

David R Steward

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4266767/publications.pdf>

Version: 2024-02-01

48
papers

697
citations

687363

13
h-index

580821

25
g-index

51
all docs

51
docs citations

51
times ranked

714
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Groundwater-Surface Water Exchange Mechanism in the National Water Model over the Northern High Plains Aquifer, USA. Journal of the American Water Resources Association, 2021, 57, 241-255.	2.4	7
2	Evaluating Baseflow Simulation in the National Water Model: A Case Study in the Northern High Plains Region, USA. Journal of the American Water Resources Association, 2021, 57, 267-280.	2.4	10
3	Waves in Collections of Circular Shoals and Bathymetric Depressions. Journal of Waterway, Port, Coastal and Ocean Engineering, 2020, 146, 04020018.	1.2	1
4	Analytic Element Method across Fields of Study. , 2020, , 1-70.		0
5	Analytic Elements from Separation of Variables. , 2020, , 165-226.		0
6	Characterizing Riverbed Heterogeneity across Shifts in River Discharge through Temporal Changes in Electrical Resistivity. Journal of Environmental and Engineering Geophysics, 2020, 25, 581-587.	0.5	4
7	Foundation of the Analytic Element Method. , 2020, , 71-102.		0
8	Analytic Elements from Singular Integral Equations. , 2020, , 227-284.		0
9	Analytic Elements from Complex Functions. , 2020, , 103-164.		0
10	Conceptualizing Groundwater-Surface Water Interactions within the Ogallala Aquifer Region using Electrical Resistivity Imaging. Journal of Environmental and Engineering Geophysics, 2019, 24, 185-199.	0.5	8
11	Wave Resonance and Dissipation in Collections of Partially Reflecting Vertical Cylinders. Journal of Waterway, Port, Coastal and Ocean Engineering, 2018, 144, .	1.2	4
12	Conserving the Ogallala Aquifer in southwestern Kansas: from the wells to people, a holistic coupled natural-human model. Hydrology and Earth System Sciences, 2017, 21, 6167-6183.	4.9	5
13	MODELING THE EFFECT OF LOW-PERMEABILITY LAYERS ON VADOSE WELL RECHARGE RATES. , 2017, , .		0
14	Peak groundwater depletion in the High Plains Aquifer, projections from 1930 to 2110. Agricultural Water Management, 2016, 170, 36-48.	5.6	82
15	Analysis of vadose zone inhomogeneity toward distinguishing recharge rates: Solving the nonlinear interface problem with N -ewton method. Water Resources Research, 2016, 52, 8756-8774.	4.2	2
16	Water and Society: Interdisciplinary Education in Natural Resources. Journal of Contemporary Water Research and Education, 2016, 158, 120-131.	0.7	4
17	Analysis of discontinuities across thin inhomogeneities, groundwater/surface water interactions in river networks, and circulation about slender bodies using slit elements in the A -analytic E -lement M -ethod. Water Resources Research, 2015, 51, 8684-8703.	4.2	9
18	Reply to Butler et al.: A sound hydrologic foundation for interdisciplinary studies of the High Plains Aquifer. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E532-E533.	7.1	0

