Stanford



Ines M. L. Azevedo

Perry L. McCarty Director at the Woods Institute for the Environment, Professor of Energy Science Engineering, Senior Fellow at the Precourt Institute for Energy, at the Woods Institute and Professor, by courtesy, of Earth System Science

Energy Science & Engineering

Curriculum Vitae available Online

Bio

BIO

Professor Azevedo is passionate about solving problems that include environmental, technical, economic, and policy issues, where traditional engineering approaches play an important role but cannot provide a complete answer. In particular, she is interested in assessing how energy systems are likely to evolve, which requires comprehensive knowledge of the technologies that can address future energy needs and the decision-making process followed by various agents in the economy.

ACADEMIC APPOINTMENTS

- Professor, Energy Science & Engineering
- Senior Fellow, Stanford Woods Institute for the Environment
- Senior Fellow, Precourt Institute for Energy
- Professor (By courtesy), Earth System Science

HONORS AND AWARDS

- Inducted member, Sigma XI, The Scientific Research Honor Society (2026)
- Gabilan Faculty Fellow Award, Stanford University (2021)
- Terman Fellow, Stanford University (2021)
- C3E Women in Clean Energy, Research Award, C3E (2017)
- Philip L. Dowd Fellowship Award, Carnegie Mellon University (2017)
- Top Scientists Under 40 Award, World Economic Forum (WEF) (2014)

LINKS

- Google Scholar: https://scholar.google.com/citations?user=f2yeR2QAAAAJ&hl=en&oi=ao
- INES Research Group: https://ines.stanford.edu/
- EARNEST Consortium: https://earnest.stanford.edu

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Professor Azevedo is passionate about solving problems that include environmental, technical, economic, and policy issues, where traditional engineering approaches play an important role but cannot provide a complete answer. In particular, she is interested in assessing how energy systems are likely to evolve, which requires comprehensive knowledge of the technologies that can address future energy needs and the decision-making process followed by various agents in the economy.

Teaching

COURSES

2026-27

- ESE Graduate Seminar: ENERGY 352 (Spr)
- Energy Systems Fundamentals: ENERGY 201A (Aut)
- Fundamentals of Renewable Energy Processes: EARTHSYS 102, ENERGY 132 (Spr)

2025-26

- ESE Graduate Seminar: ENERGY 352 (Aut, Spr)
- Energy Systems Fundamentals: ENERGY 201A (Aut)
- Energy and the Environment: EARTHSYS 101, ENERGY 101 (Win)
- Fundamentals of Renewable Power: EARTHSYS 102, ENERGY 102 (Spr)
- Modeling the U.S. Electricity Grid Using PYPSA-USA: ENERGY 310 (Aut)

2024-25

- Capstone Project Seminar in Environment and Resources: ENVRES 290 (Win)
- Energy Systems Fundamentals: ENERGY 201A (Aut)
- Energy and the Environment: EARTHSYS 101, ENERGY 101 (Win)
- Fundamentals of Renewable Power: EARTHSYS 102, ENERGY 102 (Spr)

2023-24

- Energy Systems Fundamentals: ENERGY 201A (Aut)
- Energy and the Environment: EARTHSYS 101, ENERGY 101 (Win)
- Fundamentals of Renewable Power: EARTHSYS 102, ENERGY 102 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Fletcher Passow, Andea Scott

Postdoctoral Faculty Sponsor

Will McNeil

Doctoral Dissertation Advisor (AC)

Kamran Tehranchi

Master's Program Advisor

Jasmine Blust, Victoria Dinov, Itbaan Nafi

Doctoral (Program)

