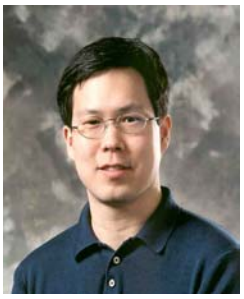
Speaker Profile



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Dr. Jin, is an assistant professor of Materials Science & Engineering at the University of Texas at Arlington (UTA). He received his B.E. in Materials Science & Engineering from Korea University, Korea and Ph. D. in Materials Science & Engineering from the University of Illinois at Urbana-Champaign. Before joining UTA in 2005, as a senior researcher from Ohio Aerospace Institute, he had spent four years at NASA Glenn Research Center. He was a member of Thin-Film Group from Photovoltaic and Space Environments Branch and has pursued several NASA projects. He is currently leading solar cell research at UTA focusing on polycrystalline chalcopyrite thin-film solar cells and polymeric excitonic solar cells.

Dr. Jin has extensive experience with photovoltaic materials. He started his career with thin-film processing and material properties of amorphous and poly silicon, in fact, for thin-film transistors for display applications while he was at Illinois. At NASA, he was responsible for developing light-weight, flexible chalcopyrite thin-film solar cells with low-temperature aerosol-assisted chemical vapor deposition using novel single-source precursors. He also initiated polymeric solar cell research activities within group and proposed a new ordered bulk heterojunction solar cell structure realized by chemical vapor deposition (CVD) process. His current research activities include conjugated polymer thin film deposition by thermal CVD polymerization and developing a roll-to-roll process for chalcopyrite solar cells using nanoparticles.

Dr. Jin is a dedicated solar energy advocate serving and educating public in the community. He has made a number of educational presentations in front of different audience including the North Texas chapter of the Materials Information Society (ASM), North Texas Korean-American Scientists & Engineers Association, and UTA Summer Camps for young generations. He previously won several awards including NASA Tech Award, Presidential Award from Ohio Aerospace Institute, and MRS Silver Graduate Award.