

# Hund-Der Yeh

## List of Publications by Year in descending order

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130  
papers

1,969  
citations

257450

24  
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330143

37  
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131  
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131  
docs citations

131  
times ranked

1105  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of precious metals in water by dendrimer modified magnetic nanoparticles. Journal of Hazardous Materials, 2017, 322, 215-222.	12.4	156
2	Recent advances in modeling of well hydraulics. Advances in Water Resources, 2013, 51, 27-51.	3.8	114
3	The use of sensitivity analysis in on-line aquifer parameter estimation. Journal of Hydrology, 2007, 335, 406-418.	5.4	82
4	A new closed-form solution for a radial two-layer drawdown equation for groundwater under constant-flux pumping in a finite-radius well. Advances in Water Resources, 2003, 26, 747-757.	3.8	63
5	Theis' Solution by Nonlinear Least-Squares and Finite-Difference Newton's Method. Ground Water, 1987, 25, 710-715.	1.3	59
6	Groundwater contaminant source identification by a hybrid heuristic approach. Water Resources Research, 2007, 43, .	4.2	56
7	Stream depletion rate and volume from groundwater pumping in wedge-shape aquifers. Journal of Hydrology, 2008, 349, 501-511.	5.4	46
8	Conditional expectation for evaluation of risk groundwater flow and solute transport: one-dimensional analysis. Journal of Hydrology, 1997, 199, 378-402.	5.4	42
9	Solution for Flow Rates across the Wellbore in a Two-Zone Confined Aquifer. Journal of Hydraulic Engineering, 2002, 128, 175-183.	1.5	41
10	An analytical solution for the head distribution in a tidal leaky confined aquifer extending an infinite distance under the sea. Advances in Water Resources, 2007, 30, 439-445.	3.8	39
11	Review of analytical models to stream depletion induced by pumping: Guide to model selection. Journal of Hydrology, 2018, 561, 277-285.	5.4	39
12	Laplace-Domain Solutions for Radial Two-Zone Flow Equations under the Conditions of Constant-Head and Partially Penetrating Well. Journal of Hydraulic Engineering, 2005, 131, 209-216.	1.5	37
13	A novel analytical solution for a slug test conducted in a well with a finite-thickness skin. Advances in Water Resources, 2006, 29, 1479-1489.	3.8	37
14	Improved numerical evaluation of the radial groundwater flow equation. Advances in Water Resources, 2002, 25, 663-675.	3.8	36
15	New analytical solutions for groundwater flow in wedge-shaped aquifers with various topographic boundary conditions. Advances in Water Resources, 2006, 29, 471-480.	3.8	34
16	A general analytical solution for flow to a single horizontal well by Fourier and Laplace transforms. Advances in Water Resources, 2011, 34, 640-648.	3.8	34
17	Determination of skin and aquifer parameters for a slug test with wellbore-skin effect. Journal of Hydrology, 2007, 342, 283-294.	5.4	32
18	Tide-induced groundwater level fluctuation in a U-shaped coastal aquifer. Journal of Hydrology, 2015, 530, 291-305.	5.4	32

