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Bio: Uwe Kortshagen is a Professor of Mechanical Engineering at the University of Minnesota, with graduate faculty appointments in Physics, Chemical Engineering, and Materials Science. He holds the Christenson Chair in Renewable Energy and is a Distinguished McKnight University Professor. His research is in the area of low temperature plasmas science and in the plasma synthesis of nanomaterials and their applications. His work has been published in more than 220 journal articles and he holds 4 US patents. He earned his Dr. rer. nat. (Ph.D.) in Physics in 1991 and his Habilitation in Experimental Physics in 1995 from the Ruhr University Bochum, Germany. He came to the U.S. in 1995 with a Lynen Fellowship of the Alexander von Humboldt Foundation and spent a year at the University of Wisconsin-Madison. In 1996, he joined the Department of Mechanical Engineering at the University of Minnesota and served as Department Head from 2008-18. He served as President of the International Plasma Chemistry Society and as Chair of two Gordon Research Conferences. He is Fellow of the American Physical Society, the American Society of Mechanical Engineers, the Institute of Physics, the International Plasma Chemistry Society, and the Institute on the Environment, and recipient of the 2015 Plasma Prize of the American Vacuum Society.