

Name Pankaj Doshi
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Subjects Chemical Engineering, Theory, Computation & Modelling

Education and experience

- Principal Scientist, Pfizer Inc., USA (2008-2009)
- Investigator, GlaxoSmithKline, USA (2005-2008)
- Postdoctoral Researcher, MIT, Cambridge, MA, USA (2003-2005)
- PhD, Chemical Engineering, Purdue University, USA (2003)
- M.Tech & B.Tech from IIT Bombay in Chemical Engineering (1997, 1994)

Achievements

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Research Area

- Computational models of inhaled drug delivery, design and optimization of pharmaceutical processes, design of novel drug formulations
- Interfacial flows, Liquid jet and drops, Micro-fluidics, Inkjet printing
- Numerical simulation of free surface flow of complex fluids

Recent publications

- R.Suryo, P. Doshi and O.A. Basaran, “Nonlinear dynamics and breakup of compound jets”, Physics of Fluids, 18, 2006.
- P. Doshi, I. Cohen, W.W. Zhang, M. Siegel, P. Howell, O.A. Basaran and S.R. Nagel, “Persistence of memory in drop breakup: The breakdown of universality”, **Science**, 302-306, 2003