

# Antonis D Koussis

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6522167/publications.pdf>

Version: 2024-02-01

63  
papers

1,347  
citations

304743

22  
h-index

361022

35  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1482  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wetlands as large-scale nature-based solutions: Status and challenges for research, engineering and management. <i>Ecological Engineering</i> , 2017, 108, 489-497.	3.6	217
2	Groundwater and climate in Africa—a review. <i>Hydrological Sciences Journal</i> , 2009, 54, 655-664.	2.6	94
3	Hydraulic Estimation of Dispersion Coefficient for Streams. <i>Journal of Hydraulic Engineering</i> , 1998, 124, 317-320.	1.5	74
4	Flood Forecasts for Urban Basin with Integrated Hydro-Meteorological Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2003, 8, 1-11.	1.9	69
5	Flood design recipes vs. reality: can predictions for ungauged basins be trusted?. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 1417-1428.	3.6	52
6	Analytical single-potential, sharp-interface solutions for regional seawater intrusion in sloping unconfined coastal aquifers, with pumping and recharge. <i>Journal of Hydrology</i> , 2012, 416-417, 1-11.	5.4	47
7	Stream-Aquifer Interaction Model with Diffusive Wave Routing. <i>Journal of Hydraulic Engineering</i> , 1996, 122, 210-218.	1.5	40
8	Intensively exploited Mediterranean aquifers: resilience to seawater intrusion and proximity to critical thresholds. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1663-1677.	4.9	40
9	Tipping points for seawater intrusion in coastal aquifers under rising sea level. <i>Environmental Research Letters</i> , 2013, 8, 014001.	5.2	39
10	Theoretical Estimation of Flood Routing Parameters. <i>Journal of Hydraulic Engineering</i> , 1978, 104, 109-115.	0.2	36
11	A correction for Dupuit-Forchheimer interface flow models of seawater intrusion in unconfined coastal aquifers. <i>Journal of Hydrology</i> , 2015, 525, 277-285.	5.4	35
12	Unified Theory for Flood and Pollution Routing. <i>Journal of Hydraulic Engineering</i> , 1983, 109, 1652-1664.	1.5	32
13	Assessment and review of the hydraulics of storage flood routing 70 years after the presentation of the Muskingum method. <i>Hydrological Sciences Journal</i> , 2009, 54, 43-61.	2.6	32
14	A groundwater-based, objective-heuristic parameter optimisation method for a precipitation-runoff model and its application to a semi-arid basin. <i>Journal of Hydrology</i> , 2004, 290, 243-258.	5.4	29
15	Analytical solutions to non-Fickian subsurface dispersion in uniform groundwater flow. <i>Journal of Hydrology</i> , 1996, 179, 237-258.	5.4	28
16	Comparison of Muskingum Method Difference Schemes. <i>Journal of Hydraulic Engineering</i> , 1980, 106, 925-929.	0.2	28
17	Response of sloping unconfined aquifer to stage changes in adjacent stream. I. Theoretical analysis and derivation of system response functions. <i>Journal of Hydrology</i> , 2007, 338, 85-95.	5.4	27
18	A methodology to investigate brackish groundwater desalination coupled with aquifer recharge by treated wastewater as an alternative strategy for water supply in Mediterranean areas. <i>Desalination</i> , 2001, 136, 307-315.	8.2	25

#	ARTICLE	IF	CITATIONS
19	Groundwater drainage flow in a soil layer resting on an inclined leaky bed. <i>Water Resources Research</i> , 1998, 34, 2879-2887.	4.2	24
20	Pollution Routing in Streams. <i>Journal of Hydraulic Engineering</i> , 1983, 109, 1636-1651.	1.5	23
21	On the mathematics of storage routing. <i>Journal of Hydrology</i> , 1983, 61, 357-370.	5.4	23
22	Two-dimensional modeling of advection-dominated solute transport in groundwater by the matched artificial dispersivity method. <i>Water Resources Research</i> , 1991, 27, 865-872.	4.2	23
23	A linear conceptual subsurface storm flow model. <i>Water Resources Research</i> , 1992, 28, 1047-1052.	4.2	22
24	On the Uncertainty of the Image Velocimetry Method Parameters. <i>Hydrology</i> , 2020, 7, 65.	3.0	21
25	A Multilayer Perceptron Model for Stochastic Synthesis. <i>Hydrology</i> , 2021, 8, 67.	3.0	21
26	Modelling biodegradation of hydrocarbons in aquifers: when is the use of the instantaneous reaction approximation justified?. <i>Journal of Contaminant Hydrology</i> , 2003, 60, 287-305.	3.3	19
27	Modeling DO Conditions in Streams with Dispersion. <i>Journal of Environmental Engineering, ASCE</i> , 1990, 116, 601-614.	1.4	17
28	Analytical solution of transient flow in a sloping soil layer with recharge. <i>Hydrological Sciences Journal</i> , 2006, 51, 626-641.	2.6	15
29	Linear theory of subsurface storm flow. <i>Water Resources Research</i> , 1982, 18, 1738-1740.	4.2	13
30	Storm Drain Design: Diffusive Flood Routing for PCs. <i>Journal of Hydraulic Engineering</i> , 1989, 115, 1135-1150.	1.5	12
31	Response of sloping unconfined aquifer to stage changes in adjacent stream. <i>Journal of Hydrology</i> , 2007, 338, 73-84.	5.4	12
32	The Curve Number Concept as a Driver for Delineating Hydrological Response Units. <i>Water (Switzerland)</i> , 2018, 10, 194.	2.7	11
33	A note on nonlinear storage routing. <i>Water Resources Research</i> , 1986, 22, 2111-2113.	4.2	9
34	A channel dynamics model for real-time flood forecasting. <i>Water Resources Research</i> , 1989, 25, 691-705.	4.2	9
35	Quantifying a Sustainable Management Space for Human Use of Coastal Groundwater under Multiple Change Pressures. <i>Water Resources Management</i> , 2016, 30, 4063-4080.	3.9	9
36	Corrected interface flow model for seawater intrusion in confined aquifers: relations to the dimensionless parameters of variable-density flow. <i>Hydrogeology Journal</i> , 2018, 26, 2547-2559.	2.1	9

