

Wolfgang Kh Kinzelbach

List of Publications by Year in descending order

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191
papers

7,704
citations

34016

52
h-index

74018

75
g-index

198
all docs

198
docs citations

198
times ranked

6090
citing authors

#	ARTICLE	IF	CITATIONS
1	Lagrangian measurement of vorticity dynamics in turbulent flow. <i>Journal of Fluid Mechanics</i> , 2005, 528, 87-118.	1.4	273
2	Real-time groundwater flow modeling with the Ensemble Kalman Filter: Joint estimation of states and parameters and the filter inbreeding problem. <i>Water Resources Research</i> , 2008, 44, .	1.7	228
3	Numerical modeling of natural and enhanced denitrification processes in aquifers. <i>Water Resources Research</i> , 1991, 27, 1123-1135.	1.7	184
4	Continuous groundwater velocity fields and path lines in linear, bilinear, and trilinear finite elements. <i>Water Resources Research</i> , 1992, 28, 2903-2911.	1.7	179
5	Temporal behavior of a solute cloud in a heterogeneous porous medium: 1. Point-like injection. <i>Water Resources Research</i> , 2000, 36, 3591-3604.	1.7	155
6	Simulation of reactive processes related to biodegradation in aquifers. <i>Journal of Contaminant Hydrology</i> , 1998, 31, 167-186.	1.6	154
7	Influence of Microbial Growth on Hydraulic Properties of Pore Networks. <i>Transport in Porous Media</i> , 2002, 49, 99-122.	1.2	152
8	Kinetic Model of Gas Bubble Dissolution in Groundwater and Its Implications for the Dissolved Gas Composition. <i>Environmental Science & Technology</i> , 2003, 37, 1337-1343.	4.6	123
9	Modeling of a microbial growth experiment with bioclogging in a two-dimensional saturated porous media flow field. <i>Journal of Contaminant Hydrology</i> , 2004, 70, 37-62.	1.6	113
10	How can remote sensing contribute in groundwater modeling?. <i>Hydrogeology Journal</i> , 2007, 15, 5-18.	0.9	111
11	A Lagrangian investigation of the small-scale features of turbulent entrainment through particle tracking and direct numerical simulation. <i>Journal of Fluid Mechanics</i> , 2008, 598, 465-475.	1.4	107
12	Interaction between water flow and spatial distribution of microbial growth in a two-dimensional flow field in saturated porous media. <i>Journal of Contaminant Hydrology</i> , 2002, 58, 169-189.	1.6	105
13	Geoelectrical imaging of groundwater salinization in the Okavango Delta, Botswana. <i>Journal of Applied Geophysics</i> , 2006, 60, 126-141.	0.9	103
14	Analysis of the impact of climate change on groundwater related hydrological fluxes: a multi-model approach including different downscaling methods. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 21-38.	1.9	101
15	Food security and sustainable resource management. <i>Water Resources Research</i> , 2015, 51, 4966-4985.	1.7	97
16	3D scanning particle tracking velocimetry. <i>Experiments in Fluids</i> , 2005, 39, 923-934.	1.1	96
17	Simultaneous measurement of unfrozen water content and ice content in frozen soil using gamma ray attenuation and TDR. <i>Water Resources Research</i> , 2014, 50, 9630-9655.	1.7	91
18	Laminar separation on a forward facing step. <i>European Journal of Mechanics, B/Fluids</i> , 1999, 18, 675-692.	1.2	90

