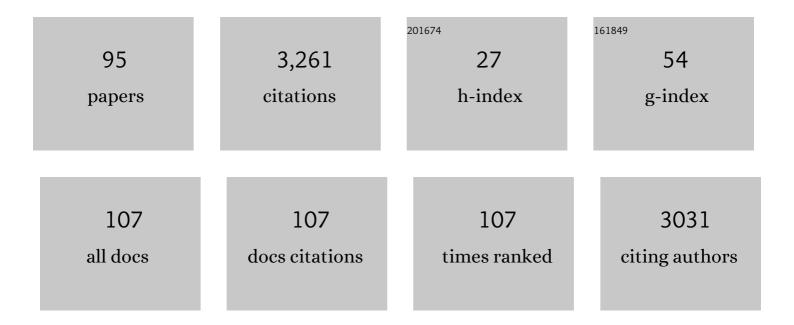
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8486582/publications.pdf

Version: 2024-02-01



#	Article	IF	CITATIONS
1	Hyporheic flow and transport processes: Mechanisms, models, and biogeochemical implications. Reviews of Geophysics, 2014, 52, 603-679.	23.0	642
2	How old is streamwater? Open questions in catchment transit time conceptualization, modelling and analysis. Hydrological Processes, 2010, 24, 1745-1754.	2.6	276
3	Effect of flow-induced exchange in hyporheic zones on longitudinal transport of solutes in streams and rivers. Water Resources Research, 2002, 38, 2-1-2-15.	4.2	197
4	A multiscale model for integrating hyporheic exchange from ripples to meanders. Water Resources Research, 2010, 46, .	4.2	168
5	Fractal topography and subsurface water flows from fluvial bedforms to the continental shield. Geophysical Research Letters, 2007, 34, .	4.0	140
6	Is the Hyporheic Zone Relevant beyond the Scientific Community?. Water (Switzerland), 2019, 11, 2230.	2.7	113
7	Exact three-dimensional spectral solution to surface-groundwater interactions with arbitrary surface topography. Geophysical Research Letters, 2006, 33, .	4.0	98
8	Spatial variations in denitrification activity in wetland sediments explained by hydrology and denitrifying community structure. Water Research, 2007, 41, 4710-4720.	11.3	92
9	Comparison of models for transient storage of solutes in small streams. Water Resources Research, 2000, 36, 455-468.	4.2	75
10	Comparison of transient storage in vegetated and unvegetated reaches of a small agricultural stream in Sweden: seasonal variation and anthropogenic manipulation. Advances in Water Resources, 2003, 26, 951-964.	3.8	69
11	Analytical solution and timescale for transport of reacting solutes in rivers and streams. Water Resources Research, 1998, 34, 2703-2716.	4.2	65
12	Effect of pond shape and vegetation heterogeneity on flow and treatment performance of constructed wetlands. Journal of Hydrology, 2005, 301, 123-138.	5.4	64
13	Controlling factors for water residence time and flow patterns in Ekeby treatment wetland, Sweden. Advances in Water Resources, 2007, 30, 838-850.	3.8	54
14	Reach scale and evaluation methods as limitations for transient storage properties in streams and rivers. Water Resources Research, 2007, 43, .	4.2	45
15	Radar techniques for indicating internal erosion in embankment dams. Journal of Applied Geophysics, 1995, 33, 143-156.	2.1	43
16	Erosion in a granular medium interface. Journal of Hydraulic Research/De Recherches Hydrauliques, 1992, 30, 639-655.	1.7	42
17	Evaluating the fate of six common pharmaceuticals using a reactive transport model: Insights from a stream tracer test. Science of the Total Environment, 2013, 458-460, 344-354.	8.0	37
18	Hyporheic exchange of reactive and conservative solutes in streams—tracer methodology and model interpretation. Journal of Hydrology, 2003, 278, 153-171.	5.4	36

