



UNIVERSITY of WASHINGTON



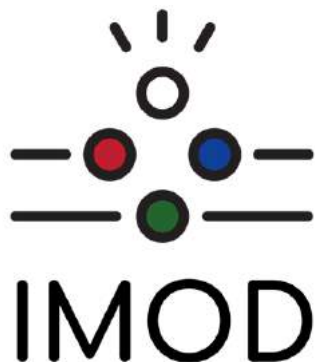
CLEAN ENERGY
INSTITUTE

DECEMBER 2021



The technology to reach net zero carbon emissions isn't ready for prime time, but...

In Scientific American, CEI director Dan Schwartz calls for additional federal support for climate tech R&D.



[NSF to fund revolutionary center](#)



[Transforming the nation's](#)

for optoelectronic, quantum technologies

CEI chief scientist David Ginger is the director of the new [Center for Integration of Modern Optoelectronic Materials on Demand](#) (IMOD), backed by the National Science Foundation with \$25M over five years.



electrical grid to better support renewable energy

CEI faculty member Brian Johnson, Washington Research Foundation Innovation Assistant Professor of Clean Energy, will co-lead the new UNiversal Interoperability for Grid-Forming Inverters Consortium (UNIFI), funded by a \$25M award from the U.S. Department of Energy.



Elevating battery standards for the skies

Astrolabe Analytics has won a U.S. Air Force Small Business Innovation Research grant to accelerate battery innovation for electric aviation.

Balancing science with service

CEI Graduate Fellow Shua Sanchez is exploring the frontiers of new materials while striving for justice in his community.

COMMUNITY & EVENTS



[Professor Lilo Pozzo joins Digital](#)



[Meet CEI's 2021-2022 graduate](#)

[Discovery editorial board](#)

UW Chemical Engineering and CEI member faculty Lilo Pozzo has joined the Royal Society of Chemistry's Digital Discovery editorial board. Dr. Pozzo and her group use data science to assist research of new materials for energy conversion and storage.

[fellows](#)

CEI welcomed 26 new graduate fellows to the program this September from across 9 departments. Learn more about the new fellows and their research on our website!

[Upcoming CEI seminars](#)

January 13, 2022

[Pierre Pinson](#) - Technical University of Denmark

February 10, 2022

[Marija Ilic](#) - Massachusetts Institute of Technology

March 3, 2022

[Venkat Viswanathan](#) - Carnegie Mellon University

RESEARCH HIGHLIGHTS

[Realigning the Chemistry and Parameterization of Lithium-Sulfur Battery Models to Accommodate Emerging Experimental Evidence and Cell Configurations](#)

ChemElectroChem

[Modeling Current Density Non-Uniformities to Understand High-Rate Limitations in 3D Interdigitated Lithium-ion Batteries](#)

Journal of The Electrochemical Society

[Direct intercalation of MoS₂ and WS₂ thin films by vacuum filtration](#)

Materials Horizons

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