



Gradient-driven Transport Phenomena Across Scales: From Fish Skin Patterns to Ion Transport in Electrochemical Capacitors



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Ankur Gupta is currently an Assistant Professor in the Department of Chemical and Biological Engineering at the University of Colorado, Boulder. He serves as the principal investigator of the Laboratory of Interfaces, Flow, and Electrokinetics (LIFE). His research interests include interfacial phenomena, complex fluids, multiphase flows, and diffusiophoresis, with a focus on their applications in the physics of life, energy storage, desalination, and lab-on-a-chip technologies. Dr. Gupta's work has been featured in The New Yorker, CNN, Daily Mail, Newsweek, The Print, and more than 100 new outlets. Dr. Gupta has been recognized for his contributions to the field and has received several notable awards and grants. These include the Chemical and Engineering News Talented 12, Johannes Lyklema Early Career Award in Electrokinetics, Air Force Young Investigator, AIChE 35 under 35, Dream Chemistry Lecture, NSF CAREER Award, Soft Matter Emerging Investigator Award, and Graduates of the Last Decade (GOLD) Award from IIT Delhi.