#	ARTICLE	IF	CITATIONS
19	Experimental investigations on the formation of excess air in quasi-saturated porous media. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 4103-4117.	1.6	88
20	Three-dimensional physical benchmark experiments to test variable-density flow models. <i>Journal of Hydrology</i> , 2004, 290, 22-42.	2.3	88
21	Ensemble Kalman filtering versus sequential self-calibration for inverse modelling of dynamic groundwater flow systems. <i>Journal of Hydrology</i> , 2009, 365, 261-274.	2.3	85
22	Regional review: the hydrology of the Okavango Delta, Botswana processes, data and modelling. <i>Hydrogeology Journal</i> , 2009, 17, 1297-1328.	0.9	85
23	The saltpool benchmark problem numerical simulation of saltwater upconing in a porous medium. <i>Advances in Water Resources</i> , 2002, 25, 335-348.	1.7	84
24	Using remote sensing to regionalize local precipitation recharge rates obtained from the Chloride Method. <i>Journal of Hydrology</i> , 2004, 294, 241-250.	2.3	82
25	Environmental tracer transport (3H and SF6) in the saturated and unsaturated zones and its use in nitrate pollution management. <i>Journal of Hydrology</i> , 2001, 240, 187-205.	2.3	81
26	A regional coupled surface water/groundwater model of the Okavango Delta, Botswana. <i>Water Resources Research</i> , 2006, 42, .	1.7	81
27	Coupling of transport and chemical processes in numerical transport models. <i>Geoderma</i> , 1989, 44, 115-127.	2.3	78
28	Experimental study of aortic flow in the ascending aorta via Particle Tracking Velocimetry. <i>Experiments in Fluids</i> , 2012, 53, 1469-1485.	1.1	75
29	Determination of groundwater catchment areas in two and three spatial dimensions. <i>Journal of Hydrology</i> , 1992, 134, 221-246.	2.3	74
30	Salinization of groundwater in the Nefzawa oases region, Tunisia: results of a regional-scale hydrogeologic approach. <i>Hydrogeology Journal</i> , 2007, 15, 1357-1375.	0.9	74
31	Transport of a decay chain in homogenous porous media: analytical solutions. <i>Journal of Contaminant Hydrology</i> , 2001, 49, 217-239.	1.6	72
32	Small-scale aspects of flows in proximity of the turbulent/nonturbulent interface. <i>Physics of Fluids</i> , 2007, 19, 071702.	1.6	72
33	Velocity and temperature derivatives in high-Reynolds-number turbulent flows in the atmospheric surface layer. Part 1. Facilities, methods and some general results. <i>Journal of Fluid Mechanics</i> , 2007, 589, 57-81.	1.4	72
34	Simulation of reactive processes related to biodegradation in aquifers. <i>Journal of Contaminant Hydrology</i> , 1998, 31, 187-209.	1.6	71
35	Conditional first-order second-moment method and its application to the quantification of uncertainty in groundwater modeling. <i>Water Resources Research</i> , 2002, 38, 6-1-6-14.	1.7	70
36	Operational real-time modeling with ensemble Kalman filter of variably saturated subsurface flow including stream-aquifer interaction and parameter updating. <i>Water Resources Research</i> , 2011, 47, .	1.7	70

