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ACADEMIC APPOINTMENTS

- Sr Res Scientist-Physical, Department of Energy Resources Engineering

Publications

PUBLICATIONS

- **Data-Informed Method of Distributions for Hyperbolic Conservation Laws** *SIAM Journal on Scientific Computing*
Boso, F., Tartakovsky, D. M.
2020; 42 (1): 25
- **Probabilistic Forecast of Single-Phase Flow in Porous Media With Uncertain Properties** *WATER RESOURCES RESEARCH*
Yang, H., Boso, F., Tchelepi, H. A., Tartakovsky, D. M.
2019
- **Method of Distributions for Water Hammer Equations With Uncertain Parameters** *WATER RESOURCES RESEARCH*
Alawadhi, A., Boso, F., Tartakovsky, D. M.
2018; 54 (11): 9398–9411
- **Information-Theoretic Approach to Bidirectional Scaling** *WATER RESOURCES RESEARCH*
Boso, F., Tartakovsky, D. M.
2018; 54 (7): 4916–28
- **Probabilistic Forecasting of Nitrogen Dynamics in Hyporheic Zone** *WATER RESOURCES RESEARCH*
Boso, F., Marzadri, A., Tartakovsky, D. M.
2018; 54 (7): 4417–31
- **The method of distributions for dispersive transport in porous media with uncertain hydraulic properties** *WATER RESOURCES RESEARCH*
Boso, F., Tartakovsky, D. M.
2016; 52 (6): 4700-4712
- **A theoretical framework for modeling dilution enhancement of non-reactive solutes in heterogeneous porous media** *JOURNAL OF CONTAMINANT HYDROLOGY*
de Barros, F. J., Fiori, A., Boso, F., Bellin, A.
2015; 175: 72–83
- **Cumulative distribution function solutions of advection-reaction equations with uncertain parameters** *PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*
Boso, F., Broyda, S. V., Tartakovsky, D. M.
2014; 470 (2166)
- **Homogenizability conditions for multicomponent reactive transport** *ADVANCES IN WATER RESOURCES*

Boso, F., Battiato, I.
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- **Performance analysis of statistical spatial measures for contaminant plume characterization toward risk-based decision making** *WATER RESOURCES RESEARCH*

Boso, F., de Barros, F. J., Fiori, A., Bellin, A.
2013; 49 (6): 3119-32

- **Numerical simulations of solute transport in highly heterogeneous formations: A comparison of alternative numerical schemes** *ADVANCES IN WATER RESOURCES*

Boso, F., Bellin, A., Dumbser, M.
2013; 52: 178-89

- **Mixing processes in highly heterogeneous formations**

Boso, F., Bellin, A., Oswald, S. E., Kolditz, O., Attinger, S.
INT ASSOC HYDROLOGICAL SCIENCES.2012: 217-22

- **An indirect assessment on the impact of connectivity of conductivity classes upon longitudinal asymptotic macrodispersivity** *WATER RESOURCES RESEARCH*

Fiori, A., Boso, F., de Barros, F. J., De Bartolo, S., Frampton, A., Severino, G., Suweis, S., Dagan, G.
2010; 46