

SUDEEP C. POPAT
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EMPLOYMENT

Clemson University

Department of Environmental Engineering and Earth Sciences
 Assistant Professor

2016 – now

Arizona State University

Swette Center for Environmental Biotechnology, Biodesign Institute

Associate Research Scientist

2013 – 2016

Assistant Research Scientist

2012 – 2013

Postdoctoral Research Associate

2010 – 2012

EDUCATION

University of California, Riverside

Ph.D., Chemical and Environmental Engineering

2010

Sardar Patel University, India

B.E., Chemical Engineering

2006

TEACHING

At Clemson University:

EES 3040 Wastewater Treatment Systems

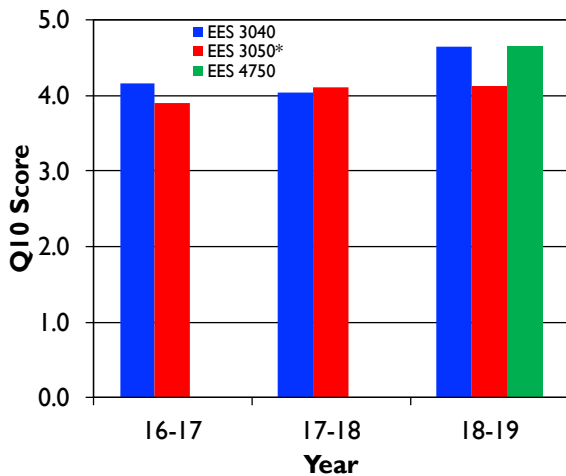
Fall 16-18

EES 3050 Waste and Wastewater Treatment Laboratory

Fall 16-18

EES 4750 Capstone Design

Spring 19



Q10 scores at Clemson University are based on student evaluations responses to the statement: *Overall, the instructor is an effective teacher.*

Responses recorded here are on the basis of an average of >90% student response for typical class sizes of ~30.

*Responses for EES 3050 are based on an average of two sections that are offered.

At Arizona State University:

CHE494 Fuel Cells & Biofuel Cells

Fall 14

CHE598 Electrochemical Energy Conversion and Storage

Fall 14

PEER-REVIEWED JOURNAL PUBLICATIONS

Before Clemson University:

1. B. G. Lusk, I. Peraza, G. Albal, A. K. Marcus, **S. C. Popat**, C. I. Torres (2018). pH dependency in anode biofilms of *Thermincola ferriacetica* suggests a proton-dependending electrochemical response. *Journal of the American Chemical Society*, 140, 5527-5534.
2. D. Ki, **S. C. Popat**, B. E. Rittmann, C. I. Torres (2017). H₂O₂ production in microbial electrochemical cells fed with primary sludge. *Environmental Science & Technology*, 51, 6139-6145.
3. M. N. Young, N. Chowdhury, E. Garver, P. J. Evans, **S. C. Popat**, B. E. Rittmann, C. I. Torres (2017). Understanding the impact of operational conditions on performance of microbial peroxide producing cells. *Journal of Power Sources*, 356, 448-458.
4. J. Madjarov, **S. C. Popat**, J. Erben, A. Gotze, R. Zengerle, S. Kerzenmacher (2017). Revisiting methods to characterize bioelectrochemical systems: the influence of uncompensated resistance (*i*R_u drop), double layer capacitance, and junction potential. *Journal of Power Sources*, 356, 408-418.
5. D. Ki, P. Parameswaran, **S. C. Popat**, B. E. Rittmann, C. I. Torres (2017). Maximizing Coulombic recovery and solids reduction from primary sludge by controlling retention time and pH in a flat-plate microbial electrolysis cell. *Environmental Science: Water Research & Technology*, 3, 333-339.
6. M. J. Patel, **S. C. Popat**, M. A. Deshusses (2017). Determination and correlation of the partition coefficients of 48 volatile organic and environmentally relevant compounds between air and silicone oil. *Chemical Engineering Journal*, 310, 72-78.
7. M. N. Young, M. J. Links, **S. C. Popat**, B. E. Rittmann, C. I. Torres (2016). Tailoring microbial electrochemical cells for production of hydrogen peroxide at high concentrations and efficiencies. *ChemSusChem*, 9, 3345-3352.
8. B. G. Lusk, P. Parameswaran, **S. C. Popat**, B. E. Rittmann, C. I. Torres (2016). The effect of pH and buffer concentration on anode biofilms of *Thermincola ferriacetica*. *Bioelectrochemistry*, 112, 47-52.
9. **S. C. Popat**, C. I. Torres (2016). Critical transport rates that limit the performance of microbial electrochemistry technologies. *Bioresource Technology*, 215, 265-273.
10. D. Ki, **S. C. Popat**, C. I. Torres (2016). Reduced overpotentials in microbial electrolysis cells through improved design, operation, and electrochemical characterization. *Chemical Engineering Journal*, 287, 181-188.
11. O. Sosa-Hernández, **S. C. Popat**, P. Parameswaran, G. S. Alemán-Nava, C. I. Torres, G. B. Méndez, R. P. Saldívar (2016). Application of microbial electrolysis cells to treat spent yeast from an alcoholic fermentation. *Bioresource Technology*, 200, 342-349.
12. R. A. Yoho, **S. C. Popat**, L. Rago, A. Guisasola, C. I. Torres (2015). Anode biofilms of *Gealkalibacter ferrihydriticus* exhibit electrochemical signatures of multiple electron transport pathways. *Langmuir*, 31, 12552-12559.