Genevieve DiBari

Publications

PUBLICATIONS

- **Residual emissions may perpetuate community-scale inequalities in US air pollution** *NATURE CLIMATE CHANGE*
  Bergero, C., Cheng, J., Zhang, Q., Ou, Y., McJeon, H., Edwards, M. R., Nock, D., Azevedo, I., Davis, S. J.
  2026
- **Facility-level estimates of demand for industrial process heat in California** *ENVIRONMENTAL RESEARCH LETTERS*
  Saad, D. M., Brandt, A. R., Azevedo, I. M. L.
  2026; 21 (9)
- **Techno-economic assessment of floating offshore wind in California** *ENVIRONMENTAL RESEARCH LETTERS*
  Angliviel de La Beaumelle, N., Azevedo, I. M. L.
  2025; 20 (11)
- **Assessing the potential for solar development on coal mine land in India** *ENVIRONMENTAL RESEARCH LETTERS*
  Singh, K., Azevedo, I. M. L.
  2025; 20 (11)
- **Floating offshore wind on the US West Coast: an expert elicitation** *ENVIRONMENTAL RESEARCH LETTERS*
  Angliviel de la Beaumelle, N., Tehranchi, K., Simoncini, M., Shittu, E., Azevedo, I. M. L.
  2025; 20 (11)
- **Retail rate design for decarbonized and resilient electricity systems** *PROGRESS IN ENERGY*
  Singh, M., Cain, B., Azevedo, I. M. L.
  2025; 7 (4)
- **Assessing the real implications for CO2 as generation from renewables increases.** *Nature communications*
  Suri, D., de Chalendar, J., Azevedo, I. M.
  2025; 16 (1): 7124
- **Perceptions of wildfire risk and adaptation behaviour in California** *ENVIRONMENTAL RESEARCH-CLIMATE*
  Horing, J., Shivaram, R., Azevedo, I. M. L.
  2025; 4 (1)
- **Quantifying the impact of air pollution from coal-fired electricity generation on crop productivity in India.** *Proceedings of the National Academy of Sciences of the United States of America*
  Singh, K., Lobell, D. B., Azevedo, I. M.
  2025; 122 (6): e2421679122
- **Life cycle comparison of industrial-scale lithium-ion battery recycling and mining supply chains.** *Nature communications*
  Machala, M. L., Chen, X., Bunke, S. P., Forbes, G., Yegizbay, A., de Chalendar, J. A., Azevedo, I. L., Benson, S., Tarpeh, W. A.
  2025; 16 (1): 988
- **Improved daily PM2.5 estimates in India reveal inequalities in recent enhancement of air quality.** *Science advances*
  Kawano, A., Kelp, M., Qiu, M., Singh, K., Chaturvedi, E., Dahiya, S., Azevedo, I., Burke, M.
  2025; 11 (4): eadq1071
- **The health, climate, and equity benefits of freight truck electrification in the United States** *ENVIRONMENTAL RESEARCH LETTERS*
  Hennessy, E. M., Scown, C. D., Azevedo, I. M. L.
  2024; 19 (10)
- **Pathways to zero emissions in California's heavy-duty transportation sector** *ENVIRONMENTAL RESEARCH: INFRASTRUCTURE AND SUSTAINABILITY*
  Hennessy, E. M., Singh, M., Saltzer, S., Azevedo, I. M. L.

2024; 4 (3)

- **Emerging environmental justice issues at the intersection of transportation and electricity systems** *PROGRESS IN ENERGY*
  Hennessy, E. M., Azevedo, I. M. L.
  2024; 6 (3)
- **Air pollution mortality from India's coal power plants: unit-level estimates for targeted policy** *ENVIRONMENTAL RESEARCH LETTERS*
  Singh, K., Peshin, T., Sengupta, S., Thakrar, S. K., Tessum, C. W., Hill, J. D., Azevedo, I. M. L., Luby, S. P.
  2024; 19 (6)
- **Future-proof rates for controlled electric vehicle charging: Comparing multi-year impacts of different emission factor signals** *ENERGY POLICY*
  Powell, S., Martin, S., Rajagopal, R., Azevedo, I. M. L., de Chalendar, J.
  2024; 190
- **Distributional impacts of fleet-wide change in light duty transportation: mortality risks of PM_{2.5} emissions from electric vehicles and Tier 3 conventional vehicles** *ENVIRONMENTAL RESEARCH LETTERS*
  Singh, M., Tessum, C. W., Marshall, J. D., Azevedo, I. M. L.
  2024; 19 (3)
- **Air quality, health, and equity impacts of vehicle electrification in India** *ENVIRONMENTAL RESEARCH LETTERS*
  Peshin, T., Sengupta, S., Thakrar, S. K., Singh, K., Hill, J., Apte, J. S., Tessum, C. W., Marshall, J. D., Azevedo, I. M. L.
  2024; 19 (2)
- **Ensuring greenhouse gas reductions from electric vehicles compared to hybrid gasoline vehicles requires a cleaner U.S. electricity grid.** *Scientific reports*
  Singh, M., Yuksel, T., Michalek, J. J., Azevedo, I. M.
  2024; 14 (1): 1639
- **How COVID-19 altered perceived household resource consumption in the United States: Results from a survey** *ENVIRONMENTAL RESEARCH LETTERS*
  Shivaram, R., Azevedo, I. M. L.
  2023; 18 (8)
- **Drought impacts on the electricity system, emissions, and air quality in the western United States.** *Proceedings of the National Academy of Sciences of the United States of America*
  Qiu, M., Ratledge, N., Azevedo, I. M., Diffenbaugh, N. S., Burke, M.
  2023; 120 (28): e2300395120
- **Inequality in air pollution mortality from power generation in India** *ENVIRONMENTAL RESEARCH LETTERS*
  Sengupta, S., Thakrar, S. K., Singh, K., Tongia, R., Hill, J. D., Azevedo, I. M. L., Adams, P. J.
  2023; 18 (1)
- **The Global Technical, Economic, and Feasible Potential of Renewable Electricity** *ANNUAL REVIEW OF ENVIRONMENT AND RESOURCES*
  de La Beaumelle, N., Blok, K., de Chalendar, J. A., Clarke, L., Hahmann, A. N., Huster, J., Nemet, G. F., Suri, D., Wild, T. B., Azevedo, I. M. L.
  2023; 48: 419-449
- **Subnational implications from climate and air pollution policies in India's electricity sector.** *Science (New York, N.Y.)*
  Sengupta, S., Adams, P. J., Deetjen, T. A., Kamboj, P., D'Souza, S., Tongia, R., Azevedo, I. M.
  2022; 378 (6620): eabh1484
- **Sustained cost declines in solar PV and battery storage needed to eliminate coal generation in India** *ENVIRONMENTAL RESEARCH LETTERS*
  Mohan, A., Sengupta, S., Vaishnav, P., Tongia, R., Ahmed, A., Azevedo, I. L.
  2022; 17 (11)
- **Charging infrastructure access and operation to reduce the grid impacts of deep electric vehicle adoption** *NATURE ENERGY*
  Powell, S., Cezar, G., Min, L., Azevedo, I. M. L., Rajagopal, R.
  2022
- **Current and Future Estimates of Marginal Emission Factors for Indian Power Generation.** *Environmental science & technology*

