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	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.	2.1	4
2	Using Automated Seepage Meters to Quantify the Spatial Variability and Net Flux of Groundwater to a Stream. Water Resources Research, 2022, 58, .	4.2	4
3	In-situ sampling for krypton-85 groundwater dating. Journal of Hydrology X, 2021, 11, 100075.	1.6	3
4	Groundwaterâ€Mediated Memory of Past Climate Controls Water Yield in Snowmeltâ€Dominated Catchments. Water Resources Research, 2021, 57, e2021WR030605.	4.2	14
5	Integrated Borehole, Radar, and Seismic Velocity Analysis Reveals Dynamic Spatial Variations Within a Firn Aquifer in Southeast Greenland. Geophysical Research Letters, 2020, 47, e2020GL089335.	4.0	5
6	Rethinking a groundwater flow system using a multiple-tracer geochemical approach: A case study in Moab-Spanish Valley, Utah. Journal of Hydrology, 2020, 590, 125512.	5.4	3
7	Hydrologic Properties of a Highly Permeable Firn Aquifer in the Wilkins Ice Shelf, Antarctica. Geophysical Research Letters, 2020, 47, e2020GL089552.	4.0	20
8	Hydrology of a Perennial Firn Aquifer in Southeast Greenland: An Overview Driven by Field Data. Water Resources Research, 2020, 56, e2019WR026348.	4.2	18
9	An Automated Seepage Meter for Streams and Lakes. Water Resources Research, 2020, 56, e2019WR026983.	4.2	13
10	The effect of geochemical processes on groundwater in the Velenje coal basin, Slovenia: insights from mineralogy, trace elements and isotopes signatures. SN Applied Sciences, 2019, 1, 1.	2.9	6
11	Depthâ€Resolved Groundwater Chemistry by Longitudinal Sampling of Ambient and Pumped Flows Within Longâ€Screened and Open Borehole Wells. Water Resources Research, 2019, 55, 9417-9435.	4.2	7
12	Wetlandâ€Scale Mapping of Preferential Fresh Groundwater Discharge to the Colorado River. Ground Water, 2019, 57, 737-748.	1.3	8
13	Springwater provenance and flowpath evaluation in Blue Lake, Bonneville basin, Utah. Chemical Geology, 2019, 529, 119280.	3.3	4
14	Direct Evidence of Meltwater Flow Within a Firn Aquifer in Southeast Greenland. Geophysical Research Letters, 2018, 45, 207-215.	4.0	19
15	Using tracer-derived groundwater transit times to assess storage within a high-elevation watershed of the upper Colorado River Basin, USA. Hydrogeology Journal, 2018, 26, 467-480.	2.1	7
16	The study of the interactions between groundwater and Sava River water in the Ljubljansko polje aquifer system (Slovenia). Journal of Hydrology, 2018, 556, 384-396.	5.4	37
17	Investigating a firn aquifer near Helheim Glacier (Southâ€Eastern Greenland) with magnetic resonance soundings and groundâ€penetrating radar. Near Surface Geophysics, 2018, 16, 411-422.	1.2	4
18	Hydrogeochemistry, Isotopic Composition and Water Age in the Hydrologic System of a Large Catchment within a Plain Humid Environment (Argentine Pampas): QuequÃ©n Grande River, Argentina. River Research and Applications, 2017, 33, 438-449.	1.7	16

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19	Investigation of Firn Aquifer Structure in Southeastern Greenland Using Active Source Seismology. Frontiers in Earth Science, 2017, 5, .	1.8	21
20	Hydraulic Conductivity of a Firn Aquifer in Southeast Greenland. Frontiers in Earth Science, 2017, 5, .	1.8	24
21	The IAEAâ€™s Coordinated Research Project on â€œEstimation of Groundwater Recharge and Discharge by Using the Tritium, Helium-3 Dating Techniqueâ€: In Lieu of a Preface. Geochemical Journal, 2017, 51, 385-390.	1.0	18
22	A Tube Seepage Meter for In Situ Measurement of Seepage Rate and Groundwater Sampling. Ground Water, 2016, 54, 588-595.	1.3	19
23	Groundwater transit time distribution and mean from streambed sampling in an agricultural coastal plain watershed, North Carolina, USA. Water Resources Research, 2016, 52, 2025-2044.	4.2	44
24	Quantifying the fate of agricultural nitrogen in an unconfined aquifer: Streamâ€based observations at three measurement scales. Water Resources Research, 2016, 52, 1961-1983.	4.2	27
