



Henry J. Snaith named 2014 MRS Outstanding Young Investigator for perovskite hybrid solar cells

Henry J. Snaith of the University of Oxford has been named the 2014 Materials Research Society (MRS) Outstanding Young Investigator. Snaith was cited for “innovation and development of solid state dye sensitized solar cells and for his groundbreaking work in perovskite hybrid solar cells.” He will present his award talk at the 2014 Materials Research Society Spring Meeting in San Francisco on April 24 at 12:45 p.m. in Salon 7 of the Marriott Marquis.

During his research at the University of Cambridge, Snaith demonstrated growth of dye-sensitized solar cells from perfectly organized nanoporous titanium dioxide, formed by templated growth onto a self-organized diblock copolymer. Since then, his achievements include the first demonstration of “gyroid” structured titania for dye solar cells, the first demonstration of mesoporous single crystals of anatase TiO_2 , and the recent discovery of high-efficiency solid-state

organometal trihalide perovskite-based thin film and mesosuperstructured solar cells. In 2012, he reported a lead iodide perovskite structure that can produce a power conversion efficiency above 10%. With this new structure, it is possible to dispense with the titanium dioxide. He later reported efficiencies up to 15% in a simple layer-by-layer structure deposited by simple evaporation and solution processing techniques.

Snaith received his MSc degree in 2001 from the University of Bristol and his PhD degree from Cambridge in 2004. He was awarded the Patter-son Medal of the Institute of Physics in 2012, and named as one of “Nature’s 10” people who mattered in 2013. In 2010, he founded Oxford Photovoltaics Ltd., which is commercializing perovskite solar cells for building integrated and utility scale photovoltaic applications.



Yury Gogotsi to present Kavli Lecture on nanoscience at 2014 MRS Spring Meeting

Yury Gogotsi, Distinguished University Professor and Trustee Chair in the Department of Materials Science and Engineering at Drexel University, has been selected for the 2014 Fred Kavli Distinguished Lectureship in Nanoscience. He will present the lecture at the 2014 Materials Research Society Spring Meeting in San Francisco on April 21

at 6:00 p.m. in Salon 7 of the Marriott Marquis. The title of his talk is “Not just graphene—The wonderful world of carbon (and related) nanomaterials.”

Gogotsi’s research interests include synthesis and chemical modification of carbon-based nanomaterials for electrochemical energy storage and water desalination. He also works on carbon

nanopipettes for single cell studies and nanodiamonds for drug delivery applications. He received his MS (1984) and PhD (1986) degrees from Kiev Polytechnic and a DSc degree from the Ukrainian Academy of Sciences in 1995.

Among Gogotsi’s numerous awards and honors are a European Carbon Association Award, Chang Jiang Scholar Award from the Chinese Ministry of Education, S. Somiya Award from the International Union of Materials Research Societies, and two R&D 100 Awards from *R&D Magazine*. He is a Fellow of MRS, The American Ceramic Society, American Association for the Advancement of Science (AAAS), and The Electrochemical Society. Gogotsi has authored/co-authored two books, more than 380 peer-reviewed papers, edited 13 books, and obtained more than 40 patents.



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