

# D Kip Solomon

## List of Publications by Year in descending order

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96  
papers

4,980  
citations

87888

38  
h-index

98798

67  
g-index

99  
all docs

99  
docs citations

99  
times ranked

3912  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the isotopic composition of carbon in soil carbon dioxide. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 3403-3405.	3.9	641
2	How old is streamwater? Open questions in catchment transit time conceptualization, modelling and analysis. <i>Hydrological Processes</i> , 2010, 24, 1745-1754.	2.6	276
3	The annual carbon dioxide cycle in a montane soil: Observations, modeling, and implications for weathering. <i>Water Resources Research</i> , 1987, 23, 2257-2265.	4.2	180
4	Recent advances in dating young groundwater: chlorofluorocarbons, and 85Kr. <i>Journal of Hydrology</i> , 1997, 191, 245-265.	5.4	178
5	Transport of Atmospheric Trace Gases to the Water Table: Implications for Groundwater Dating with Chlorofluorocarbons and Krypton 85. <i>Water Resources Research</i> , 1995, 31, 263-270.	4.2	147
6	Source of radiogenic helium 4 in shallow aquifers: Implications for dating young groundwater. <i>Water Resources Research</i> , 1996, 32, 1805-1813.	4.2	141
7	Tritium and helium: 3 as groundwater age tracers in the Borden Aquifer. <i>Water Resources Research</i> , 1992, 28, 741-755.	4.2	136
8	Chlorofluorocarbons as Tracers of Groundwater Transport Processes in a Shallow, Silty Sand Aquifer. <i>Water Resources Research</i> , 1995, 31, 425-434.	4.2	136
9	A validation of the 3 H/3 He method for determining groundwater recharge. <i>Water Resources Research</i> , 1993, 29, 2951-2962.	4.2	129
10	Tracer applications of noble gas radionuclides in the geosciences. <i>Earth-Science Reviews</i> , 2014, 138, 196-214.	9.1	119
11	Tritium and Helium 3 Isotope Ratios for Direct Estimation of Spatial Variations in Groundwater Recharge. <i>Water Resources Research</i> , 1991, 27, 2309-2319.	4.2	117
12	Using noble gases to investigate mountain-front recharge. <i>Journal of Hydrology</i> , 2003, 275, 194-207.	5.4	112
13	3H and 3He. , 2000, , 397-424.		107
14	Tritium and helium isotopes as hydrologic tracers in a shallow unconfined aquifer. <i>Journal of Hydrology</i> , 1988, 103, 1-9.	5.4	103
15	Dissolved gas tracers in groundwater: Simplified injection, sampling, and analysis. <i>Water Resources Research</i> , 1996, 32, 1635-1642.	4.2	94
16	Inferring shallow groundwater flow in saprolite and fractured rock using environmental tracers. <i>Water Resources Research</i> , 1996, 32, 1501-1509.	4.2	81
17	Site Characterization Using 3H/3 He Ground-Water Ages, Cape Cod, MA. <i>Ground Water</i> , 1995, 33, 988-996.	1.3	78
18	Application of environmental tracers to mixing, evolution, and nitrate contamination of ground water in Jeju Island, Korea. <i>Journal of Hydrology</i> , 2006, 327, 258-275.	5.4	78

