Global Grand Challenges, Washington D.C.
 33. Somers, M., Quinn, J.C., 2017, Sustainability of microalgae cultivation as a CO₂ mitigation strategy, NAE Global Grand Challenges, Washington D.C.
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 35. Cruce, J.R., Somers, M.D., Compton, S., Lammers, P., Quinn, J.C., 2016, Sustainability Assessment of a Photobioreactor-based Biorefinery, Algal Biomass Summit, Phoenix, AZ.
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44. Edlund, A., Jones, J., Zhang, X., Hugie, M., Lewis, R., Quinn, J.C., 2016, Synthetic Spider Silk Production: Techno-Economics & Life Cycle Analysis, 2016 Spring Materials Research Society Meeting & Expo, Tucson, AZ.
45. Quinn, J.C., Davis, R., 2015, Environmental Impact Assessment of the Fractionation of Microalgae for the Production of Fuels and Products, Algal Biomass Summit, Washington D.C.
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52. Quinn, J.C., Bennion, E., Ablevor, F., Moses, J., Ginosar, D., 2015, Life cycle comparison of alternative thermochemical biofuel production pathways: Pyrolysis and Hydrothermal Liquefaction, Algal Biomass, Biofuels, and Bioproducts, San Diego, CA.
53. Nelson, J.A., Edlund, A., Quinn, J.C., Bugbee, B., 2015, Post-harvest degradation of high-value algal lipids and proteins, Algal Biomass, Biofuels, and Bioproducts, San Diego, CA.
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- biodiesel derived from microbes, NBB National Biodiesel Conference, Fort Worth, TX.
58. Summers, H., Ledbetter, R., McCurdy, A., Seefeldt, L., Jena, U., Hoekman, K., Quinn, J.C., 2015, Techno-economic and life cycle analysis: waste lactose to biofuel, NBB National Biodiesel Conference, Fort Worth, TX.
 59. Quinn, J.C., Moody, J., Satish, A., Smith, T., Sims, R., 2014, Combined techno-economic and life cycle Assessment of a microalgae biofilm based biorefinery: Multi-pathway assessment, Algal Biomass Summit, San Diego, CA.
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