



UNIVERSITY of WASHINGTON



CLEAN ENERGY
INSTITUTE

NOVEMBER 2020



CEI welcomes first Policy Analyst in Residence Tony Usibelli

Thanks to generous support from the Mark Torrance Foundation, CEI established the PAIR position and created the new Torrance Science Policy Analysis Track for UW STEM doctoral students.



New CEI Graduate Fellows

CEI has selected 26 Ph.D. students for



Designing cutting-edge materials from home

2020-21 Graduate Fellowships. CEI funds students from departments across UW to explore new research in solar energy, energy storage, and energy systems.

UW professors Ting Cao and Xiaosong Li bring computational science to the virtual classroom during COVID-19.



Mobilizing Seattle's innovation and manufacturing might for clean-energy leadership

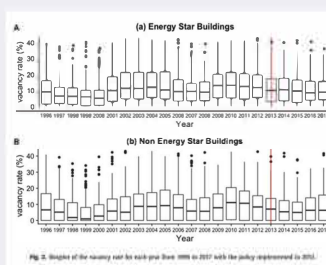
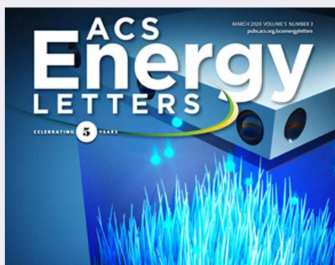
How can we recover from a health crisis during a climate crisis? Five UW experts, including CEI Director Dan Schwartz, weigh in.



PNNL-UW materials science pioneer James De Yoreo receives DOE Distinguished Scientist Fellow Award

The DOE recognized De Yoreo for his “transformational discoveries that have reshaped our understanding of materials synthesis from complex nucleation pathways to hierarchical assembly, for leadership in National Laboratory-University partnerships, and for dedication to mentoring the next generation of scientists.”

RESEARCH HIGHLIGHTS



**Challenges in
Lithium Metal
Anodes for Solid-
State Batteries**

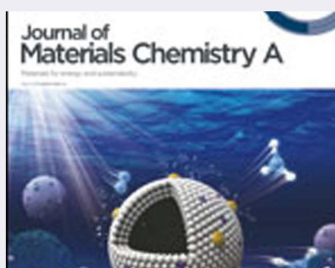
ACS Energy Letters

**Simulation of
the diffusional
impedance and
application to
the
characterization
of electrodes
with complex
microstructures**

Electrochimica Acta

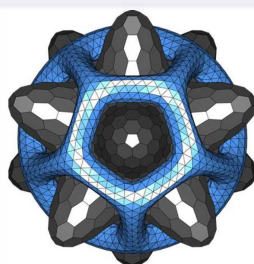
**Impact of energy
benchmarking
and disclosure
policy on office
buildings**

*Journal of Cleaner
Production*



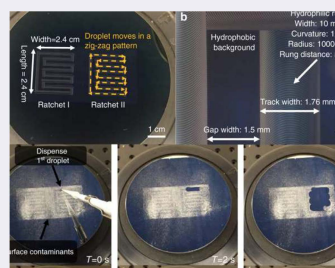
**Valence-to-core
X-ray emission
spectroscopy of
vanadium oxide
and lithiated
vanadyl
phosphate
materials**

*Journal of Materials
Chemistry A*



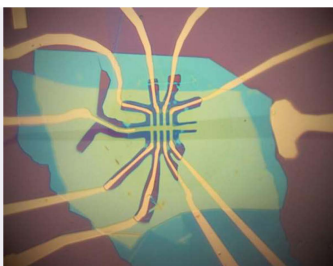
**DiffCapAnalyzer:
A Python
Package for
Quantitative
Analysis of Total
Differential
Capacity Data**

*The Journal of Open-
Source Software*



**An active self-
cleaning surface
system for
photovoltaic
modules using
anisotropic
ratchet
conveyors and
mechanical
vibration**

*Microsystems &
Nanoengineering*



**All together
now:
Experiments
with twisted 2D
materials catch
electrons
behaving
collectively**

Nature Physics



**Solvent
oligomerization
pathways
facilitated by
electrolyte
additives during
solid-electrolyte
interphase
formation**

*Physical Chemistry
Chemical Physics*

JOB OPENINGS

Entrepreneur in Residence

We're looking for our next Entrepreneur in Residence (EIR) to advise climate tech startups at the Washington Clean Energy Testbeds.

**Read about former EIR Scott Case's new startup, Recurrent, in [Geekwire](#).*

Testbeds Research Scientist/ Engineer

Join the Testbeds team! Experience with advanced additive manufacturing (3D printing, inkjet printing of functional materials, roll-to-roll manufacturing) and other printing and coating techniques for functional thin films required.

EVENTS

Startup Investing 101 & Cleantech Investment Trends

November 17, 2020

Join Testbeds Investor in Residence Jeff Canin and his fellow E8 board members, Lee Otis and Eric Berman, for a discussion about the state of cleantech investing.

UW HOME

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