



JULY 2021



Jonathan Onorato & Mitchell Kaiser win clean energy student awards

Onorato received the Scientific Achievement Award for his work with semiconducting polymers. Kaiser received the Outreach & Service Award for contributions to CEI K-12 education programs.



Testbeds & Partners receive DOE EPIC grant

As part of this initiative, the Testbeds will launch the new CleanTech Hardware Innovation Prototyping (CHIP) program that will increase access to advanced



Dianne Xiao receives DOE Early Career Research Award

Professor Xiao's research program seeks to discover next-generation materials that address unmet needs in clean energy, catalysis, and environmental remediation.

capabilities for scaled prototyping, testing, and demonstration at the facility.



[I want to fly to Hawaii, but I don't want to wreck the planet. With carbon offsets, can I do both?](#)

CEI Director Dan Schwartz offers his take on purchasing carbon offsets in *GeekWire*.



[Rep. Boehnke visits CEI](#)

In June, Representative Matt Boehnke from the 8th legislative district in the Tri-Cities area and his wife, visited the Washington Clean Energy Testbeds with professors Dan Schwartz, Devin MacKenzie, Daniel Kirschen and Jun Liu, and Testbeds Managing Director Mike Pomfret.

EVENTS

[Clean Energy Entrepreneur Workshop](#)

September 1, 2021 (virtual)

8:00 AM - 12:30 PM

Sessions will cover working with investors, finding climate tech business resources, and navigating the entrepreneurial experience. Dr. Andrew Benedek of Anaergia Inc. will give the keynote address. Free for UW students, postdocs, faculty, and staff.

RESEARCH HIGHLIGHTS

[Laser-Driven Growth of Semiconductor Nanowires from Colloidal Nanocrystals](#)

ACS Nano

[Naturally Derived Organic Dyes for LED Lightings of High Color Rendering and Fidelity Index](#)

Advanced Sustainable Systems

Evaluation of Solar-Powered Battery Systems for Individuals Using Electricity-Dependent Medical Devices in Puerto Rico Following Hurricane Maria

Cambridge University Press

Realigning the Chemistry and Parameterization of Lithium-Sulfur Battery Models to Accommodate Emerging Experimental Evidence and Cell Configurations

ChemElectroChem

Modular Zwitterion-Functionalized Poly(isopropyl methacrylate) Polymers for Hosting Luminescent Lead Halide Perovskite Nanocrystals

Chemistry of Materials

Reducing Surface Recombination Velocity of Methylammonium-Free Mixed-Cation Mixed-Halide Perovskites via Surface Passivation

Chemistry of Materials

CO₂ Hydrogenation Catalyzed by a Ruthenium Protic N-Heterocyclic Carbene Complex

Inorganic Chemistry

Thermolabile Cross-Linkers for Templating Precise Multicomponent Metal-Organic Framework Pores

Journal of the American Chemical Society

On interface recombination, series resistance, and absorber diffusion length in BiI₃ solar cells

Journal of Applied Physics

Green syntheses of stable and efficient organic dyes for organic hybrid light-emitting diodes

Journal of Materials Chemistry C

A high-conductivity n-type polymeric ink for printed electronics

Nature Communications

Highly anisotropic excitons and multiple phonon bound states in a van der Waals antiferromagnetic insulator

Nature Nanotechnology

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