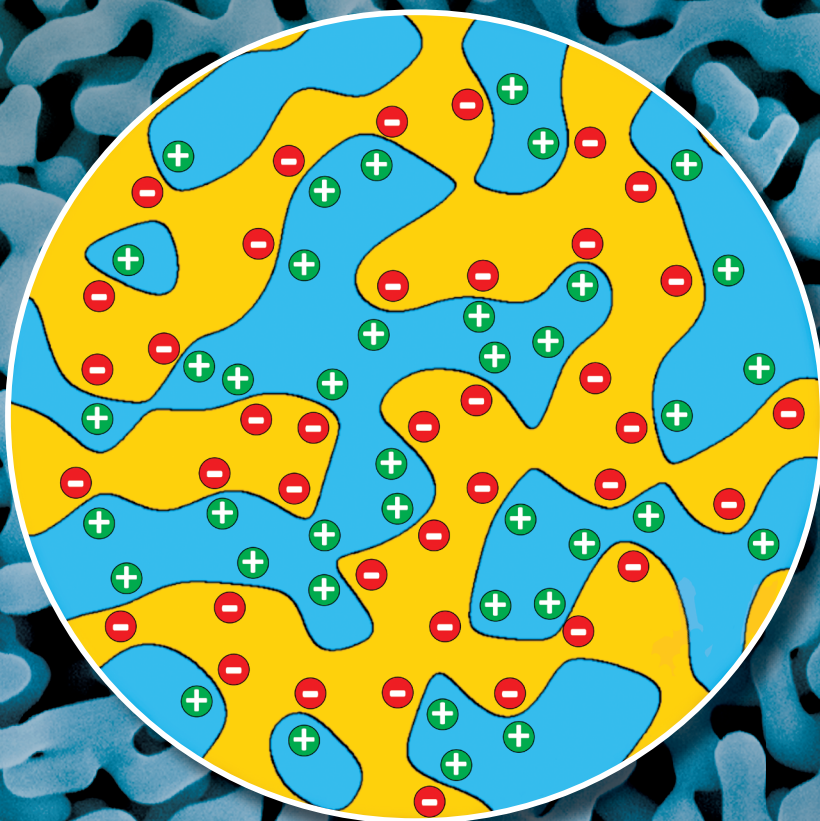


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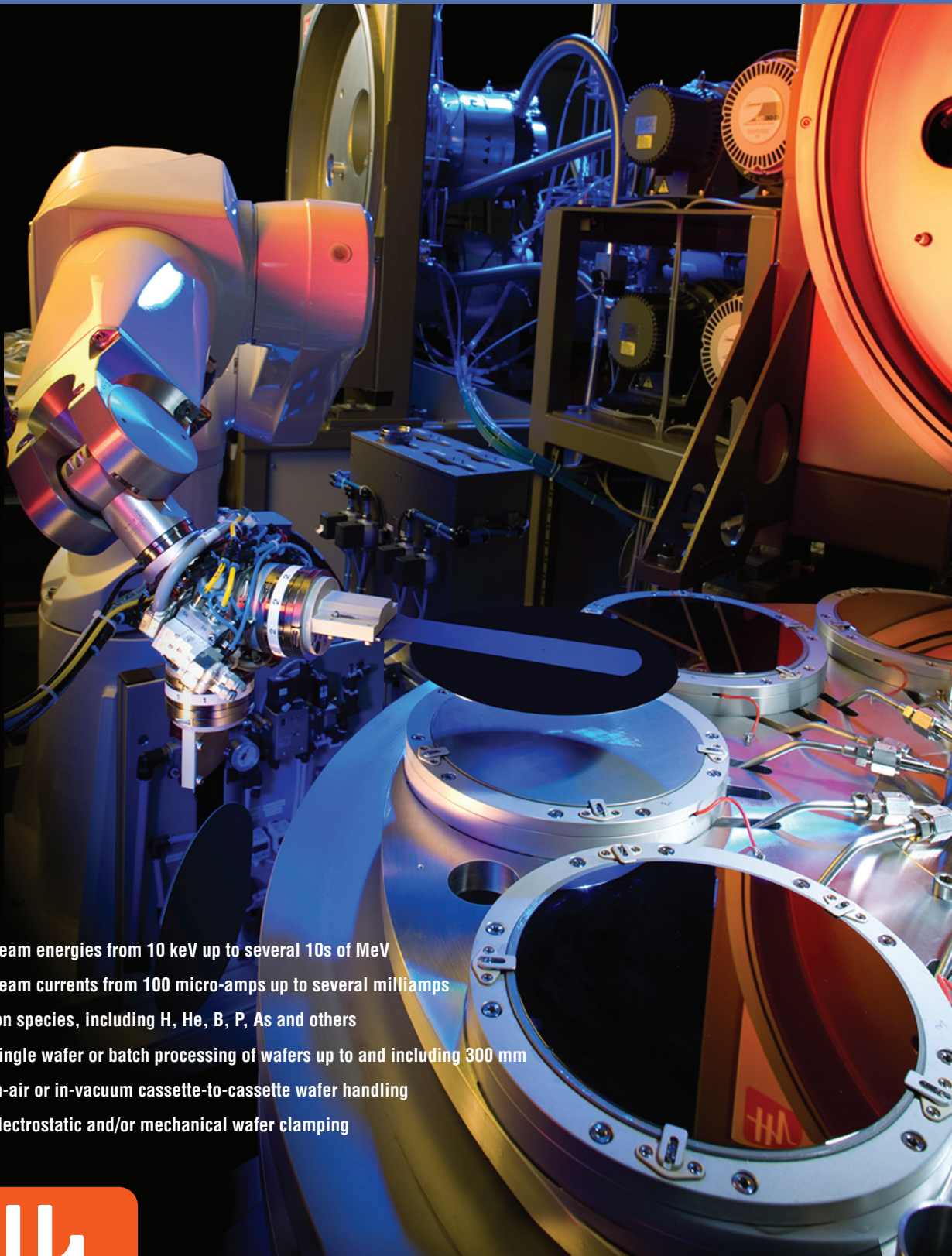
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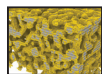
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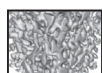
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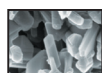
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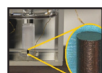
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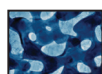
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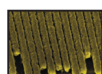
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ON THE COVER

Dealloyed nanoporous materials with interface-controlled behavior. Dealloying of alloys, the selective dissolution of less noble elements, can produce macroscopic samples that exhibit large surface-to-volume ratios and a uniform network structure with characteristic strut or "ligament" size in the nanometer range, as seen in the scanning electron micrograph of nanoporous palladium on the cover (here with a characteristic size of 150 nm). Figure courtesy of Shan Shi,

Helmholtz-Zentrum Geesthacht. Polarizing the interfaces creates space-charge regions (inset) that can store energy or allow the behavior of the interface to be tuned. The articles in this issue highlight aspects of research into nanoporous metallic alloys fabricated by dealloying. See the technical theme that begins on page 14.



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