

Speaker Profile



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Dr. Sun-Ho Kang

Materials Scientist
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Dr. Sun-Ho Kang is a staff scientist at Chemical Sciences and Engineering Division, Argonne National Laboratory, Argonne, IL. Dr. Kang received his B.S., M.S., and Ph.D. in Materials Sciences and Engineering from Seoul National University, Seoul, Korea. After studying as a postdoctoral fellow with Professor John B. Goodenough at the University of Texas at Austin, he joined the Chemical Engineering Division (now Chemical Sciences and Engineering Division) at Argonne National Laboratory in 2001 and has been working in the Electrochemical Energy Storage (EES) Department of Argonne National Laboratory. The EES Department is internationally recognized as a world-class center for lithium battery R&D.

Dr. Kang's primary research interest is materials chemistry of various metal oxides for energy applications, including synthesis, defect chemistry, and structure-property relationship of electrode materials for energy storage and conversion systems. During his tenure at Argonne National Laboratory, he has been actively involved in the US DOE's programs to develop electrochemical energy storage systems for hybrid and plug-in hybrid electric vehicles, and his research has focused on the development of advanced electrode materials for high-energy and high-power lithium-ion batteries, materials characterization using various techniques, and diagnostic study of degradation and failure mechanism of lithium-ion batteries.

He is one of the key inventors of Argonne's advanced battery technologies that have recently been licensed to major global chemical companies and one of the recipients of the 2009 R&D 100 Awards. Dr. Kang has published more than 60 papers in peer-reviewed scientific journals and filed more than 10 US patents (four of which have been awarded).