Sengupta, S., Spencer, T., Rodrigues, N., Pachouri, R., Thakare, S., Adams, P. J., Tongia, R., Azevedo, I. M.
2022

- **Should India Move toward Vehicle Electrification? Assessing Life-Cycle Greenhouse Gas and Criteria Air Pollutant Emissions of Alternative and Conventional Fuel Vehicles in India.** *Environmental science & technology*
  Peshin, T., Sengupta, S., Azevedo, I. M.
  2022

- **Bidding on a Peer-to-Peer Energy Market: An Exploratory Field Study** *INFORMATION SYSTEMS RESEARCH*
  Worner, A., Tiefenbeck, V., Wortmann, F., Meeuw, A., Ableitner, L., Fleisch, E., Azevedo, I.
  2022

- **Distributional health impacts of electricity imports in the United States** *ENVIRONMENTAL RESEARCH LETTERS*
  Hennessy, E. M., de Chalendar, J. A., Benson, S. M., Azevedo, I. M. L.
  2022; 17 (6)

- **Expert elicitation on paths to advance fuel cell electric vehicles** *ENERGY POLICY*
  Whiston, M. M., Azevedo, I., Litster, S., Samaras, C., Whitefoot, K. S., Whitacre, J. F.
  2022; 160

- **Limitations of econometric evaluation of nonrandomized residential energy efficiency programs: A case study of Northern California rebate programs** *ENVIRONMENTAL DATA SCIENCE*
  Sherwin, E. D., Meyer, R. M., Azevedo, I. M. L.
  2022; 1

- **The Great Intergenerational Robbery: A Call for Concerted Action Against Environmental Crises** *ANNUAL REVIEW OF ENVIRONMENT AND RESOURCES*
  Gadgil, A., Tomich, T. P., Agrawal, A., Allouche, J., Azevedo, I. M. L., Bakarr, M., Jannuzzi, G. M., Liverman, D., Malhi, Y., Polasky, S., Roy, J., Urge-Vorsatz, D., Wang, et al
  2022; 47: 1-4

- **Paths to market for stationary solid oxide fuel cells: Expert elicitation and a cost of electricity model** *APPLIED ENERGY*
  Whiston, M. M., Azevedo, I., Litster, S., Samaras, C., Whitefoot, K. S., Whitacre, J. F.
  2021; 304

- **Recent developments at energy policy** *ENERGY POLICY*
  Thomas, S., Antunes, C., Azevedo, I., Madlener, R., Yeh, S., Zhou, P., Du, H., Goutte, S.
  2021; 159

- **Net-zero emissions energy systems: What we know and do not know** *ENERGY AND CLIMATE CHANGE*
  Azevedo, I., Bataille, C., Bistline, J., Clarke, L., Davis, S.
  2021; 2

- **Introduction to the special issue on Net-Zero Energy Systems** *ENERGY AND CLIMATE CHANGE*
  Azevedo, I., Bataille, C., Bistline, J., Clarke, L., Davis, S.
  2021; 2

- **Energy systems in scenarios at net-zero CO2 emissions.** *Nature communications*
  DeAngelo, J., Azevedo, I., Bistline, J., Clarke, L., Luderer, G., Byers, E., Davis, S. J.
  2021; 12 (1): 6096

