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Is full professor, head of the department “Fundamentals of Energy Materials”, and Dean of the master course “Renewable Energy Techniques” at the Institute of Physics, Technische Universität Ilmenau. He received his PhD with studies on photo-induced charge carrier dynamics performed in Prof. Gerhard Ertl's Department 'Physical Chemistry' at the Fritz-Haber-Institute Berlin. He established original analysis of semiconductor growth processes to scrutinize high-performance optoelectronic materials and complex physico-chemical interfacial reactions for the development of highly efficient device structures achieving world record values for the conversion efficiency of solar cells as well as solar fuels production.