13. D. Ki, P. Parameswaran, **S. C. Popat**, B. E. Rittmann, C. I. Torres (2015). Effects of pre-fermentation and pulsed-electric-field treatment of primary sludge in microbial electrochemical cells. *Bioresource Technology*, 195, 83-88.
14. J. Hansen, J. Hogue, G. Sander, R. A. Renaut, **S. C. Popat** (2015). Non-negatively constrained least squares and parameter choice by the residual periodogram for the inversion of electrochemical impedance spectroscopy. *Journal of Computational and Applied Mathematics*, 278, 52-74.
15. R. A. Yoho, **S. C. Popat**, C. I. Torres (2014). Dynamic potential-dependent electron transport pathway shifts in anode biofilms of *Geobacter sulfurreducens*. *ChemSusChem*, 7, 3413-3419.
16. **S. C. Popat**, D. Ki, M. N. Young, B. E. Rittmann, C. I. Torres (2014). Buffer pKa and transport govern the concentration overpotential in electrochemical oxygen reduction at neutral pH. *ChemElectroChem*, 1, 1909-1915.
17. A. G. Delgado, D. Kang, K. G. Nelson, D. Fajardo-Williams, J. F. Miceli, H. Y. Done, **S. C. Popat**, R. Krajmalnik-Brown (2014). Selective enrichment yields robust ethene-producing dechlorinating cultures from microcosms stalled at *cis*-dichloroethene. *PLOS One*, 9, e100654.
18. A. G. Delgado, D. Fajardo-Williams, **S. C. Popat**, C. I. Torres, R. Krajmalnik-Brown (2014). Successful operation of continuous reactors at short retention times results in high- density, fast-rate *Dehalococcoides* dechlorinating cultures. *Applied Microbiology and Biotechnology*, 98, 2729-2737.
19. P. Parameswaran, T. Bry, **S. C. Popat**, B. G. Lusk, B. E. Rittmann, C. I. Torres (2013). Kinetic, electrochemical, and microscopic characterization of the thermophilic, anode-respiring bacterium *Thermincola ferriacetica*. *Environmental Science & Technology*, 47, 4934-4940.
20. M. Ziv-El, **S. C. Popat**, P. Parameswaran, D. Kang, A. Polasko, R. U. Halden, B. E. Rittmann, R. Krajmalnik-Brown (2012). Using electron balances and molecular techniques to assess trichloroethene-induced shifts to a dechlorinating microbial community. *Biotechnology and Bioengineering*, 109, 2230-2239.
21. M. Ziv-El, **S. C. Popat**, K. Cai, R. U. Halden, R. Krajmalnik-Brown, B. E. Rittmann (2012). Managing homoacetogens and methanogens to promote reductive dechlorination of trichloroethene with direct delivery of H₂ in a membrane biofilm reactor. *Biotechnology and Bioengineering*, 109, 2200-2210.
22. **S. C. Popat**, D. Ki, B. E. Rittmann, C. I. Torres (2012). Importance of OH⁻ transport from cathodes in microbial fuel cells. *ChemSusChem*, 5, 1071-1079.
23. **S. C. Popat**, K. Zhao, M. A. Deshusses (2012). Bioaugmentation of an anaerobic biotrickling filter for enhanced conversion of trichloroethene to ethene. *Chemical Engineering Journal*, 183, 98-103.
24. **S. C. Popat**, M. A. Deshusses (2011). Kinetics and inhibition of reductive dechlorination of trichloroethene, *cis*-1,2-dichloroethene and vinyl chloride in a continuously fed anaerobic biofilm reactor. *Environmental Science & Technology*, 45, 1569-1578.
25. **S. C. Popat**, M. V. Yates, M. A. Deshusses (2010). Kinetics of inactivation of indicator pathogens during thermophilic anaerobic digestion. *Water Research*, 44, 5965-5972.
26. **S. C. Popat**, M. A. Deshusses (2010). Analysis of the rate-limiting step of an anaerobic biotrickling filter removing TCE vapors. *Process Biochemistry*, 45, 549-555.

