

Igor Jankovic

List of Publications by Year in descending order

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46
papers

1,004
citations

471509

17
h-index

454955

30
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46
all docs

46
docs citations

46
times ranked

523
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective Conductivity of an Isotropic Heterogeneous Medium of Lognormal Conductivity Distribution. Multiscale Modeling and Simulation, 2003, 1, 40-56.	1.6	78
2	High-order line elements in modeling two-dimensional groundwater flow. Journal of Hydrology, 1999, 226, 211-223.	5.4	74
3	Two-dimensional flow through large numbers of circular inhomogeneities. Journal of Hydrology, 1999, 226, 204-210.	5.4	72
4	Three-dimensional flow through large numbers of spheroidal inhomogeneities. Journal of Hydrology, 1999, 226, 224-233.	5.4	69
5	Upscaling of flow in heterogeneous porous formations: Critical examination and issues of principle. Advances in Water Resources, 2013, 51, 67-85.	3.8	54
6	The plume spreading in the MADE transport experiment: Could it be predicted by stochastic models?. Water Resources Research, 2013, 49, 2497-2507.	4.2	51
7	Ergodic transport through aquifers of non-Gaussian log conductivity distribution and occurrence of anomalous behavior. Water Resources Research, 2007, 43, .	4.2	41
8	Analysis of the impact of injection mode in transport through strongly heterogeneous aquifers. Advances in Water Resources, 2010, 33, 1199-1205.	3.8	35
9	When good statistical models of aquifer heterogeneity go right: The impact of aquifer permeability structures on 3D flow and transport. Advances in Water Resources, 2017, 100, 199-211.	3.8	35
10	The impact of local diffusion upon mass arrival of a passive solute in transport through three-dimensional highly heterogeneous aquifers. Advances in Water Resources, 2011, 34, 1563-1573.	3.8	33
11	Advective transport in heterogeneous aquifers: Are proxy models predictive?. Water Resources Research, 2015, 51, 9577-9594.	4.2	32
12	Solute transport in aquifers: The comeback of the advection dispersion equation and the First Order Approximation. Advances in Water Resources, 2017, 110, 349-359.	3.8	28
13	Is transverse macrodispersivity in three-dimensional groundwater transport equal to zero? A counterexample. Water Resources Research, 2009, 45, .	4.2	27
14	The superblock approach for the analytic element method. Journal of Hydrology, 1999, 226, 179-187.	5.4	26
15	A multi-quadric area-sink for analytic element modeling of groundwater flow. Journal of Hydrology, 1999, 226, 188-196.	5.4	23
16	Steady two-dimensional groundwater flow through many elliptical inhomogeneities. Water Resources Research, 2004, 40, .	4.2	22
17	The impact of local diffusion on longitudinal macrodispersivity and its major effect upon anomalous transport in highly heterogeneous aquifers. Advances in Water Resources, 2009, 32, 659-669.	3.8	22
18	Analytic formulation of Cauchy integrals for boundaries with curvilinear geometry. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 223-248.	2.1	17