- **The food we eat, the air we breathe: a review of the fine particulate matter-induced air quality health impacts of the global food system** *ENVIRONMENTAL RESEARCH LETTERS*
  Balasubramanian, S., Domingo, N. G. G., Hunt, N. D., Gittlin, M., Colgan, K. K., Marshall, J. D., Robinson, A. L., Azevedo, I. M. L., Thakrar, S. K., Clark, M. A., Tessum, C. W., Adams, P. J., Pandis, et al
  2021; 16 (10)

- **Welfare analysis of the ecological impacts of electricity production in Chile using the sparse multinomial logit model** *ECOLOGICAL ECONOMICS*
  De La Maza, C., Davis, A., Azevedo, I.
  2021; 184

- **Do LED lightbulbs save natural gas? Interpreting simultaneous cross-energy program impacts using electricity and natural gas billing data (vol 3, 015003, 2021)** *ENVIRONMENTAL RESEARCH COMMUNICATIONS*
  Adekanye, O. G., Davis, A., Azevedo, I. L.
  2021; 3 (5)
- **The impact of Uber and Lyft on vehicle ownership, fuel economy, and transit across U.S. cities.** *iScience*
  Ward, J. W., Michalek, J. J., Samaras, C., Azevedo, I. L., Henao, A., Rames, C., Wenzel, T.
  2021; 24 (1): 101933
- **Do LED lightbulbs save natural gas? Interpreting simultaneous cross-energy program impacts using electricity and natural gas billing data** *ENVIRONMENTAL RESEARCH COMMUNICATIONS*
  Adekanye, O. G., Davis, A., Azevedo, I. L.
  2021; 3 (1)
- **Energy Efficiency: What Has Research Delivered in the Last 40 Years?** *ANNUAL REVIEW OF ENVIRONMENT AND RESOURCES, VOL 46, 2021*
  Saunders, H. D., Roy, J., Azevedo, I. M. L., Chakravarty, D., Dasgupta, S., Du Can, S., Druckman, A., Fouquet, R., Grubb, M., Lin, B., Lowe, R., Madlener, R., Mccoy, et al
  edited by Gadgil, A., Tomich, T. P.
  2021; 46: 135-165
- **How does new energy storage affect the operation and revenue of existing generation?** *Applied Energy*
  Goteti, N. S., Hittinger, E., Azevedo, I. L.
  2021; 285 (116383)
- **Effects of Air Emission Externalities on Optimal Ridesourcing Fleet Electrification and Operations.** *Environmental science & technology*
  Bruchon, M. B., Michalek, J. J., Azevedo, I. L.
  2021
- **Global food system emissions could preclude achieving the 1.5° and 2°C climate change targets.** *Science (New York, N.Y.)*
  Clark, M. A., Domingo, N. G., Colgan, K., Thakrar, S. K., Tilman, D., Lynch, J., Azevedo, I. L., Hill, J. D.
  2020; 370 (6517): 705–8
- **Regional and county flows of particulate matter damage in the US** *ENVIRONMENTAL RESEARCH LETTERS*
  Sergi, B., Azevedo, I., Davis, S. J., Muller, N. Z.
  2020; 15 (10)
- **Characterizing the association between low-income electric subsidies and the intra-day timing of electricity consumption** *ENVIRONMENTAL RESEARCH LETTERS*
  Sherwin, E. D., Azevedo, I. M. L.
  2020; 15 (9)
- **The COVID-19 lockdowns: a window into the Earth System** *NATURE REVIEWS EARTH & ENVIRONMENT*
  Diffenbaugh, N. S., Field, C. B., Appel, E. A., Azevedo, I. L., Baldocchi, D. D., Burke, M., Burney, J. A., Ciais, P., Davis, S. J., Fiore, A. M., Fletcher, S. M., Hertel, T. W., Horton, et al
  2020; 1 (9): 470-481
- **Climate and Health Benefits of Rapid Coal-to-Gas Fuel Switching in the U.S. Power Sector Offset Methane Leakage and Production Cost Increases.** *Environmental science & technology*
  Deetjen, T. A., Azevedo, I. L.
  2020
- **What are the best combinations of fuel-vehicle technologies to mitigate climate change and air pollution effects across the United States?** *ENVIRONMENTAL RESEARCH LETTERS*
  Tong, F., Azevedo, I. M. L.
  2020; 15 (7)
- **Optimizing Emissions Reductions from the U.S. Power Sector for Climate and Health Benefits.** *Environmental science & technology*
  Sergi, B. J., Adams, P. J., Muller, N. Z., Robinson, A. L., Davis, S. J., Marshall, J. D., Azevedo, I. L.
  2020

