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Abdelilah SLAOUI, received his PhD in 1984 on laser crystallisation of implanted silicon at Laboratoire PHASE (CNRS). Thereafter, he continued his work on gas immersion laser doping and oxidation of silicon, laser-induced ablation of materials and laser-induced crystallisation of a-Si and a-SiGe. In 1989, he developed the activity based on lamp furnace heating for processing of solar cells and transistors. In 1992, he joined the Oregon Graduate Institute at Beaverton, Oregon, USA as a visiting scientist. His research interests include MOSFET and TFT's transistors and inorganic materials based solar cells. He served for 20 years as head of the photovoltaic group at PHASE, INESS and ICUBE (CNRS labs). He participated/coordinated about 15 National, 10 European and 6 International projects on Energy in general and on photovoltaics in particular. He served as president of the European Material Research Society. He chaired 6 international conferences and co-organized more than 12 international symposia dealing with materials for energy. He has authored or co-authored more than 200 papers and 8 articles in specialized books. *He is presently Deputy Research Director in charge of Energy at the National Scientific Research Centre, CNRS-HQ, in Paris.*