# Otto D L Strack

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | An analytic element model for highly fractured elastic media. International Journal for Numerical and Analytical Methods in Geomechanics, 2022, 46, 297-314. | 3.3 | 2 |
| 2 | Applications of Vector Analysis and Complex Variables in Engineering. , 2020, , . | | 2 |
| 3 | Interface Flow With Vertically Varying Hydraulic Conductivity. Water Resources Research, 2019, 55, 8514-8525. | 4.2 | 6 |
| 4 | Analytical solution for groundwater recharge on a hill. Advances in Water Resources, 2019, 133, 103409. | 3.8 | 2 |
| 5 | Limitless Analytic Elements. Water Resources Research, 2018, 54, 1174-1190. | 4.2 | 5 |
| 6 | Vertically integrated flow in stratified aquifers. Journal of Hydrology, 2017, 548, 794-800. | 5.4 | 10 |
| 7 | 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 |
| 8 | Reduction of saltwater intrusion by modifying hydraulic conductivity. Water Resources Research, 2016, 52, 6978-6988. | 4.2 | 54 |
| 9 | A formulation for vertically integrated groundwater flow in a stratified coastal aquifer. Water Resources Research, 2015, 51, 6756-6775. | 4.2 | 31 |
| 10 | Analytic elements of smooth shapes. Journal of Hydrology, 2015, 529, 231-239. | 5.4 | 3 |
| 11 | A new formulation for steady multiaquifer flow: An analytic element for piecewise constant infiltration. Water Resources Research, 2014, 50, 7939-7956. | 4.2 | 2 |
| 12 | Methods to Derive the Differential Equation of the Free Surface Boundary. Ground Water, 2011, 49, 133-143. | 1.3 | 5 |
| 13 | The generating analytic element approach with application to the modified Helmholtz equation. Journal of Engineering Mathematics, 2009, 64, 163-191. | 1.2 | 12 |
| 14 | Application of mathematics to flow in porous media before the computer age; an introduction to the Special Issue â€œApplying mathematics to flow in porous mediaâ€• Journal of Engineering Mathematics, 2009, 64, 81-84. | 1.2 | 3 |
| 15 | Using Wirtinger calculus and holomorphic matching to obtain the discharge potential for an elliptical pond. Water Resources Research, 2009, 45, . | 4.2 | 7 |
| 16 | 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 |
| 17 | The Development of New Analytic Elements for Transient Flow and Multiaquifer Flow. Ground Water, 2006, 44, 91-98. | 1.3 | 10 |
| 18 | Vertically Integrated Flows, Discharge Potential, and the Dupuit-Forchheimer Approximation. Ground Water, 2006, 44, 72-75. | 1.3 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Comment on â€œSteady two-dimensional groundwater flow through many elliptical inhomogeneitiesâ€•by Raghavendra Suribhatla, Mark Bakker, Karl Bandilla, and Igor JankoviÄ‡. Water Resources Research, 2005, 41, . | 4.2 | 3 |
| 20 | Autobiographical Sketch of Otto D.L Strack1. Ground Water, 2003, 41, 550-554. | 1.3 | 3 |
| 21 | Theory and applications of the Analytic Element Method. Reviews of Geophysics, 2003, 41, . | 23.0 | 82 |
| 22 | Analytic elements for multiaquifer flow. Journal of Hydrology, 2003, 271, 119-129. | 5.4 | 61 |
| 23 | Numerical solution of the differential equation for moving front dispersion. Journal of Hydrology, 1997, 194, 164-179. | 5.4 | 5 |
| 24 | Capture Zone Delineation in Two-Dimensional Groundwater Flow Models. Water Resources Research, 1996, 32, 1309-1315. | 4.2 | 43 |
| 25 | Analytic solutions for unconfined groundwater flow over a stepped base. Journal of Hydrology, 1996, 177, 65-76. | 5.4 | 3 |
| 26 | A validation of a Dupuit-Forchheimer Formulation for flow with variable density. Water Resources Research, 1995, 31, 3019-3024. | 4.2 | 9 |
| 27 | A Dupuit-Forchheimer Model for three-dimensional flow with variable density. Water Resources Research, 1995, 31, 3007-3017. | 4.2 | 18 |
| 28 | Mean-field inelastic behavior of random arrays of identical spheres. Mechanics of Materials, 1993, 16, 25-33. | 3.2 | 78 |
| 29 | Area sinks in the analytic element method for transient groundwater flow. Water Resources Research, 1993, 29, 4121-4129. | 4.2 | 21 |
| 30 | A mathematical model for dispersion with a moving front in groundwater. Water Resources Research, 1992, 28, 2973-2980. | 4.2 | 24 |
| 31 | 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 |
| 32 | Threeâ€Ðimensional Streamlines in Dupuitâ€Forchheimer Models. Water Resources Research, 1984, 20, 812-822. | 4.2 | 80 |
| 33 | Flow in aquifers with clay laminae: 1. The comprehensive potential. Water Resources Research, 1981, 17, 985-992. | 4.2 | 22 |
| 34 | Flow in aquifers with clay laminae: 2. Exact solutions. Water Resources Research, 1981, 17, 993-1004. | 4.2 | 5 |
| 35 | Modeling double aquifer flow using a comprehensive potential and distributed singularities: 1. Solution for homogeneous permeability. Water Resources Research, 1981, 17, 1535-1549. | 4.2 | 52 |
| 36 | Modeling double aquifer flow using a comprehensive potential and distributed singularities: 2. Solution for inhomogeneous permeabilities. Water Resources Research, 1981, 17, 1551-1560. | 4.2 | 58 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Discussion: A discrete numerical model for granular assemblies. Geotechnique, 1980, 30, 331-336. | 4.0 | 348 |
| 38 | A discrete numerical model for granular assemblies. Geotechnique, 1979, 29, 47-65. | 4.0 | 13,267 |
| 39 | A new function for use in the Hodograph Method. Water Resources Research, 1978, 14, 1045-1058. | 4.2 | 9 |
| 40 | A singleâ€potential solution for regional interface problems in coastal aquifers. Water Resources Research, 1976, 12, 1165-1174. | 4.2 | 264 |
| 41 | Some cases of interface flow towards drains. Journal of Engineering Mathematics, 1972, 6, 175-191. | 1.2 | 25 |