#	Article	IF	CITATIONS
19	Riprap Protection without Filter Layers. Journal of Hydraulic Engineering, 1989, 115, 1615-1630.	1.5	35
20	Implications of sorption kinetics to radionuclide migration in fractured rock. Water Resources Research, 1999, 35, 3429-3440.	4.2	35
21	Impact of Dynamically Changing Discharge on Hyporheic Exchange Processes Under Gaining and Losing Groundwater Conditions. Water Resources Research, 2018, 54, 10,076.	4.2	32
22	Seepageâ€Induced Mass Wasting in Coarse Soil Slopes. Journal of Hydraulic Engineering, 1993, 119, 1155-1168.	1.5	31
23	Modeling Retention of Sorbing Solutes in Streams Based on Tracer Experiment Using51Cr. Journal of Environmental Engineering, ASCE, 1998, 124, 122-130.	1.4	31
24	Spectral scaling of heat fluxes in streambed sediments. Geophysical Research Letters, 2012, 39, .	4.0	31
25	A utilização de soluções exactas baseadas em análise espectral na caracterização do escoamento subterrâneo controlado pela topografia. Hydrogeology Journal, 2011, 19, 1531-1543.	2.1	30
26	Groundwater flow systems theory: research challenges beyond the specified-head top boundary condition. Hydrogeology Journal, 2016, 24, 1087-1090.	2.1	30
27	Sorption Behavior and Long-Term Retention of Reactive Solutes in the Hyporheic Zone of Streams. Journal of Environmental Engineering, ASCE, 2004, 130, 573-584.	1.4	28
28	Spatially differentiated regulation: Can it save the Baltic Sea from excessive N-loads?. Ambio, 2019, 48, 1278-1289.	5.5	27
29	Hydrological modelling of Ethiopian catchments using limited data. Hydrological Processes, 2009, 23, 3401-3408.	2.6	26
30	An analytical study on artesian flow conditions in unconfinedâ€aquifer drainage basins. Water Resources Research, 2015, 51, 8658-8667.	4.2	25
31	Impact of Flow Alteration and Temperature Variability on Hyporheic Exchange. Water Resources Research, 2020, 56, e2019WR026225.	4.2	25
32	Human impacts and their interactions in the Baltic Sea region. Earth System Dynamics, 2022, 13, 1-80.	7.1	25
33	Heterogeneous matrix diffusion in crystalline rock — implications for geosphere retardation of migrating radionuclides. Journal of Contaminant Hydrology, 2001, 47, 365-378.	3.3	24
34	On the use of late-time peaks of residence time distributions for the characterization of hierarchically nested groundwater flow systems. Journal of Hydrology, 2016, 543, 47-58.	5.4	24
35	Retention of conservative and sorptive solutes in streams — simultaneous tracer experiments. Science of the Total Environment, 2001, 266, 229-238.	8.0	22
36	Hydraulic Conductivity of Coarse Rockfill used in Hydraulic Structures. Transport in Porous Media, 2015, 108, 367-391.	2.6	22

