

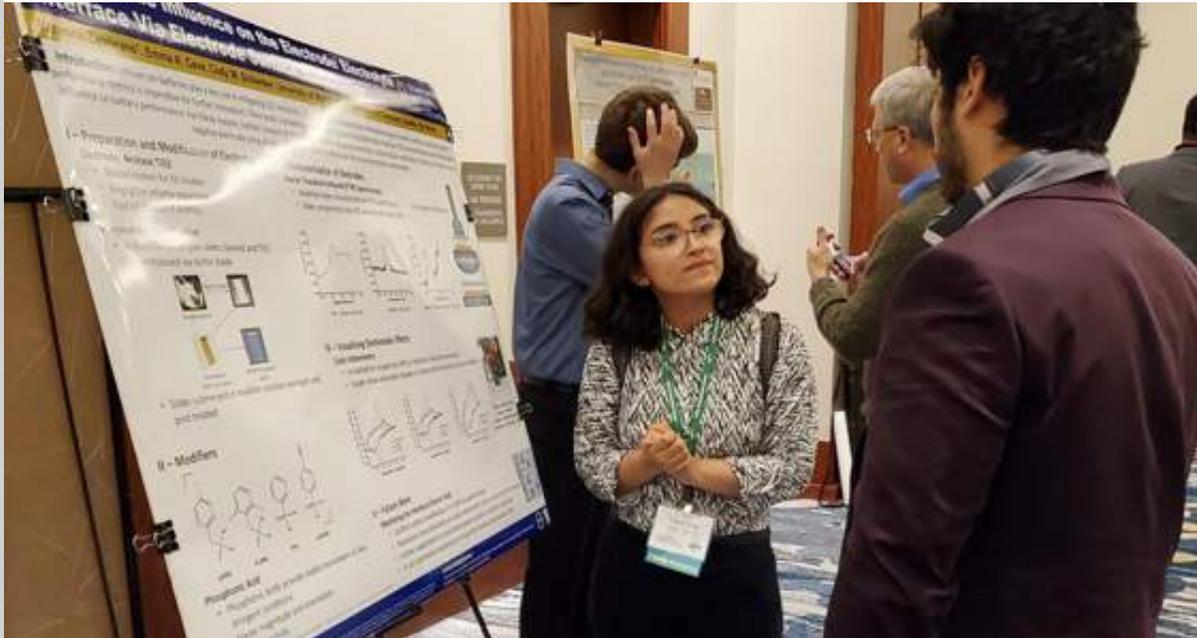


UNIVERSITY of WASHINGTON



CLEAN ENERGY
INSTITUTE

MARCH 2021

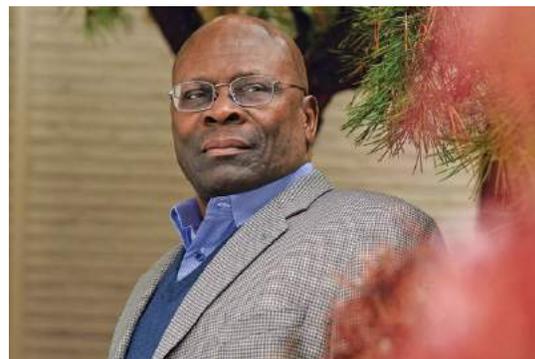


Bridging the gap to clean energy research

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



Powering electric buses

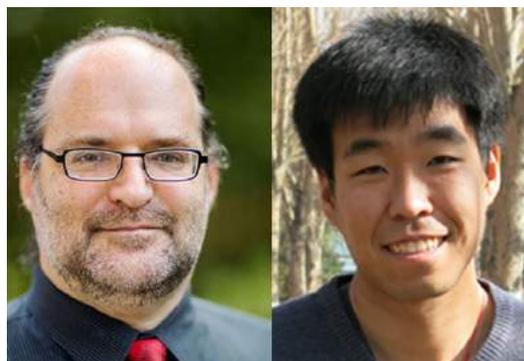


Samson Jenekhe's pioneering polymer work paved the way for

[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](#).



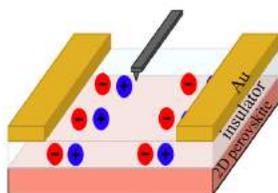
[6 CEI researchers among world's most influential scholars](#)

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.

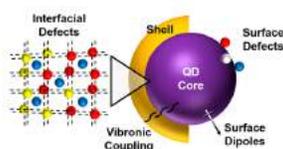
[Building green data centers](#)

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.

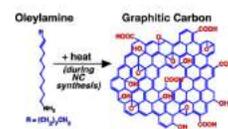
RESEARCH HIGHLIGHTS



[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

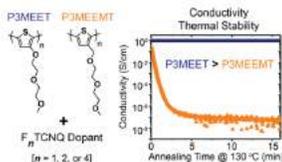
ACS Energy Letters

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

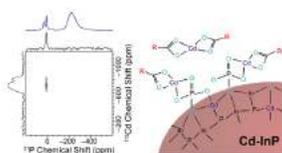
IEEE Intelligent Transportation Systems Magazine

IEEE TRANSACTIONS ON POWER SYSTEMS



Risk exposure, externalization and allocation in unbundled power systems

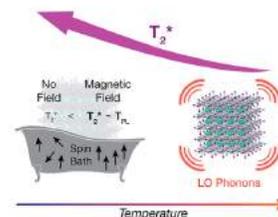
IEEE Transactions on Power Systems



Elucidating the location of Cd²⁺ in



Dynamic electrochemical impedance



Coherent spin precession and lifetime-limited

post-synthetically treated InP quantum dots using dynamic nuclear polarization ^{31}P and ^{113}Cd solid-state NMR spectroscopy

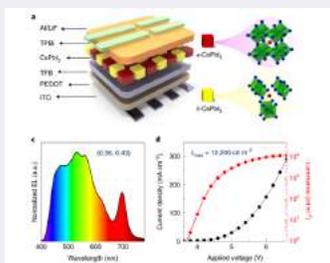
The Journal of Physical Chemistry C

spectroscopy of lithium-ion batteries: revealing underlying physics through efficient joint time-frequency modeling

Journal of the Electrochemical Society

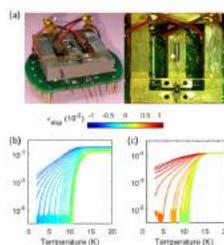
spin dephasing in CsPbBr₃ perovskite nanocrystals

Nano Letters



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



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