#	ARTICLE	IF	CITATIONS
19	Parameter identification for leaky aquifers using global optimization methods. <i>Hydrological Processes</i> , 2007, 21, 862-872.	2.6	30
20	A new solution for a partially penetrating constant-rate pumping well with a finite-thickness skin. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2007, 31, 1659-1674.	3.3	28
21	An Optimization Approach to Leak Detection in Pipe Networks Using Simulated Annealing. <i>Water Resources Management</i> , 2015, 29, 4185-4201.	3.9	28
22	A general analytical model for pumping tests in radial finite two-zone confined aquifers with Robin-type outer boundary. <i>Journal of Hydrology</i> , 2016, 540, 1162-1175.	5.4	28
23	A closed form solution for constant flux pumping in a well under partial penetration condition. <i>Water Resources Research</i> , 2006, 42, .	4.2	26
24	A novel analytical solution for constant-head test in a patchy aquifer. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2006, 30, 1213-1230.	3.3	26
25	Obtaining the steady-state drawdown solutions of constant-head and constant-flux tests. <i>Hydrological Processes</i> , 2008, 22, 3456-3461.	2.6	26
26	An analytical solution for describing the transient temperature distribution in an aquifer thermal energy storage system. <i>Hydrological Processes</i> , 2010, 24, 3676-3688.	2.6	24
27	Groundwater response to tidal fluctuation in a sloping leaky aquifer system. <i>Applied Mathematical Modelling</i> , 2012, 36, 4750-4759.	4.2	24
28	Analytical Solution for Tidal Propagation in a Leaky Aquifer Extending Finite Distance under the Sea. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 447-454.	1.5	23
29	Trihalomethane Species Forecast Using Optimization Methods: Genetic Algorithms and Simulated Annealing. <i>Journal of Computing in Civil Engineering</i> , 2005, 19, 248-257.	4.7	21
30	Radial groundwater flow to a finite diameter well in a leaky confined aquifer with a finite-thickness skin. <i>Hydrological Processes</i> , 2009, 23, 3382-3390.	2.6	21
31	An analytical solution for a radial collector well near a stream with a low-permeability streambed. <i>Journal of Hydrology</i> , 2012, 446-447, 48-58.	5.4	19
32	Semi-analytical solution for a slug test in partially penetrating wells including the effect of finite-thickness skin. <i>Hydrological Processes</i> , 2008, 22, 3741-3748.	2.6	18
33	A general analytical solution for groundwater fluctuations due to dual tide in long but narrow islands. <i>Water Resources Research</i> , 2012, 48, .	4.2	18
34	An analytical model for flow induced by a constant-head pumping in a leaky unconfined aquifer system with considering unsaturated flow. <i>Advances in Water Resources</i> , 2017, 107, 525-534.	3.8	18
35	Analysis of Point-Source and Boundary-Source Solutions of One-Dimensional Groundwater Transport Equation. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 1032-1041.	1.4	17
36	A simple analytical solution for organic contaminant diffusion through a geomembrane to unsaturated soil liner: Considering the sorption effect and Robin-type boundary. <i>Journal of Hydrology</i> , 2020, 586, 124873.	5.4	17

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37	Analytical solution for groundwater flow in an anisotropic sloping aquifer with arbitrarily located multiwells. <i>Journal of Hydrology</i> , 2007, 347, 143-152.	5.4	16
38	A closed-form solution for a confined flow into a tunnel during progressive drilling in a multi-layer groundwater flow system. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	16
39	Stream filtration induced by pumping in a confined, unconfined or leaky aquifer bounded by two parallel streams or by a stream and an impervious stratum. <i>Journal of Hydrology</i> , 2014, 513, 28-44.	5.4	16
40	Large-time solutions for groundwater flow problems using the relationship of small $p$ versus large $t$ . <i>Water Resources Research</i> , 2007, 43, .	4.2	15
41	A generalized solution for groundwater head fluctuation in a tidal leaky aquifer system. <i>Journal of Earth System Science</i> , 2011, 120, 1055-1066.	1.3	14
42	Semi-analytical and approximate solutions for contaminant transport from an injection well in a two-zone confined aquifer system. <i>Journal of Hydrology</i> , 2014, 519, 1171-1176.	5.4	14
43	An analytical approach for the simulation of flow in a heterogeneous confined aquifer with a parameter zonation structure. <i>Water Resources Research</i> , 2016, 52, 9201-9212.	4.2	14
44	A Simple Approach Using Bouwer and Rice's Method for Slug Test Data Analysis. <i>Ground Water</i> , 2004, 42, 781-784.	1.3	13
45	Analytical Solutions for Constant-Flux and Constant-Head Tests at a Finite-Diameter Well in a Wedge-Shaped Aquifer. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 333-337.	1.5	13
46	Analysis of pumping test data for determining unconfined-aquifer parameters: Composite analysis or not?. <i>Hydrogeology Journal</i> , 2009, 17, 1133-1147.	2.1	13
47	A mathematical solution and analysis of contaminant transport in a radial two-zone confined aquifer. <i>Journal of Contaminant Hydrology</i> , 2012, 138-139, 75-82.	3.3	13
48	Heat extraction from aquifer geothermal systems. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2012, 36, 85-99.	3.3	13
49	Pressure Buildup During Supercritical Carbon Dioxide Injection From a Partially Penetrating Borehole into Gas Reservoirs. <i>Transport in Porous Media</i> , 2012, 91, 889-911.	2.6	13
50	Analytical Model for Heat Transfer Accounting for Both Conduction and Dispersion in Aquifers With a Robinâ€™type Boundary Condition at the Injection Well. <i>Water Resources Research</i> , 2019, 55, 7379-7399.	4.2	13
51	Numerical Identification of Parameters in Leaky Aquifers. <i>Ground Water</i> , 1989, 27, 655-663.	1.3	12
52	A new approximate solution for chlorine concentration decay in pipes. <i>Water Research</i> , 2008, 42, 2787-2795.	11.3	12
53	Modelling transient temperature distribution for injecting hot water through a well to an aquifer thermal energy storage system. <i>Geophysical Journal International</i> , 2010, 183, 237-251.	2.4	12
54	Applying Hybrid Heuristic Approach to Identify Contaminant Source Information in Transient Groundwater Flow Systems. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-13.	1.1	12

