

Summer Newsletter

UW Clean Energy Institute <uwcei@uw.edu>

Tue 7/14/2020 3:01 PM

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July 2020

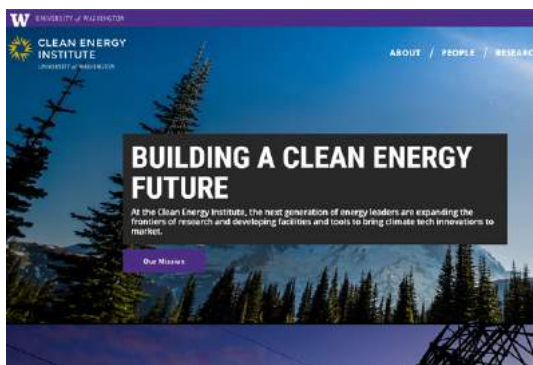
INSTITUTE NEWS



Researchers join forces with industry to boost U.S. solar manufacturing

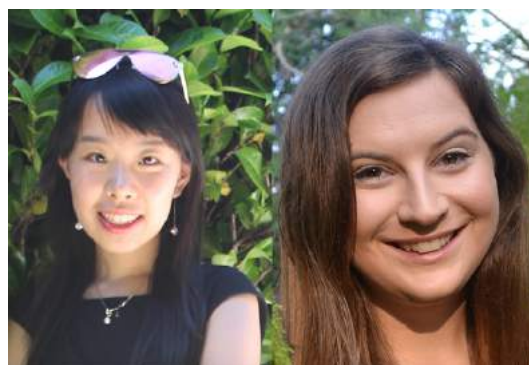
Working with leading domestic solar companies, the Washington Clean Energy Testbeds, NREL, UNC Chapel Hill, and the University of Toledo have formed the [U.S.](#)

[Manufacturing of Advanced Perovskites Consortium \(US-MAP\)](#). This research and development coalition aims to accelerate the domestic commercialization of perovskite technologies. CEI Chief Scientist David Ginger, a member of US-MAP's executive board, spoke to the [Casper Star Tribune](#) earlier this year about advances in perovskite solar cells.



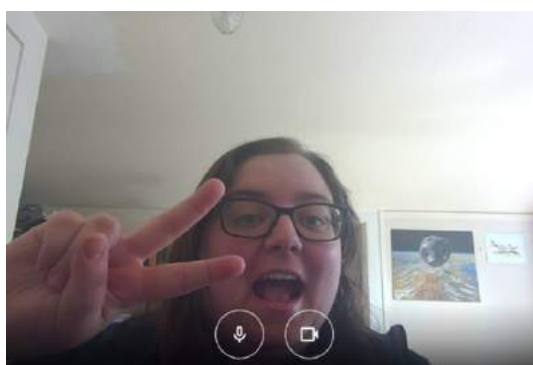
New website!

[Our new website is here!](#) We'd like to thank the CEI students, faculty, and partners that contributed feedback and ideas. We hope you like it! Questions or comments, email uwcei@uw.edu.



Student Achievement Awards

Yuanyuan Shi and Erica Eggleton received CEI's 2020 [Student Achievement Awards](#). Shi, who graduated from UW in June with a Ph.D. in electrical & computer engineering, won the Scientific Achievement Award for her work in machine learning for energy systems. Eggleton, a chemical engineering doctoral student, won the Outreach & Service Award for outstanding volunteer work in schools and at UW.



At-home learning during COVID-19



That's debatable: Washington state can

Soon after COVID-19 closed schools, CEI developed [at-home learning resources](#) for K-12 parents, teachers, and students. In addition to lesson plans and science readings, we've offered virtual classroom visits from our clean energy ambassadors. Read more about this outreach work in [GeekWire](#).

[decarbonize in a decade](#)

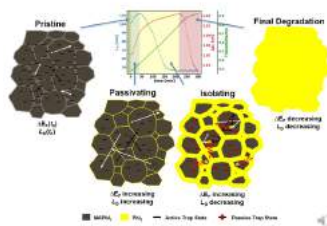
CEI Director Dan Schwartz participated in [KUOW's live debate](#) on whether Washington state can decarbonize in the next decade--achieving zero emissions from our energy use. His teammate on the "con" side was Julia Barnett, an activist entering the 8th grade. On the "pro" side was UW architecture professor Kate Simonen and Sarah Starman, a grassroots organizer.



[Environmental Innovation Challenge Winners](#)

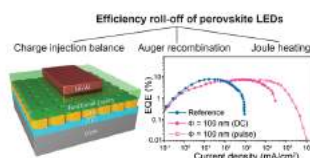
The CEI-sponsored "Clean Energy Prize" at this year's [Alaska Airlines Environmental Innovation Challenge](#) went to Moment, a team of engineering students from Simon Fraser University in British Columbia. Moment is developing sustainable energy storage from used electric-vehicle batteries. The "Connie Bourassa-Shaw Spark Prize" was awarded to [ChocoLED](#), a team helmed by CEI Graduate Fellow Yunping Huang. ChocoLED is developing a low-cost, eco-friendly solution to lighting and displays by using cocoa beans.

RESEARCH HIGHLIGHTS



Using machine learning to forecast the degradation of perovskites

ACS Energy Letters



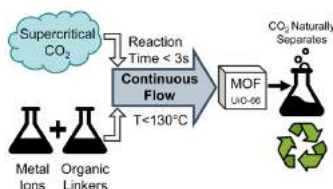
Suppressing Efficiency Roll-Off at High-Current Densities for Ultra-Bright Green Perovskite Light-Emitting Diodes

ACS Nano



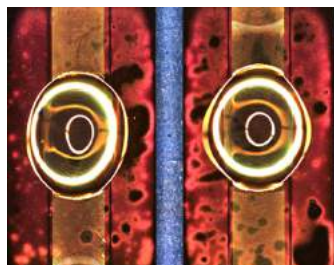
A proposal towards a scalable single-photon source to create a quantum simulator

ACS Photonics



Scalable Continuous Flow Metal-Organic Framework (MOF) Synthesis Using Supercritical CO2

ACS Sustainable Chemistry & Engineering



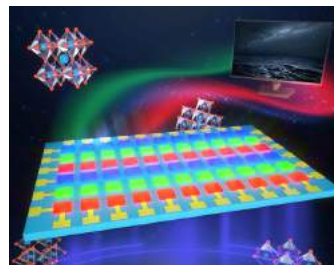
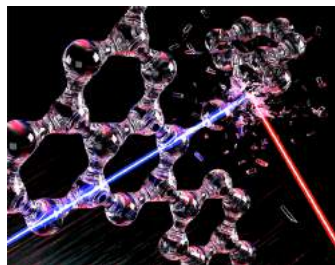
Active self-cleaning surface design for solar panels with water droplets

Applied Physics Letters



The challenges and contradictions of Peru's Proyecto Masivo de Energía Solar

Elsevier Science



**Understanding
how solid
catalysts
powered by
electricity
convert organics
in water to liquid
hydrocarbons**

Journal of Catalysis

**Solar-to-fuel
energy
conversion:
Multi-pulse laser
experiments
reveal a new way
to control
chemical
reactions with
light**

*The Journal of Physical
Chemistry*

**Photolithographic
Patterning of
Perovskite Thin
Films for
Multicolor
Display
Applications**

Nano Letters

JOB OPPORTUNITY

CEI's education director, Shaun Taylor, will retire this summer. CEI is looking for an [Associate Director of Education & Workforce Development](#).

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