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37	Temporal behaviour of a solute cloud in a chemically heterogeneous porous medium. <i>Journal of Fluid Mechanics</i> , 1999, 386, 77-104.	1.4	69
38	Coupled flow and salinity transport modelling in semi-arid environments: The Shashe River Valley, Botswana. <i>Journal of Hydrology</i> , 2006, 316, 163-183.	2.3	69
39	Observation of flow and transport processes in artificial porous media via magnetic resonance imaging in three dimensions. <i>Geoderma</i> , 1997, 80, 417-429.	2.3	66
40	Sustainable groundwater management " problems and scientific tools. <i>Episodes</i> , 2003, 26, 279-284.	0.8	66
41	Field experiments yield new insights into gas exchange and excess air formation in natural porous media. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1385-1397.	1.6	65
42	Investigations on the local entrainment velocity in a turbulent jet. <i>Physics of Fluids</i> , 2012, 24, .	1.6	64
43	Estimation of the evapotranspiration rate from diurnal groundwater level fluctuations in the Okavango Delta, Botswana. <i>Journal of Hydrology</i> , 2004, 288, 344-355.	2.3	63
44	Salt transport on islands in the Okavango Delta: Numerical investigations. <i>Advances in Water Resources</i> , 2006, 29, 11-29.	1.7	59
45	Generating soil electrical conductivity maps at regional level by integrating measurements on the ground and remote sensing data. <i>International Journal of Remote Sensing</i> , 2007, 28, 3341-3361.	1.3	59
46	Exact transverse macro dispersion coefficients for transport in heterogeneous porous media. <i>Stochastic Environmental Research and Risk Assessment</i> , 2004, 18, 9-15.	1.9	58
47	Calibration of a groundwater model using pattern information from remote sensing data. <i>Journal of Hydrology</i> , 2009, 377, 120-130.	2.3	57
48	Okavango Delta Islands: Interaction between density-driven flow and geochemical reactions under evapo-concentration. <i>Journal of Hydrology</i> , 2007, 335, 389-405.	2.3	55
49	Determination of a well head protection zone by stochastic inverse modelling. <i>Journal of Hydrology</i> , 1998, 206, 268-280.	2.3	54
50	Temporal behavior of a solute cloud in a heterogeneous porous medium: 2. Spatially extended injection. <i>Water Resources Research</i> , 2000, 36, 3605-3614.	1.7	53
51	Using tree ring data as a proxy for transpiration to reduce predictive uncertainty of a model simulating groundwater-surface water-vegetation interactions. <i>Journal of Hydrology</i> , 2014, 519, 2258-2271.	2.3	53
52	On the evolution of material lines and vorticity in homogeneous turbulence. <i>Journal of Fluid Mechanics</i> , 2005, 533, .	1.4	52
53	Characterization and Monitoring of the Furggwanhorn Rock Glacier, Turtmann Valley, Switzerland: Results from 2010 to 2012. <i>Vadose Zone Journal</i> , 2013, 12, 1-15.	1.3	52
54	Estimating future ecoregion distributions within the Okavango Delta Wetlands based on hydrological simulations and future climate and development scenarios. <i>Journal of Hydrology</i> , 2010, 381, 89-100.	2.3	51

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55	Temporal behavior of a solute cloud in a heterogeneous porous medium 3. Numerical simulations. <i>Water Resources Research</i> , 2002, 38, 23-1-23-13.	1.7	49
56	Monitoring and modeling the influence of snow pack and organic soil on a permafrost active layer, Qinghaiâ€”Tibetan Plateau of China. <i>Cold Regions Science and Technology</i> , 2013, 90-91, 38-52.	1.6	49
57	Magnetic resonance imaging of paramagnetic tracers in porous media: Quantification of flow and transport parameters. <i>Water Resources Research</i> , 1997, 33, 1461-1473.	1.7	48
58	Homogenization and effective parameters for the Henry problem in heterogeneous formations. <i>Water Resources Research</i> , 2005, 41, .	1.7	48
59	Extracting phreatic evaporation from remotely sensed maps of evapotranspiration. <i>Water Resources Research</i> , 2008, 44, .	1.7	48
60	Noble gas tracers for characterisation of flow dynamics and origin of groundwater: A case study in Switzerland. <i>Journal of Hydrology</i> , 2009, 370, 64-72.	2.3	45
61	Hydrological real-time modelling in the Zambezi river basin using satellite-based soil moisture and rainfall data. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 999-1008.	1.9	45
62	Multiobjective Groundwater Management Using Evolutionary Algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , 2009, 13, 229-242.	7.5	44
63	The turbulent/non-turbulent interface in an inclined dense gravity current. <i>Journal of Fluid Mechanics</i> , 2015, 765, 303-324.	1.4	44
64	Turbulence in dilute polymer solutions. <i>Physics of Fluids</i> , 2005, 17, 031707.	1.6	42
65	Generalized detection of a turbulent front generated by an oscillating grid. <i>Experiments in Fluids</i> , 2006, 41, 711-719.	1.1	41
66	Modelling irrigated maize with a combination of coupled-model simulation and uncertainty analysis, in the northwest of China. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 1465-1480.	1.9	41
67	Effects of mean shear on the local turbulent entrainment process. <i>Journal of Fluid Mechanics</i> , 2013, 731, 95-116.	1.4	41
68	Numerical simulation of three-dimensional saltwaterâ€”freshwater fingering instabilities observed in a porous medium. <i>Advances in Water Resources</i> , 2006, 29, 1690-1704.	1.7	39
69	Equally likely inverse solutions to a groundwater flow problem including pattern information from remote sensing images. <i>Water Resources Research</i> , 2008, 44, .	1.7	39
70	The role of remote sensing in hydrological modelling of the Okavango Delta, Botswana. <i>Journal of Environmental Management</i> , 2009, 90, 2252-2260.	3.8	39
71	Cyclic hysteretic flow in porous medium column: model, experiment, and simulations. <i>Journal of Hydrology</i> , 2001, 240, 264-275.	2.3	38
72	Velocity and temperature derivatives in high-Reynolds-number turbulent flows in the atmospheric surface layer. Part 2. Accelerations and related matters. <i>Journal of Fluid Mechanics</i> , 2007, 589, 83-102.	1.4	38

