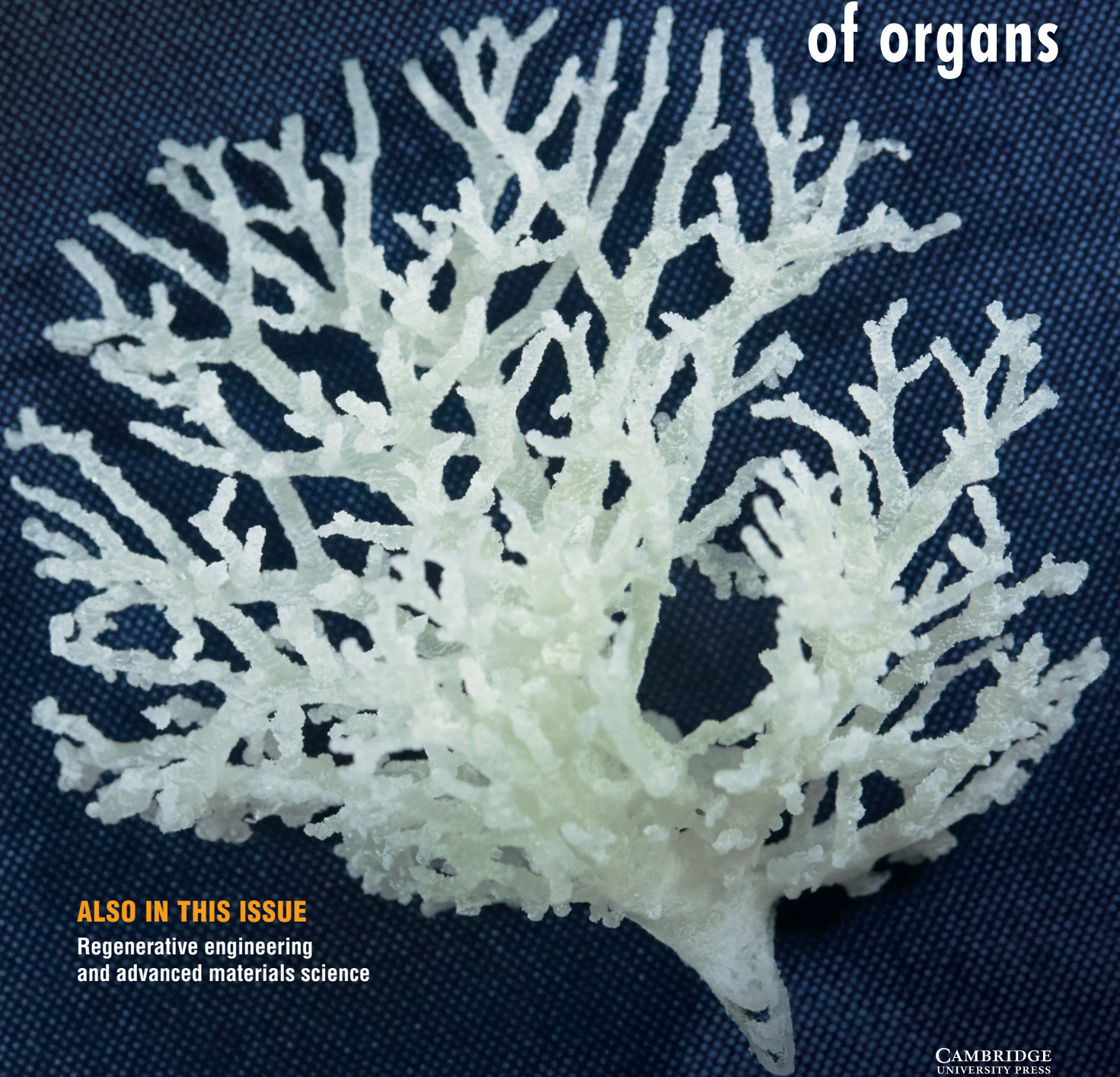


# MRS Bulletin

August 2017 Vol. 42 No. 8  
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## 3D bioprinting of organs



