

Jason C. Quinn

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Professional Experience:

- CEO Sustainability Science LCC, (January 2019-Present), Fort Collins, CO
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

Refereed Journal Articles:

1. Cui, Z., Greene, J.M., Cheng, F., Quinn, J.C., Jena, U., Brewer, C.B., (2020), Co-Hydrothermal Liquefaction of Wastewater-Grown Algae and Crude Glycerol: A Novel Strategy and Techno-Economic Analysis for Bio-crude Oil Recovery and Upgrading, *Algal Research*, 51, 102077
2. Baral, N.R., Asher, Z.D., Trinko, D., Sproul, E., Quiroz-Arita, C., Quinn, J.C., Bradley, T.H., 2021, Biomass Feedstock Transport Using Fuel Cell and Battery Electric Trucks Improves Lifecycle Metrics of Biofuel Sustainability and Economy, *Journal of Cleaner Production*, 279, 123593
3. Greene, J., Gulden, J., Wood, G., Huesemann, M., Quinn, J.C., 2020, Techno-Economic and Life Cycle Assessment of a Novel Offshore Macroalgae Biorefinery, *Algal Research*, 51, 102032
4. Crocker, M., Wilson, M.h., Shea, A., Groppo, J., Crofcheck, C., Quiroz, D., Quinn, J.C., Algae-based Beneficial Re-use of Carbon Emissions Using a Novel Photobioreactor: A Techno-economic and Life Cycle Analysis, *Bioenergy Research* (in press)
5. Sproul, E., Summers, H.M., Seavert, C., Robbs, J., Khanal, S., Mealing, V., Landis, A.E., Fan, N., Sun, O., Quinn, J.C., 2020, Integrated Techno-Economic and Environmental Analysis of Guayule Rubber Production, *Journal of Cleaner Production* (IF:7.051 C:N/A)
6. 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)
7. 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)
8. 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)
9. 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)
10. 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)

11. 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)
12. 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)
13. 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)
14. 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)
15. 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)
16. 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)
17. 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)
18. 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)
19. 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)
20. 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)
21. Vegel, 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)
22. 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)
23. 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)
24. 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)
25. 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.
26. 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)
27. 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)
28. 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)
29. 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)
 30. 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)
 31. 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)
 32. 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)
 33. 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)
 34. 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)
 35. 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)
 36. 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)
 37. 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)
 38. 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)
 39. 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)
 40. 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)
 41. 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)
 42. 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)
 43. 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)
 44. 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)
 45. 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)
 46. 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 Technol*, 117, 164-71. (IF:6.102, C:114)
47. 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)
 48. 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)
 49. 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)
 50. Quinn, J., de Winter, L., Bradley, T., 2011, Microalgae Bulk Growth Model with Application to Industrial Scale System, *Bioresour Technol*, 102, 5083-5092. (IF:6.102, C:134)
 51. 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 Journal Articles in review/progress:

1. Zuniga Vazquez, D.A., Sun, O., Sproul, E., Summers, H.M., Quinn, J.C., Khanal, S., Gutierrez, P., Mealing, V., Landis, A., Seavert, C., Teegerstrom, T., Evancho, B., Integrating Environmental and Social Impacts into Optimal Design of Guayule and Guar Supply Chains, *Computers and Chemical Engineering* (in review)
2. Compton, S., Lammers, P., Quinn, J.C., Bulk growth model of algal productivity in various outdoor cultivation platforms, *Algal Research*, (in review)
3. Quinn, J.C., Vaughn, T., McCurdy, A.T., Morgan, M.R., Seefeldt, L.C., Nelson, J., Bugbee, B., Marchese, A.J., Compression Ignition Engine Particulate and Gaseous Emissions from the Combustion of Biodiesel Derived from Microbial Sources, *Fuels* (in prep)
4. Compton, S., A model based assessment of U.S. algae biomass potential in open ponds considerate of practical constraints, *Algal Research* (in prep)
5. Cruce et al. Algal review, *Algal Research* (in review)
6. Aerial D Belk, M.S.; Toni L Duarte; Casey Quinn; David A Coil; Keith E Belk; Jonathan A Eisen; Jason C Quinn; Jennifer N Martin; Xiang Yang; Jessica L Metcalf, Air versus water chilling of chicken: a pilot study of quality, shelf-life, microbial ecology, and economics, *Microbiome* (in review)
7. Summers, H., Sproul, E., Seavert, C., Angadi, S., Robbs, J., Khanal, S., Gutierrez, P., Teegerstrom, T., Zuniga, D.A., Fan, N., Quinn, J.C., Economic and Environmental Analyses of Incorporating Guar into the American Southwest, *Resources, Conservation & Recycling* (in review)
8. Antonanzas, J., Quinn, J.C., Net environmental impact of the PV industry in the period 2000-2025, *Solar Energy*, (in review)
9. Summers, H., Sproul, E., Quinn, J.C., Green is not Green: Environmental impact of *Cannibus prodcutin* in the US, *Nature Sustainability* (in review)

