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### Professor Mamadou S. Diallo

Professor Mamadou Diallo was trained both as an engineer and physical chemist. He holds an Engineer Diploma in Mineral Engineering from Ecole Nationale de L' Industrie Minerale (Rabat, Morocco), a Master of Science degree in Chemical Engineering from Colorado School of Mines, a Master of Science degree in Chemistry and a Ph.D. degree in Environmental Engineering from the University of Michigan. Prof. Diallo also completed post-doctoral training in Computational Chemistry at the California Institute of Technology. His current research interests and activities focus on the use of dendritic nanomaterials (e.g. dendrimers, hyperbranched polymers and branched polymeric microparticles and nanoparticles) as building blocks to develop novel adsorbents, membranes and filtration systems for water treatment, reuse and desalination.

During the last 7 years, Prof. Diallo has been pioneering the applications of dendrimer nanotechnology to water purification while serving as the Director of Molecular Environmental Technology of the Materials and Process Simulation at Caltech. In 2007, Prof. Diallo co-founded the start-up company Aqua Nanotechnologies (ANT) to scale-up and commercialize high performance media for water treatment and environmental/industrial separations. ANT has received significant funding from private investors. Prof. Diallo is currently the Chief Technology Officer of ANT. In December 2009, Prof. Diallo began a joint faculty between the Korea Advanced Institute of Science and Technology (KAIST) and the California Institute of Technology (Caltech). At KAIST, Prof. Diallo serves as Associate Professor and Director of the Laboratory of Advanced Materials and Systems for Water Sustainability of the KAIST Graduate School of Energy, Environment, Water and Sustainability (EWS). At Caltech, Prof. Diallo is a Visiting Faculty in the Environmental Science and Engineering Option of the Division of Engineering and Applied Science. In 2011, Prof. Diallo was appointed as a member of the Editorial Advisory Board of the journal Environmental Science and Technology.