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73	Macrodispersivity for transport in arbitrary nonuniform flow fields: Asymptotic and preasymptotic results. <i>Water Resources Research</i> , 2002, 38, 5-1-5-11.	1.7	37
74	On turbulent kinetic energy production and dissipation in dilute polymer solutions. <i>Physics of Fluids</i> , 2006, 18, 125101.	1.6	37
75	Stochastic modeling of in situ bioremediation in heterogeneous aquifers. <i>Journal of Contaminant Hydrology</i> , 1992, 10, 47-73.	1.6	36
76	The Random Walk Method and Extensions in Groundwater Modelling. , 1991, , 761-787.		36
77	Comment on "Application of the mixed hybrid finite element approximation in a groundwater flow model: Luxury or necessity?" by R. Moser, P. Siegel, P. Ackerer, and G. Chavent. <i>Water Resources Research</i> , 1996, 32, 1905-1909.	1.7	35
78	Simulation of Pollutant Transport Using a Particle Method. <i>Journal of Computational Physics</i> , 2001, 173, 322-347.	1.9	35
79	Experimental Characterization of Breakage Rate of Colloidal Aggregates in Axisymmetric Extensional Flow. <i>Langmuir</i> , 2014, 30, 14385-14395.	1.6	35
80	Computation of stochastic wellhead protection zones by combining the first-order second-moment method and Kolmogorov backward equation analysis. <i>Journal of Hydrology</i> , 2000, 237, 127-146.	2.3	34
81	Velocity and temperature derivatives in high- Reynolds-number turbulent flows in the atmospheric surface layer. Part 3. Temperature and joint statistics of temperature and velocity derivatives. <i>Journal of Fluid Mechanics</i> , 2007, 589, 103-123.	1.4	34
82	Experimental study of the structure of flow regions with negative turbulent kinetic energy production in confined three-dimensional shear flows with and without buoyancy. <i>Physics of Fluids</i> , 2005, 17, 095110.	1.6	33
83	The cost of noncooperation in international river basins. <i>Water Resources Research</i> , 2012, 48, .	1.7	33
84	Paleo-megalake and paleo-megafan in southern Africa. <i>Geology</i> , 2013, 41, 1155-1158.	2.0	33
85	An All-Solid-State Flow Cytometer for Counting Fluorescent Microspheres. <i>Analytical Chemistry</i> , 1995, 67, 2666-2671.	3.2	32
86	What can we learn from long-term groundwater data to improve climate change impact studies?. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 3861-3875.	1.9	32
87	Economic valuation of benefits and costs associated with the coordinated development and management of the Zambezi river basin. <i>Water Policy</i> , 2012, 14, 490-508.	0.7	32
88	Breakup of Finite-Size Colloidal Aggregates in Turbulent Flow Investigated by Three-Dimensional (3D) Particle Tracking Velocimetry. <i>Langmuir</i> , 2016, 32, 55-65.	1.6	32
89	Schur-complement multigrid. <i>Numerische Mathematik</i> , 1997, 75, 523-545.	0.9	31
90	Exploring an aquifer system by integrating hydraulic, hydrogeologic and environmental tracer data in a three-dimensional hydrodynamic transport model. <i>Journal of Hydrology</i> , 2001, 242, 183-196.	2.3	31