27. **S. C. Popat**, M. A. Deshusses (2009). Reductive dehalogenation of trichloroethene vapors in an anaerobic biotrickling filter. *Environmental Science & Technology*, 43, 7856-7861.
28. O. J. Prado, **S. C. Popat**, G. Chen, S. L. Walker, J. Lafuente, D. Gabriel, M. A. Deshusses (2009). The effect of packing hydrophilization on bacterial attachment and the relationship with the performance of biotrickling filters. *Biotechnology and Bioengineering*, 103, 1060-1067.
29. **S. C. Popat**, M. A. Deshusses (2008). Biological removal of siloxanes from landfill and digester gases: Opportunities and challenges. *Environmental Science & Technology*, 42, 8510-8515.

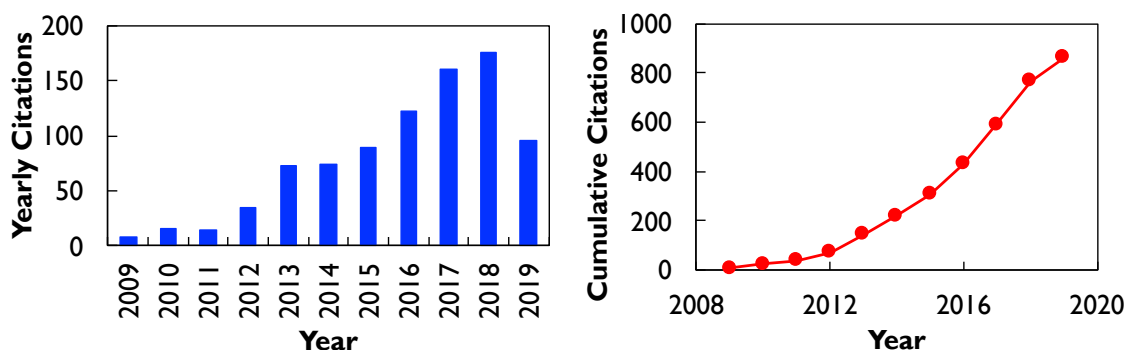
Citations:

Citation data is taken from Google Scholar (as of May 2019)

Total citations: 864

h-index: 19

i10-index: 24



BOOK CHAPTERS

1. R. A. Yoho, **S. C. Popat**, F. Fabregat-Santiago, S. Giménez, A. ter Heijne, C. I. Torres (2015). Electrochemical impedance spectroscopy as a powerful analytical tool for the study of microbial electrochemical cells. In: *Electrochemically-Active Biofilms in Bioelectrochemical Systems: From Laboratory Practice to Data Interpretation*; eds. H. Beyenal, J. Babauta; John Wiley & Sons, Inc., Hoboken, NJ.