25	Spatial extent and temporal variability of Greenland firn aquifers detected by ground and airborne radars. Journal of Geophysical Research F: Earth Surface, 2016, 121, 2381-2398.	2.8	68
26	Quantifying an aquifer nitrate budget and future nitrate discharge using field data from streambeds and well nests. Water Resources Research, 2016, 52, 9046-9065.	4.2	10
27	Gas-Tracer Experiment for Evaluating the Fate of Methane in a Coastal Plain Stream: Degassing versus in-Stream Oxidation. Environmental Science & Technology, 2016, 50, 10504-10511.	10.0	17
28	Effect of bedrock permeability on stream base flow mean transit time scaling relationships: 2. Process study of storage and release. Water Resources Research, 2016, 52, 1375-1397.	4.2	45
29	Evaluating an unconfined aquifer by analysis of ageâ€dating tracers in stream water. Water Resources Research, 2015, 51, 8883-8899.	4.2	24
30	Transport of Groundwater, Heat, and Radiogenic He in Topographyâ€Driven Basins. Ground Water, 2015, 53, 33-46.	1.3	2
31	Can argillaceous formations isolate nuclear waste? Insights from isotopic, noble gas, and geochemical profiles. Geofluids, 2015, 15, 381-386.	0.7	36
32	Developing a new, passive diffusion sampler suite to detect helium anomalies associated with volcanic unrest. Bulletin of Volcanology, 2015, 77, 1.	3.0	3
33	Potential impacts to perennial springs from tar sand mining, processing, and disposal on the Tavaputs Plateau, Utah, USA. Science of the Total Environment, 2015, 532, 20-30.	8.0	3
34	Stream Measurements Locate Thermogenic Methane Fluxes in Groundwater Discharge in an Area of Shale-Gas Development. Environmental Science & Technology, 2015, 49, 4057-4065.	10.0	45
35	Delineation of recharge patterns and contaminant transport using 3Hâ€“3He in a shallow aquifer contaminated by chlorinated solvents in South Korea. Hydrogeology Journal, 2014, 22, 1041-1054.	2.1	9
36	Evaluating the use of strontium isotopes in tree rings to record the isotopic signal of dust deposited on the Wasatch Mountains. Applied Geochemistry, 2014, 50, 53-65.	3.0	18

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37	Tracer applications of noble gas radionuclides in the geosciences. Earth-Science Reviews, 2014, 138, 196-214.	9.1	119
38	Testing helium equilibrium between quartz and pore water as a method to determine pore water helium concentrations. Applied Geochemistry, 2013, 35, 187-195.	3.0	7
39	Persistence of artificial sweeteners in a 15-year-old septic system plume. Journal of Hydrology, 2013, 477, 43-54.	5.4	77
40	Using environmental tracers and numerical simulation to investigate regional hydrothermal basinsâ€"Norris Geyser Basin area, Yellowstone National Park, USA. Journal of Geophysical Research: Solid Earth, 2013, 118, 2777-2787.	3.4	4
41	Noble Gas Thermometry in Groundwater Hydrology. Advances in Isotope Geochemistry, 2013, , 81-122.	1.4	55
42	Bayesian evaluation of groundwater age distribution using radioactive tracers and anthropogenic chemicals. Water Resources Research, 2012, 48, .	4.2	43
43	Air, ground, and groundwater recharge temperatures in an alpine setting, Brighton Basin, Utah. Water Resources Research, 2012, 48, .	4.2	9
44	Tritium Content of Clay Minerals. Clays and Clay Minerals, 2012, 60, 186-199.	1.3	1
45	A multitracer approach for characterizing interactions between shallow groundwater and the hydrothermal system in the Norris Geyser Basin area, Yellowstone National Park. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	33
46	Using terrigenic ⁴He to identify and quantify regional groundwater discharge to streams. Water Resources Research, 2011, 47, .	4.2	57
47	Excess air during aquifer storage and recovery in an arid basin (Las Vegas Valley, USA). Hydrogeology Journal, 2011, 19, 187-194.	2.1	6