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55	Groundwater Response to Tidal Fluctuation in an Inhomogeneous Coastal Aquifer-Aquitard System. <i>Water Resources Management</i> , 2014, 28, 3591-3617.	3.9	12
56	Estimating stream filtration from a meandering stream under the <math>R</math>-obin condition. <i>Water Resources Research</i> , 2015, 51, 4848-4857.	4.2	12
57	Pipe network system analysis using simulated annealing. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2008, 57, 317-327.	1.4	11
58	Modeling transient heat transfer in nuclear waste repositories. <i>Journal of Hazardous Materials</i> , 2009, 169, 108-112.	12.4	11
59	Effect of Well Radius on Drawdown Solutions Obtained with Laplace Transform and Green's Function. <i>Water Resources Management</i> , 2012, 26, 377-390.	3.9	10
60	Spectral analysis of temporal variability of nonlinear and nonstationary rainfall-runoff processes. <i>Journal of Hydrology</i> , 2019, 575, 1301-1307.	5.4	10
61	Determination of the parameter pattern and values for a one-dimensional multi-zone unconfined aquifer. <i>Hydrogeology Journal</i> , 2008, 16, 205-214.	2.1	9
62	Identifying groundwater pumping source information using simulated annealing. <i>Hydrological Processes</i> , 2008, 22, 3010-3019.	2.6	9
63	A new analytical solution solved by triple series equations method for constant-head tests in confined aquifers. <i>Advances in Water Resources</i> , 2010, 33, 640-651.	3.8	9
64	Wellbore flow-rate solution for a constant-head test in two-zone finite confined aquifers. <i>Hydrological Processes</i> , 2012, 26, 3216-3224.	2.6	9
65	Spectral analysis of temporal non-stationary rainfall-runoff processes. <i>Journal of Hydrology</i> , 2018, 559, 84-88.	5.4	9
66	Analysis of three-dimensional unsaturated-saturated flow induced by localized recharge in unconfined aquifers. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3951-3963.	4.9	9
67	A computer method based on simulated annealing to identify aquifer parameters using pumping-test data. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008, 32, 235-249.	3.3	8
68	Parameter Estimation/Sensitivity Analysis for an Aquifer Test with Skin Effect. <i>Ground Water</i> , 2009, 47, 287-299.	1.3	8
69	Nonstationary stochastic analysis of flow in a heterogeneous unconfined aquifer subject to spatially-random periodic recharge. <i>Journal of Hydrology</i> , 2010, 395, 163-168.	5.4	8
70	Approximate Solution for a Transient Hydraulic Head Distribution Induced by a Constant-Head Test at a Partially Penetrating Well in a Two-Zone Confined Aquifer. <i>Journal of Hydraulic Engineering</i> , 2014, 140, 04014030.	1.5	8
71	A Lagging Model for Describing Drawdown Induced by a Constant-Rate Pumping in a Leaky Confined Aquifer. <i>Water Resources Research</i> , 2017, 53, 8500-8511.	4.2	8
72	Analysis of radially convergent tracer test in a two-zone confined aquifer with vertical dispersion effect: Asymmetrical and symmetrical transports. <i>Journal of Hazardous Materials</i> , 2019, 377, 8-16.	12.4	8

