

Orlin D. Velev

Short bio and research interests

Dr. Orlin Velev is a Frank and Doris Culberson Distinguished Professor at NC State University. He received Ph.D. degree from the University of Sofia, Bulgaria (1996), while also working for one year in Japan. Velev accepted a postdoctoral position and later became research assistant professor at the Department of Chemical Engineering, University of Delaware. In 2001 formed his new research group in the Department of Chemical and Biomolecular Engineering, NC State University, where he was promoted to chaired professor in 2009. Velev has contributed more than 200 publications and has presented more than 250 invited presentations. His awards include, among many others, NSF Career, AIChE Andreas Acrivos Award for Professional Progress and ACS Langmuir Lecturer. Velev has been elected to an ACS Fellow and MRS Fellow. He has established a record of innovative research in the areas of colloids and nanostructures with electrical and photonic functionality, biosensors, microfluidics and nanomanufacturing. Velev has been the first to synthesize "inverse opals" and has pioneered novel nanoparticle materials, Janus and special shape particles, and responsive active materials and microstructures. Technologies based on his research are developed by two Research Triangle Area startup companies.



Velev faculty page: <http://crystal.che.ncsu.edu/>

Velev group web-page: <https://www.cbe.ncsu.edu/velevgroup/>