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Clara SS, Saboe PO, Sines IT, Babaei M, Chiu PL, Dejorge R, Dail K, Waltz T, Kumar M, Mauter MS Clara SS, et al. J Am Chem Soc. 2016 Jan 13;138 (1):28-31. doi: 10.1021/jacs.5b03320. Pub 2015 December 24. J Am Chem Soc. 2016. PMID: 26677866 12/08/2020 · Climate Change · 2 22/07/2020 · Research and development... 7 21/02/2020 · Research and development... 28 05/06/2019 · Research and development... 8 30/05/2019 · Research and development... 53 24/05/2019 · Research and development... 8 15/03/2019 · Research and development... 55 Video of solar heat water harvester collected and purified water from the air 07/02/2019 · Research and development... 20 17/01/2019 · Research and development... 22 Associate Email: manish.kumar@utexas.eduOffice: ECJ 8.212 Specializations: Environmental and Water Engineering Education Qualifications: Postdoc, Harvard Medical School, Cell Biology, 2011 Ph.D., University of Illinois Urbana-Champaign, Environmental Engineering, 2010M.S., University of Illinois Urbana-Champaign, Environmental Engineering, 2000B. Tech., National Institute of Technology, Trich, India, Chemical Engineering, 1998 Technical Interests: Water and Technical Benefits: Membrane Treatment; Dr. Manish Kumar, associate professor in the Department of Civil, Architecture and Environmental Engineering at the University of Texas at Austin, will serve as associate professor in the department of civil, architectural and environmental engineering at the University of Texas. On November 26, 2018, the structure and function of desalination, bio-memetic and bio-inspired membranes, industrial wastewater treatment (oil and gas operations), electron microscopy, and membrane protein websites. He is currently an associate professor of chemical engineering, civil and environmental engineering and biomedical engineering at Pennsylvania State University. He also partnered with the University's Materials Research Institute, the Institute for Natural Gas Research, and the Institute for Energy and Environmental Research. Kumar's background combines industrial application research as well as multidisciplinary academic research. His experience includes large water treatment and wastewater reuse projects, beneficial use of municipal and industrial wastewater; Pilot scale membrane research; new bio-support and development of bio-inspired materials and processes; the use of synthetic biology for environmental applications; Membrane proteinbiophysics and structural biology; And an exciting new area of artificial waterways. Vice Chairman Robert Gilbert is pleased that Dr. Kumar is joining the faculty. He is a rising superstar of membrane processes and bio-inspired membranes for wastewater treatment and water reuse. His addition puts us at the forefront of wastewater engineering in the 21st century. Kumar received his bachelor's degree in chemical engineering from the National Institute of Technology in Trich, India, in 1998. He then earned a master's degree in environmental engineering from the University of Illinois at Urbana Champagne (UIUC) in 2000. He started his engineering career at NCS, Inc. in arsenic treatment, membrane water and wastewater treatment projects. In 2001, Kumar joined the MWH Global Applied Research Department (now Stantech Co., Ltd.) and participated in a variety of application research projects, including membrane water and wastewater treatment and UV disinfection of wastewater. He returned to UIUC in 2006 and continued his graduate studies under the guidance of Dr. Mark Clark and Dr. Julie Gilles. His Doctoral research resulted in one of the first reports on biomimicry membranes for desalination. After earning his Ph.D., Kumar, Ph.D., Ph.D. doctor and postdoctoral researcher at Harvard Medical School, used geological and cryogenic microscopy to examine the structure and function of the eye lens Aquaporin (AQPO) of lipid and block copolymers. In 2011, he was an assistant professor of chemical engineering at Penn State. Kumar's research includes the biological inspiration of highly selective and permeable waterways, molecular design, self-assembly and translation. His technical interestses the study and imitation of biological processes and materials on a molecular scale to develop materials and processes that explain biological phenomena and bring the exquisite specificity and function of biological molecules and processes to an engineering scale. He is currently focusing on how lipid and membrane proteins and synthetic systems mimic his capabilities in environmental engineering applications. Kumar also has extensive experience teaching undergraduate and graduate courses and offers environmental and water engineering courses at UT Austin. I am particularly enthusiastic about the strategic vision of the Department of Civil, Architectural and Environmental Engineering on the convergence of cities, water and energy, especially because of my own efforts and enthusiasm to contribute to my work on this Nexus. We look forward to contributing to a high-performance, innovation-driven culture in Texas and UT Austin. manish.kumar@utexas.eduECJ 8.212301 E. Dean Keaton St., Austin, TX CV Electric Manish Kumar received a bachelor's degree in chemical engineering from Trich National Institute of Technology in India in 1998. He received a master's degree in environmental engineering from the University of Illinois at Urbana Champagne (UIUC) in 2000. He then spent a year and a half working as an engineer in arsenic treatment and membrane water and wastewater treatment projects at NCS, Inc. in Phoenix. He moved to mwh applied research in 2001 and worked for 5.5 years on a variety of application research projects, including micro-filtration/ultrafiltration, membrane biologi, reverse osmosis (desolate surfaces and groundwater, landfill water and water) and a variety of application research projects, including forward osmosis. He also worked on demo tests of UV disinfection and membrane bioreactors for water landfills and participated in the San Diego Indirect Drinking Water Reuse Study. He returned to UIUC in 2006 and continued his graduate studies. Under the guidance of Dr. Mark Clark and Dr. Julie Gilles, he received his Ph.D. from Dr. Mark Clark, and one of the first reports of biocatof desalination for desalination occurred. He then joined the Walz Institute at Harvard Medical School in Boston and joined the postdoc to explore the structure and function of the eye lens Aquaporin (AQPO) in geology and block copolymers. He began his tenure as an assistant professor in Pennsylvania on August 1, 2011, and moved to UT Austin in 2019. A General Video on The Motives of Research: Graduate Student Email Manish Kumarmanish earned iIT Roorkee's Master of Hydrocarbon Engineering Degree in 2017. During his undergraduate years, he discovered repeated problems with the organization Data coming through experiments and simulations. One of these requirements was to generate data related to the efficiency of the sand screen during a research internship at UT Austin in 2015, when the simulation was extracting crude oil. The resulting data identified important characteristics of the mesh screen and built a mathematical model to explain the relationship between the generated functionality and sand. After graduating, Manish joined Sears Holding as a data engineer. As a data engineer, he had the opportunity to work on distributed frameworks such as Hadoop, Spark and Kafka and explored cloud platforms such as AWS, GCP, and Snowflake. He was involved in the data lake production project, which was one of the important projects sears made to realize cost-saving efforts. With his team, Manish built a House ETL tool using PySpark and gave a proposal-based interaction framework using SVM. We have also developed several code to meet your data preparation and migration requirements. Next, Manish joined Sigmoid Analytics in the role of data scientist. At Sigmoid, he helped build a referral system for e-commerce customers based in South America and Mexico. He developed logic to show similar products and used co-filtering to design digital magazines for users. He also mentored gan's summer university interns to design problem statements related to transferring animated photos to the domain as real images and delivering them within two months. Under the Northwestern MSIA program, Manish aims to use this newly acquired waste ceremony from a company that complements his knowledge in the field of data science and engineering and is deeply committed to data analysis. Analysis.

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