Refereed Proceedings/Transactions:

Refereed Invited Conference Presentations:

1. Quinn, J.C., Horesh, N., Trinko, D., Limb, B., Quinn, C., Bradley, T.H., Zane, R., 2020, The future of transportation, Institute for Science & Policy, Denver Museum of Nature & Science, Virtual Event.

¹ Co-authored

2. Zimmerle, D., Quinn, C., Quinn, J.C., Clark, M., Volckens, J., 2020, Can Modifications Make Electric Pressure Cookers 'Minigrid Friendly?', 2020 IEEE Global Humanitarian Technology Conference (GHTC) - Affordable & Clean Energy (SDG7).
3. Summers, H. Sproul, E. Quinn, J., 2020, Green isn't Green: The Environmental Burden of Indoor Cannabis Production, Institute of Cannabis Research Conference 2020, Pueblo, CO-Virtual Event
4. Quinn, J.C., DeRose, K., Monroe, E., Davis, R.W., 2020, Mitigating harmful algae blooms: Translating pilot scale scientific discoveries into actionable solutions at market scale, American Chemical Society Fall 2020 meeting and Expo, Virtual Event.
5. Quinn, J.C., Sproul, E., Summers, H.M., Seavert, C., Gutierrez, P., Teegerstrom, T., Vazquez, D., Robbs, J., Shanal, S., Fan, N., Sun, O., Moreno, P.M., 2020, Integrated economic and environmental analysis of emerging industrial crops in arid regions of the southwest United States, American Chemical Society Fall 2020 meeting and Expo, Virtual Event.
6. 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, Virtual Event.
7. 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, Virtual Event.
8. 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, Virtual Event.
9. 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, Virtual Event.
10. 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, Virtual Event.
11. 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, Virtual Event.
12. 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, Virtual Event.
13. Somers, M.D., Quinn, J.C., 2019, The economics of carbon delivery to an algal biorefinery, Algal Biomass Summit, Orland, FL.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. Summers, H., Browning, D., Quinn, J.C., 2019, Environmental Impacts of Colorado Cannabis Industry, International Symposium on Sustainable Systems and Technology, Portland, OR.
 21. 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.
 22. 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.
 23. 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.
 24. 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.
 25. 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.
 26. 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.
 27. 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.
 28. 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.
 29. 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.
 30. 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.
 31. 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.
 32. 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.
 33. 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.
 34. 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.
 35. 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.
 36. 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.