#	ARTICLE	IF	CITATIONS
19	Effective conductivity of isotropic highly heterogeneous formations: Numerical and theoretical issues. <i>Water Resources Research</i> , 2013, 49, 1178-1183.	4.2	17
20	Contaminant tailing in highly heterogeneous porous formations: Sensitivity on model selection and material properties. <i>Journal of Hydrology</i> , 2015, 531, 149-160.	5.4	17
21	Effective Conductivity of an Anisotropic Heterogeneous Medium of Random Conductivity Distribution. <i>Multiscale Modeling and Simulation</i> , 2011, 9, 933-954.	1.6	16
22	Advective Transport in Heterogeneous Formations: The Impact of Spatial Anisotropy on the Breakthrough Curve. <i>Transport in Porous Media</i> , 2013, 96, 295-304.	2.6	16
23	Can we determine the transverse macrodispersivity by using the method of moments?. <i>Advances in Water Resources</i> , 2005, 28, 589-599.	3.8	15
24	A new algorithm for analytic element modeling of large-scale groundwater flow. <i>Advances in Water Resources</i> , 2007, 30, 446-454.	3.8	15
25	Impacts of transport mechanisms and plume history on tailing of sorbing plumes in heterogeneous porous formations. <i>Advances in Water Resources</i> , 2014, 73, 123-133.	3.8	15
26	Effective Hydraulic Conductivity of Three-Dimensional Heterogeneous Formations of Lognormal Permeability Distribution: The Impact of Connectivity. <i>Water Resources Research</i> , 2018, 54, 2480-2486.	4.2	15
27	Flow and transport through two-dimensional isotropic media of binary conductivity distribution. Part 1: NUMERICAL methodology and semi-analytical solutions. <i>Stochastic Environmental Research and Risk Assessment</i> , 2003, 17, 370-383.	4.0	13
28	Effective Conductivity of Heterogeneous Multiphase Media with Circular Inclusions. <i>Physical Review Letters</i> , 2005, 94, 224502.	7.8	12
29	Transmissivity and head covariances for flow in highly heterogeneous aquifers. <i>Journal of Hydrology</i> , 2004, 294, 39-56.	5.4	11
30	Effective retardation factor for transport of reactive solutes in highly heterogeneous porous formations. <i>Water Resources Research</i> , 2013, 49, 8600-8604.	4.2	11
31	Comment on "Asymptotic dispersion in 2D heterogeneous porous media determined by parallel numerical simulations" by J. R. de Dreuzy et al.. <i>Water Resources Research</i> , 2008, 44, .	4.2	10
32	A parallel mesh-free contaminant transport model based on the Analytic Element and Streamline Methods. <i>Advances in Water Resources</i> , 2009, 32, 1143-1153.	3.8	10
33	Identification of Heterogeneous Aquifer Transmissivity Using an AE-Based Method. <i>Ground Water</i> , 2006, 44, 62-71.	1.3	9
34	Flow and transport through two-dimensional isotropic media of binary conductivity distribution. Part 2: NUMERICAL simulations and comparison with theoretical results. <i>Stochastic Environmental Research and Risk Assessment</i> , 2003, 17, 384-393.	4.0	8
35	The Nested Superblock Approach for Regional-Scale Analytic Element Models. <i>Ground Water</i> , 2006, 44, 76-80.	1.3	8
36	Foreword: Ground Water Flow Modeling with the Analytic Element Method. <i>Ground Water</i> , 2006, 44, 1-2.	1.3	8

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37	Analytic-Element Modeling of Supraregional Groundwater Flow: Concepts and Tools for Automated Model Configuration. <i>Journal of Hydrologic Engineering - ASCE</i> , 2007, 12, 83-96.	1.9	8
38	Upscaling of Steady Flow in Three-Dimensional Highly Heterogeneous Formations. <i>Multiscale Modeling and Simulation</i> , 2011, 9, 1162-1180.	1.6	8
39	Deformation of stream surfaces in steady axisymmetric flow. <i>Water Resources Research</i> , 2001, 37, 307-315.	4.2	6
40	Flow velocity statistics for uniform flow through 3D anisotropic formations. <i>Advances in Water Resources</i> , 2012, 40, 37-45.	3.8	6
41	Effective Conductivity of Random Multiphase 2D Media with Polydisperse Circular Inclusions. <i>Multiscale Modeling and Simulation</i> , 2009, 7, 1979-2001.	1.6	5
42	Spatial and temporal analysis of groundwater recharge with application to sampling design. <i>Stochastic Hydrology & Hydraulics</i> , 1996, 10, 39-63.	0.5	4
43	Reply to comment by S. P. Neuman on "Advective transport in heterogeneous aquifers: Are proxy models predictive?". <i>Water Resources Research</i> , 2016, 52, 5703-5704.	4.2	2
44	Application of the analytic element method to stochastic modeling of flow and transport in highly heterogeneous porous formations. <i>Developments in Water Science</i> , 2002, 47, 749-751.	0.1	0
45	Simulations of flow and transport in highly heterogeneous porous formations: numerical issues. <i>Developments in Water Science</i> , 2004, 55, 415-426.	0.1	0
46	Reply to comment by O. D. L. Strack on "Steady two-dimensional groundwater flow through many elliptical inhomogeneities". <i>Water Resources Research</i> , 2005, 41, .	4.2	0