- **The Paths to Net Zero How Technology Can Save the Planet** *FOREIGN AFFAIRS*
  Azevedo, I., Davidson, M. R., Jenkins, J. D., Karplus, V. J., Victor, D. G.
  2020; 99 (3): 18–27
- **Simulating a residential building stock to support regional efficiency policy** *APPLIED ENERGY*
  Glasgo, B., Khan, N., Azevedo, I.
  2020; 261
- **Reducing Mortality from Air Pollution in the United States by Targeting Specific Emission Sources** *Environmental Science & Technology Letters*
  Thakrar, S. K., Balasubramanian, S. X., Adams, P. J., Azevedo, I. M., Muller , N. Z., Pandis, S. N., Polasky, S., Pope III, C. A., Robinson, A. L., Apte, J. S., Tessum, C. W., Marshall, J. D., Hill, et al
  2020; 7 (9): 639-645
- **Life-cycle greenhouse gas emissions of alternative and conventional fuel vehicles in India**
  Peshin, T., Azevedo, I. M. L., Sengupta, S., IEEE
  IEEE.2020
- **Characterizing the association between low-income electric subsidies and the intra-day timing of electricity consumption** *Environmental Research Letters*
  Sherwin, E. D., Azevedo, I. M.
  2020; 15 (9)
- **Regional and county flows of particulate matter damage in the US** *Environmental Research Letters*
  Sergi, B., Azevedo, I., Davis, S. J., Muller, N. Z.
  2020; 15 (10)
- **The COVID-19 lockdowns: a window into the Earth system** *Earth & Environment*
  Diffenbaugh, N. S., Field, C. B., Appel, E. A., Azevedo, I. L., et al
  2020; 1: 470-481
- **Trace element allocation across air pollution control devices in coal fired power plants** *Philip L. Dowd Fellowship Award*
  Sun, X., Gingerich, D. B., Azevedo, I. L., Mauter, M. S.
  2020
- **Federal policy, local policy, and green building certifications in the U.S.** *Energy and Buildings*
  Adekanye, O. G., Davis, A., Azevedo, I. L.
  2020; 209 (15)
- **Hydrogen Storage for Fuel Cell Electric Vehicles: Expert Elicitation and a Levelized Cost of Driving Model** *Environmental Science & Technology*
  Whiston, M. M., Azevedo, I. M., Litster, S., Samaras, C., Whitefoot, K. S., Whitacre, J. F.
  2020; 55 (1): 553-562
- **Techno-economic analysis of forest biomass blends gasification for small-scale power production facilities in the Azores** *Fuel*
  Cardoso, J. C., Silva, V., Eusébio, D., Azevedo, I. L., Tarelho, L. A.
  2020; 279 (1)
- **Keep wind projects close? A case study of distance, culture, and cost in offshore and onshore wind energy siting** *Energy Research & Social Science*
  Lamy, J., Bruine de Bruin, W., Azevedo, I. M., Morgan, M.
  2020; 63
- **Quantifying the social equity state of an energy system: environmental and labor market equity of the shale gas boom in Appalachia** *ENVIRONMENTAL RESEARCH LETTERS*
  Mayfield, E. N., Cohon, J. L., Muller, N. Z., Azevedo, I. M. L., Robinson, A. L.
  2019; 14 (12)
- **Effects of on-demand ridesourcing on vehicle ownership, fuel consumption, vehicle miles traveled, and emissions per capita in US States** *TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES*
  Ward, J. W., Michalek, J. J., Azevedo, I. L., Samaras, C., Ferreira, P.

2019; 108: 289–301

- **Fine particulate matter damages and value added in the US economy.** *Proceedings of the National Academy of Sciences of the United States of America*
  Tschofen, P., Azevedo, I. L., Muller, N. Z.
  2019

- **How Much Are We Saving after All? Characterizing the Effects of Commonly Varying Assumptions on Emissions and Damage Estimates in PJM.** *Environmental science & technology*
  Donti, P. L., Kolter, J. Z., Azevedo, I. L.
  2019

- **Aligning evidence generation and use across health, development, and environment** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*
  Tallis, H., Kreis, K., Olander, L., Ringler, C., Ameyaw, D., Borsuk, M. E., Fletschner, D., Game, E., Gilligan, D. O., Jeuland, M., Kennedy, G., Masuda, Y. J., Mehta, et al
  2019; 39: 81–93

- **Choice at the pump: measuring preferences for lower-carbon combustion fuels** *ENVIRONMENTAL RESEARCH LETTERS*
  Helveston, J. P., Seki, S. M., Min, J., Fairman, E., Boni, A. A., Michalek, J. J., Azevedo, I. M. L.
  2019; 14 (8)

- **Alternative-fuel-vehicle policy interactions increase US greenhouse gas emissions** *TRANSPORTATION RESEARCH PART A-POLICY AND PRACTICE*
  Jenn, A., Azevedo, I. L., Michalek, J. J.
  2019; 124: 396–407

- **Trace Element Mass Flow Rates from US Coal Fired Power Plants** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
  Sun, X., Gingerich, D. B., Azevedo, I. L., Mauter, M. S.
  2019; 53 (10): 5585–95