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19	Stable Isotopes of Oxygen and Natural and Fallout Radionuclides Used for Tracing Runoff During Snowmelt in an Arctic Watershed. <i>Water Resources Research</i> , 1991, 27, 2171-2179.	4.2	77
20	Persistence of artificial sweeteners in a 15-year-old septic system plume. <i>Journal of Hydrology</i> , 2013, 477, 43-54.	5.4	77
21	An integrated environmental tracer approach to characterizing groundwater circulation in a mountain block. <i>Water Resources Research</i> , 2005, 41, .	4.2	76
22	Testing mixing models of old and young groundwater in a tropical lowland rain forest with environmental tracers. <i>Water Resources Research</i> , 2010, 46, .	4.2	76
23	$^3\text{H}/^3\text{He}$ age data in assessing the susceptibility of wells to contamination. <i>Ground Water</i> , 2005, 43, 353-367.	1.3	70
24	Tracing groundwater flow in the Borden aquifer using krypton-85. <i>Journal of Hydrology</i> , 1992, 130, 279-297.	5.4	68
25	Spatial extent and temporal variability of Greenland firn aquifers detected by ground and airborne radars. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 2381-2398.	2.8	68
26	Dating of "young" groundwaters using environmental tracers: advantages, applications, and research needs. <i>Isotopes in Environmental and Health Studies</i> , 2010, 46, 259-278.	1.0	64
27	ECOHYDROLOGY IN A COLORADO RIVER RIPARIAN FOREST: IMPLICATIONS FOR THE DECLINE OF POPULUS FREMONTII. , 2005, 15, 1009-1018.		58
28	Using terrigenous $^4\text{He}$ to identify and quantify regional groundwater discharge to streams. <i>Water Resources Research</i> , 2011, 47, .	4.2	57
29	An advanced passive diffusion sampler for the determination of dissolved gas concentrations. <i>Water Resources Research</i> , 2009, 45, .	4.2	55
30	Noble Gas Thermometry in Groundwater Hydrology. <i>Advances in Isotope Geochemistry</i> , 2013, , 81-122.	1.4	55
31	$^4\text{He}$ in Groundwater. , 2000, , 425-439.		48
32	Gas-Partitioning Tracer Test to Quantify Trapped Gas During Recharge. <i>Ground Water</i> , 2004, 42, 589-600.	1.3	47
33	Utilizaço de istopos de oxignio, hidrognio e hlio para o estudo de sistemas aquferos nas ilhas de Cabo Verde, frica Ocidental. <i>Hydrogeology Journal</i> , 2009, 17, 1157-1174.	2.1	47
34	Parameter estimation using groundwater age and head data, Cape Cod, Massachusetts. <i>Water Resources Research</i> , 1998, 34, 637-645.	4.2	46
35	Stream Measurements Locate Thermogenic Methane Fluxes in Groundwater Discharge in an Area of Shale-Gas Development. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4057-4065.	10.0	45
36	Effect of bedrock permeability on stream base flow mean transit time scaling relationships: 2. Process study of storage and release. <i>Water Resources Research</i> , 2016, 52, 1375-1397.	4.2	45

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37	Chemical and isotopic signature of old groundwater and magmatic solutes in a Costa Rican rain forest: Evidence from carbon, helium, and chlorine. <i>Water Resources Research</i> , 2009, 45, .	4.2	44
38	Age dating base flow at springs and gaining streams using helium-3 and tritium: Fischa-Dagnitz system, southern Vienna Basin, Austria. <i>Water Resources Research</i> , 2010, 46, .	4.2	44
39	Groundwater transit time distribution and mean from streambed sampling in an agricultural coastal plain watershed, North Carolina, USA. <i>Water Resources Research</i> , 2016, 52, 2025-2044.	4.2	44
40	Applications of a Total Dissolved Gas Pressure Probe in Ground Water Studies. <i>Ground Water</i> , 2003, 41, 440-448.	1.3	43
41	Bayesian evaluation of groundwater age distribution using radioactive tracers and anthropogenic chemicals. <i>Water Resources Research</i> , 2012, 48, .	4.2	43
42	The geochemistry and mixing of leakage in a semi-confined aquifer at a municipal well field, Memphis, Tennessee, USA. <i>Applied Geochemistry</i> , 2003, 18, 1043-1063.	3.0	38
43	The study of the interactions between groundwater and Sava River water in the Ljubljansko polje aquifer system (Slovenia). <i>Journal of Hydrology</i> , 2018, 556, 384-396.	5.4	37
44	Can argillaceous formations isolate nuclear waste? Insights from isotopic, noble gas, and geochemical profiles. <i>Geofluids</i> , 2015, 15, 381-386.	0.7	36
45	A multitracer approach for characterizing interactions between shallow groundwater and the hydrothermal system in the Norris Geyser Basin area, Yellowstone National Park. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	33
46	Sources of radiogenic helium in a clay till aquitard and its use to evaluate the timing of geologic events. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 475-483.	3.9	31
47	Quantifying the fate of agricultural nitrogen in an unconfined aquifer: Stream-based observations at three measurement scales. <i>Water Resources Research</i> , 2016, 52, 1961-1983.	4.2	27
48	Chloride budgets in transient lakes: Lakes Baringo, Naivasha, and Turkana1. <i>Limnology and Oceanography</i> , 1987, 32, 745-751.	3.1	25
49	Borehole Environmental Tracers for Evaluating Net Infiltration and Recharge through Desert Bedrock. <i>Vadose Zone Journal</i> , 2006, 5, 98-120.	2.2	25
50	Snowmelt hydrograph interpretation: Revealing watershed scale hydrologic characteristics of the Yellowstone volcanic plateau. <i>Journal of Hydrology</i> , 2010, 383, 209-222.	5.4	25
51	Evaluating an unconfined aquifer by analysis of age-dating tracers in stream water. <i>Water Resources Research</i> , 2015, 51, 8883-8899.	4.2	24
52	Hydraulic Conductivity of a Firn Aquifer in Southeast Greenland. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	24
53	Numerical simulation of unsaturated flow along preferential pathways: implications for the use of mass balance calculations for isotope storm hydrograph separation. <i>Journal of Hydrology</i> , 2002, 268, 214-233.	5.4	23
54	Radiogenic helium in shallow groundwater within a clay till, southwestern Ontario. <i>Water Resources Research</i> , 2003, 39, .	4.2	22