#	ARTICLE	IF	CITATIONS
37	OpenHi.net: A Synergistically Built, National-Scale Infrastructure for Monitoring the Surface Waters of Greece. <i>Water (Switzerland)</i> , 2021, 13, 2779.	2.7	9
38	Ground-Water Solute Transport with Hydrogeochemical Reactions. <i>Ground Water</i> , 1997, 35, 243-249.	1.3	8
39	Comment on "A praxis-oriented perspective of streamflow inference from stage observations" the method of Dottori et al. (2009) and the alternative of the Jones Formula, with the kinematic wave celerity computed on the looped rating curve" by Koussis (2009). <i>Hydrology and Earth System Sciences</i> , 2010, 14, 1093-1097.	4.9	8
40	Reply to the Discussion of "Assessment and review of the hydraulics of storage flood routing 70 years after the presentation of the Muskingum method" by M. Perumal. <i>Hydrological Sciences Journal</i> , 2010, 55, 1431-1441.	2.6	8
41	Discussion of "Accuracy Criteria in Diffusion Routing" by Victor Miguel Ponce and Fred D. Theurer (June, 1982). <i>Journal of Hydraulic Engineering</i> , 1983, 109, 803-806.	1.5	7
42	Slug Test in Confined Aquifers, the Over-Damped Case: Quasi-Steady Flow Analysis. <i>Ground Water</i> , 2012, 50, 608-613.	1.3	7
43	Two-dimensional groundwater transport of reactive solutes with competitive adsorption. <i>Water Resources Research</i> , 1993, 29, 2241-2248.	4.2	6
44	LOTUS Spreadsheet Design for Storm Drain Networks. <i>Journal of Computing in Civil Engineering</i> , 1987, 1, 197-213.	4.7	5
45	Transient Analysis for Shallow Cooling Ponds. <i>Journal of the Energy Division - ASCE</i> , 1980, 106, 141-153.	0.0	5
46	CAD comparisons for wastewater treatment facilities. <i>Environmental Technology Letters</i> , 1987, 8, 405-418.	0.4	4
47	Rainfall parameterization in an off-line chemical transport model. <i>Atmospheric Science Letters</i> , 2004, 5, 82-88.	1.9	4
48	Quasi-steady flow in sloping aquifers. <i>Water Resources Research</i> , 2015, 51, 9165-9181.	4.2	4
49	An automated inverse method for slug tests "over-damped case" in confined aquifers. <i>Hydrological Sciences Journal</i> , 2015, 60, 285-293.	2.6	4
50	Beyond pseudo-coupling: Computing seawater intrusion in coastal aquifers with decoupled flow and transport equations. <i>Journal of Hydrology</i> , 2021, 593, 125794.	5.4	4
51	Comparison of two splitting algorithms for 2-D modelling of advection-dominated solute transport in groundwater. <i>Advances in Water Resources</i> , 1991, 14, 183-191.	3.8	3
52	Hydrometeorological network for flood monitoring and modeling. , 2013, , .		3
53	Reverse flood and pollution routing with the lag-and-route model. <i>Hydrological Sciences Journal</i> , 2016, , 1-15.	2.6	3
54	Probabilistic Evaluation and Filtering of Image Velocimetry Measurements. <i>Water (Switzerland)</i> , 2021, 13, 2206.	2.7	3

#	ARTICLE	IF	CITATIONS
55	Efficient Stochastic Simulation of Seawater Intrusion, With Mixing, in Confined Coastal Aquifers. <i>Frontiers in Water</i> , 2021, 3, .	2.3	3
56	On the mathematics of storage routing " Reply. <i>Journal of Hydrology</i> , 1984, 73, 395-397.	5.4	2
57	On the mathematics of storage routing " Reply. <i>Journal of Hydrology</i> , 1984, 69, 365-366.	5.4	2
58	Algebraic estimation of the specific storage from slug tests in confined aquifers in the overdamped case. <i>Hydrogeology Journal</i> , 2021, 29, 2545-2553.	2.1	2
59	Discharge estimation from surface-velocity observations by a maximum-entropy based method. <i>Hydrological Sciences Journal</i> , 2022, 67, 451-461.	2.6	2
60	NONLINEAR SORPTION OF WATER IN SOIL. <i>Soil Science</i> , 1981, 132, 262-266.	0.9	1
61	Closure to "œ Unified Theory for Flood and Pollution Routing "by Antonis D. Koussis (December, 1983). <i>Journal of Hydraulic Engineering</i> , 1986, 112, 983-985.	1.5	1
62	Closure to "œ Modeling DO Conditions in Streams with Dispersion "by Antonis D. Koussis, Prashant Kokitkar, and Adosh Mehta (May/June, 1990, Vol. 116, No. 3). <i>Journal of Environmental Engineering, ASCE</i> , 1992, 118, 159-160.	1.4	0
63	Steady state groundwater seepage in sloping unconfined aquifers RP Chapuis, <i>Bull Eng Geol Environ</i> 70:89"99. doi:10.1007/s10064-010-0282-2. <i>Bulletin of Engineering Geology and the Environment</i> , 2012, 71, 599-602.	3.5	0