- **Support for Emissions Reductions Based on Immediate and Long-term Pollution Exposure in China** *ECOLOGICAL ECONOMICS*
  Sergi, B., Azevedo, I., Xia, T., Davis, A., Xu, J.
  2019; 158: 26–33

- **Solar PV as a mitigation strategy for the US education sector** *ENVIRONMENTAL RESEARCH LETTERS*
  Hanus, N. L., Wong-Parodi, G., Vaishnav, P. T., Darghouth, N. R., Azevedo, I. L.
  2019; 14 (4)

- **Expert assessments of the cost and expected future performance of proton exchange membrane fuel cells for vehicles** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Whiston, M. M., Azevedo, I. L., Litster, S., Whitefoot, K. S., Samaras, C., Whitacre, J. F.
  2019; 116 (11): 4899–4904

- **Economic Viability of a Natural Gas Refueling Infrastructure for Long-Haul Trucks** *JOURNAL OF INFRASTRUCTURE SYSTEMS*
  Tong, F., Azevedo, I., Jaramillo, P.
  2019; 25 (1)

- **Understanding Cumulative Risk Perception from Judgments and Choices: An Application to Flood Risks** *RISK ANALYSIS*
  De La Maza, C., Davis, A., Gonzalez, C., Azevedo, I.
  2019; 39 (2): 488–504

- **Cumulative environmental and employment impacts of the shale gas boom.** *Nature sustainability*
  Mayfield, E. N., Cohon, J. L., Muller, N. Z., Azevedo, I. M., Robinson, A. L.
  2019; 2: 1122–31

- **Comparing consumer perceptions of appliances' electricity use to appliances' actual direct-metered consumption** *Environmental Research Communications*
  Lesic, V., Glasgo, B., Krishnamurti, T., Bruine de Bruin, W., Davis, M., Azevedo, I.
  2019; 1 (11)

- **Science and technology advice to European governments and to the European Union** *Theory and Practice in Policy Analysis*
  Morgan, M.
  2019
- **Reduced-Order Dispatch Model for Simulating Marginal Emissions Factors for the United States Power Sector.** *Environmental science & technology*
  Deetjen, T. A., Azevedo, I. L.
  2019
- **Fine Particulate Air Pollution from Electricity Generation in the US: Health Impacts by Race, Income, and Geography.** *Environmental science & technology*
  Thind, M. P., Tessum, C. W., Azevedo, I. L., Marshall, J. D.
  2019
- **Meeting U.S. Solid Oxide Fuel Cell Targets** *Joule*
  Whiston, M. M., Azevedo, I. M., Litster, S., Samaras, C., Whitefoot, K. S., Whitacre, J. F.
  2019; 3 (9): 2060-2065
- **Reducing the fuel consumption and greenhouse gas emissions of medium- and heavy-duty vehicles, phase two, final report**
  Research Council, N.
  The National Academies Press. Washington, DC.
  2019
- **The implications of scope and boundary choice on the establishment and success of metropolitan greenhouse gas reduction targets in the United States** *ENVIRONMENTAL RESEARCH LETTERS*
  Markolf, S. A., Matthews, H., Azevedo, I. M. L., Hendrickson, C.
  2018; 13 (12)
- **Global carbon intensity of crude oil production.** *Science (New York, N.Y.)*
  Masnadi, M. S., El-Houjeiri, H. M., Schunack, D., Li, Y., Englander, J. G., Badahdah, A., Monfort, J., Anderson, J. E., Wallington, T. J., Bergerson, J. A., Gordon, D., Koomey, J., Przesmitzki, et al
  2018; 361 (6405): 851–53
- **Decarbonizing intraregional freight systems with a focus on modal shift** *ENVIRONMENTAL RESEARCH LETTERS*
  Kaack, L. H., Vaishnav, P., Morgan, M., Azevedo, I. L., Rai, S.
  2018; 13 (8)
- **Expert assessments on the future of direct current in buildings** *ENVIRONMENTAL RESEARCH LETTERS*
  Glasgo, B., Azevedo, I., Hendrickson, C.
  2018; 13 (7)
- **Net-zero emissions energy systems** *SCIENCE*
  Davis, S. J., Lewis, N. S., Shaner, M., Aggarwal, S., Arent, D., Azevedo, I. L., Benson, S. M., Bradley, T., Brouwer, J., Chiang, Y., Clack, C. T. M., Cohen, A., Doig, et al
  2018; 360 (6396): 1419-+
- **Assessing the evolution of power sector carbon intensity in the United States** *ENVIRONMENTAL RESEARCH LETTERS*
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- **Energy efficiency and conservation: a bright idea with solid-state lighting?** *European Council for an Energy Efficient Economy (ECEEE) Summer Study*
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PRESENTATIONS

