

## Accepted Manuscript

Exact Solutions for Two-Phase Colloidal-Suspension Transport in Porous Media

S. Borazjani , P. Bedrikovetsky

PII: S0307-904X(16)30676-X  
DOI: [10.1016/j.apm.2016.12.023](https://doi.org/10.1016/j.apm.2016.12.023)  
Reference: APM 11485



To appear in: *Applied Mathematical Modelling*

Received date: 9 May 2016  
Revised date: 24 October 2016  
Accepted date: 14 December 2016

Please cite this article as: S. Borazjani , P. Bedrikovetsky , Exact Solutions for Two-Phase Colloidal-Suspension Transport in Porous Media, *Applied Mathematical Modelling* (2016), doi: [10.1016/j.apm.2016.12.023](https://doi.org/10.1016/j.apm.2016.12.023)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Highlights**

- Mapping using Lagrangian coordinate instead of time splits the governing system
- Exact analytical solutions for two-phase colloidal-suspension flows in porous media
- Steady-state suspension profile in the transient solution
- Retained concentrations are proportional to mass of passing-by particles
- Maximum penetration depth is equal to reciprocal of the filtration coefficient

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5471144>

Download Persian Version:

<https://daneshyari.com/article/5471144>

[Daneshyari.com](https://daneshyari.com)