Magnus Willander

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Materials science for chemical sensing and renewable energy

Converting mechanical energy to electrical energy will be discussed from piezoelectric and triboelectric point of view. I will talk on our material synthesis as well as our devices and their applications we have developed. In these areas a strong progress has been going on for 5 to 10 years mainly because development of different nanomaterials. A second topic is electrochemical and photochemical creation of hydrogen and hydrogen peroxide as future energy fuels. Finally, chemical sensors based on different nanomaterials and substrates is discussed.

Speaker Biography

Magnus Willander has a PhD from Royal Institute of Technology, and has been chair professor in Gothenburg University and Linköping University. He has been visiting professor/visiting scientist in many countries. He has also been working in big companies like Philips etc with developing new technologies. He has started up several entrepreneur companies. He has given numerous invited/keynote talks around the world. Willander has around 20 000 citations, H-index=60 and more than 1000 scientific paper (Google Scholar). Also Magnus Willander has supervised 55 students to their PhD degrees.

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