CONFERENCE PRESENTATIONS

* = presenter

Platform Presentations from Clemson University:

1. P. Taber, M. Ateia, O. Keen, **S. C. Popat***. Understanding the mechanism of removal of UV-quenching substances in landfill leachate via Fenton's oxidation. AEEP Conference, Tempe, AZ, 2019.

2. S. M. Husson, D. A. Ladner*, **S. C. Popat***. AnMBRs as a next generation technology to address the food-energy-water nexus. SC EPSCoR State Conference, Greenville, SC, April 2019.
3. E. Murawski, N. Kananizadeh, **S. C. Popat***. Effect of catalyst loading on cathodic peroxide production in microbial fuel cells. Society for Industrial Microbiology and Biotechnology Annual Meeting, Chicago, IL, August 2018.
4. **S. C. Popat***. Anaerobic biotechnologies for wastewater treatment and their central role in addressing the food-energy-water nexus. Clemson University Research Symposium, Clemson, SC, May 2018.
5. **S. C. Popat***. Anaerobic biodegradation of fats in wastewater and sludge: Managing the advantage of increased methane against the risk of inhibition. South Carolina Environmental Conference, Myrtle Beach, SC, March 2018.
6. **S. C. Popat***, M. N. Young, D. Ki, A. Xie, B. E. Rittmann, C. I. Torres. Factors that affect cathodic hydrogen peroxide production for water and wastewater treatment applications. ACS Annual Fall Meeting, Washington, DC, August 2017.
7. **S. C. Popat***. Microbes interfaced with electrodes: Applications in environmental engineering and beyond. Clemson University Research Symposium, Clemson, SC, May 2017.

Poster Presentations from Clemson University:

1. E. Murawski, N. Kananizadeh, **S. C. Popat***. Effect of catalyst loading on cathodic peroxide production in electrochemical cells. AEESP Conference, Tempe, AZ, May 2019.
2. N. Kananizadeh*, E. Blair, C. Cash, S. M. Husson, D. A. Ladner, **S. C. Popat**. Effect of temperature on the performance of anaerobic membrane bioreactors treating domestic wastewater. AEESP Conference, Tempe, AZ, May 2019.
3. J. Deaver*, V. Shankar, **S. C. Popat**. Anaerobic digester microbial community dynamics during inhibition of methane production by fats, oils and grease. AEESP Conference, Tempe, AZ, May 2019.
4. A. Xie*, **S. C. Popat**. Anaerobic treatment of high fat content wastewater at various loading rates. AEESP Conference, Tempe, AZ, May 2019.
5. E. Blair*, N. Kananizadeh, C. Cash, D. A. Ladner, **S. C. Popat**. The effect of temperature on the performance and microbial community of anaerobic membrane bioreactors for domestic wastewater treatment. Clemson GRADS Symposium, Clemson, SC, April 2019.
6. J. Deaver*, V. Shankar, K. T. Finneran, **S. C. Popat**. Anaerobic digester microbial community dynamics during inhibition of methane production by fats, oils and grease. Clemson GRADS Symposium, Clemson, SC, April 2019.
7. A. Xie*, **S. C. Popat**. Anaerobic treatment of high fat content wastewater at various loading rates. South Carolina Environmental Conference, Myrtle Beach, SC, March 2019.
8. E. Blair*, N. Kananizadeh, C. Cash, D. A. Ladner, **S. C. Popat**. The effect of temperature on the performance and microbial community of anaerobic membrane bioreactors for domestic wastewater treatment. South Carolina Environmental Conference, Myrtle Beach, SC, March 2019.

9. J. Deaver*, V. Shankar, K. T. Finneran, **S. C. Popat**. Anaerobic digester microbial community dynamics during inhibition of methane production by fats, oils and grease. South Carolina Environmental Conference, Myrtle Beach, SC, March 2019.
10. A. Xie*, **S. C. Popat**. Anaerobic treatment of wastewater with high fat content at various loading rates. South Carolina Environmental Conference, Myrtle Beach, SC, March 2018.
11. E. Murawski*, **S. C. Popat**. The effects of catalyst loading on hydrogen peroxide production in a microbial fuel cell. South Carolina Environmental Conference, Myrtle Beach, SC, March 2018.
12. M. Soni*, **S. C. Popat**. Investigating the microbial inhibitions in anaerobic co-digestion of fats, oils and grease (FOG) with municipal sludge and their effect on process kinetics. South Carolina Environmental Conference, Myrtle Beach, SC, March 2018.
13. P. Taber*, A. Xie, **S. C. Popat**. Effect of peroxide-based advanced oxidation on the removal of UV-quenching substances in landfill leachate. South Carolina Environmental Conference, Myrtle Beach, SC, March 2018.