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91	Investigation of hydrogeologic processes in a dipping layer structure: 1. The flow barrier effect. Journal of Contaminant Hydrology, 2004, 69, 157-172.	1.6	31
92	Mechanisms of anomalous dispersion in flow through heterogeneous porous media. Physical Review Fluids, 2016, 1, .	1.0	31
93	Is the turbulent wind in convective flows driven by fluctuations?. Physics of Fluids, 2003, 15, 2313-2320.	1.6	29
94	Experimental and theoretical investigations of drainage in horizontal rough-walled fractures with different correlation structures. Advances in Water Resources, 2004, 27, 1217-1231.	1.7	29
95	Simulation of birdfoot delta formation with application to the Mississippi Delta. Journal of Geophysical Research, 2009, 114, .	3.3	29
96	Uncertainty estimation of well catchments in heterogeneous aquifers. Water Resources Research, 2002, 38, 20-1-20-8.	1.7	28
97	Large Scale Mixing for Immiscible Displacement in Heterogeneous Porous Media. Transport in Porous Media, 2003, 51, 287-314.	1.2	28
98	Topography representation methods for improving evaporation simulation in groundwater modeling. Journal of Hydrology, 2008, 356, 199-208.	2.3	28
99	An experimental investigation on Lagrangian correlations of small-scale turbulence at low Reynolds number. Journal of Fluid Mechanics, 2007, 574, 405-427.	1.4	27
100	Migration of air channels: An instability of air flow in mobile saturated porous media. Chemical Engineering Science, 2009, 64, 1528-1535.	1.9	27
101	Effects of pore volumeâ€“transmissivity correlation on transport phenomena. Journal of Contaminant Hydrology, 2003, 67, 195-217.	1.6	26
102	Joint estimation of transmissivities and rechargesâ€”application: stochastic characterization of well capture zones. Journal of Hydrology, 2004, 294, 87-102.	2.3	26
103	Acceleration, pressure and related quantities in the proximity of the turbulent/non-turbulent interface. Journal of Fluid Mechanics, 2009, 639, 153-165.	1.4	26
104	Morphodynamics during air injection into water-saturated movable spherical granulates. Chemical Engineering Science, 2010, 65, 4652-4660.	1.9	26
105	Experimental Investigation of the Influence of the Aortic Stiffness on Hemodynamics in the Ascending Aorta. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1775-1780.	3.9	25
106	Artificial colloid tracer tests: development of a compact on-line microsphere counter and application to soil column experiments. Journal of Contaminant Hydrology, 1998, 35, 249-259.	1.6	24
107	Nuclear Magnetic Resonance Imaging for Studies of Flow and Transport in Porous Media. Journal of Environmental Quality, 2002, 31, 477.	1.0	24
108	Bed forms in turbulent channel flow. Applied Mechanics Reviews, 2004, 57, 77-93.	4.5	24

