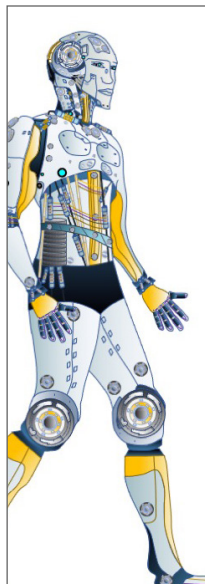


**ENGINEERING COMMUNICATIONS**  
*Services Available for Faculty, Staff and Students*



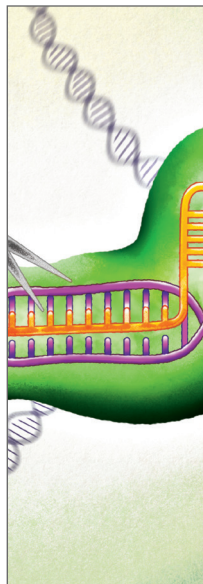
1

JOURNAL  
COVER



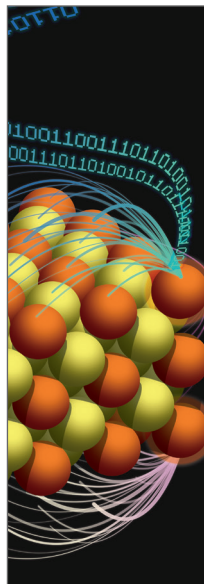
2

CENTER  
OVERALL  
FIGURE



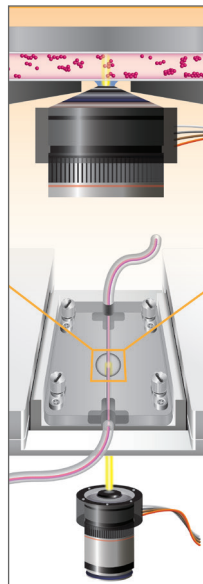
3

GRAPHICAL  
ABSTRACT



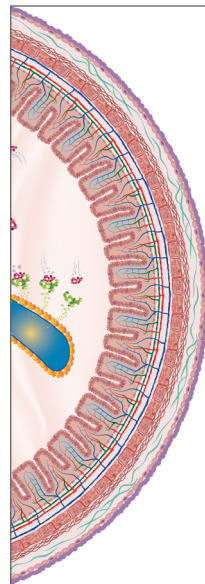
4

RESEARCH/  
DATA  
FIGURES



5

TECHNICAL  
SCHEMATIC



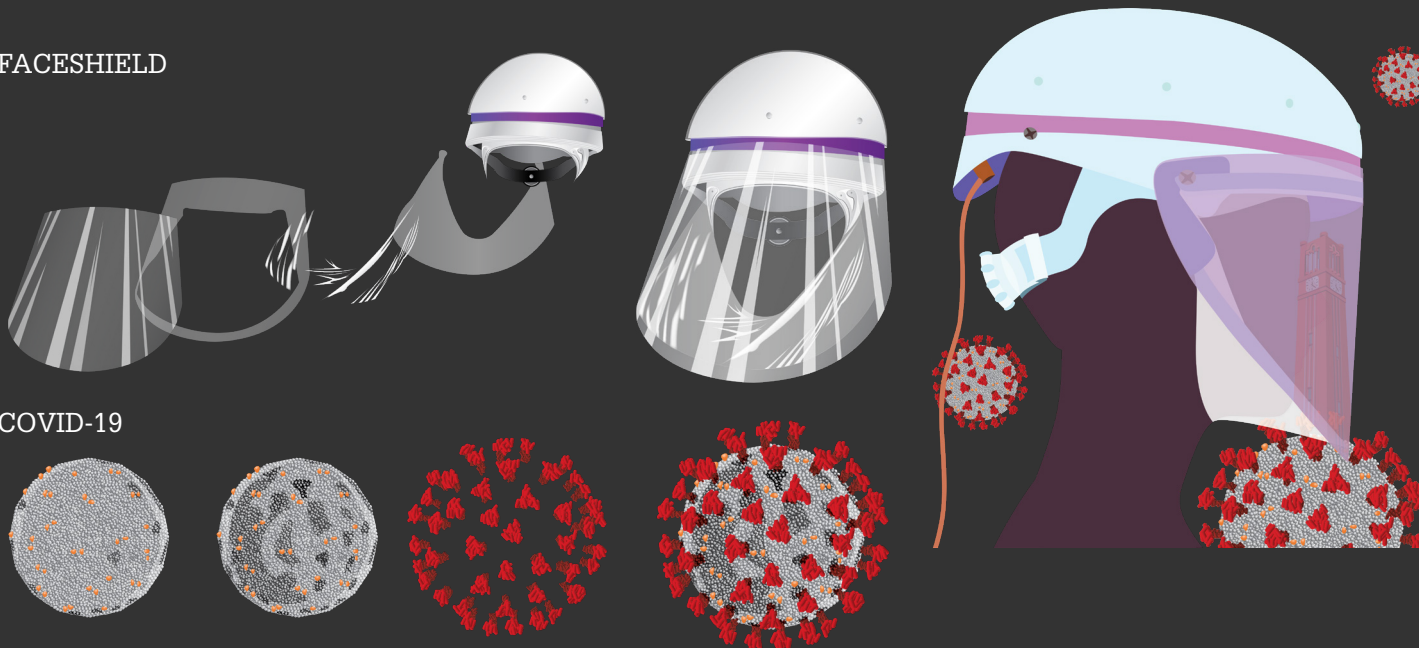
6

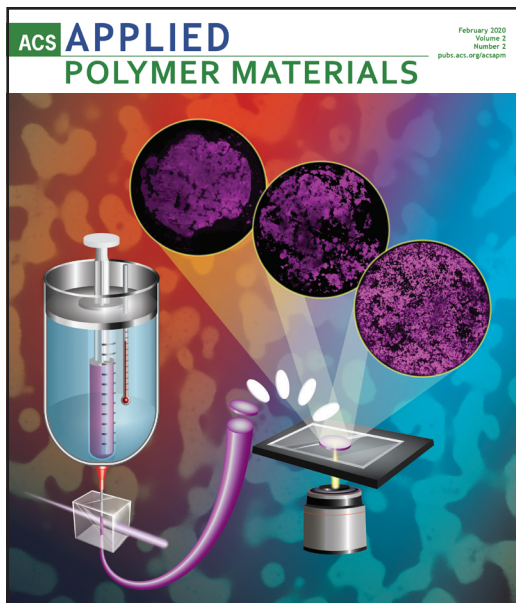
PROPOSAL  
GRAPHICS

# COLLEGE OF ENGINEERING ALUMNI MAGAZINE

The cover illustration of the Fall2020 Alumni Magazine featured a story of faculty member and students in the College of Engineering producing protective equipment fighting against COVID-19.