37. 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.
38. 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.
39. 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.
40. Quinn, J.C., 2018, Techno-Economical Assessment and Life Cycle Analysis in Food Production Processes, 3rd Annual Innovator Summit, Davis, CA.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.
46. 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.
47. 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.
48. Veigel, B., Quinn, J.C., 2018, Techno-economic Feasibility of Small Modular Nuclear Reactors, American Society of Thermal and Fluids Engineers, Fort Lauderdale, FL.
49. Quinn, J.C., Trinko, D., Sproul, E., Asher, Z., Limb, B., Bradley, T.H., 2018, Economic Feasibility of Roadway Electrification, CERV, Park City, UT.
50. 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.
51. 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.
52. Veigel, B., Quinn, J.C., 2017, Bottom-Up Capital Cost Estimation for Generation IV Small Modular Reactors, American Nuclear Society National Meeting, Washington D.C.
53. 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.
54. Quinn, J.C., Huesemann, M., 2017, Economic Viability of Long Line Open Ocean Macroalgal Cultivation, Algal Biomass Summit, Salt Lake City, UT.

55. 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.
56. 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.
57. 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.
58. 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.
59. 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.
60. 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
61. Somers, M., Lammers, P., Quinn, J.C., Sustainability of CO₂ supplementation in microalgae cultivation, Algal Biomass, Biofuels, and Bioproducts, Miami, FL.
62. 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.
63. 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.
64. 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.
65. 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.
66. Limb, B.J., Bradley T.H., Zane, R., Quinn, J.C., 2016, Economic and Environmental Feasibility, Architecture Optimization, and Grid Impact of Dynamic Charging of Electric Vehicles using Wireless Power Transfer, The 6th Hybrid and Electric Vehicle Conference, London, UK.
67. Beal, C.M., Davidson, F.T., Webber, M.E., Quinn, J.C., 2016, Integration of Flare Gas with an Algal Biorefinery for Fuel and Protein Production: An Energy Assessment, Algal Biomass Summit, Phoenix, AZ.
68. Barlow, J., McNeil, B., Torres, E., Hess, D., Sims, R., Quinn, J.C., 2016, Effect of Produced Water Integration into Microalgae Cultivation, Algal Biomass Summit, Phoenix, AZ.
69. Torres, E., Hess, D., McNeil, B., Quinn, J.C., 2016, Sorption and Productivity Impact of Heavy Metals on Microalgae, Algal Biomass Summit, Phoenix, AZ.
70. Pate, R.C., Drennen, T., Davis, R., Wu, B., Quinn, J.C., DeMill, C., Zivojnovich, M., Adey, W., Slahan, S., Siccardi, A., 2016, Updated Assessment of the Potential for Fuel Production from Polyculture Algal Turf, Algal Biomass Summit, Phoenix, AZ.
71. Limb, B.J., Bradley T.H., Zane, R., Quinn, J.C., 2016, Economic Feasibility and Infrastructure Optimization of In-Motion Charging of Electric Vehicles Using Wireless Power Transfer, IEEE PELS Workshop on Emerging Technologies: Wireless Power Transfer (2016 WoW), Knoxville, TN.
72. Quinn, J.C., 2016, Integration of Experimental Systems with Engineering Process Modeling for

