

Otto D L Strack

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

14,723
citations

471509

17
h-index

289244

40
g-index

43
all docs

43
docs citations

43
times ranked

7678
citing authors

#	ARTICLE	IF	CITATIONS
1	A discrete numerical model for granular assemblies. <i>Geotechnique</i> , 1979, 29, 47-65.	4.0	13,267
2	Discussion: A discrete numerical model for granular assemblies. <i>Geotechnique</i> , 1980, 30, 331-336.	4.0	348
3	A single-comprehensive potential solution for regional interface problems in coastal aquifers. <i>Water Resources Research</i> , 1976, 12, 1165-1174.	4.2	264
4	Theory and applications of the Analytic Element Method. <i>Reviews of Geophysics</i> , 2003, 41, .	23.0	82
5	Three-dimensional Streamlines in Dupuit-Forchheimer Models. <i>Water Resources Research</i> , 1984, 20, 812-822.	4.2	80
6	Mean-field inelastic behavior of random arrays of identical spheres. <i>Mechanics of Materials</i> , 1993, 16, 25-33.	3.2	78
7	Analytic elements for multiaquifer flow. <i>Journal of Hydrology</i> , 2003, 271, 119-129.	5.4	61
8	Modeling double aquifer flow using a comprehensive potential and distributed singularities: 2. Solution for inhomogeneous permeabilities. <i>Water Resources Research</i> , 1981, 17, 1551-1560.	4.2	58
9	Reduction of saltwater intrusion by modifying hydraulic conductivity. <i>Water Resources Research</i> , 2016, 52, 6978-6988.	4.2	54
10	Modeling double aquifer flow using a comprehensive potential and distributed singularities: 1. Solution for homogeneous permeability. <i>Water Resources Research</i> , 1981, 17, 1535-1549.	4.2	52
11	Capture Zone Delineation in Two-Dimensional Groundwater Flow Models. <i>Water Resources Research</i> , 1996, 32, 1309-1315.	4.2	43
12	A formulation for vertically integrated groundwater flow in a stratified coastal aquifer. <i>Water Resources Research</i> , 2015, 51, 6756-6775.	4.2	31
13	Some cases of interface flow towards drains. <i>Journal of Engineering Mathematics</i> , 1972, 6, 175-191.	1.2	25
14	A mathematical model for dispersion with a moving front in groundwater. <i>Water Resources Research</i> , 1992, 28, 2973-2980.	4.2	24
15	Flow in aquifers with clay laminae: 1. The comprehensive potential. <i>Water Resources Research</i> , 1981, 17, 985-992.	4.2	22
16	Area sinks in the analytic element method for transient groundwater flow. <i>Water Resources Research</i> , 1993, 29, 4121-4129.	4.2	21
17	Vertically Integrated Flows, Discharge Potential, and the Dupuit-Forchheimer Approximation. <i>Ground Water</i> , 2006, 44, 72-75.	1.3	20
18	A Dupuit-Forchheimer Model for three-dimensional flow with variable density. <i>Water Resources Research</i> , 1995, 31, 3007-3017.	4.2	18

#	ARTICLE	IF	CITATIONS
19	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
20	A new approximate technique for the hodograph method in groundwater flow and its application to coastal aquifers. Water Resources Research, 1988, 24, 1471-1481.	4.2	13
21	The generating analytic element approach with application to the modified Helmholtz equation. Journal of Engineering Mathematics, 2009, 64, 163-191.	1.2	12
22	The Development of New Analytic Elements for Transient Flow and Multiaquifer Flow. Ground Water, 2006, 44, 91-98.	1.3	10
23	Vertically integrated flow in stratified aquifers. Journal of Hydrology, 2017, 548, 794-800.	5.4	10
24	A new function for use in the Hodograph Method. Water Resources Research, 1978, 14, 1045-1058.	4.2	9
25	A validation of a Dupuit-Forchheimer Formulation for flow with variable density. Water Resources Research, 1995, 31, 3019-3024.	4.2	9
26	Using Wirtinger calculus and holomorphic matching to obtain the discharge potential for an elliptical pond. Water Resources Research, 2009, 45, .	4.2	7
27	Interface Flow With Vertically Varying Hydraulic Conductivity. Water Resources Research, 2019, 55, 8514-8525.	4.2	6
28	Flow in aquifers with clay laminae: 2. Exact solutions. Water Resources Research, 1981, 17, 993-1004.	4.2	5
29	Numerical solution of the differential equation for moving front dispersion. Journal of Hydrology, 1997, 194, 164-179.	5.4	5
30	Methods to Derive the Differential Equation of the Free Surface Boundary. Ground Water, 2011, 49, 133-143.	1.3	5
31	Salt water interface in a layered coastal aquifer: The only published analytic solution is in error. Water Resources Research, 2016, 52, 1502-1506.	4.2	5
32	Limitless Analytic Elements. Water Resources Research, 2018, 54, 1174-1190.	4.2	5
33	Analytic solutions for unconfined groundwater flow over a stepped base. Journal of Hydrology, 1996, 177, 65-76.	5.4	3
34	Autobiographical Sketch of Otto D.L Strack1. Ground Water, 2003, 41, 550-554.	1.3	3
35	Comment on "Steady two-dimensional groundwater flow through many elliptical inhomogeneities" by Raghavendra Suribhatla, Mark Bakker, Karl Bandilla, and Igor Jankovič. Water Resources Research, 2005, 41, .	4.2	3
36	Application of mathematics to flow in porous media before the computer age; an introduction to the Special Issue "Applying mathematics to flow in porous media". Journal of Engineering Mathematics, 2009, 64, 81-84.	1.2	3

#	ARTICLE	IF	CITATIONS
37	Analytic elements of smooth shapes. <i>Journal of Hydrology</i> , 2015, 529, 231-239.	5.4	3
38	A new formulation for steady multiaquifer flow: An analytic element for piecewise constant infiltration. <i>Water Resources Research</i> , 2014, 50, 7939-7956.	4.2	2
39	Analytical solution for groundwater recharge on a hill. <i>Advances in Water Resources</i> , 2019, 133, 103409.	3.8	2
40	Applications of Vector Analysis and Complex Variables in Engineering. , 2020, , .		2
41	An analytic element model for highly fractured elastic media. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 297-314.	3.3	2