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109	Coupling a SVAT heat and water flow model, a stomatal-photosynthesis model and a crop growth model to simulate energy, water and carbon fluxes in an irrigated maize ecosystem. <i>Agricultural and Forest Meteorology</i> , 2013, 176, 10-24.	1.9	24
110	Experimental study of entrainment and interface dynamics in a gravity current. <i>Experiments in Fluids</i> , 2013, 54, 1.	1.1	23
111	Hydrogeophysical investigations in the western and north-central Okavango Delta (Botswana) based on helicopter and ground-based transient electromagnetic data and electrical resistance tomography. <i>Geophysics</i> , 2014, 79, B201-B211.	1.4	23
112	Investigation of hydrogeologic processes in a dipping layer structure. <i>Journal of Contaminant Hydrology</i> , 2004, 69, 173-194.	1.6	22
113	A multiobjective discrete stochastic optimization approach to shared aquifer management: Methodology and application. <i>Water Resources Research</i> , 2006, 42, .	1.7	22
114	A combined scanning PTV/LIF technique to simultaneously measure the full velocity gradient tensor and the 3D density field. <i>Measurement Science and Technology</i> , 2014, 25, 065301.	1.4	22
115	Title is missing!. <i>Transport in Porous Media</i> , 2002, 47, 169-193.	1.2	21
116	Spatial mapping of submerged cave systems by means of airborne electromagnetics: an emerging technology to support protection of endangered karst aquifers. <i>Near Surface Geophysics</i> , 2009, 7, 613-627.	0.6	21
117	Delineation of connectivity structures in heterogeneous hydraulic conductivity fields. <i>Water Resources Research</i> , 2015, 51, 5846-5854.	1.7	21
118	Numerical studies of the transport behavior of a passive solute in a two-dimensional incompressible random flow field. <i>Physical Review E</i> , 2003, 67, 046306.	0.8	20
119	Real-Time Management of an Urban Groundwater Well Field Threatened by Pollution. <i>Environmental Science & Technology</i> , 2010, 44, 6802-6807.	4.6	20
120	Flood Discharge Prediction using Two-Dimensional Inverse Modeling. <i>Journal of Hydraulic Engineering</i> , 2002, 128, 46-54.	0.7	19
121	Macrodispersion in a radially diverging flow field with finite Peclet Numbers: 1. Perturbation theory approach. <i>Water Resources Research</i> , 2001, 37, 481-493.	1.7	18
122	An NMR study of single- and two-phase flow in fault gouge filled fractures. <i>Journal of Hydrology</i> , 2002, 259, 236-245.	2.3	18
123	Nuclear Magnetic Resonance Imaging for Studies of Flow and Transport in Porous Media. <i>Journal of Environmental Quality</i> , 2002, 31, 477-486.	1.0	18
124	On turbulent entrainment and dissipation in dilute polymer solutions. <i>Physics of Fluids</i> , 2009, 21, 035107.	1.6	18
125	Simultaneous two-scale 3D-PTV measurements in turbulence under the influence of system rotation. <i>Experiments in Fluids</i> , 2011, 51, 75-82.	1.1	18
126	Integrated interpretation of helicopter and ground-based geophysical data recorded within the Okavango Delta, Botswana. <i>Journal of Applied Geophysics</i> , 2015, 114, 52-67.	0.9	18

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127	Dynamics and driving mechanisms of asymmetric human water consumption during alternating wet and dry periods. <i>Hydrological Sciences Journal</i> , 2019, 64, 507-524.	1.2	18
128	Joint inversion of tracer tests using reversed flow fields. <i>Journal of Contaminant Hydrology</i> , 1997, 26, 215-226.	1.6	17
129	Effective parameters in heterogeneous and homogeneous transport models with kinetic sorption. <i>Water Resources Research</i> , 1998, 34, 583-594.	1.7	16
130	Experimental study on clustering of large particles in homogeneous turbulent flow. <i>Journal of Turbulence</i> , 2008, 9, N34.	0.5	16
131	A new stochastic particle-tracking approach for fractured sedimentary formations. <i>Water Resources Research</i> , 2013, 49, 352-359.	1.7	16
132	Time-resolved 3D visualization of air injection in a liquid-saturated refractive-index-matched porous medium. <i>Experiments in Fluids</i> , 2011, 50, 1659-1670.	1.1	15
133	Semianalytical uncertainty estimation of well catchments: Conditioning by head and transmissivity data. <i>Water Resources Research</i> , 2004, 40, .	1.7	14
134	Viscous tilting and production of vorticity in homogeneous turbulence. <i>Physics of Fluids</i> , 2010, 22, .	1.6	14
135	Effective Dispersion of a Solute Cloud in a Chemically Heterogeneous Porous Medium: Comparison of Two Ensemble-Averaging Procedures. <i>Water Resources Research</i> , 1996, 32, 3311-3319.	1.7	13
136	Transport of reactive species in heterogeneous porous media. <i>Journal of Hydrology</i> , 1996, 183, 151-168.	2.3	13
137	Variations of Permeability and Pore Size Distribution of Porous Media with Pressure. <i>Journal of Environmental Quality</i> , 2002, 31, 500.	1.0	13
138	A stochastic model for air injection into saturated porous media. <i>Advances in Water Resources</i> , 2009, 32, 1180-1186.	1.7	13
139	An in vitro investigation of the influence of stenosis severity on the flow in the ascending aorta. <i>Medical Engineering and Physics</i> , 2014, 36, 1147-1155.	0.8	13
140	Analysis of Thermal Behaviour in the Active Layer of Degrading Mountain Permafrost. <i>Permafrost and Periglacial Processes</i> , 2015, 26, 39-56.	1.5	12
141	Using an ensemble smoother to evaluate parameter uncertainty of an integrated hydrological model of Yanqi basin. <i>Journal of Hydrology</i> , 2015, 529, 146-158.	2.3	12
142	Three-dimensional saltwater-freshwater fingering in porous media: contrast agent MRI as basis for numerical simulations. <i>Magnetic Resonance Imaging</i> , 2007, 25, 537-540.	1.0	11
143	Homogenization of the transport behavior of nonlinearly adsorbing pollutants in physically and chemically heterogeneous aquifers. <i>Advances in Water Resources</i> , 2009, 32, 767-777.	1.7	11
144	Resolving Conflicts between Irrigation Agriculture and Ecohydrology Using Many-Objective Robust Decision Making. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	1.3	11