- Effects of On-Demand Ridesourcing on U.S. Vehicle Ownership, Travel Patterns, and Energy Use Externalities - NBER Conference on Economics of Energy Use in Transportation (5/3/2019)
- Panel at Stanford Energy Dialogues on Energy Demand - Stanford Energy (1/21/2020 - 1/21/2020)
- “Distributional effects from air pollution in the United States” - Lawrence Berkeley National Laboratory (11/13/2019 - 11/13/2019)
- Optimal ride-hailing fleets electrify more, modify operations, and reduce air pollution emissions when emissions costs are internalized - CARS Annual Meeting, Stanford University (11/7/2019 - 11/7/2019)
- Air pollution and climate consequences from energy strategies in the United States - Energy Institute Seminar (10/21/2019 - 10/21/2019)
- "Understanding the Health, Environmental, and Climate Change Consequences of Different Energy Technology Strategies in the United States”, - Chevron Leaders meeting (10/14/2019 - 10/14/2019)
- “Understanding the Health, Environmental, and Climate Change Consequences of Different Energy Technology Strategies in the United States”, - Rice University (9/26/2019 - 9/26/2019)
- “Understanding the Health, Environmental, and Climate Change Consequences of Different Energy Technology Strategies in the United States”, - Energy @ Stanford and SLAC
- “The health, environmental and climate change effect of energy intervention" - University of Pittsburgh at Greensburg (4/16/2019 - 4/16/2019)
- "Sustainability: Where Engineering Meets Behavioral Science”, - Mascaro Environmental Sustainability Conference, (4/7/2019 - 4/9/2019)
- “Health, environmental, and climate change consequences of different interventions in the U.S. Power Sector”, - Oak Ridge Annual Meeting of the Council for Sponsoring Institutions (ORAU) (3/5/2019 - 3/5/2019)
- “Energy, Climate Change, & Air Quality”, - Encontros da Ciência
- “Energy Demand”, - IIASA & RITE Workshop in Nara (9/25/2018 - 9/27/2018)
- Climate, health and environmental consequences of climate change mitigation interventions in the U.S. electric grid - Imperial University (6/29/2018 - 6/29/2018)
- “Understanding the effects of different interventions in the U.S. Power Sector - ETH Academy on Sustainability and Technology (6/1/2017 - 6/1/2017)
- “De-carbonization of the U.S. electricity sector” - CMU Energy Week Panel (3/31/2017 - 3/31/2017)
- “A presentation of the Climate and Energy Decision Research”, (3/29/2017 - 3/29/2017)
- “Achieving Deep Carbon Reductions: Paths for Pennsylvania’s Electricity Future” - Pennsylvania Environmental Council meeting (3/15/2017 - 3/15/2017)
- “Understanding costs, benefits and environmental justice issues when pursuing different interventions in the US electric system,” - Energy and Resources Engineering Department
- “Combining social science research and energy systems approaches: what can we learn about energy efficiency rebound effects,” - Colloquia for the Center for Energy Policy and Economics (12/16/2016 - 12/16/2016)
- “Understanding costs, benefits and environmental justice issues when pursuing different interventions in the US electric system” - Colloquia for the Institute of Science, Technology and Policy (12/13/2016 - 12/13/2016)
- “Energy efficiency rebound effects,” - Behavioral Coloquium (12/16/2016)
- “Understanding the health, environmental and climate change benefits from interventions in the US electricity grid,” - Program in Science, Technology, and Environmental Policy (STEP) (12/5/2016)
- “Location-specific costs and benefits of rooftop solar photovoltaic,” - iTeam Seminar at Carnegie Mellon University (12/6/2016)
- “Health, environmental and climate change effects of interventions in the US electric grid,” - UC San Diego (10/26/2016)
- “Health, environmental and climate change effects of interventions in the US electric grid,” - Federation of American Scientists (FAS) 70th Year Anniversary Symposium and Gala (9/26/2016)
- “Understanding health, environmental and climate trade-offs and co-benefits in climate change mitigation strategies for the power sector and transportation,” - UC Irvine (9/21/2016)
- “Understanding health, environmental and climate trade-offs and co-benefits in climate change mitigation strategies for the power sector and transportation,” - UC Berkeley (9/12/2016)
- "Getting near zero: decarbonizing the last 20%" - Aspen Global Change Institute (8/5/2016)
- 29. “Understanding the uncertainties in consequences of climate change for the United States power sector infrastructure when considering a realistic mitigation pace and adaptation needs,” - ETH (5/30/2016)
- “Overview of CEDM work” - First Steinbrenner Annual Meeting (4/22/2016)