#	ARTICLE	IF	CITATIONS
19	A distributed data component for the Open Modeling Interface. <i>Environmental Modelling and Software</i> , 2014, 57, 138-151.	4.5	7
20	Hyper-extractive counties in the U.S.: A coupled-systems approach. <i>Applied Geography</i> , 2013, 37, 88-100.	3.7	5
21	The Analytic Element Method for rectangular gridded domains, benchmark comparisons and application to the High Plains Aquifer. <i>Advances in Water Resources</i> , 2013, 60, 89-99.	3.8	10
22	The Simple Script Wrapper for OpenMI: Enabling interdisciplinary modeling studies. <i>Environmental Modelling and Software</i> , 2013, 39, 283-294.	4.5	21
23	Tapping unsustainable groundwater stores for agricultural production in the High Plains Aquifer of Kansas, projections to 2110. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3477-86.	7.1	163
24	Groundwater surface water interactions and the role of phreatophytes in identifying recharge zones. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4133-4142.	4.9	17
25	Explore the Interactions between Human-induced Groundwater Salt Intrusion and Salt Cedar Invasion in the Upper Arkansas River Corridor in Kansas, U.S. <i>Procedia Environmental Sciences</i> , 2012, 12, 744-750.	1.4	1
26	From precipitation to groundwater baseflow in a native prairie ecosystem: a regional study of the Konza LTER in the Flint Hills of Kansas, USA. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 3181-3194.	4.9	10
27	Accessible integration of agriculture, groundwater, and economic models using the Open Modeling Interface (OpenMI): methodology and initial results. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 521-534.	4.9	34
28	Data model for system conceptualization in groundwater studies. <i>International Journal of Geographical Information Science</i> , 2010, 24, 677-694.	4.8	16
29	Calibration of a crop model to irrigated water use using a genetic algorithm. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 1467-1483.	4.9	18
30	An analytic solution for groundwater uptake by phreatophytes spanning spatial scales from plant to field to regional. <i>Journal of Engineering Mathematics</i> , 2009, 64, 85-103.	1.2	15
31	Groundwater response to changing water-use practices in sloping aquifers using convolution of transient response functions. <i>Water Resources Research</i> , 2009, 45, .	4.2	12
32	Is transverse macrodispersivity in three-dimensional groundwater transport equal to zero? A counterexample. <i>Water Resources Research</i> , 2009, 45, .	4.2	27
33	Groundwater economics: An object-oriented foundation for integrated studies of irrigated agricultural systems. <i>Water Resources Research</i> , 2009, 45, .	4.2	24
34	Analytic formulation of Cauchy integrals for boundaries with curvilinear geometry. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008, 464, 223-248.	2.1	17
35	Groundwater response to changing water-use practices in sloping aquifers. <i>Water Resources Research</i> , 2007, 43, .	4.2	9
36	The transition of flow patterns through critical stagnation points in two-dimensional groundwater flow. <i>Advances in Water Resources</i> , 2007, 30, 16-28.	3.8	5

#	ARTICLE	IF	CITATIONS
37	The Synergistic Powers of AEM and GIS Geodatabase Models in Water Resources Studies. Ground Water, 2006, 44, 56-61.	1.3	24
38	Uniform Head in Horizontal and Vertical Wells. Ground Water, 2006, 44, 86-90.	1.3	7
39	Drawdown and capture zone topology for nonvertical wells. Water Resources Research, 2003, 39, .	4.2	9
40	Analytic techniques for three-dimensional steady flow with two-dimensional and axisymmetric components. Developments in Water Science, 2002, , 771-772.	0.1	0
41	A vector potential and exact flux through surfaces using Lagrange and Stokes stream functions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2002, 458, 489-509.	2.1	5
42	Gaining and losing sections of horizontal wells. Water Resources Research, 2001, 37, 2677-2685.	4.2	20
43	Deformation of stream surfaces in steady axisymmetric flow. Water Resources Research, 2001, 37, 307-315.	4.2	6
44	A vector potential for a partly penetrating well and flux in an approximate method of images. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2001, 457, 2093-2111.	2.1	4
45	Improved coastal boundary condition for surface water waves. Ocean Engineering, 2001, 28, 139-157.	4.3	25
46	Three-dimensional analysis of the capture of contaminated leachate by fully penetrating, partially penetrating, and horizontal wells. Water Resources Research, 1999, 35, 461-468.	4.2	28
47	Stream surfaces in two-dimensional and three-dimensional divergence-free flows. Water Resources Research, 1998, 34, 1345-1350.	4.2	19
48	Research Integrated Curriculum In Geoenvironmental Engineering. , 0, , .		0