## FACESHIELD



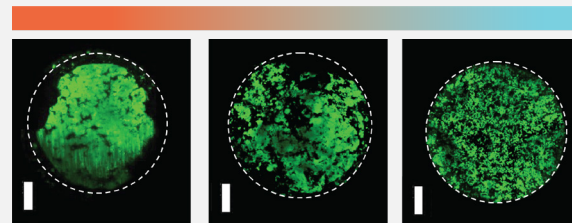


Depict research data into art

Transform 2D device sketch into 3D realistic ldesign

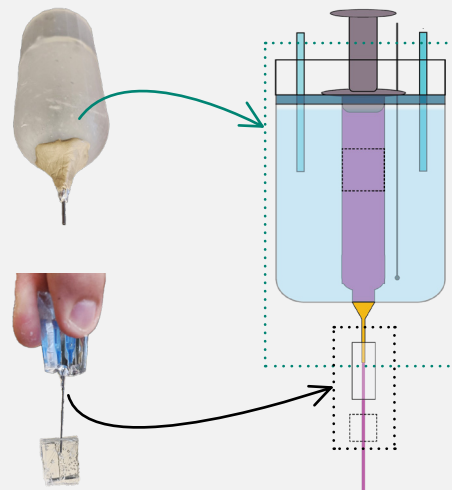
The Lilian C. Hsiao group's research article in the Department of Chemical and Biomolecular Engineering (CBE) was featured on the cover of the journal of *Applied Polymer Materials*.

*E.D. Cardenas-Vasquez, K.M. Smith, T.J. Doolan, and L.C. Hsiao. ACS Applied Polymer Materials, 2020, 2 (2), 594-603.*



ACTUAL DEVICE

CLIENT'S DRAWING





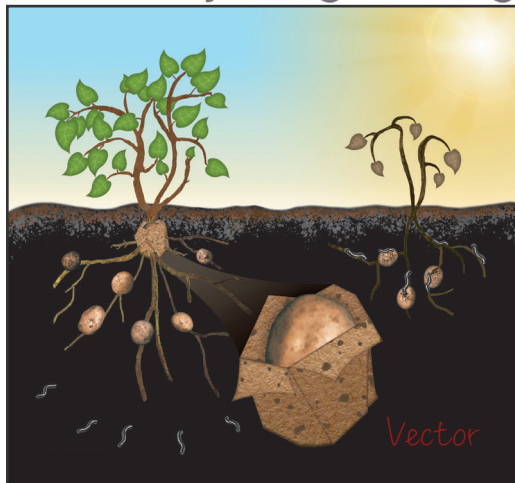
# ANALYTICAL CHEMISTRY



The cover design was selected and published on the journal of *Analytical Chemistry*. It illustrates a smartphone device to detect bacterial toxins in a drop of water on a chip. The research was led by Qingshan Wei Group in CBE.

