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Yun Jung Lee is an assistant professor of Department of Energy Engineering in Hanyang University. She graduated with B.S. and M.S. in the department of inorganic materials science and engineering from Seoul National University in 1998 and 2000, respectively. Her major was electronic semiconducting materials. From 2000 to 2003, she was a research engineer at Samsung Electronics working on the semiconductor processing for DRAM capacitor. Then she switched gear to bio-inspired energy system and moved to Massachusetts Institute of Technology. She earned Ph.D. in 2009 on the nanostructured electrodes for lithium ion batteries using biological scaffolds. Prof. Lee contributed to over 30 inventions and 24 peer reviewed journal articles including Nature, Science, Nano letters, ACS Nano and PNAS. Her current areas of research are designing advanced nano-biomaterials and structures for energy conversion and storage materials and systems. Special emphasis is on lithium ion battery, lithium-air battery, sodium ion battery and bio-inspired selective nanochannels.