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feature articles



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Hydrogen firing: UK's Lucideon works with ceramics industry on hydrogen-firing trials

Hydrogen fuels can help the energy-intensive ceramics industry drive to net zero emissions. U.K.-based Lucideon started using hydrogen fuel mixes in its test kiln.

by Andrew Norwood

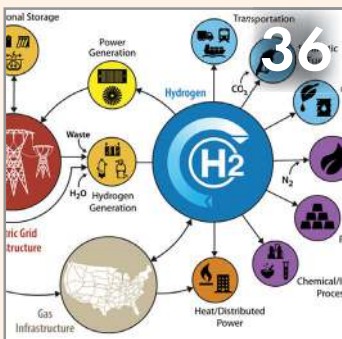


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Almatis expands its calcined aluminas into a higher purity range

Emerging and developing technical applications require improved purity levels of specialty alumina. To address the increasing need for higher purity alumina, Almatis has focused on generating cost-effective alumina powders with alumina content purities greater than 99.9%.

by Nils Rosenberger and Marius Schustereder

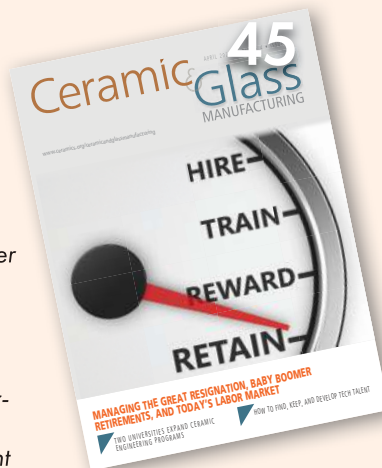


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States are vying for money to start 'hydrogen hubs'—what are they?

Across the United States, states are vying for federal funding to set up hydrogen infrastructure. However, how broad a role hydrogen will play in decarbonizing the U.S. economy is a matter of debate.

by Robert Zullo



Volume 4, Issue 1 — Ceramic & Glass Manufacturing

Managing the Great Resignation, Baby Boomer retirements, and today's labor market

Also inside:

- Industry news
- Two universities expand ceramic engineering programs
- How to find, keep, and develop tech talent
- Femtosecond laser bursts drill crack-free holes in glass

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Cover image

A pipe supplying Lucideon's hydrogen kiln with a hydrogen/natural gas blend.
Credit: Lucideon

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As seen on Ceramic Tech Today...



Credit: Lithoz GmbH, YouTube

Effect of particle size distribution on curing behavior of ceramic-filled photo-thermal resins

To improve the mechanical properties of vat polymerized ceramics, researchers have extensively studied a range of factors that affect the photopolymerization process. In a recent study, two University of Stuttgart researchers elucidated the correlations between particle size distribution and polymerization kinetics.

Read more at www.ceramics.org/particles-in-resins

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Flexural strength of a conventionally processed and additively manufactured debased 94% alumina

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