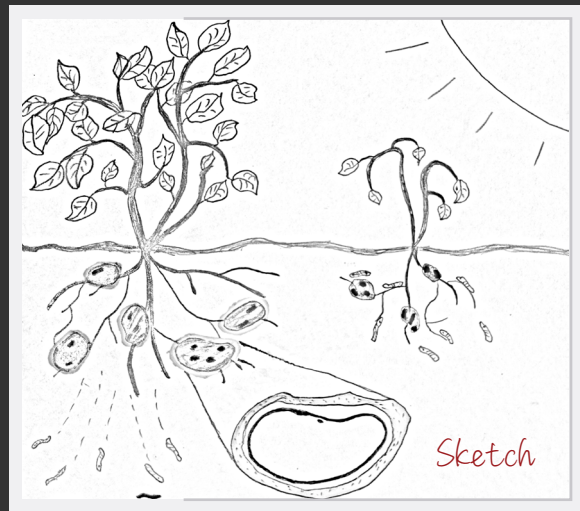
Z. Li, S. Zhang, T. Yu, Z. Dai, and Q. Wei. *Analytical Chemistry*, 2019, 91, 10448-10457.

# ACS Sustainable Chemistry & Engineering



C.H. Opperman, L. Pal, and S.A. Khan. *ACS Sustainable Chemistry & Engineering*, 2020, 7(24), 19848-19856.

to



A sketch of a novel approach to prevent seeds/seedlings from pathogen was converted into a vector-based design. This cover was selected and published on the journal of *ACS Sustainable Chemistry and Engineering*. The research was led by Saad Khan group in CBE.

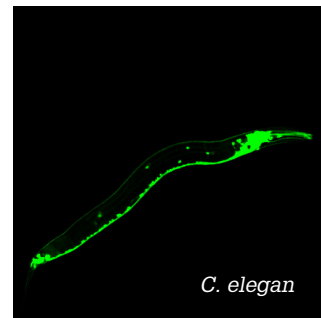
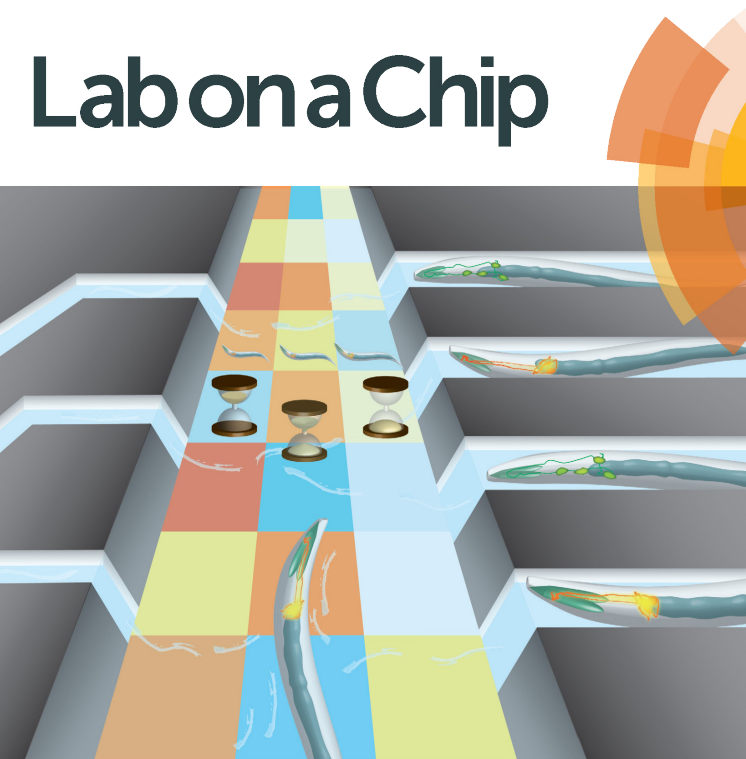
# Soft Matter



Surface topographies is illustrated by zooming in on various sizes, shapes and spatial organization abound in nature. This cover was selected and published on the journal of *Soft Matter*. The research was led by Jan Genzer group in CBE.

*S. Erramilli and J. Genzer. Soft Matter, 2019, 15, 4045-4067.*

# Lab on a Chip



Enlarging into a microfluidic platform can better illustrate lifelong high-resolution and high throughput imaging of subtle aging phenotypes in *C. elegans*. This cover was selected and published on the journal of *Lab on a Chip*. The research was led by Adriana San-Miguel group in CBE.

*S. Saberi-Bosari, J. Huayta, and A. San-Miguel. Lab on a Chip, 2018, 18, 3090-3100.*

# ENVIRONMENTAL SCIENCE: WATER RESEARCH & TECHNOLOGY

The illustration can add more details in the research on a microscopic scale. This design not only copies the surface structure of biochar but also the chemical reactions in the porous surface. This cover was selected and published on the journal of *Environmental Science: Water Research & Technology*. The research was led by Douglas F. Call group in CCEE.

Q.W. Cheng, F.L. de los Reyes, III, and D.F. Call.  
*Environ. Sci.: Water Res. Technol.*, 2018, 4, 1794-1806.