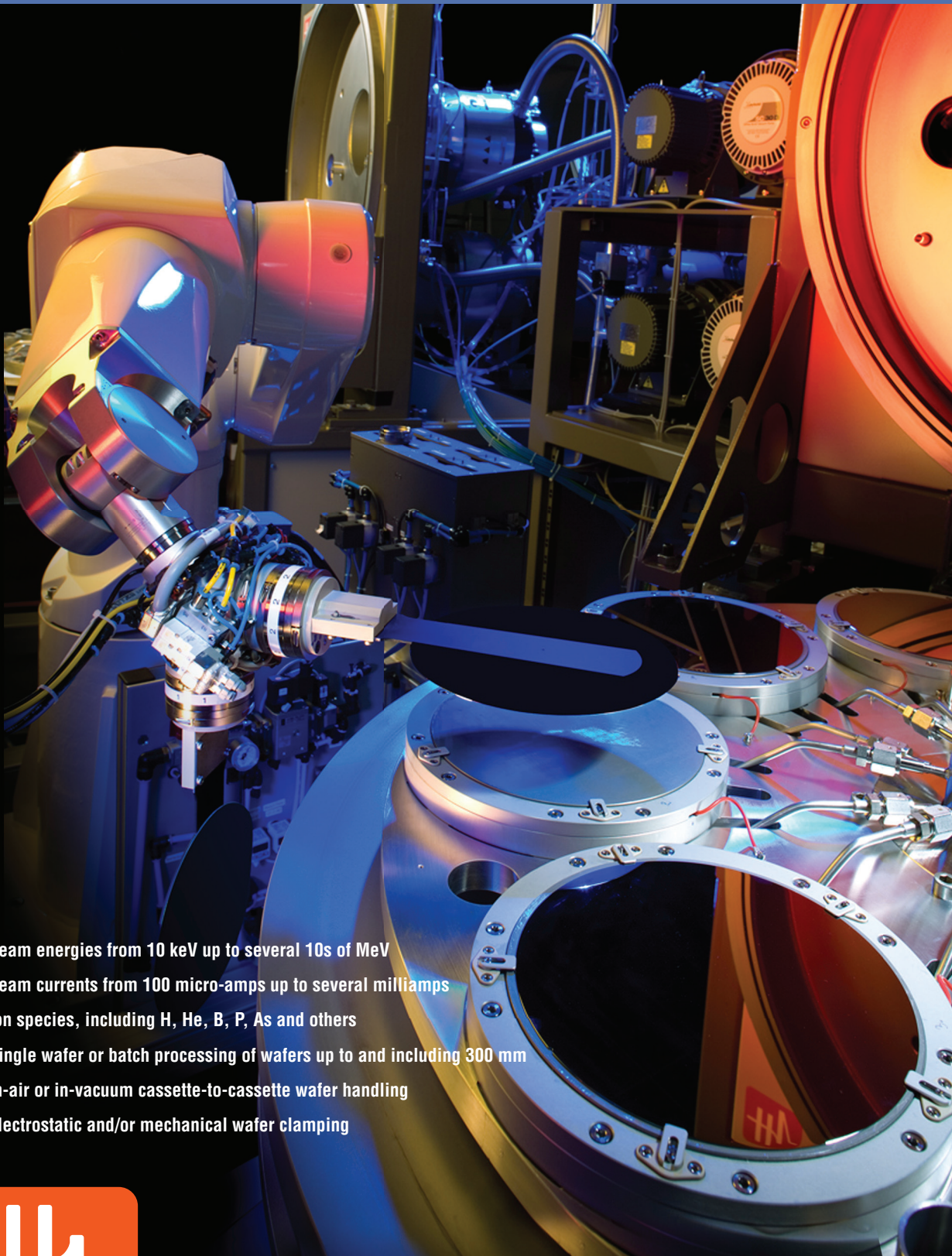
### ALSO IN THIS ISSUE

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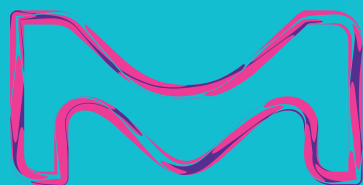
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# CONTENTS

## 3D BIOPRINTING OF ORGANS



- 557 **Progress in three-dimensional bioprinting**  
Adam W. Feinberg and Jordan S. Miller, Guest Editors



- 563 **Toward next-generation bioinks: Tuning material properties pre- and post-printing to optimize cell viability**  
Alexandra L. Rutz, Phillip L. Lewis, and Ramille N. Shah