Before Clemson University:

(selected platform presentations out of >50 platform and poster presentations with co-authored abstracts)

- **S. C. Popat***, R. A. Yoho, L. Rago, A. Guisasola, C. I. Torres. Unraveling the optimization of energy metabolism in members of *Geobacteraceae* during extracellular respiration. ASM General Meeting, Boston, MA, May 2014.
- **S. C. Popat***, R. A. Yoho, O. Ajulo, C. I. Torres. Electrochemical characterization reveals multiple distinct electron transport pathways in anode biofilms of *Geobacter sulfurreducens*. 225th Electrochemical Society Meeting, Orlando, FL, May 2014.
- **S. C. Popat***, D. Ki, B. E. Rittmann, C. I. Torres. On cathodic potential losses in microbial fuel cells. North American International Society for Microbial Electrochemistry and Technology meeting, Ithaca, NY, October 2012.
- **S. C. Popat***. Understanding and overcoming potential losses in microbial fuel cells for practical application in wastewater treatment. AZ Water Annual Conference & Exhibition, Glendale, AZ, May 2012.
- B. G. Lusk, **S. C. Popat***, P. Parameswaran, B. E. Rittmann, C. I. Torres. Characterization of the thermophilic anode-respiring *Thermincola ferriacetica*. ACS Annual Spring Meeting, Anaheim, CA, March 2011.
- **S. C. Popat***, K. Zhao, M. A. Deshusses. Advances in treatment of trichloroethene-laden waste gases in anaerobic biotrickling filters containing *Dehalococcoides* spp. Duke-UAM Conference on Biofiltration for Air Pollution Control, Washington, DC, October 2010.
- **S. C. Popat***, M. A. Deshusses. Anaerobic biotrickling filter trichloroethene removal from waste gases. Air & Waste Management Association's Annual Conference and Exhibition, Detroit, MI, June 2009.

- **S. C. Papat***, M. A. Deshusses. Trichloroethene removal in an anaerobic biotrickling filter. USC-UAM Conference on Biofiltration for Air Pollution Control, Long Beach, CA, October 2008.
- **S. C. Papat***, O. J. Prado, J. Lafuente, D. Grabiell, M. A. Deshusses. Packings for biotrickling filters: do surface properties matter? USC-UAM Conference on Biofiltration for Air Pollution Control, Long Beach, CA, October 2008.

INVITED SEMINARS

1. *Critical transport rates that limit the performance of microbial electrochemical technologies.* Department of Civil, Construction, and Environmental Engineering, North Carolina State University, March 2019.
2. *Critical transport rates that limit the performance of microbial electrochemical technologies.* Department of Civil and Environmental Engineering, Duke University, March 2019.
3. *Critical transport rates that limit the performance of microbial electrochemical technologies.* Naval Research Laboratory, August 2017.
4. *A tale of two efficiencies: Improving the performance of microbial electrochemical cells for energy recovery from wastewater treatment.* Department of Environmental Engineering and Earth Science, Clemson University, April 2016.
5. *A tale of two efficiencies: Improving the performance of microbial electrochemical cells for energy recovery from wastewater treatment.* Department of Civil and Environmental Engineering, University of California, Davis, March 2016.
6. *How to make a memorable presentation?* Molecular and Cellular Biology seminar, Arizona State University, April 2013.
7. *Environmental biotechnology: applications in remediation and energy.* Department of Chemical, Biochemical and Environmental Engineering, University of Maryland, Baltimore County, February 2011.

PATENTS

1. **S. C. Papat**, P. Parameswaran, B. E. Rittmann, C. I. Torres. Microbial electrolysis cells and methods for production of chemical products. U.S. patent #9216919, issued 12/22/2015.