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55	Natural spatial and temporal variations in groundwater chemistry in fractured, sedimentary rocks: scale and implications for solute transport. <i>Applied Geochemistry</i> , 2005, 20, 861-873.	3.0	22
56	Investigation of Firn Aquifer Structure in Southeastern Greenland Using Active Source Seismology. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	21
57	Separation of groundwater-flow components in a karstified aquifer using environmental tracers. <i>Applied Geochemistry</i> , 1999, 14, 1001-1014.	3.0	20
58	Constraining mountain-block recharge to the eastern Salt Lake Valley, Utah with dissolved noble gas and tritium data. <i>Water Science and Application</i> , 2004, , 139-158.	0.3	20
59	Hydrologic Properties of a Highly Permeable Firn Aquifer in the Wilkins Ice Shelf, Antarctica. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089552.	4.0	20
60	A Tube Seepage Meter for In Situ Measurement of Seepage Rate and Groundwater Sampling. <i>Ground Water</i> , 2016, 54, 588-595.	1.3	19
61	Direct Evidence of Meltwater Flow Within a Firn Aquifer in Southeast Greenland. <i>Geophysical Research Letters</i> , 2018, 45, 207-215.	4.0	19
62	Evaluating the use of strontium isotopes in tree rings to record the isotopic signal of dust deposited on the Wasatch Mountains. <i>Applied Geochemistry</i> , 2014, 50, 53-65.	3.0	18
63	Hydrology of a Perennial Firn Aquifer in Southeast Greenland: An Overview Driven by Field Data. <i>Water Resources Research</i> , 2020, 56, e2019WR026348.	4.2	18
64	The IAEA's Coordinated Research Project on "Estimation of Groundwater Recharge and Discharge by Using the Tritium, Helium-3 Dating Technique" In Lieu of a Preface. <i>Geochemical Journal</i> , 2017, 51, 385-390.	1.0	18
65	Dissolved Gases in Subsurface Hydrology. , 1998, , 291-318.		17
66	Site Characterization and Containment Assessment with Dissolved Gases. <i>Journal of Environmental Engineering, ASCE</i> , 1998, 124, 572-574.	1.4	17
67	Gas-Tracer Experiment for Evaluating the Fate of Methane in a Coastal Plain Stream: Degassing versus in-Stream Oxidation. <i>Environmental Science &amp; Technology</i> , 2016, 50, 10504-10511.	10.0	17
68	Hydrogeochemistry, Isotopic Composition and Water Age in the Hydrologic System of a Large Catchment within a Plain Humid Environment (Argentine Pampas): Quequ�n Grande River, Argentina. <i>River Research and Applications</i> , 2017, 33, 438-449.	1.7	16
69	Modeling unsaturated flow and transport in the saprolite of fractured sedimentary rocks: Effects of periodic wetting and drying. <i>Water Resources Research</i> , 2003, 39, .	4.2	15
70	Millimeter- to kilometer-scale variations in vadose-zone bedrock solutes: Implications for estimating recharge in arid settings. <i>Water Science and Application</i> , 2004, , 49-67.	0.3	14
71	Groundwater-Mediated Memory of Past Climate Controls Water Yield in Snowmelt-Dominated Catchments. <i>Water Resources Research</i> , 2021, 57, e2021WR030605.	4.2	14
72	An Automated Seepage Meter for Streams and Lakes. <i>Water Resources Research</i> , 2020, 56, e2019WR026983.	4.2	13