- Sustainability Assessment, Algal Biomass, Biofuels, and Bioproducts. San Diego, CA.
73. Quiroz Arita, C.E., Bark, D., Dasi, L.P., Quinn, J.C., Bradley, T.H., Reardon, K.F., 2016, Scalability of Photobioreactors: Incorporating Lagrangian Fluid Mechanics in Growth Models, Algal Biomass, Biofuels, and Bioproducts. San Diego, CA.
 74. Pate, R., Wu, B., Davis, R., George, A., Pacheco, P., Drennen, T., Fogleman, B., Jeffers, B., Adey, W., Calahan, D., Zivojnovich, M., Siccardi, A., Quinn, J.C., 2016, Updated Project Status and Feasibility Assessment of Polyculture Algal Turf to Fuels, Algal Biomass, Biofuels, and Bioproducts. San Diego, CA.
 75. Beal, C.M., Davidson, F.T., Webber, M.E., Quinn, J.C., 2016, Energy Assessment of the Integration of an Algal Biorefinery with Flare gas, Algal Biomass, Biofuels, and Bioproducts. San Diego, CA.
 76. Barlow, J., Sims, R.C., Quinn, J.C., 2016, Life-cycle and techno-economic analysis of hydrothermal liquefaction of algal biofilm biomass, Algal Biomass, Biofuels, and Bioproducts. San Diego, CA.
 77. Hess, D., Napan, K., McNeil, B., Quinn, J.C., 2016, Impact and scalability of utilizing coal flue gas in microalgal biofuel and biogas production, Algal Biomass, Biofuels, and Bioproducts. San Diego, CA.
 78. McNeil, B., Quinn, J.C., 2016, Experimental Evaluation of Integrating Produced Water with Microalgae Cultivation, Biofuels, and Bioproducts. San Diego, CA.
 79. Limb, B.J. Quinn, J.C., 2016, Electric Highways, ideacity 2016, Toronto, ON, Canada.
 80. Vogel, B., Quinn, J.C., 2016, Techno-Economic Assessment of the Factory Production of Small Modular Reactors, ANS Annual Meeting, New Orleans, LA.
 81. Limb, B.J., Bradley T.H., Zane, R., Quinn, J.C., 2016, Infrastructure Optimization and Economic Feasibility of In-Motion Wireless Power Transfer, IEEE Transportation Electrification Conference, Dearborn, MI.
 82. Hess, D., Napan, K., McNeil, B., Quinn, J.C., 2016, Environmental Impact and Scalability of Utilizing Coal Fired Power Plant Flue Gas in Microalgal Biofuel Production, TechConnect World Innovation, Washington D.C.
 83. Edlund, A.M., Jones, J., Lewis, R., Quinn, J.C., 2016, The Economic Viability and Environmental Impact of the Industrial Fabrication of Recombinant Spider silk Protein via E. coli, TechConnect World Innovation, Washington D.C.
 84. Quinn, J.C., Limb, B.J., Zane, R., Bradley, T.H., 2016, Feasibility of Roadway Electrification Using Wireless Power Transfer, Conference on Electric Roads and Vehicles, Logan, UT.
 85. Quinn, J.C., 2016, Integration of Experimental Systems with Engineering Process Modeling for Sustainability Assessment of Microalgal Biofuel Systems, 107th Annual AOCS Meeting & Expo, Salt Lake City, UT.
 86. Barlow, J., Quinn, J.C., Sims, R.C., 2016, Hydrothermal liquefaction of algae from a biofilm cultivation system, Institute of Biological Engineering Annual Meeting, Greenville, SC.
 87. Vogel, B., Quinn, J.C., 2015, Impact of Regulatory Fee Structures on the Economic Viability of Small Modular Reactors, American Nuclear Society National Meeting, Washington D.C.
 88. Quinn, J.C., Hoffman, J., Pate, R., Drennen, T., Fogleman, B., Davis, R., George, A., Wu, B., Pacheco, P., Zivojnovich, M., 2015, Economic Feasibility and Life Cycle Impact of a Turf-Scrubber Based Biorefinery, Algal Biomass Summit, Washington D.C.
 89. Pate, R., Malczynski, L., Fogleman, B., Davis, R., George, A., Wu, B., Lane, T., Paap, S., Pacheco, P., Quinn, J.C., Zivojnovich, M., 2015, Feasibility assessment of producing biofuels and co-products from polyculture algal turf using biochemical and hydrothermal liquefaction processing options, Algal Biomass Summit, Washington D.C.
 90. Hess, D., McNeil, B., Napan, K., Quinn, J.C., 2015, Effect of heavy metal contamination on microalgae growth and conversion to biofuel through acid catalyzed conversion, Algal Biomass Summit, Washington D.C.
 91. Torres, E., Hess, D., McNeil, B., Quinn, J.C., 2015, Remediation of heavy metals by microalgae:

- Productivity impact and end fate of contaminants, Algal Biomass Summit, Washington D.C.
92. Quiroz Arita, C.E., Dasi, L.P., Quinn, J.C., Bradley, T.H., 2015, Combined algae-based biofuels and wastewater facilities systems modeled by computational fluid dynamics (CFD) approaches, Algal Biomass Summit, Washington D.C.
 93. Limb, B., Pantic, Z., Barr, P., Zane, R., Quinn, J.C., 2015, Feasibility of Wireless Power Transfer for Electrification of Transportation: Techno-Economics and Life Cycle Assessment, IEEE-Technologies for Sustainability, Ogden, UT.
 94. Quiroz Arita, C.E., Dasi, L.P., Quinn, J.C., Bradley, T.H., Combined algae-based biofuels and wastewater facilities systems modeled by computational fluid dynamics (CFD) approaches, Algal Biomass, Biofuels, and Bioproducts, San Diego, CA.
 95. Hess, D., Napan, K., McNeil, B., Quinn, J.C., 2015, Impact of heavy metal contamination on biofuel production through acid catalysed conversion, Algal Biomass, Biofuels, and Bioproducts, San Diego, CA, June 2015
 96. 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.
 97. Quinn, J.C., Limb, B., Pantic, Z., Barr, P., Zane, R., 2015, Techno-Economic Feasibility and Environmental Impact of Wireless Power Transfer Roadway Electrification, IEEE-Wireless Power Transfer, Boulder, CO.
 98. Quinn, J.C., Pantic, Z., Barr, P., Zane, R., 2015, Techno-Economic Assessment and Environmental Impact of Electrification of Roadways for Wireless Power Transfer, CERV, Park City, UT.
 99. Napan, K., McNeil, B., Wood, B., Quinn, J.C., 2014, Effect and end fate of heavy metals from flue gas integration with microalgae growth: large-scale impacts, Algal Biomass Summit, San Diego, CA.
 100. Pate, R., Wu, B., Davis, R., Lane, T., George, A., Horvath, S., Adey, W., Calahan, D., Zivojnovich, M., Hoffman, J., Quinn, J.C., 2014, Algal Turf to Fuel, Algal Biomass Summit, San Diego, CA.
 101. Quinn, J.C., Shurtz, B., Wood, B., 2014, Multi-pathway assessment of resource requirements for large-scale microalgae biofuel production, Algal Biomass, Biofuels, and Bioproducts, Santa Fe, NM.
 102. Napan, K., Butler, R., Sims, R., Wood, B., Quinn, J.C., 2014, Environmental impact and effects of heavy metals on microalgae productivity from integration with flue gas, Algal Biomass, Biofuels, and Bioproducts, Santa Fe, NM.
 103. Quinn, J.C., Moody, J., Sathish, A., Smith, T., Sims, R., 2014, Techno-economic Analysis and Life Cycle Assessment of Biofuel and Electricity Derived from Wastewater Algae, World Congress on Industrial Biotechnology, Philadelphia, PA.
 104. Moody, J., Sathish, A., Smith, T., Sims, R., Quinn, J.C., 2014, Techno-economic and Life Cycle Assessment of Wastewater Algae for Electricity and Fuel Production, 2014 Annual meeting: Institute of Biological Engineering, Lexington, KY.
 105. Moody, J., Sathish, A., Smith, T., Sims, R., Quinn, J.C., 2014, Life Cycle Assessment and Techno-Economic Analysis of Wastewater Algae for Electric and Fuel Production, International Biomass Conference and Expo, Orlando, FL.
 106. Moody, J., McGinty, C., Wood, B., Quinn, J.C., 2013, Microalgae Scalability: A Global Assessment of Productivity Potential and Resource Availability, Algal Biomass Summit, Orlando, FL.
 107. Quinn, J.C., Wills, R., McCurdy, A., Pease, L., Seefeldt, L., 2013, Low Energy, Wet Solvent Extraction, Algal Biomass Summit, Orlando, FL.
 108. Moody, J., McGinty, C., Wood, B., Quinn, J.C., 2013, Global Evaluation of Biofuel Potential from Microalgae Cultivated in Photobioreactors, Algal Biomass, Biofuels, &

Bioproducts, Toronto, Canada.