#	Article	IF	CITATIONS
37	Response functions for inâ€stream solute transport in river networks. Water Resources Research, 2011, 47, .	4.2	21
38	Climate Change Impact on Agricultural Water Resources Variability in the Northern Highlands of Ethiopia. , 2011, , 241-265.		21
39	Drifting runoff periodicity during the 20th century due to changing surface water volume. Hydrological Processes, 2010, 24, 3772-3784.	2.6	20
40	Fragmentation of the Hyporheic Zone Due to Regional Groundwater Circulation. Water Resources Research, 2019, 55, 1242-1262.	4.2	20
41	Mechanism of the progressive failure of non-cohesive natural dam slopes. Geomorphology, 2020, 363, 107198.	2.6	20
42	Biological Wastewater Treatment Systems. , 2011, , 275-290.		19
43	Design of Remediation Actions for Nutrient Mitigation in the Hyporheic Zone. Water Resources Research, 2017, 53, 8872-8899.	4.2	19
44	Desorption and diffusion of episodic pollutants in sediments: a 3-phase model applied to Chernobyl 137Cs. Applied Geochemistry, 1996, 11, 311-316.	3.0	18
45	Voronoi Tessellation Captures Very Early Clustering of Single Primary Cells as Induced by Interactions in Nascent Biofilms. PLoS ONE, 2011, 6, e26368.	2.5	17
46	Effects of Successive Peak Flow Events on Hyporheic Exchange and Residence Times. Water Resources Research, 2020, 56, e2020WR027113.	4.2	17
47	Criteria for resolution-scales and parameterisation of compartmental models of hydrological and ecological mass flows. Journal of Hydrology, 2007, 335, 364-373.	5.4	16
48	The Effect of Stream Discharge on Hyporheic Exchange. Water (Switzerland), 2019, 11, 1436.	2.7	16
49	Effect of sorption kinetics on the transport of solutes in streams. Science of the Total Environment, 2001, 266, 239-247.	8.0	14
50	Spatiotemporal decomposition of solute dispersion in watersheds. Water Resources Research, 2015, 51, 2377-2392.	4.2	13
51	The power of runoff. Journal of Hydrology, 2017, 548, 784-793.	5.4	13
52	Virtual energy storage gain resulting from the spatio-temporal coordination of hydropower over Europe. Applied Energy, 2020, 272, 115249.	10.1	13
53	Kinematic analysis of solute mass flows in rock fractures with spatially random parameters. Journal of Contaminant Hydrology, 2003, 60, 163-191.	3.3	12
54	Trade-Offs between Phosphorous Discharge and Hydropower Production Using Reservoir Regulation. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	2.6	12

#	Article	IF	CITATIONS
55	Long-term phosphorus sorption and leaching in sand filters for onsite treatment systems. Science of the Total Environment, 2022, 833, 155254.	8.0	12
56	Injection of CO2-saturated brine in geological reservoir: A way to enhanced storage safety. International Journal of Greenhouse Gas Control, 2016, 54, 129-144.	4.6	11
57	Impact of Landscape Topography and Quaternary Overburden on the Performance of a Geological Repository of Nuclear Waste. Nuclear Technology, 2008, 163, 165-179.	1.2	10
58	Reactive transport modeling of leaking CO 2 -saturated brine along a fractured pathway. International Journal of Greenhouse Gas Control, 2015, 42, 672-689.	4.6	10
59	Incipient Motion during Static Armoring. Journal of Hydraulic Engineering, 1992, 118, 496-501.	1.5	9
60	The influence of spatially variable stream hydraulics on reach scale transient storage modeling. Water Resources Research, 2014, 50, 9287-9299.	4.2	9
61	Hydraulic response in flooded stream networks. Water Resources Research, 2015, 51, 213-240.	4.2	8
62	Hydrograph variances over different timescales in hydropower production networks. Water Resources Research, 2016, 52, 5829-5846.	4.2	8
63	The role of advection and dispersion in the rock matrix on the transport of leaking CO2-saturated brine along a fractured zone. Advances in Water Resources, 2016, 98, 132-146.	3.8	8
64	Modelling Phosphorus Sorption Kinetics and the Longevity of Reactive Filter Materials Used for On-Site Wastewater Treatment. Water (Switzerland), 2019, 11, 811.	2.7	8
65	Radar techniques for indicating internal erosion in embankment dams. Journal of Applied Geophysics, 1995, 33, 143-156.	2.1	8
66	Stage-dependent hydraulic and hydromorphologic properties in stream networks translated into response functions of compartmental models. Journal of Hydrology, 2012, 420-421, 25-36.	5.4	7
67	Role of the Bio- and Geosphere Interface on Migration Pathways for ¹³⁵ Cs and Ecological Effects. Nuclear Technology, 2004, 148, 194-204.	1.2	6
68	Biological Wastewater Treatment Systems. , 2008, , 426-441.		6
69	Spectral decomposition of regulatory thresholds for climateâ€driven fluctuations in hydro―and wind power availability. Water Resources Research, 2017, 53, 7296-7315.	4.2	6
70	System Heterogeneity as Variable for Solute Transport in Streams. Journal of Hydraulic Engineering, 1995, 121, 782-791.	1.5	5
71	Correction to "Effect of flow-induced exchange in hyporheic zones on longitudinal transport of solutes in streams and rivers―by Anders Wörman et al Water Resources Research, 2002, 38, 6-1-6-1.	4.2	5
72	Impact of repository depth on residence times for leaking radionuclides in land-based surface water. Acta Geophysica, 2007, 55, 73-84.	2.0	5