- “Perceived trade-offs in greenhouse cases and criteria air pollutant electricity portfolios” - The Electricity Conference (4/21/2016)
- “Energy pathways, policies and decisions” - Andy Talk at the First Energy Week (3/14/2016)
- “What can we learn about energy efficiency rebound effects?” - Leeds University (11/11/2015)
- “Understanding the health, environmental and climate change damages from interventions in the US electricity grid,” - Wayne State University (10/8/2015)
- “Energy efficiency and the rebound effect” - EMF Climate Change Impacts and Integrated Assessment (7/23/2015)
- “De-carbonizing the electricity sector in the United States: what big data analytics can tells us about sustainable transitions,” - EMF Climate Change Impacts and Integrated Assessment (7/23/2015)
- “Energy innovation for climate change: systems approaches and societal responses” - Our Common Future Under Climate Change International Scientific Conference (7/10/2015)
- "Consumer choices of lighting products and the feasibility of DC circuits for lighting” - SPARC International Lighting Event (5/28/2015)
- “The benefits and costs of pushing renewables,” - 2015 Austin Electricity Conference (4/2015)
- “Behavior first: powering up innovation by putting people at the center of program design and strategy” - Emerging Technologies Summit (10/21/2014)
- “Keep it simple to keep it cool: improving projections in energy demand" - IRGC workshop on “Improving Demand Projections” (10/14/2014)
- “China energy innovation,” - Tianjin University (9/13/2014)
- “Interdisciplinary research in energy efficiency and climate change - Power Lunch Seminar at Duke University (2/28/2014)
- Trade-offs in climate mitigation strategies: assessing the regional variations in the health, environmental, and climate benefits of wind and solar generation across the US,” - Nicholas School for the Environment, Duke University (2/28/2014)
- “Assessing the regional variations in the health, environmental, and climate benefits of wind and solar generation across the United States,” - the IEEE Women in Engineering seminar series (2/12/2014)
- “The need to account for uncertainty,” - CRAG-IRGC Symposium (11/21/2013)
- 49. “Assessing the regional variations in the health, environmental, and climate benefits of wind and solar generation across the United States / Learning curves for energy technologies,” - NETL (6/12/2013)
- “Assessing the regional variations in the health, environmental, and climate benefits of wind and solar generation across the United States,” - Iniciativa Ambiente, Instituto Superior Técnico (5/28/2013)
- “Assessing the regional variations in the health, environmental, and climate benefits of wind and solar generation across the United States,” - Coimbra University (5/27/2013)
- "Research on energy efficient lighting: understanding the engineer-economics aspects, consumer perceptions of light and color and consumer decision-making models,” - Golisano Institute for Sustainability, Rochester Institute of Technology (5/1/2013)
- "Assessing the regional variations in the health, environmental, and climate benefits of wind and solar generation across the United States,” - Conference on Mathematics of Energy and Climate Change (3/26/2013)
- “Energy efficiency supply curves” - Advanced School on Mathematics of Energy and Climate Change (3/28/2013)
- “Assessing the regional variations in the health, environmental, and climate benefits of wind and solar generation across the United States,” - Rutgers Energy Institute (REI) Seminar Series, Rutgers University (February 9, 2013)
- “Reducing CO2 emissions: technology, uncertainty, decision making and consumer behavior” - Energy & Resources Group at University of California Berkeley and the Lawrence Berkeley National Laboratory (10/31/2012)
- “Research on energy efficient lighting: understanding the engineer-economics aspects, consumer perceptions of light and color and consumer decision-making models,” - Center for Research in Environmental Decisions (CRED) (4/26/2012)
- “The Importance of Climate Data for Energy Efficiency Investments” - Asian Pacific Economic Cooperation (APEC) Climate Symposium 2011 (10/17/2011)
- “Learning curves and wind diffusion for wind technology in the European Union” - ICCG and ICARUS project (5/20/2011)
- “A transition to solid state lighting” - Faculdade de Engenharia do Porto (FEUP) at Porto University (5/5/2010)
- “An engineering-economic analysis of white light-emitting diodes for general illumination for the US residential and commercial sectors,” - Environmental Energy Technologies Division Seminars (2/15/2008)
- “Realistic energy efficiency supply curves for the US residential sector,” - Climate Decision Making Center Seminar Series, CMU (2/5/2008)
- “Decarbonizing electricity/electricity transition" - Our Common Future Under Climate Change International Scientific Conference (7/9/2015)
- Invited panel presentation and discussion for Engineering the Anthropocene - Engineering the Anthropocene (March 5, 2020 - March 5, 2020)

- “Understanding the health and climate change effects of energy technologies in the United States” - Department of Civil and Environmental Engineering, UC Berkeley (February 28, 2020 - February 28, 2020)
- “Understanding the health and climate change effects of energy technologies in the United States” - Santa Fé Institute workshop on New Mexico Decarbonization, Invited Talk, Santa Fe Institute (February 27, 2020 - February 27, 2020)