- 571 **Three-dimensional printing with sacrificial materials for soft matter manufacturing**  
Christopher S. O'Bryan, Tapomoy Bhattacharjee, Sean R. Niemi, Sidhika Balachandar, Nicholas Baldwin, S. Tori Ellison, Curtis R. Taylor, W. Gregory Sawyer, and Thomas E. Angelini



- 578 **Multimaterial, heterogeneous, and multicellular three-dimensional bioprinting**  
Carmelo De Maria, Giovanni Vozzi, and Lorenzo Moroni

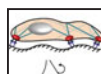


- 585 **Three-dimensional bioprinting of volumetric tissues and organs**  
David Kilian, Tilman Ahlfeld, Ashwini Rahul Akkineni, Anja Lode, and Michael Gelinsky



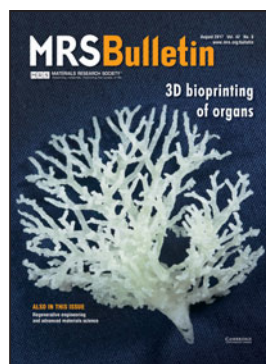
- 593 **Bioprinting of three-dimensional culture models and organ-on-a-chip systems**  
Yan Yan Shery Huang, Duo Zhang, and Ye Liu

## TECHNICAL FEATURE



- 600 **Regenerative engineering and advanced materials science**

**The Fred Kavli Distinguished Lectureship in Materials Science 2016 MRS Spring Meeting**  
Roshan James and Cato T. Laurencin



### ON THE COVER

**3D bioprinting of organs.** Three-dimensional (3D) printing and related additive manufacturing technologies have started to displace traditional manufacturing in a wide range of industries and applications. This issue of *MRS Bulletin* highlights 3D bioprinting approaches, including advances and challenges in support materials and multimaterials printing, along with applications in tissue engineering and organs-on-a-chip. The cover shows a 3D printed liver

blood vessel network demonstrating the complexity of the challenge in recapitulating the architectural form of living tissue and providing biocompatible environments conducive to cell growth. Image credit: MillerLab at Rice University. See the technical theme that begins on page 557.



## DEPARTMENTS



### 549 OPINION

#### Material Matters

Opening government data sets enhances research and innovation

Aaron Dunn



### NEWS & ANALYSIS

#### 550 Materials News

- **Stretch goals: Elastic conductors reach a new milestone**  
Aditi Risbud
- **2D electrocatalytic MOF sets efficiency record for water splitting**  
Lauren Borja
- **Universal fragment descriptor predicts materials properties**  
Vineet Venugopal
- **Diamond-powered transistor performs in extreme environments**  
Rahim Munir

#### 554 Science Policy

- **Scientists initiate grassroots efforts to show importance of STEM to US government**  
Jennifer A. Nekuda Malik



### SOCIETY NEWS

- 608 ■ **MRS fuels a Pan-India materials science education program led by early career scientists**  
Vijay Venugopalan, Shruti Sharma, Darshana Joshi, Aditya Sadhanala, and Lori A. Wilson
- **KAUST-MRS paves the way for international chapters**

#### 612 Profiles

**Kevin S. Jones: Professor and Ultimate Frisbee enthusiast**  
Rahul Rao



## FEATURES

#### 614 Books

- **Structural DNA Nanotechnology**  
Nadrian C. Seeman  
Reviewed by Qinghuang Lin
- **Skymions: Topological Structures, Properties, and Applications**  
J. Ping Liu, Zhidong Zhang, and Guoping Zhao  
Reviewed by Mingzhong Wu
- **Semiconductor Spintronics**  
Thomas Schäpers  
Reviewed by Bingsuo Zou

#### 616 Image Gallery Look Again

#### ADVERTISERS IN THIS ISSUE

Page No.

American Elements .....	Outside back cover
High Voltage Engineering .....	Inside front cover
MilliporeSigma .....	545
Rigaku Corporation .....	562



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The Society's interdisciplinary approach differs from that of single-discipline professional societies because it promotes information exchange across many scientific and technical fields touching materials development. MRS conducts three major international annual meetings and also sponsors numerous single-topic scientific meetings. The Society recognizes professional and technical excellence and fosters technical interaction through University Chapters. In the international arena, MRS implements bilateral projects with partner organizations to benefit the worldwide materials community. The Materials Research Society Foundation helps the Society advance its mission by supporting various projects and initiatives.

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