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Dynamics Of Fluids In Porous

This is achieved by that the viscoelastic properties differently affect flow dynamics depending ... when a more-viscous fluid is displaced by a less-viscous one in porous media or Hele-Shaw ...

New research may revise a theory of reacting flow

In this paper we revive a special, less-common, variational principle in analytical mechanics (Hertz' principle of least curvature) to develop a novel variational analogue of Euler's equations for the ...

A variational theory of lift

This model extends widespread models for two fluid phases by

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including a third ... which can still be seen as the representation of a single pore throat in a porous medium. Under moderate assumptions ...

Upscaling of a Cahn-Hilliard Navier-Stokes model with precipitation and dissolution in a thin strip

In Physics of Fluids, researchers use principal component analysis along with fluid dynamics simulation models to show the crucial importance of proper fit for all types of masks and how face shape ...

Face shape influences mask fit, suggests problems with double masking against COVID-19

The team employed a porous membrane model with an immersed border and diffuse interface to investigate the flow physics exhibited by face masks. They assessed the fluid dynamics of a coughing ...

Proper fit crucial for optimal face mask protection

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In Physics of Fluids, published by AIP Publishing, researchers at Florida State University and Johns Hopkins University use principal component analysis (PCA) along with fluid dynamics simulation ...

Researchers show how face shape influences the most ideal fit of masks

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The study published in Physics of Fluids, suggests double masking with improperly fitted masks may "not significantly improve mask efficiency and produces a ...

Double-Masking May Not Improve Protection Against Covid

Prerequisite: CBE 341. An intensive hands-on practice of engineering. Experimental work in the areas of separations, heat transfer, fluid mechanics, process dynamics and control, materials processing ...

Chemical and Biological Engineering

They used a technique called principal component analysis (PCA) along with fluid dynamics simulation models to show the importance of proper fit for all types of masks and how face shape influences ...

'Double masking' has little effect; it's the fit that matters

along with fluid dynamics simulation models to show the crucial importance of proper fit for all types of masks and how face shape influences the most ideal fit. The study suggests that double ...

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