Bridging the gap to clean energy research

Vanessa Zambrano kickstarted her clean energy career through CEI's Research Experience for Undergraduates program.

Powering electric buses

Samson Jenekhe's pioneering polymer work paved the way for
KNKX and the Talking Headways podcast interviewed CEI Graduate Fellow Erica Eggleton about her work on Route Dynamics, an open-source program that estimates the energy demand for electric bus routes run by King County Metro.

**commercial OLEDs**

Professor Jenekhe’s semiconducting polymers, found in displays and solar cells, emerged from decades of careful engineering. Read about his career in Chemical & Engineering News.

---

**6 CEI researchers among world’s most influential scholars**

UW professors Guozhong Cao, David Cobden, Alex K.Y. Jen, Jun Liu, Xiaodong Xu, and CEI Graduate Fellow Kyle Seyler make Web of Science Group’s 2020 list of Highly Cited Researchers.

**Building green data centers**

Professors Stu Adler and Baosen Zhang spoke to ZDNet about how tech companies can build better data centers. Professor Adler also spoke to The Seattle Times about Amazon’s renewable energy goals. Read more about the professors’ work with the Energy Information Nexus center.

---

**RESEARCH HIGHLIGHTS**

- **Scanning kelvin probe microscopy reveals that ion**
- **Surface chemistry and quantum dot luminescence**
- **Ligand pyrolysis during air-free inorganic**
motion varies with dimensionality in 2D halide perovskites
ACS Energy Letters

shell growth, atomistic modification, and beyond
ACS Energy Letters

nanocrystal synthesis
Chemistry of Materials

Complex relationship between side-chain polarity, conductivity, and thermal stability in molecularly doped conjugated polymers
Chemistry of Materials

Predicted network equilibrium model of electric vehicles with stationary and dynamic charging infrastructure on the road network
IEEE Intelligent Transportation Systems Magazine

Risk exposure, externalization and allocation in unbundled power systems
IEEE Transactions on Power Systems

Elucidating the location of Cd\textsuperscript{2+} in

Dynamic electrochemical impedance

Coherent spin precession and lifetime-limited
Efficient and bright white light-emitting diodes based on single-layer heterophase halide perovskites

Nature Photonics

Suppression of superconductivity by anisotropic strain near a nematic quantum critical point

Nature Physics

Effects of charging infrastructure characteristics on electric vehicle preferences of new and user car buyers in the United States

Transportation Research Record: Journal of the Transportation Research Board