

Vitaly A Zlotnik

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,593
citations

257101

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329751

37
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67
all docs

67
docs citations

67
times ranked

1351
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating groundwater mean transit time from SF6 in stream water: field example and planning metrics for a reach mass-balance approach. <i>Hydrogeology Journal</i> , 2022, 30, 479.	0.9	4
2	Using Automated Seepage Meters to Quantify the Spatial Variability and Net Flux of Groundwater to a Stream. <i>Water Resources Research</i> , 2022, 58, .	1.7	4
3	Enabling the Application of Large Footprint Openâ€Bottom Permeameters Through New Shape Factors. <i>Water Resources Research</i> , 2021, 57, e2020WR029315.	1.7	1
4	New insights into the drainage of inundated ice-wedge polygons using fundamental hydrologic principles. <i>Cryosphere</i> , 2021, 15, 4005-4029.	1.5	3
5	Effects of drought on groundwater-fed lake areas in the Nebraska Sand Hills. <i>Journal of Hydrology: Regional Studies</i> , 2021, 36, 100877.	1.0	7
6	Prediction of Biome-Specific Potential Evapotranspiration in Mongolia under a Scarcity of Weather Data. <i>Water (Switzerland)</i> , 2021, 13, 2470.	1.2	4
7	A Model of Ice Wedge Polygon Drainage in Changing Arctic Terrain. <i>Water (Switzerland)</i> , 2020, 12, 3376.	1.2	3
8	Diagnostic Analysis of Bank Storage Effects on Sloping Floodplains. <i>Water Resources Research</i> , 2020, 56, e2019WR026385.	1.7	6
9	An Automated Seepage Meter for Streams and Lakes. <i>Water Resources Research</i> , 2020, 56, e2019WR026983.	1.7	13
10	Streambed Flux Measurement Informed by Distributed Temperature Sensing Leads to a Significantly Different Characterization of Groundwater Discharge. <i>Water (Switzerland)</i> , 2019, 11, 2312.	1.2	7
11	Simulating lake and wetland areal coverage under future groundwater recharge projections: The Nebraska Sand Hills system. <i>Journal of Hydrology</i> , 2019, 576, 185-196.	2.3	8
12	Sensitivity of Potential Groundwater Recharge to Projected Climate Change Scenarios: A Site-Specific Study in the Nebraska Sand Hills, USA. <i>Water (Switzerland)</i> , 2019, 11, 950.	1.2	14
13	Impact of grassland conversion to forest on groundwater recharge in the Nebraska Sand Hills. <i>Journal of Hydrology: Regional Studies</i> , 2018, 15, 171-183.	1.0	33
14	Using cumulative potential recharge for selection of GCM projections to force regional groundwater models: A Nebraska Sand Hills example. <i>Journal of Hydrology</i> , 2018, 561, 1105-1114.	2.3	10
15	An approach to hydrogeological modeling of a large system of groundwater-fed lakes and wetlands in the Nebraska Sand Hills, USA. <i>Hydrogeology Journal</i> , 2018, 26, 881-897.	0.9	6
16	Interpretation of Heatâ€Pulse Tracer Tests for Characterization of Threeâ€Dimensional Velocity Fields in Hyporheic Zone. <i>Water Resources Research</i> , 2018, 54, 4028-4039.	1.7	7
17	Estimating Groundwater Mounding in Sloping Aquifers for Managed Aquifer Recharge. <i>Ground Water</i> , 2017, 55, 797-810.	0.7	15
18	Evaluation of oscillatory integrals for analytical groundwater flow and mass transport models. <i>Advances in Water Resources</i> , 2017, 104, 284-292.	1.7	4

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19	Evaporation from a shallow, saline lake in the Nebraska Sandhills: Energy balance drivers of seasonal and interannual variability. <i>Journal of Hydrology</i> , 2017, 553, 172-187.	2.3	12
20	Geomorphic and hydrologic controls of dust emissions during drought from Yellow Lake playa, West Texas, USA. <i>Journal of Arid Environments</i> , 2016, 133, 37-46.	1.2	34
21	Feasibility analysis of using inverse modeling for estimating natural groundwater recharge from a large-scale soil moisture monitoring network. <i>Journal of Hydrology</i> , 2016, 533, 250-265.	2.3	44
22	Analytical modeling of irrigation and land use effects on streamflow in semi-arid conditions. <i>Journal of Hydrology</i> , 2016, 533, 591-602.	2.3	7
23	Controls of soil hydraulic characteristics on modeling groundwater recharge under different climatic conditions. <i>Journal of Hydrology</i> , 2015, 521, 470-481.	2.3	31
24	Investigating soil controls on soil moisture spatial variability: Numerical simulations and field observations. <i>Journal of Hydrology</i> , 2015, 524, 576-586.	2.3	28
25	An Analytical Approach for Flow Analysis in Aquifers with Spatially Varying Top Boundary. <i>Ground Water</i> , 2015, 53, 335-341.	0.7	16
26	Review: Regional groundwater flow modeling in heavily irrigated basins of selected states in the western United States. <i>Hydrogeology Journal</i> , 2013, 21, 1173-1192.	0.9	30
27	Jurassic earthquake sequence recorded by multiple generations of sand blows, Zion National Park, Utah. <i>Geology</i> , 2013, 41, 1131-1134.	2.0	20
28	Classification and delineation of groundwater-lake interactions in the Nebraska Sand Hills (USA) using electrical resistivity patterns. <i>Hydrogeology Journal</i> , 2012, 20, 1483-1495.	0.9	19
29	Quantification of salt dust pathways from a groundwater-fed lake: Implications for solute budgets and dust emission rates. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	12
30	Assessing Lakebed Hydraulic Conductivity and Seepage Flux by Potentiomanometer. <i>Ground Water</i> , 2011, 49, 270-274.	0.7	11
31	Effects of Multiscale Anisotropy on Basin and Hyporheic Groundwater Flow. <i>Ground Water</i> , 2011, 49, 576-583.	0.7	58
32	Mapping mean annual groundwater recharge in the Nebraska Sand Hills, USA. <i>Hydrogeology Journal</i> , 2011, 19, 1503-1513.	0.9	63
33	Combined use of frequency-domain electromagnetic and electrical resistivity surveys to delineate near-lake groundwater flow in the semi-arid Nebraska Sand Hills, USA. <i>Hydrogeology Journal</i> , 2010, 18, 1539-1545.	0.9	29
34	On the use of analytical solutions to design pumping tests in leaky aquifers connected to a stream. <i>Journal of Hydrology</i> , 2010, 381, 341-351.	2.3	8
35	General Steady-State Shape Factor for a Partially Penetrating Well. <i>Ground Water</i> , 2010, 48, 111-116.	0.7	13
36	Salinity dynamics of discharge lakes in dune environments: Conceptual model. <i>Water Resources Research</i> , 2010, 46, .	1.7	17

