

List of Citations and Impact Factor

1. Sviercoski R. F. , “*An analytical effective tensor and its approximation properties for upscaling flows through generalized composites*”, Adv. Water Resour, doi:10.1016/j.advwatres.2010.03.011, (2010). **I. Factor. 3.417 citations:5**

1.1 Upscaling unsaturated flow in binary porous media with air entry pressure effects

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1.2 Upscaling from Darcy scale to field scale

A Szymkiewicz - Modelling Water Flow in Unsaturated Porous Media, 2013 - Springer

1.3 An analytical coarse grid operator applied to a multiscale multigrid method

RF Sviercoski, P Popov, S Margenov - Journal of Computational and ..., 2015 - Elsevier

1.4 A multiscale multilevel algorithm using analytical coarse operator applied to bone tissue modeling

RF Sviercoski, S Margenov - Mathematics in Industry, Cambridge Scholars ..., 2014

1.5 Upscaling the coupled water flow and heat transfer in the subsurface—Comparison between numerical and field data

RF Sviercoski, [Y Efendiev](#), [B Mohanty](#)... - ... OF MATHEMATICS IN ..., 2015 - scitation.aip.org

2. Sviercoski, R. F., Warrick, A.W., Winter, C. L. “Homogenization of the n-dimensional Richards' equation by a two-scale asymptotic expansion" Water Resources Research. 45, W05403, 10 PP., doi:10.1029/2006WR005598 (2009). **I. Factor. 3.549, citations:6**

2.1 Determining the influence of stones on hydraulic conductivity of saturated soils using numerical method

V Novák, K Křava, [J Šimůnek](#) - Geoderma, 2011 - Elsevier

2.2 An analytical effective tensor and its approximation properties for upscaling flows through generalized composites

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2.3 Upscaling from Darcy scale to field scale

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2.5 Unsaturated Hydraulic Conductivity of Repeatedly Layered Soil Structures

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3. *Sviercoski, R. F., Popov, P., Travis, B. J., " A Zeroth and First-Order Homogenized Approximations to Nonlinear Diffusion through Block Inclusions, by an Analytical Approach". Computer Methods in Applied Mechanics and Eng., Vol.198, Issues 30-32, Pages 2260-2271 (2009). I. Factor. 3.395, citations:3*

3.1 Two - scale analytical homogenization of Richards' equation for flows through block inclusions

RF Sviercoski, AW Warrick... - Water resources research, 2009 - Wiley Online Library

3.2 An analytical effective tensor and its approximation properties for upscaling flows through generalized composites

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3.3 An analytical coarse grid operator applied to a multiscale multigrid method

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4. *Sviercoski, R. F., Travis, B. J., Hyman, J. M., "Analytical Effective Coefficient and First-Order Approximation for Linear Flow through Block Permeability Inclusions", Comp. Math. Appl., 55, pp. 2118-2133, (2008). I. Factor. 1.7, citations:8*

4.1 Multiscale finite element methods: theory and applications

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4.2 Analytical approximation for the generalized Laplace equation with step function coefficient

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4.5 Analytical effective coefficient and first-order approximation to linear Darcy's law through block inclusions

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4.6 Zeroth and first-order homogenized approximations to nonlinear diffusion through block inclusions by an analytical approach

[RF Sviercoski, P Popov, BJ Travis - Computer Methods in Applied ..., 2009 - Elsevier](#)

4.7 An analytical coarse grid operator applied to a multiscale multigrid method

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4.8 Analytical effective tensor for flow-through composites

[RDF Sviercoski - US Patent 8,204,690, 2012 - Google Patents](#)

5 Sviercoski, R. F., Winter, C. L., Warrick, A.W., “Analytical Approximation for the generalized Laplace's Equation with Step Function Coefficient”. *SIAM J. Applied Math*, 68 (5) – pp. 1268-1281. (2008). **I. Factor. 1.428 citations:9**

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5.9 Analytical effective tensor for flow-through composites

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6. *Sviercoski, R. F., Travis, B. J., "Analytical Effective Coefficient and First-Order Approximation to Linear Darcy's Law through Block Inclusions". Lecture Notes in Computer Sciences- vol. 4818, Springer (2008). citations:9*

6.1 Two - scale analytical homogenization of Richards' equation for flows through block inclusions

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6.3 Zeroth and first-order homogenized approximations to nonlinear diffusion through block inclusions by an analytical approach

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