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## feature articles



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### Filtering safe drinking water through granulated ceramics

*Modular filters based on silver-coated ceramic granules provide sustainable, affordable access to clean water when water treatment infrastructure is lacking.*

by Reid Harvey, Mike Chu, and John Hess



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### Glasses, ceramics, and metals are critical to a clean energy and mobility transition

*Understanding the intensity and criticality of materials used in clean energy production, low emission transportation, and lighting helps engineers design solutions for a more sustainable world.*

Alexandra Leader and Gabrielle Gaustad



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### National Science Foundation awards in the Ceramics Program starting in 2018

*As an independent federal agency of the United States government, the National Science Foundation (NSF) funds basic research conducted at America's colleges and universities. NSF's Ceramics Program in the Division of Materials Research resides within the Mathematical and Physical Sciences Directorate.*

By Lynnette D. Madsen

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### Correction to the December/Ceramic Source 2019 ACerS Bulletin

An incorrect quote was included in the cover story, "Smart materials make smartphones," in the print edition of the December 2018 ACerS Bulletin. It appears correctly in the electronic and the downloadable PDF versions.

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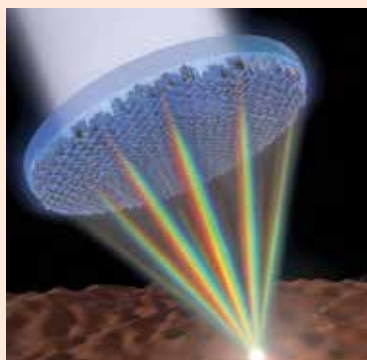


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As seen on Ceramic Tech Today...



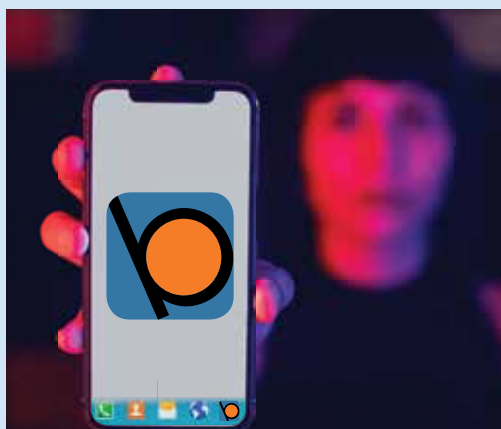
Credit: Jared Sisler, Harvard SEAS

## Goodbye glass—optical lenses go 2D

*Metalenses, a type of metasurface used for focusing light, could replace glass in cameras and imaging systems. Two recent studies advance this possibility.*

Read more at [www.ceramics.org/opticallenses](http://www.ceramics.org/opticallenses)

As seen in the December 2018 ACerS Bulletin...



## Smart materials make smartphones

Read the ACerS Bulletin exclusive report on how ceramics and glass contribute to the \$479B smartphone market.

Read more at [www.ceramics.org/Smartphones](http://www.ceramics.org/Smartphones)

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