

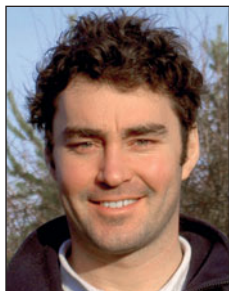

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Guest Editor for this issue of *MRS Bulletin*

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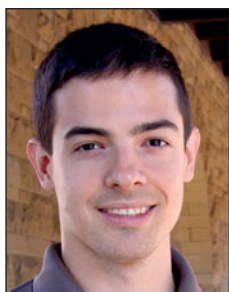

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Snaith is a professor of physics at the University of Oxford, where his research is focused on developing new materials and structures for hybrid solar cells and understanding and controlling the physical processes occurring at interfaces. He has made advances for emerging PV, including breakthroughs with perovskite

solar cells. He has received a number of awards, including the MRS Outstanding Young Investigator Award in 2014. In December 2010, he founded Oxford PV Ltd., which is commercializing the perovskite solar technology transferred from his university laboratory.


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Bailie is a PhD student in materials science and engineering at Stanford University. He received his undergraduate degree in mechanical engineering in 2010 at Texas A&M University, during which he worked on high-energy shockwaves for nuclear fusion systems. He received his master's degree in materials science in 2014 at Stanford University. His research interests are designing and prototyping new energy systems such as perovskite tandem solar cells.


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Bolink has been at the Instituto de Ciencia Molecular (ICMol) of the University of Valencia since 2003, where he initiated a research line on molecular optoelectronic devices. He obtained his PhD degree in materials science at the University of Groningen, The Netherlands, in 1997, on photorefractive polymers directed by G. Hadziioannou. He has been a private investigator of 10 European collaborative projects, is the

co-author of more than 140 publications, and holds 10 patents. His current research interests include inorganic–organic hybrid materials and mixed electronic/ionic charge-transporting materials, and their integration in optoelectronic devices, particularly organic light-emitting devices and mixed organic–inorganic metal halide perovskite photovoltaic and light-emitting devices.


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Chen is working as a postdoctoral fellow at the California Nanosystems Institute of the University of California at Los Angeles (UCLA). He received his PhD degree in materials science and engineering from UCLA in 2012. His research focuses on hybrid materials and polymer blends for various applications, such as photovoltaics, sensors, and detectors.


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Etgar has been a senior lecturer in the Institute of Chemistry at The Hebrew University of Jerusalem since 2012. He obtained his PhD degree in 2009 at the Technion–Israel Institute of Technology. He completed his postdoctoral research with Michael Grätzel from 2009 to 2012 at École Polytechnique Fédérale de Lausanne, Switzerland, where he received a Marie Curie Fellowship and

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Gil-Escrig is a doctoral student at the Institute of Molecular Science at the University of Valencia. She received her degree in chemistry in 2012 and her master's degree in applied chemistry and pharmacology in 2013, both at the Jaume I University, Spain. Her research focuses on multilayer perovskite-based optoelectronic devices.


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Lee is a doctoral candidate in the Department of Energy Science at Sungkyunkwan University (SKKU) under the supervision of Nam-Gyu Park. He received his BS degree in electronic and electrical engineering from SKKU in 2011. His research has focused on dye or quantum dot-sensitized solar cells. Currently, he is devoting his research to perovskite solar cells since the first report on solid-state perovskite solar cells developed in 2012 by Nam-Gyu Park's group.



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McGehee is a professor in the Materials Science and Engineering Department and a senior fellow of the Precourt Institute for Energy at Stanford University. He received his undergraduate degree in physics from Princeton University and his PhD degree in materials science from the University of California, Santa Barbara. McGehee's research interests are patterning materials at the nanometer length scale, semiconducting

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Momblona is a PhD student at the Institute for Molecular Science. She received her bachelor's degree in chemistry in 2010 and her master's degree in nanostructured materials for nanotechnology applications in 2012, both at the University of Zaragoza, Spain. Her current research interests are molecular electronics and optoelectronics, particularly photovoltaics and light-emitting devices.



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Noh has been a senior researcher in the Division of Advanced Materials at Korea Research Institute of Chemical Technology since 2011. He received his PhD degree in materials science and engineering from Seoul National University, Korea, which focused on nanostructural and compositional design of semiconducting and conducting metal oxides in photoelectric energy-conversion devices. His current research inter-

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Park is a distinguished professor at Sungkyunkwan University (SKKU). He received his BS, MS, and PhD degrees in chemistry from Seoul National University in 1988, 1992, and 1995, respectively. He was a postdoctoral researcher at ICMCB-CNRS, France, and National Renewable Energy Laboratory, USA. He then worked for the Electronics and Telecommunications Research Institute, Korea, from 2000 to 2005. He was the

director of the solar-cell research center at the Korea Institute of Science and Technology from 2005 to 2009. He joined SKKU's School of Chemical Engineering in 2009 as a full professor. He has received numerous awards for his contributions to solar-cell research and development. His research has focused on dye-sensitized solar cells since 1997, and he currently focuses on perovskite solar cells since the first report on solid-state perovskite solar cells developed by his group in 2012.



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Sessolo is a research fellow at the Institute of Molecular Science, University of Valencia. He received his BS degree in chemistry from the University of Padova, Italy, and his PhD degree in 2010 at the University of Valencia for his work on hybrid light-emitting diodes (LEDs) and solar cells. He then joined the Department of Bioelectronics at the Centre Microélectronique de Provence, France, and worked on the application of conducting polymers to neural

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Yang is the Carol and Lawrence E. Tannas Jr. Endowed Chair Professor of Materials Science at the University of California, Los Angeles (UCLA). He received his MS and PhD degrees in physics and applied physics from the University of Massachusetts Lowell in 1988 and 1992, respectively. Before he joined UCLA in 1997, he served on the research staff at UNIAX (now

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