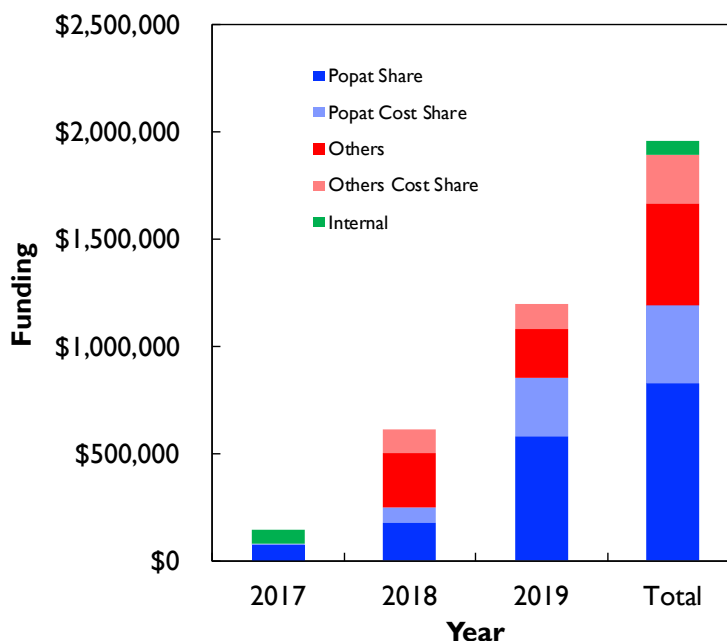
RESEARCH FUNDING

At Clemson University:

Funding data shows the breakdown of all competitively awarded grants (including internal grants at Clemson University).

Total funding: \$1,954,600
(includes \$588,421 cost share)

S. C. Popat's share (includes internal funding): \$1,221,715
(includes \$363,105 cost share)



Role	Other PIs	Project	Sponsor	Duration	Amount
PI (70%)	Cates, Dale, Karanfil, Norman, Furrer	Peroxide-producing microbial fuel cells for space life support systems applications	NASA EPSCoR	2019-2022	\$1,125,000 (includes \$375,000 cost share)
PI	N/A	Electrochemical ammonia removal and recovery from rendering wastewater	Fats and Proteins Research Foundation via ACREC	2019-2020	\$38,500
PI	N/A	Palmetto Academy: Anaerobic membrane bioreactors for wastewater treatment during space missions	SC Space Grant Consortium	2019	\$30,000 (includes \$15,000 cost share)
Co-PI (50%)	Schlautman (PI)	Assessing engineering and management options in poultry processing and rendering plants to minimize interferences of quaternary ammonium compounds in wastewater treatment	South Carolina Department of Agriculture ACRE CGP	2018-2019	\$50,000

PI	N/A	Testing of a liter-scale microbial fuel cell with peroxide production for rendering wastewater treatment	Fats and Proteins Research Foundation via ACREC	2018-2019	\$38,500
PI	N/A	Microbial peroxide-producing cells for blackwater and greywater treatment during space missions	SC Space Grant Consortium	2018-2019	\$40,000 (includes \$20,000 cost share)
PI	N/A	Palmetto Academy: Microbial peroxide-producing cells for blackwater treatment during space missions	SC Space Grant Consortium	2018	\$36,000 (includes \$18,000 cost share)
Co-PI (25%)	Husson (PI), Ladner, Amy, Andersen, Berge, Norman, Furrer	Anaerobic membrane bioreactors as a next-generation technology to address the food-energy-water nexus	SC EPSCoR/ IDeA	2018-2020	\$450,421 (includes \$150,421 cost share)
PI (50%)	Ladner, Amy, Husson	Anaerobic membrane bioreactors for wastewater treatment: Enhanced performance through novel process improvements and low-fouling membranes	CU Division of Research	2017-2019	\$65,138
PI	N/A	Microbial fuel cells with peroxide production for space life support systems applications	SC Space Grant Consortium	2017-2018	\$20,000 (includes \$10,000 cost share)
PI	N/A	Treatment of rendering wastewater in microbial fuel cells with nitrogen recovery and peroxide production	Fats and Proteins Research Foundation via ACREC	2017-2018	\$38,498
PI	N/A	Development of substrate loaded microbial fuel cells for powering remote sensors	Office of Naval Research via Arizona State University	2017-2018	\$22,543