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145	Macrodispersion in a radially diverging flow field with finite Peclet Numbers: 2. Homogenization theory approach. <i>Water Resources Research</i> , 2001, 37, 495-505.	1.7	10
146	Variations of Permeability and Pore Size Distribution of Porous Media with Pressure. <i>Journal of Environmental Quality</i> , 2002, 31, 500-505.	1.0	10
147	Topography of inland deltas: Observations, modeling, and experiments. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	9
148	Accounting for subgrid scale topographic variations in flood propagation modeling using MODFLOW. <i>Water Resources Research</i> , 2010, 46, .	1.7	9
149	A comparison study of two different control criteria for the real-time management of urban groundwater works. <i>Journal of Environmental Management</i> , 2012, 105, 21-29.	3.8	9
150	Constraining helicopter electromagnetic models of the Okavango Delta with seismic-refraction and seismic-reflection data. <i>Geophysics</i> , 2014, 79, B123-B134.	1.4	9
151	How to Meter Agricultural Pumping at Numerous Small-Scale Wells?â€”An Indirect Monitoring Method Using Electric Energy as Proxy. <i>Water (Switzerland)</i> , 2020, 12, 2477.	1.2	9
152	Improving parameter and state estimation of a hydrological model with the ensemble square root filter. <i>Advances in Water Resources</i> , 2021, 147, 103813.	1.7	8
153	Applied groundwater modeling â€” Simulation of flow and advective transport. <i>Journal of Hydrology</i> , 1992, 140, 393-394.	2.3	7
154	The Dual Pumping Technique (DPT) for level-determined sampling in fully screened groundwater wells. <i>Journal of Hydrology</i> , 1998, 207, 220-235.	2.3	7
155	Asymptotic transport parameters in a heterogeneous porous medium: Comparison of two ensemble-averaging procedures. <i>Stochastic Environmental Research and Risk Assessment</i> , 1999, 13, 396-415.	1.9	7
156	Simultaneous measurement of particle and fluid velocities in a plane mixing layer with dispersion. <i>Experiments in Fluids</i> , 2000, 29, 486-493.	1.1	7
157	Compaction and size segregation in a liquid-saturated grain packing due to pulsation effect during air injection. <i>Chemical Engineering Science</i> , 2010, 65, 2680-2688.	1.9	7
158	Box model and 1D longitudinal model of flow and transport in Bosten Lake, China. <i>Journal of Hydrology</i> , 2015, 524, 62-71.	2.3	7
159	Groundwater overexploitation in the North China Plain: A path to sustainability. <i>Springer Water</i> , 2022, , .	0.2	7
160	China: Energy and environment. <i>Environmental Management</i> , 1983, 7, 303-310.	1.2	6
161	Multiscale Modeling of Nonlinearly Adsorbing Solute Transport. <i>Multiscale Modeling and Simulation</i> , 2003, 1, 408-431.	0.6	5
162	On the relationship between atmospheric circulation patterns, recharge and soil moisture dynamics in Switzerland. <i>Journal of Hydrology</i> , 2013, 502, 1-9.	2.3	5

#	ARTICLE	IF	CITATIONS
163	Decomposition technique for contributions to groundwater heads from inside and outside of an arbitrary boundary: application to Guantao County, North China Plain. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2823-2840.	1.9	5
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