109. 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.
110. Quinn, J.C., Catton, K., Johnson, S., Bradley, T., 2012, GIS Evaluation of Microalgae Productivity Including Resource Assessment, Algal Biomass Summit, Denver, CO.
111. 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.
112. Quinn, J., Catton, K., Wagner, N., Bradley, T., 2011, Current Productivity Potential and GIS Evaluation of Microalgae Biofuel in the US, Algal Biomass Summit, Minneapolis, MN.
113. Quinn, J., Catton, K., Wagner, N., Bradley, T., 2010, Microalgae Bulk Growth Model and it's Applications, Biotechnology Industry Organization 2010 Pacific Rim Summit, Waikiki, HI.
114. Quinn, J., Butler, J., Bradley, T., 2010, Solix Biofuels-The Commercialization of Microalgae, Biotechnology Industry Organization 2010 Pacific Rim Summit, Waikiki, HI.
115. Quinn, J., Bradley, T., 2010, Microalgae Biomass Production Potential in the US, ECI: CO2 Summit: Technology and Opportunity, Vail, CO.
116. Batan, L., Quinn, J., Willson, B., Bradley, T., 2010, Net Energy and Greenhouse Gas Emissions of Biodiesel Derived from Microalgae, ECI: CO2 Summit: Technology and Opportunity, Vail, CO.

Refereed Conference Publications:

1. Khanal, S., Seavert, C., Gutierrez, P., Teegerstrom, T., Quinn, J.C., Summers, H.M., Sproul, E., Mealing, V., Landis, A., Blayney, D., Apar, G.C., 2020, Economic Impacts of Alternative Crops Porcution: Guar and Guayule in the Southwest, Agricultural and Applied Economic Association, Virtual event.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.

10. 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.
11. 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.
12. 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.
13. Greene, J., Huessemann, M., Mumford, T., Gulden, J., Quinn, J.C., 2018, Environmental Impacts of Producing BioFuels from Long-Line Cultivated Macroalgae, Algal Biomass Summit, Huston, TX.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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
19. 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
20. 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
21. 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
22. 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
23. Cruce, 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
24. 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
25. 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.
26. Compton, S., Lammers, P., Quinn, J.C., 2017, A Validated model of Mixotrophic Algal Growth in Photobioreactors, Algal Biomass Summit, Salt Lake City, UT.
27. Bush, M., Aligata, A., Quinn, J.C., 2017, Potential for Remediation of Agricultural Runoff with

Microalgae, Algal Biomass Summit, Salt Lake City, UT.