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37	An approach to assessment of flow regimes of groundwater-dominated lakes in arid environments. Journal of Hydrology, 2009, 371, 22-30.	2.3	18
38	Optimal design of pumping tests in leaky aquifers for stream depletion analysis. Journal of Hydrology, 2009, 375, 554-565.	2.3	9
39	Field evidence of a negative correlation between saturated hydraulic conductivity and soil carbon in a sandy soil. Water Resources Research, 2009, 45, .	1.7	39
40	A<sc>uthorâ€™s </sc>R<sc>e</sc>ply</sc>. Ground Water, 2008, 46, 530-531.	0.7	3
41	Spatial trends in saturated hydraulic conductivity of vegetated dunes in the Nebraska Sand Hills: Effects of depth and topography. Journal of Hydrology, 2008, 349, 88-97.	2.3	45
42	Stream depletion rate and volume from groundwater pumping in wedge-shape aquifers. Journal of Hydrology, 2008, 349, 501-511.	2.3	46
43	Stream Depletion by Groundwater Pumping in Leaky Aquifers. Journal of Hydrologic Engineering - ASCE, 2008, 13, 43-50.	0.8	46
44	Entrapped air effects on dipole flow test in sand tank experiments: Hydraulic conductivity and head distribution. Journal of Hydrology, 2007, 339, 193-205.	2.3	12
45	Air permeameter investigation of surficial dune structures in the Nebraska Sand Hills. AAPG Bulletin, 2007, 91, 645-652.	0.7	5
46	Verification of numerical solutions of the Richards equation using a traveling wave solution. Advances in Water Resources, 2007, 30, 1973-1980.	1.7	54
47	Evaluation of the streambed leakage concept in analytical models using data from three pumping tests. Hydrogeology Journal, 2007, 15, 1051-1062.	0.9	9
48	Influence of aquifer heterogeneity and return flow on pumping test data interpretation. Journal of Hydrology, 2005, 300, 267-285.	2.3	23
49	A concept of maximum stream depletion rate for leaky aquifers in alluvial valleys. Water Resources Research, 2004, 40, .	1.7	41
50	A Simple Constant-Head Injection Test for Streambed Hydraulic Conductivity Estimation. Ground Water, 2003, 41, 867-871.	0.7	46
51	Stream depletion predictions using pumping test data from a heterogeneous streamâ€™aquifer system (a) Tj ETQq1,1 0.784314 rgBT	2.3	83
52	Estimation of hydraulic conductivity from borehole flowmeter tests considering head losses. Journal of Hydrology, 2003, 281, 115-128.	2.3	24
53	Drawdown and Stream Depletion Produced by Pumping in the Vicinity of a Partially Penetrating Stream. Ground Water, 2001, 39, 651-659.	0.7	124
54	Kinematic structure of minipermeameter flow. Water Resources Research, 2000, 36, 2433-2442.	1.7	40

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55	Effect of Shallow Penetration and Streambed Sediments on Aquifer Response to Stream Stage Fluctuations (Analytical Model). <i>Ground Water</i> , 1999, 37, 599-605.	0.7	86
56	The Kinematic Flow Structure for the Gvirtzman-Gorelick In Situ VOC Remediation System. <i>Transport in Porous Media</i> , 1998, 30, 363-376.	1.2	6
57	Dipole Probe: Design and Field Applications of a Single-Borehole Device for Measurements of Vertical Variations of Hydraulic Conductivity. <i>Ground Water</i> , 1998, 36, 884-893.	0.7	44
58	Multi-level slug tests in highly permeable formations: 1. Modification of the Springer-Gelhar (SG) model. <i>Journal of Hydrology</i> , 1998, 204, 271-282.	2.3	51
59	Effects of Anisotropy on the Capture Zone of a Partially Penetrating Well. <i>Ground Water</i> , 1997, 35, 842-847.	0.7	25
60	Boundary Conditions for Convergent Radial Tracer Tests and Effect of Well Bore Mixing Volume. <i>Water Resources Research</i> , 1996, 32, 2323-2328.	1.7	26
61	Theory of Dipole Flow in Uniform Anisotropic Aquifers. <i>Water Resources Research</i> , 1996, 32, 1119-1128.	1.7	59
62	Groundwater velocity in an unconfined aquifer with rectangular areal recharge. <i>Water Resources Research</i> , 1993, 29, 2827-2834.	1.7	11
63	Groundwater flow in a compressible unconfined aquifer with uniform circular recharge. <i>Water Resources Research</i> , 1992, 28, 1619-1630.	1.7	15