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Vladimir Bulovic



Fariborz Maseeh (1990) Professor of Emerging Technology, *Electrical Engineering and Computer Science (EECS)*

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Vladimir Bulovic joined the faculty of MIT in July 2000 and is the Fariborz Maseeh (1990) Professor of Emerging Technology and the MIT School of Engineering's Associate Dean for Innovation. He leads the Organic and Nanostructured Electronics Laboratory and is co-director of the eni-MIT Solar Frontiers Center and MIT's Innovation Initiative. Bulovic's research interests include studies of physical properties of organic and organic/inorganic nanocrystal composite thin films and structures, and development of novel nanostructured optoelectronic devices. He is an author of over 140 research articles (cited over 10,000 times) and an inventor of over 50 U.S. patents in areas of light emitting diodes, lasers, photovoltaics, photodetectors, chemical sensors, programmable memories, and micro-electro machines, majority of which have been licensed and utilized by both start-up and multinational companies. He is a founder of QD Vision, Inc. of Watertown MA which is producing quantum dot optoelectronic components, of Kateeva, Inc. of Menlo Park CA which is focused on development of printed organic electronics, and Ubiquitous Energy, Inc. which is developing nanostructured solar technologies. Prof. Bulovic received his M.S. Degree from Columbia University in 1993 and his Ph.D. from Princeton University in 1998. He is a recipient of the U.S. Presidential Early Career Award for Scientist and Engineers, the National Science Foundation Career Award, the Ruth and Joel Spira Award, Eta Kappa Nu Honor Society Award and the Bose Award for Distinguished Teaching, he was named to Technology Review TR100 List, and in 2012 he shared the SEMI Award for North America in recognition of his contribution to commercialization of the quantum dot technology. In 2008 he was named the Class of 1960 Faculty Fellow in recognition of his contribution to Energy Education, in 2009 he was awarded the Margaret MacVicar Faculty Fellowship, MIT's highest teaching honor, and in 2011 he was named the Faculty Research Innovation Fellow for excellence in research and international recognition.

Keywords

nano-structured materials (molecules, polymers, quantum dots), opto-electronic structures, LEDs, solar cells, photodetectors, memory cells, chemical sensors, MEMS, thin films, self-assembled materials

Selected Publications

- 04.16.2014
Visualization of exciton transport in ordered and disordered molecular solids (Nature Communications)
- 02.26.2013
ZnO Nanowire Arrays for Enhanced Photocurrent in PbS Quantum Dot Solar Cells (Advanced Materials)
- 11.14.2012
Multijunction organic photovoltaics with a broad spectral response (Phys. Chem. Chem. Phys.)

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