Student Scholarships:**Total funding:** \$48,000 (includes \$24,000 cost share)

Student	Fellowship	Sponsor	Duration	Amount
Jessica Deaver	Graduate research assistantship	SC Space Grant Consortium	2019-2020	\$24,000 (includes \$12,000 cost share)
Jessica Deaver	Graduate research assistantship	SC Space Grant Consortium	2018-2019	\$24,000 (includes \$12,000 cost share)

At Arizona State University:

Role	Other PIs	Project	Sponsor	Duration	Amount
Co-PI	Rittmann (PI), Lively	SusChEM: COLLABORATIVE RESEARCH: Engineering the hollow-fiber membrane biofilm reactor to convert syngas to valuable products	National Science Foundation	2016-2019	\$209,022
Co-PI	Torres (PI), Krajmalnik-Brown	Combining electrochemical, -omics, and microscopic approaches to characterize transport limitations in anode-respiring bacteria biofilms	Office of Naval Research	2015-2018	\$449,000
Co-PI	Torres (PI)	Development of substrate loaded microbial fuel cells for powering remote sensors	Office of Naval Research	2015-2018	\$399,775
Co-PI	Redding (PI), Jones	Using heliobacteria to produce hydrogen using light in a microbial photo-electrosynthesis cell	ASU LightWorks	2014-2016	\$85,000
Co-PI	Torres (PI), Rittmann, Renaut	Characterizing electron transport resistances from anode-respiring	Office of Naval Research	2012-2015	\$446,000

		bacteria using electrochemical techniques			
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SELECTED HONORS AND AWARDS

Young Investigator Oral Presentation, American Society for Microbiology General Meeting	2014
Discovery Award for Best Scientific Paper, International Society for Microbial Electrochemistry and Technology	2012
Air & Waste Management Association Student Scholarship	2009
Kreiger & Stewart, Inc. Student Fellowship	2009
Dean's Distinguished Fellowship, University of California, Riverside	2006

AWARDS TO STUDENTS ADVISED

Emily Murawski

A. Ray Abernathy Water Environment Association Fellowship Endowment	2018
3 rd place student poster, SC Environmental Conference	2018

Mehul Soni

2 nd place student poster, SC Environmental Conference	2018
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Paige Taber

1 st place student poster, SC Environmental Conference	2018
3 rd place Fresh Ideas poster, AWWA Annual Conference & Exposition	2018
Carl J. Apicella Scholarship, EREF	2018

Emily Blair

A. Ray Abernathy Water Environment Association Fellowship Endowment	2019
2 nd place CECAS student poster, Clemson GRADS Symposium	2019

Ao Xie

1 st place student poster, SC Environmental Conference	2019
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Jessica Deaver

Linvil G. Rich Water Environment Association Fellowship Endowment	2019
3 rd place student poster, SC Environmental Conference	2019
1 st place CECAS student poster, SC Environmental Conference	2019

STUDENT ADVISING

Postdoctoral Research Associates:

- Negin Kananizadeh, 2017-now

Graduate Students:

- Mehul Soni, M.S. student, Environmental Engineering & Science, 2016-2018
- Emily Murawski, M.S. student, Environmental Engineering & Science, 2017-2018
- Paige Taber, M.S. student, Environmental Engineering & Science, 2017-2019
- Ao Xie, Ph.D. student, Environmental Engineering & Science, 2016-now
- Jessica Deaver, Ph.D. student, Environmental Engineering & Science, 2017-now
- Emily Blair, M.S. student, Environmental Engineering & Science, 2018-now
- Spencer Lindsay, M.S., Environmental Engineering & Science, 2018-now

Undergraduate Students:

- Salley Reamer, B.S. student, Environmental Engineering, 2016-2017
- Emily Blair, B.S. student, Environmental Engineering, 2016-2017
- Clancy Kerr, B.S. student, Microbiology, 2018-now
- Raven Althouse, B.S. student, Earth and Environmental Sciences (Furman), 2018-now
- Nicholas Mitchell, B.S. student, Geology (USC), 2018
- Karla Diviesti, B.S. student, Biosystems Engineering, 2018-now
- Emily Miller, B.S. student, Chemical Engineering, 2018-now
- Michael Ralph, B.S. student, Physics (Wofford college), 2019-now

STUDENT THESIS COMMITTEES

At Clemson University:

- Matthew Vawter, M.S., Environmental Engineering & Science, 2017
- Weiming Qi, M.S., Environmental Engineering & Science, 2018
- Kameryn Mcgee, M.S., Environmental Engineering & Science, 2018
- Joel Neuder, M.S. Environmental Engineering & Science, 2019
- Varun Chetan Kumar, M.S. Environmental Engineering & Science, ongoing
- Sheikh Moni, Ph.D., Environmental Engineering & Earth Sciences, ongoing
- Roksana Mahmud, Ph.D., Environmental Engineering & Earth Sciences, ongoing
- Hamed Torkzadeh, Ph.D., Environmental Engineering & Earth Sciences, ongoing
- Colby Cash, Ph.D., Environmental Engineering & Earth Sciences, ongoing
- Mojtaba Qanbarzadeh, Ph.D., Environmental Engineering & Earth Sciences, ongoing
- Zuo Zhou, Ph.D., Environmental Engineering & Earth Sciences, ongoing

At Arizona State University:

- Oluyomi Ajulo, M.S., Chemical Engineering, 2013
- Sean Tropsa, B.S. Honors, Chemical Engineering, 2014
- Ramoni Oluwo, M.S. Chemical Engineering, 2015
- Sean Tropsa, M.S. Chemical Engineering, 2015
- Aakash Sadaria, M.S., Environmental Engineering, 2015
- Mikaela Stadie, B.S. Honors, Chemical Engineering, 2015

- Devyn Fajardo-Williams, M.S., Environmental Engineering, 2015
- Ornella Sosa Hernández, Ph.D., Engineering Science (Tech de Monterrey, Mexico), 2015
- Rachel Yoho, Ph.D., Biological Design, 2016
- Dongwon Ki, Ph.D., Environmental Engineering, 2016
- Karthik Ravishankar, M.S., Chemical Engineering, 2016
- Julia Thompson, B.S. Honors, Chemical Engineering, 2016
- Nadratan Chowdhury, B.S. Honors, Chemical Engineering, 2016

PROFESSIONAL MEMBERSHIPS

- Association of Environmental Engineering & Sciences Professors
- International Society for Microbial Electrochemistry and Technology

PROFESSIONAL SERVICE

- *Ad hoc* reviewer for journals:
 - *AIChE Journal*
 - *Applied Biochemistry and Biotechnology*
 - *Applied and Environmental Microbiology*
 - *Analyst*
 - *Biodegradation*
 - *Bioelectrochemistry*
 - *Bioprocess and Biosystems Engineering*
 - *Bioresource Technology*
 - *Biotechnology and Bioengineering*
 - *Chemical Engineering Journal*
 - *ChemSusChem*
 - *Electrochimica Acta*
 - *Energy & Environmental Science*
 - *Environmental Engineering Science*
 - *Environmental Science: Processes and Impacts*
 - *Environmental Science: Water Research & Technology*
 - *Environmental Science & Technology*
 - *International Journal of Hydrogen Energy*
 - *Journal of Power Sources*
 - *PLOS One*
 - *Proceedings of the National Academy of Sciences U.S.A.*
 - *RSC Advances*
 - *Science of the Total Environment*
 - *Water Environment Research*
 - *Water Research*
 - *Water Science & Technology*
- *Ad hoc* proposal reviewer for:
 - National Science Foundation

- Reviewer for AEESP SSC Navigating the Academic and Professional Job Search workshop
- Member of the newsletter committee of International Society for Microbial Electrochemistry and Technology, 2013-present
- Member of the Student Services Committee, Association of Environmental Engineering and Science Professors, 2019-present
- Member of technical advisory board for the start-up company, Arbsource, LLC, 2012-2015