

## The Quantum Devices Award

### Prof. Gottfried Strasser

*For pioneering contributions to the realization of integrated laser-detector systems and advances in growth technologies for quantum cascade lasers*



Prof. Gottfried Strasser received his Master and his Ph.D. degree in Physics from the University of Innsbruck in 1988 and 1991, respectively. From 1988 - 1992 he was research assistant at the Walter Schottky Institute (TU Munich), 1992 he became assistant professor and in 2001 associate professor at the TU Wien in Vienna, Austria. In 2007 G. Strasser became full professor (Empire Innovation Professor) at the State University of New York in Buffalo (Departments of Electrical Engineering and Physics) and in 2009 full professor at the TU Wien. He was visiting professor at the Ecole Normale Supérieure (Paris) in 2014. In 2007, he got a NYSTAR award (New York). He is president of the Austrian Physical Society.

Prof. Strasser made seminal contributions to quantum device growth and applications, such as high-performance quantum cascade lasers, high-sensitivity quantum cascade detectors, and monolithically integrated mid-infrared lab-on-a-chip based on bi-functional quantum cascade laser/detector systems. He is leading a research group consisting of electrical engineers and physicists, which covers the full range from the design and growth of low-dimensional semiconductors by molecular beam epitaxy to the demonstration of novel semiconductor devices for applications in micro- and optoelectronics.