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73	Large-time behavior of macrodispersion in heterogeneous trending aquifers. <i>Water Resources Research</i> , 2007, 43, .	4.2	7
74	An analytical solution for heterogeneous and anisotropic anticline reservoirs under well injection. <i>Advances in Water Resources</i> , 2010, 33, 419-429.	3.8	7
75	Transient Flow into a Partially Penetrating Well during the Constant-Head Test in Unconfined Aquifers. <i>Journal of Hydraulic Engineering</i> , 2011, 137, 1054-1063.	1.5	7
76	Modeling contaminant transport in a two-aquifer system with an intervening aquitard. <i>Journal of Hydrology</i> , 2013, 499, 200-209.	5.4	7
77	Investigation of flow and solute transport at the field scale through heterogeneous deformable porous media. <i>Journal of Hydrology</i> , 2016, 540, 142-147.	5.4	7
78	Reconstructing the release history of a groundwater contaminant based on AT123D. <i>Journal of Hydro-Environment Research</i> , 2016, 13, 89-102.	2.2	7
79	Analysis of Unconfined Flow Induced by Constant Rate Pumping Based on the Lagging Theory. <i>Water Resources Research</i> , 2019, 55, 3925-3940.	4.2	7
80	Analysis of well residual drawdown after a constant-head test. <i>Journal of Hydrology</i> , 2009, 373, 436-441.	5.4	6
81	Groundwater flow to a pumping well in a sloping fault zone unconfined aquifer. <i>Water Resources Research</i> , 2014, 50, 4079-4094.	4.2	6
82	Technical Note: Three-dimensional transient groundwater flow due to localized recharge with an arbitrary transient rate in unconfined aquifers. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1225-1239.	4.9	6
83	A general analytical model for head response to oscillatory pumping in unconfined aquifers: effects of delayed gravity drainage and initial condition. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1323-1337.	4.9	6
84	New analytical model for constant-head pumping: Considering rate-dependent factor at well screen. <i>Journal of Hydrology</i> , 2020, 581, 124395.	5.4	6
85	Using the nonstationary spectral method to analyze asymptotic macrodispersion in uniformly recharged heterogeneous aquifers. <i>Journal of Hydrology</i> , 2008, 350, 93-99.	5.4	5
86	Stochastic analysis of bounded unsaturated flow in heterogeneous aquifers: Spectral/perturbation approach. <i>Advances in Water Resources</i> , 2009, 32, 120-126.	3.8	5
87	A General Semi-Analytical Solution for Three Types of Well Tests in Confined Aquifers with a Partially Penetrating Well. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2012, 23, 577.	0.6	5
88	New Analytical Models for Flow Induced by Pumping in a Stream-Aquifer System: A New Robin Boundary Condition Reflecting Joint Effect of Streambed Width and Storage. <i>Water Resources Research</i> , 2020, 56, e2019WR026352.	4.2	5
89	An Analytical Model With a Generalized Nonlinear Water Transfer Term for the Flow in Dual-Porosity Media Induced by Constant-Rate Pumping in a Leaky Fractured Aquifer. <i>Water Resources Research</i> , 2021, 57, e2020WR029186.	4.2	5
90	A Semi-Analytical Solution for Slug Test by Considering Near-Well Formation Damage and Nonlinear Flow. <i>Water Resources Research</i> , 2022, 58, .	4.2	5

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91	Radionuclide Transport in a Multiple and Parallel Fractured System. Nuclear Technology, 2003, 143, 322-334.	1.2	4
92	Skin effect in generalized radial flow model in fractured media. Geophysical Journal International, 2011, 185, 78-84.	2.4	4
93	Modeling volatilization of residual VOCs in unsaturated zones: A moving boundary problem. Journal of Hazardous Materials, 2012, 219-220, 231-239.	12.4	4
94	Stochastic modeling of variations in stream flow discharge induced by random spatiotemporal fluctuations in lateral inflow rate. Stochastic Environmental Research and Risk Assessment, 2016, 30, 1635-1640.	4.0	4
95	Comment on "Evaluation of the Hantush's $M(\pm i)$ , $M^2(i)$ function using binomial coefficients" by B. A. Mamedov and A. S. Ekenoğlu. Water Resources Research, 2007, 43, .	4.2	3
96	Transient analysis for fluid injection into a dome reservoir. Advances in Water Resources, 2011, 34, 1553-1562.	3.8	3
97	A perturbation solution for head fluctuations in a coastal leaky aquifer system considering water table over-height. Hydrological Sciences Journal, 2012, 57, 162-172.	2.6	3
98	Development of approximate solutions for contaminant transport through fractured media. Applied Mathematical Modelling, 2015, 39, 438-448.	4.2	3
99	Aquifer Parameter Estimation for a Constant-Flux Test Performed in a Radial Two-Zone Aquifer. Journal of Irrigation and Drainage Engineering - ASCE, 2009, 135, 693-703.	1.0	2
100	A drawdown solution for constant-flux pumping in a confined anticline aquifer. Journal of Hydrology, 2011, 405, 488-500.	5.4	2
101	Parameter Identification for a Slug Test in a Well with Finite-Thickness Skin Using Extended Kalman Filter. Water Resources Management, 2012, 26, 4039-4057.	3.9	2
102	Semi-analytical solution of groundwater flow in a leaky aquifer system subject to bending effect. Journal of Hydrology, 2013, 486, 395-402.	5.4	2
103	A Semianalytical Solution for Residual Drawdown at a Finite Diameter Well in a Confined Aquifer. Journal of the American Water Resources Association, 2013, 49, 966-972.	2.4	2
104	Variability of stream flow discharge in response to self-similar random fields of temporal fluctuations in lateral inflow rate. Journal of Hydrology, 2014, 517, 246-249.	5.4	2
105	Uncertainty in applying the linear poroelasticity model to field situations as a result of periodic loading in heterogeneous aquifers. Hydrological Processes, 2015, 29, 2454-2462.	2.6	2
106	An Analytical Solution of Groundwater Flow in Wedge-shaped Aquifers with Estuarine Boundary Conditions. Water Resources Management, 2018, 32, 5027-5039.	3.9	2
107	An Inverse Transient-Based Optimization Approach to Fault Examination in Water Distribution Networks. Water (Switzerland), 2019, 11, 1154.	2.7	2
108	Considering the effect of body force for regional land displacements. International Journal for Numerical and Analytical Methods in Geomechanics, 1994, 18, 145-160.	3.3	1