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73	Using noble gases measured in spring discharge to trace hydrothermal processes in the Norris Geyser Basin, Yellowstone National Park, U.S.A.. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 198, 394-404.	2.1	12
74	Quantifying an aquifer nitrate budget and future nitrate discharge using field data from streambeds and well nests. <i>Water Resources Research</i> , 2016, 52, 9046-9065.	4.2	10
75	Ownership of Mine-Tunnel Discharge. <i>Ground Water</i> , 2000, 38, 487-496.	1.3	9
76	Air, ground, and groundwater recharge temperatures in an alpine setting, Brighton Basin, Utah. <i>Water Resources Research</i> , 2012, 48, .	4.2	9
77	Delineation of recharge patterns and contaminant transport using $^3\text{H}$ – $^3\text{He}$ in a shallow aquifer contaminated by chlorinated solvents in South Korea. <i>Hydrogeology Journal</i> , 2014, 22, 1041-1054.	2.1	9
78	Wetland-Scale Mapping of Preferential Fresh Groundwater Discharge to the Colorado River. <i>Ground Water</i> , 2019, 57, 737-748.	1.3	8
79	Testing helium equilibrium between quartz and pore water as a method to determine pore water helium concentrations. <i>Applied Geochemistry</i> , 2013, 35, 187-195.	3.0	7
80	Using tracer-derived groundwater transit times to assess storage within a high-elevation watershed of the upper Colorado River Basin, USA. <i>Hydrogeology Journal</i> , 2018, 26, 467-480.	2.1	7
81	Depth-Resolved Groundwater Chemistry by Longitudinal Sampling of Ambient and Pumped Flows Within Long-Screened and Open Borehole Wells. <i>Water Resources Research</i> , 2019, 55, 9417-9435.	4.2	7
82	Excess air during aquifer storage and recovery in an arid basin (Las Vegas Valley, USA). <i>Hydrogeology Journal</i> , 2011, 19, 187-194.	2.1	6
83	The effect of geochemical processes on groundwater in the Velenje coal basin, Slovenia: insights from mineralogy, trace elements and isotopes signatures. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	6
84	Integrated Borehole, Radar, and Seismic Velocity Analysis Reveals Dynamic Spatial Variations Within a Firn Aquifer in Southeast Greenland. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089335.	4.0	5
85	Using environmental tracers and numerical simulation to investigate regional hydrothermal basins—Norris Geyser Basin area, Yellowstone National Park, USA. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2777-2787.	3.4	4
86	Investigating a firn aquifer near Helheim Glacier (South-Eastern Greenland) with magnetic resonance soundings and ground-penetrating radar. <i>Near Surface Geophysics</i> , 2018, 16, 411-422.	1.2	4
87	Springwater provenance and flowpath evaluation in Blue Lake, Bonneville basin, Utah. <i>Chemical Geology</i> , 2019, 529, 119280.	3.3	4
88	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.	2.1	4
89	Using Automated Seepage Meters to Quantify the Spatial Variability and Net Flux of Groundwater to a Stream. <i>Water Resources Research</i> , 2022, 58, .	4.2	4
90	Developing a new, passive diffusion sampler suite to detect helium anomalies associated with volcanic unrest. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	3

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91	Potential impacts to perennial springs from tar sand mining, processing, and disposal on the Tavaputs Plateau, Utah, USA. <i>Science of the Total Environment</i> , 2015, 532, 20-30.	8.0	3
92	Rethinking a groundwater flow system using a multiple-tracer geochemical approach: A case study in Moab-Spanish Valley, Utah. <i>Journal of Hydrology</i> , 2020, 590, 125512.	5.4	3
93	In-situ sampling for krypton-85 groundwater dating. <i>Journal of Hydrology X</i> , 2021, 11, 100075.	1.6	3
94	Isotopic Tracers for Investigating Hydrological Processes. <i>Ecological Studies</i> , 1996, , 165-182.	1.2	3
95	Transport of Groundwater, Heat, and Radiogenic He in Topography-Driven Basins. <i>Ground Water</i> , 2015, 53, 33-46.	1.3	2
96	Tritium Content of Clay Minerals. <i>Clays and Clay Minerals</i> , 2012, 60, 186-199.	1.3	1