28. 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.
29. Beckstrom, B.D., Cruce, J.R., Somers, M.D., Chen, P.H., Quinn, J.C., 2017, Life-cycle and Techno-Economic Harmonization of Reported Algal Biofuel Process Results, Algal Biomass Summit, Salt Lake City, UT.
30. 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.
31. 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.
32. 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.
33. Cruce, J., Quinn, J.C., 2017, Sustainability and economic analysis of emerging renewable biofuel production systems, NAE Global Grand Challenges, Washington D.C.
34. Somers, M., Quinn, J.C., 2017, Sustainability of microalgae cultivation as a CO₂ mitigation strategy, NAE Global Grand Challenges, Washington D.C.
35. Cruce, J.R., Somers, M., Compton, S., Markham, J., Davis, R., Csakan, N., Lammers, P., Quinn, J.C., 2017, Sustainability Assessment of a Mixotrophic based Biorefinery: Life Cycle and Techno-economics, Algal Biomass, Biofuels, and Bioproducts, Miami, FL.
36. 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.
37. Hess, D., Napan, K., McNeil, B., Quinn, J.C., 2016, Impact of Heavy Metal Contamination on Biofuel and Biogas Production through Multiple Conversion Pathways, Algal Biomass Summit, Phoenix, AZ.
38. Compton, S., Cruce, J., Somers, M., Csakan, N., Lammers, P., Quinn, J.C., 2016, Thermal Modeling of Mixotrophic Algal Photobioreactors, Algal Biomass Summit, Phoenix, AZ.
39. DeMill, C., Hoffman, J., Davis, R., Pate, R.C., Quinn, J.C., 2016, Sustainability Assessment of an Algal Turf Biorefinery: Integrated TEA and LCA, Algal Biomass Summit, Phoenix, AZ.
40. Barlow, J., Quinn, J.C., 2016, Sustainability methodology to reflect incorporate the time value of greenhouse gas emissions, Algal Biomass Summit, Phoenix, AZ.
41. Torres, E., Hess, D., McNeil, B., Quinn, J.C., 2016, Sorption of Heavy Metals into Microalgae and their Effects on Growth and Lipid Accumulation, Algal Biomass, Biofuels, and Bioproducts. San Diego, CA.
42. DeMill, C., Hoffman, J., Davis, R., Pate, R., Quinn, J.C., 2016, Techno-Economic and Life Cycle Assessment of the Conversion, 107th AOCS Annual Meeting & Expo, Salt Lake City, Utah.
43. Hess, D., Torres, E., Napan, K., McNeil, B., Quinn, J.C., 2016, Environmental Impact and Scalability of Microalgal Biofuel Production Integrating Coal Fired Power Plant Flue Gas, 107th AOCS Annual Meeting & Expo, Salt Lake City, Utah.
44. Torres, E., McNeil, B., Hess, D., Quinn, J.C., 2016, Effects of Heavy Metals and Produced Water on Microalgae Productivity, 107th AOCS Annual Meeting & Expo, Salt Lake City, Utah.
45. 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.
46. 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.
47. Barlow, J., Quinn, J.C., Sims, R.C., 2015, Rotating algal biofilm reactor generates algal biomass in dairy wastewater, Algal Biomass Summit, Washington D.C.
48. Quinn, J.C., Hanif, S., Sharvelle, S., Bradley, T.H., 2015, Experimental Evaluation of Methane Yield from Lipid Extracted Algae: Life Cycle Impacts, Algal Biomass Summit, Washington D.C.

