

# Vitaly A Zlotnik

## List of Publications by Year in descending order

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63  
papers

1,593  
citations

257101

24  
h-index

329751

37  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1351  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drawdown and Stream Depletion Produced by Pumping in the Vicinity of a Partially Penetrating Stream. <i>Ground Water</i> , 2001, 39, 651-659.	0.7	124
2	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
3	Stream depletion predictions using pumping test data from a heterogeneous stream-aquifer system (a) Tj ETQq1,1 0.784314 rgBT 10 2.3 83	1.1	83
4	Mapping mean annual groundwater recharge in the Nebraska Sand Hills, USA. <i>Hydrogeology Journal</i> , 2011, 19, 1503-1513.	0.9	63
5	Theory of Dipole Flow in Uniform Anisotropic Aquifers. <i>Water Resources Research</i> , 1996, 32, 1119-1128.	1.7	59
6	Effects of Multiscale Anisotropy on Basin and Hyporheic Groundwater Flow. <i>Ground Water</i> , 2011, 49, 576-583.	0.7	58
7	Verification of numerical solutions of the Richards equation using a traveling wave solution. <i>Advances in Water Resources</i> , 2007, 30, 1973-1980.	1.7	54
8	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
9	A Simple Constant-Head Injection Test for Streambed Hydraulic Conductivity Estimation. <i>Ground Water</i> , 2003, 41, 867-871.	0.7	46
10	Stream depletion rate and volume from groundwater pumping in wedge-shape aquifers. <i>Journal of Hydrology</i> , 2008, 349, 501-511.	2.3	46
11	Stream Depletion by Groundwater Pumping in Leaky Aquifers. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008, 13, 43-50.	0.8	46
12	Spatial trends in saturated hydraulic conductivity of vegetated dunes in the Nebraska Sand Hills: Effects of depth and topography. <i>Journal of Hydrology</i> , 2008, 349, 88-97.	2.3	45
13	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
14	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
15	A concept of maximum stream depletion rate for leaky aquifers in alluvial valleys. <i>Water Resources Research</i> , 2004, 40, .	1.7	41
16	Kinematic structure of minipermeameter flow. <i>Water Resources Research</i> , 2000, 36, 2433-2442.	1.7	40
17	Field evidence of a negative correlation between saturated hydraulic conductivity and soil carbon in a sandy soil. <i>Water Resources Research</i> , 2009, 45, .	1.7	39
18	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

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19	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
20	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
21	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
22	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
23	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
24	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
25	Effects of Anisotropy on the Capture Zone of a Partially Penetrating Well. <i>Ground Water</i> , 1997, 35, 842-847.	0.7	25
26	Estimation of hydraulic conductivity from borehole flowmeter tests considering head losses. <i>Journal of Hydrology</i> , 2003, 281, 115-128.	2.3	24
27	Influence of aquifer heterogeneity and return flow on pumping test data interpretation. <i>Journal of Hydrology</i> , 2005, 300, 267-285.	2.3	23
28	Jurassic earthquake sequence recorded by multiple generations of sand blows, Zion National Park, Utah. <i>Geology</i> , 2013, 41, 1131-1134.	2.0	20
29	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
30	An approach to assessment of flow regimes of groundwater-dominated lakes in arid environments. <i>Journal of Hydrology</i> , 2009, 371, 22-30.	2.3	18
31	Salinity dynamics of discharge lakes in dune environments: Conceptual model. <i>Water Resources Research</i> , 2010, 46, .	1.7	17
32	An Analytical Approach for Flow Analysis in Aquifers with Spatially Varying Top Boundary. <i>Ground Water</i> , 2015, 53, 335-341.	0.7	16
33	Groundwater flow in a compressible unconfined aquifer with uniform circular recharge. <i>Water Resources Research</i> , 1992, 28, 1619-1630.	1.7	15
34	Estimating Groundwater Mounding in Sloping Aquifers for Managed Aquifer Recharge. <i>Ground Water</i> , 2017, 55, 797-810.	0.7	15
35	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
36	General Steady-State Shape Factor for a Partially Penetrating Well. <i>Ground Water</i> , 2010, 48, 111-116.	0.7	13

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37	An Automated Seepage Meter for Streams and Lakes. <i>Water Resources Research</i> , 2020, 56, e2019WR026983.	1.7	13
38	Entrapped air effects on dipole flow test in sand tank experiments: Hydraulic conductivity and head distribution. <i>Journal of Hydrology</i> , 2007, 339, 193-205.	2.3	12
39	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
40	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
41	Groundwater velocity in an unconfined aquifer with rectangular areal recharge. <i>Water Resources Research</i> , 1993, 29, 2827-2834.	1.7	11
42	Assessing Lakebed Hydraulic Conductivity and Seepage Flux by Potentiomanometer. <i>Ground Water</i> , 2011, 49, 270-274.	0.7	11
43	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
44	Evaluation of the streambed leakage concept in analytical models using data from three pumping tests. <i>Hydrogeology Journal</i> , 2007, 15, 1051-1062.	0.9	9
45	Optimal design of pumping tests in leaky aquifers for stream depletion analysis. <i>Journal of Hydrology</i> , 2009, 375, 554-565.	2.3	9
46	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
47	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
48	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
49	Interpretation of Heat-Pulse Tracer Tests for Characterization of Three-Dimensional Velocity Fields in Hyporheic Zone. <i>Water Resources Research</i> , 2018, 54, 4028-4039.	1.7	7
50	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
51	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
52	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
53	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
54	Diagnostic Analysis of Bank Storage Effects on Sloping Floodplains. <i>Water Resources Research</i> , 2020, 56, e2019WR026385.	1.7	6

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55	Air permeameter investigation of surficial dune structures in the Nebraska Sand Hills. AAPG Bulletin, 2007, 91, 645-652.	0.7	5
56	Evaluation of oscillatory integrals for analytical groundwater flow and mass transport models. Advances in Water Resources, 2017, 104, 284-292.	1.7	4
57	Prediction of Biome-Specific Potential Evapotranspiration in Mongolia under a Scarcity of Weather Data. Water (Switzerland), 2021, 13, 2470.	1.2	4
58	Estimating groundwater mean transit time from SF6 in stream water: field example and planning metrics for a reach mass-balance approach. Hydrogeology Journal, 2022, 30, 479.	0.9	4
59	Using Automated Seepage Meters to Quantify the Spatial Variability and Net Flux of Groundwater to a Stream. Water Resources Research, 2022, 58, .	1.7	4
60	A<sc>uthorâ€™s </sc>R<sc>eply</sc>. Ground Water, 2008, 46, 530-531.	0.7	3
61	A Model of Ice Wedge Polygon Drainage in Changing Arctic Terrain. Water (Switzerland), 2020, 12, 3376.	1.2	3
62	New insights into the drainage of inundated ice-wedge polygons using fundamental hydrologic principles. Cryosphere, 2021, 15, 4005-4029.	1.5	3
63	Enabling the Application of Large Footprint Openâ€Bottom Permeameters Through New Shape Factors. Water Resources Research, 2021, 57, e2020WR029315.	1.7	1