#	Article	IF	CITATIONS
73	Incorporating Hydrologic Routing into Reservoir Operation Models: Implications for Hydropower Production Planning. Water Resources Management, 2016, 30, 623-640.	3.9	5
74	Spectral Analysis of River Resistance and Aquifer Diffusivity in a Riverâ€Confined Aquifer System. Water Resources Research, 2019, 55, 8046-8060.	4.2	5
75	How daily groundwater table drawdown affects the diel rhythm of hyporheic exchange. Hydrology and Earth System Sciences, 2021, 25, 1905-1921.	4.9	5
76	Performance of a tidal flow constructed wetland used for post-treatment of on-site wastewater in cold climate. Journal of Water Process Engineering, 2022, 47, 102679.	5.6	5
77	Change in streamflow response in unregulated catchments in Sweden over the last century. Water Resources Research, 2016, 52, 5847-5867.	4.2	4
78	Coupled hydrological and biogeochemical model for aqueous contaminant transport. Marine and Freshwater Research, 1995, 46, 197.	1.3	4
79	Crossâ€Validating Hydromechanical Models and Tracer Test Assessments of Hyporheic Exchange Flow in Streams With Different Hydromorphological Characteristics. Water Resources Research, 2021, 57, .	4.2	4
80	Influence of Hyporheic Exchange on Solute Transport in a Highly Hydropower Regulated River. , 2005, , 185-213.		3
81	A deep rock laboratory in the Dellen impact crater. Gff, 2010, 132, 45-54.	1.2	3
82	Potential for high transient doses due to accumulation and chemical zonation of long-lived radionuclides across the geosphere-biosphere interface. Radioprotection, 2011, 46, S453-S459.	1.0	3
83	Discussion and Closure: Design Relationship for Filters in Bed Protection. Journal of Hydraulic Engineering, 1996, 122, 177-178.	1.5	2
84	Modeling the Effect of Sorption Kinetics on Radionuclide Migration in Crystalline Rock. Materials Research Society Symposia Proceedings, 1997, 506, 1089.	0.1	2
85	Stochastic Analysis of Internal Erosion in Soil Structures—Implications for Risk Assessments. Journal of Hydraulic Engineering, 2001, 127, 419-428.	1.5	2
86	Effects of compartmental model structure and long-term inflow pollutograph on model predictions. Radioprotection, 2005, 40, S477-S483.	1.0	2
87	Isolating parameter sensitivity in reach scale transient storage modeling. Advances in Water Resources, 2016, 89, 24-31.	3.8	2
88	Deformation of Dupuit's parabola in a dam with sheet piling. Flow, Turbulence and Combustion, 1994, 52, 173-185.	0.2	1
89	Parameterizing vertical mixing depth in bed sediments in analyses of horizontal transport in aquatic systems. Physics and Chemistry of the Earth, 1995, 20, 155-162.	0.3	1
90	Modelling the desorption and diffusion of Chernobyl137Cs in sediments—a reply to the comment by J. T. Smith. Applied Geochemistry, 1997, 12, 861-866.	3.0	1

#	Article	IF	CITATIONS
91	A Study of K Variability and Its Effect on Solute Transport in Subsurface-Flow Sand Filters by Measurement and Modelling. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2005, 40, 1123-1132.	1.7	1
92	Evidence of Heterogeneous Matrix Diffusion in Fractured Crystalline Rock in Laboratory Migration Experiments. Materials Research Society Symposia Proceedings, 2000, 663, 1.	0.1	0
93	Analysis of Radionuclide Migration in Rock Fractures with Heterogeneous Matrix Diffusion. Quantitative Geology and Geostatistics, 2001, , 263-274.	0.1	0
94	Prediction of concentration and model validation. Radioprotection, 2009, 44, 701-706.	1.0	0
95	Nuclear Techniques for Monitoring Sediment Dynamics in the Coastal Zone. , 2014, , 151-155.		0