49. Quinn, J.C., 2015, Current status of Techno-economic, Life Cycle, and Resource Assessment of Microalgae Biofuels, Algal Biomass Summit, Washington D.C.
50. Quinn, J.C., Davis, R., 2015, Life cycle assessment of algal biomass fractionation to lipid and carbohydrate-derived fuel and products, Algal Biomass, Biofuels, and Bioproducts, San Diego, CA.
51. Quinn, J.C., Hoffman, J., Pate, R., 2015, Economic feasibility of microalgae production systems, Algal Biomass, Biofuels, and Bioproducts, San Diego, CA.
52. Quinn, J.C., Hanif, S., Sharvelle, S., Bradley, T.H., 2015, Characterization and life cycle impact of methane yield from lipid extracted algae, Algal Biomass, Biofuels, and Bioproducts, San Diego, CA.
53. 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.
54. 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.
55. Edlund, A., Lewis, R., Quinn, J.C., 2015, Spider silk Based Products: Economic Feasibility and Process Optimization, Rocky Mountain Bioengineering Symposium, Salt Lake City, UT.
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62. Quinn, J.C., Davis, R., 2014, Future microalgae modeling needs: Transparency and integration of techno-economics, life cycle, and resource assessment, Algal Biomass Summit, San Diego, CA.
63. Jena, U., Warren, A., McCurdy, A., Hoekman, S., Quinn, J.C., Seefeldt, L., 2014, Assessment of co-solvent hydrothermal liquefaction of a microbial yeast biomass, Algal Biomass Summit, San Diego, CA.
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 70. Moody, J.W., McGinty, C.M., Quinn, J.C., 2014, Global Evaluation of Biofuel Potential from Microalgae, World Congress on Industrial Biotechnology, Philadelphia, PA.
 71. Bennion, E.P., Ginosar, D.M., Moses, J., Agblevor, F., Quinn, J.C., 2014, Lifecycle Assessment of Microalgae to Biofuel: Thermochemical Processing Through Hydrothermal Liquefaction or Pyrolysis, International Biomass Conference and Expo, Orlando, FL.
 72. Quinn, J.C., Shurtz, B., Wood, B., 2013, Resource Requirements for Large-scale Microalgae Biofuel Production Based on Systems Engineering Process Models, Algal Biomass Summit, Orlando, FL.
 73. Shurtz, B., Batan, L., Bradley, T., Wood, B., Quinn, J.C., 2013, Potential Effects of the Integration of Microalgae with Wastewater: Water Footprint and Resource Requirements, Solar 2013, Baltimore, MD.
 74. Moody, J., Wood, B., Quinn, J.C., 2013, Global Evaluation of Biofuel Potential from Microalgae Cultivated in Photobioreactors, 2013 International Biomass Conference & Expo, Minneapolis, MN.
 75. Quinn, J.C., Butler, J., Bradley, T., 2013, Current Large-scale Microalgae Productivity Potential Including Resource Assessment, 2013 International Biomass Conference & Expo, Minneapolis, MN.
 76. Quinn, J.C., Willis, R., McCurdy, A., Wood, B., Seefeldt, L., 2013, New Strategies For Converting Waste Lactose From Cheese Production To High Value Bioproducts: Scalability And Sustainability, SBI Science & Technology Review Winter Meeting, Logan, UT.
 77. Quinn, J.C., Smith, T.G., Downes, C., 2012, Microalgae to Biofuels Lifecycle Assessment-Multiple Pathway Evaluation, Algal Biomass Summit, Denver, CO.
 78. Catton, K., Quinn, J.C., Bradley, T., 2012, An Assessment of Productivity Potential of Microalgae Biofuel including Resource Demand for Commercial Scale-up, 2nd International Conference on Algal Biomass, Biofuels & Bioproducts, San Diego, CA.
 79. Quinn, J.C., Turner, C., Bradley, T., 2011, Flat Plate Photobioreactor Scale-Up Incorporating Diffuse and Direct Light Growth Characteristics, Algal Biomass Summit, Minneapolis, MN.
 80. Butler, J., Quinn, J.C., Weyer, K., 2011, Life Cycle Assessment and Techno-Economic Analysis of Microalgae to Biofuels Process, Society for Industrial Microbiology Annual Meeting and Exhibition, New Orleans, LA.
 81. Fagerstone, K., Quinn, J.C., Bradley, T., Marchese, A., 2011, Measurement of Direct Nitrous Oxide (N₂O) Emissions from Microalgae Cultivation, 1st International Conference on Algal Biomass, Biofuels & Bioproducts, St. Louis, MO.
 82. Quinn, J.C., Catton, K., de Winter, L., Wagner, N., Bradley, T., 2011, Current Productivity Potential in the US Based on Microalgae Bulk Growth Modeling, 1st International Conference on Algal Biomass, Biofuels & Bioproducts, St. Louis, MO.
 83. Quinn, J.C., Turner, C., Bradley, T., 2011, Scale-Up of Flat Plate Photobioreactors Considering Diffuse and Direct Light Characteristics, 1st International Conference on Algal Biomass, Biofuels & Bioproducts, St. Louis, MO.
 84. Quinn, J.C., Wagner, N., Bradley, T., 2010, Microalgae Bulk Growth Model, Biotechnology Industry Organization, 2010 Pacific Rim Summit, Waikiki, HI.

Awards:

1. Walter Scott, Jr. College of Engineering Rockwell-Anderson Professorship, 2019
2. Colorado State University Mechanical Engineering Energizer Bunny Award, 2019
3. George T. Abell Outstanding Mid-Career Faculty Award-Nominee, Mechanical Engineering, Colorado State University 2019
4. Researcher of the year, Mechanical & Aerospace Engineering, Utah State University, 2016
5. Researcher of the year, Mechanical & Aerospace Engineering, Utah State University, 2015
6. Teacher of the year, Mechanical & Aerospace Engineering, Utah State University, 2014