

WINTER 2020



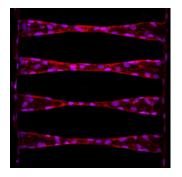
Collaborating for Cleantech

In collaboration with chemistry professor <u>Daniel Gamelin</u>, and materials science & engineering professors <u>Christine Luscombe</u> and <u>Devin Mackenzie</u>, molecular engineering Ph.D. student Ted Cohen is developing 3D-printable resins containing evenly dispersed perovskite nanocrystals for luminescent solar concentrators and other real-world applications.

READ MORE



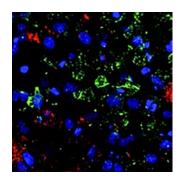
RESEARCH HIGHLIGHTS



Engineered capillaries model traffic in tiny blood vessels

Bioengineering professor <u>Cole DeForest</u> collaborated with researchers at the <u>UW Institute for Stem Cell & Regenerative Medicine</u> and <u>Seattle Children's</u> to engineer tiny blood vessels that shed light on how severe malaria infections cause red blood cells to get stuck in the bloodstream's narrowest passageways.

<u>Science Advances</u> | <u>UW Medicine Newsroom</u>

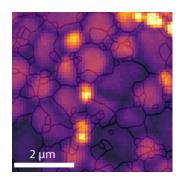


Using quantum dots for brain research

Mengying Zhang, a molecular engineering Ph.D. student in chemical engineering professor <u>Elizabeth</u>

Nance's lab, characterized how quantum dots behave in developing brains with the hope of developing them as therapeutic and diagnostic tools for brain disorders.

Nanoscale Advances | The Conversation

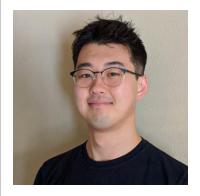


New technique lets researchers map strain in next-gen solar cells

A team led by <u>David Ginger</u>, chemistry professor and <u>Clean Energy Institute</u> chief scientist, developed a new way to illuminate strain in perovskite solar cells without harming them.

Joule | UW News

CONGRATULATIONS



MolE student recognized for



MolES faculty named president of IUPAC



Fall 2019 graduates of the MolE Ph.D.

excellence in graduate polymer research

engineering Ph.D. student in bioengineering professor Suzie Pun's lab, was selected to present at the American Chemical Society's Excellence in Graduate Polymer Research Symposium in March.

Polymer Division

As president of the
International Union of Pure
and Applied Chemistry
(IUPAC) Polymer
Division, MolES education
director Christine
Luscombe will help facilitate
scientific exchanges to
promote the science and
technology of
macromolecules and
polymers at the
international level.
Read her Macromolecules

Editorial

program

MolE students Justin
Davis (Novosselov lab),
Dion Hubble (Jen lab) and
Grant Williamson (
Holmberg lab) worked on
designing better
batteries and combatting air
pollution. Learn more about
their research and what they
are working on since
completing their Ph.D.s last
fall!

STAFF SPOTLIGHT



MICROSCOPY: WHERE SCIENCE MEETS ART

Molecular Analysis Facility staff scientist **Scott Braswell** loves that microscopy draws on many areas of knowledge; knowledge of what you're observing, technical skills in capturing a good image, and your own aesthetic.

READ OUR Q&A



UPCOMING SEMINARS

Tuesdays 1:00 - 2:00 PM in Nanoengineering and Sciences (NAN 181)

February 25 | Wearable cyber-physical systems for adaptive correction of blurred vision *Carlos Mastrangelo, University of Utah*

March 3 | Boosting intracellular delivery of mRNA therapeutics *Gaurav Sahay, Oregon Health & Science University*

