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Lutz Mädler studied Technical Physics at the Technical University of Zwickau, Germany, from 1991 to 1996 and received an engineering diploma in Physics. He also holds a Diploma and a Ph.D. degrees in Chemical Engineering from the Technical University of Freiberg, Germany. From 1996 till 1999 he worked for the Fraunhofer Institute of Toxicology and Aerosol Research Hannover, Germany, in the field of particle characterization and particulate source apportionment. In 1999, he joined the Particle Technology Group at the Swiss Federal Institute of Technology (ETH) Zurich. He received his Habilitation from ETH Zurich in 2003 and serves as Privatdozent (senior lecturer) for Particulate Processes. Since 2005 he is an appointed Lecturer and Research Associate in the Department of Chemical and Biomolecular Engineering at the University of California, Los Angeles (UCLA). He received BASF Award in Process Engineering for a young scientist whose research brings the close relationship between natural and engineering sciences at a high level in 2004 and the Smoluchowski award conferred by the Aerosol Society in 2005. His research developed the area of spray processes for materials manufacture. He focuses on the design, control, and theoretical understanding of spray flame reactors for the production of functional and tailor-made nanoparticles for applications in composites, sensors, catalysts, and electronic materials. He published over 40 peer reviewed articles and holds 5 patents. One of his latest interests is the bio-nano interface and the associated nano-toxicology.