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109	Optimum Allocation for Soil Contamination Investigations in Hsinchu, Taiwan, by Double Sampling. Soil Science Society of America Journal, 2007, 71, 1585-1592.	2.2	1
110	A New Method for Laboratory Estimation of the Transverse Dispersion Coefficient. Ground Water, 2010, 48, 16-17.	1.3	1
111	Examining the large-time wellbore flux of constant head test. Water Resources Research, 2010, 46, .	4.2	1
112	Variability of volume strain in bounded heterogeneous media. Hydrological Processes, 2013, 27, 319-323.	2.6	1
113	Stochastic analysis of stream-groundwater interaction subject to temporally correlated recharge. Journal of Hydrology, 2013, 476, 490-495.	5.4	1
114	Uncertainty Estimation in One-Dimensional Heat Transport Model for Heterogeneous Porous Medium. Ground Water, 2014, 52, 326-331.	1.3	1
115	Induced Groundwater Flux by Increases in the Aquifer's Total Stress. Ground Water, 2015, 53, 10-16.	1.3	1
116	Probability density functions of the stream flow discharge in linearized diffusion wave models. Journal of Hydrology, 2016, 543, 625-629.	5.4	1
117	Solution for Soil Vapor Extraction from a Pressure-Controlled Well. Journal of Environmental Engineering, ASCE, 2017, 143, .	1.4	1
118	Excess pore water pressure due to ground surface erosion. Applied Mathematical Modelling, 2018, 61, 72-82.	4.2	1
119	DISCUSSION OF "Determination of Aquifer Parameters by the Slope-Matching Method," by Z. Sen. Ground Water, 1986, 24, 810-810.	1.3	0
120	Comment on "Application of BEM with extended Kalman filter to parameter identification of an elastic plate under dynamic loading" by M. Tanaka, T. Matsumoto and H. Yamamura [Engineering Analysis with Boundary Elements 28 (2004) 213-219]. Engineering Analysis With Boundary Elements, 2005, 29, 93-94.	3.7	0
121	Approximate Discharge for Constant Head Test with Recharging Boundary. Ground Water, 2007, 45, 659-659.	1.3	0
122	Composite Analysis of Test-Well and Observation-Well Data during Constant-Head Test. , 2009, , .		0
123	Reply to Comment on "Analysis of pumping test data for determining unconfined-aquifer parameters: Composite analysis or not?" paper published in Hydrogeology Journal (2009) 17:1133-1147, by Hund-Der Yeh and Yen-Chen Huang. Hydrogeology Journal, 2010, 18, 1979-1981.	2.1	0
124	Uncertainty in the Volume Strain Field of the Solid in Unsaturated Heterogeneous Deforming Media. Vadose Zone Journal, 2011, 10, 1242-1249.	2.2	0
125	Discussion of "Integral and Closed-Form Analytical Solutions to the Transport Contaminant Equation Considering 3D Advection and Dispersion" by Luan Carlos de S. M. Ozelim and Andr� Lu�s Brasil Cavalcante. International Journal of Geomechanics, 2014, 14, 07014001.	2.7	0
126	Uncertainty in applying the temperature time-series method to the field under heterogeneous flow conditions. Journal of Hydrology, 2014, 519, 902-908.	5.4	0



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127	Stochastic Analysis of Unsaturated Flow Subject to Temporally Correlated Infiltration. Transport in Porous Media, 2014, 104, 289-298.	2.6	0
128	Analytical Solution for Vapor Flow to a Horizontal Well in Unsaturated Soils. , 2014, , .		0
129	Quantification of Lagrangian travel time statistics under nonstationary random groundwater flow conditions. Hydrological Processes, 2018, 32, 1561-1570.	2.6	0
130	Analysis of Transient Flow to an Extended Fully Penetrating Well at Constant Head Pumping. Ground Water, 2020, 58, 119-124.	1.3	0