Research Activities

Deep-bed filtration:
The use of alternative filter media (e.g. crushed recycled glass)
Declining rate filtration (DRF)
Concepts of Filterability Index
Theories of filtration

Liquid-solid fluidization:
Filter backwash hydraulics
Expansion of granular beds during fluidization
Mixing and inversion phenomena in liquid-solid fluidization
Particle characterization (granular media)

Porous media hydraulics:
Models for head-loss prediction
Models for non-spherical, non-uniform media
Effect of shape for granular media used in water filtration

Membrane Filtration
Nanoparticle Embedded Polymeric Membranes for Water and Wastewater Treatment
Silver Embedded Polymeric Membranes for Water Treatment
Mathematical models for membrane filtration
Membrane Biological Treatment (MBR)
The Team

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MATERIALS, EQUIPMENT AND FACILITIES
SELECTED PUBLICATIONS