48	Snowmelt hydrograph interpretation: Revealing watershed scale hydrologic characteristics of the Yellowstone volcanic plateau. Journal of Hydrology, 2010, 383, 209-222.	5.4	25
49	Using noble gases measured in spring discharge to trace hydrothermal processes in the Norris Geyser Basin, Yellowstone National Park, U.S.A.. Journal of Volcanology and Geothermal Research, 2010, 198, 394-404.	2.1	12
50	How old is streamwater? Open questions in catchment transit time conceptualization, modelling and analysis. Hydrological Processes, 2010, 24, 1745-1754.	2.6	276
51	Dating of â€˜youngâ€™ groundwaters using environmental tracers: advantages, applications, and research needs. Isotopes in Environmental and Health Studies, 2010, 46, 259-278.	1.0	64
52	Age dating base flow at springs and gaining streams using heliumâ€3 and tritium: FischaâEDagnitz system, southern Vienna Basin, Austria. Water Resources Research, 2010, 46, .	4.2	44
53	Testing mixing models of old and young groundwater in a tropical lowland rain forest with environmental tracers. Water Resources Research, 2010, 46, .	4.2	76
54	UtilizaÃ§Ã£o de isÃ³topos de oxigÃ©nio, hidrogÃ©nio e hÃ©lio para o estudo de sistemas aquÃferos nas ilhas de Cabo Verde, Ãfrica Ocidental. Hydrogeology Journal, 2009, 17, 1157-1174.	2.1	47

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55	An advanced passive diffusion sampler for the determination of dissolved gas concentrations. Water Resources Research, 2009, 45, .	4.2	55
56	Chemical and isotopic signature of old groundwater and magmatic solutes in a Costa Rican rain forest: Evidence from carbon, helium, and chlorine. Water Resources Research, 2009, 45, .	4.2	44
57	Application of environmental tracers to mixing, evolution, and nitrate contamination of ground water in Jeju Island, Korea. Journal of Hydrology, 2006, 327, 258-275.	5.4	78
58	Borehole Environmental Tracers for Evaluating Net Infiltration and Recharge through Desert Bedrock. Vadose Zone Journal, 2006, 5, 98-120.	2.2	25
59	3H/3He age data in assessing the susceptibility of wells to contamination. Ground Water, 2005, 43, 353-367.	1.3	70
60	ECOHYDROLOGY IN A COLORADO RIVER RIPARIAN FOREST: IMPLICATIONS FOR THE DECLINE OF POPULUS FREMONTII. , 2005, 15, 1009-1018.		58
61	Sources of radiogenic helium in a clay till aquitard and its use to evaluate the timing of geologic events. Geochimica Et Cosmochimica Acta, 2005, 69, 475-483.	3.9	31
62	Natural spatial and temporal variations in groundwater chemistry in fractured, sedimentary rocks: scale and implications for solute transport. Applied Geochemistry, 2005, 20, 861-873.	3.0	22
63	An integrated environmental tracer approach to characterizing groundwater circulation in a mountain block. Water Resources Research, 2005, 41, .	4.2	76
64	Millimeter- to kilometer-scale variations in vadose-zone bedrock solutes: Implications for estimating recharge in arid settings. Water Science and Application, 2004, , 49-67.	0.3	14
65	Constraining mountain-block recharge to the eastern Salt Lake Valley, Utah with dissolved noble gas and tritium data. Water Science and Application, 2004, , 139-158.	0.3	20
66	Gas-Partitioning Tracer Test to Quantify Trapped Gas During Recharge. Ground Water, 2004, 42, 589-600.	1.3	47
67	Applications of a Total Dissolved Gas Pressure Probe in Ground Water Studies. Ground Water, 2003, 41, 440-448.	1.3	43
68	Radiogenic helium in shallow groundwater within a clay till, southwestern Ontario. Water Resources Research, 2003, 39, .	4.2	22
69	Modeling unsaturated flow and transport in the saprolite of fractured sedimentary rocks: Effects of periodic wetting and drying. Water Resources Research, 2003, 39, .	4.2	15
70	Using noble gases to investigate mountain-front recharge. Journal of Hydrology, 2003, 275, 194-207.	5.4	112
71	The geochemistry and mixing of leakage in a semi-confined aquifer at a municipal well field, Memphis, Tennessee, USA. Applied Geochemistry, 2003, 18, 1043-1063.	3.0	38
72	Numerical simulation of unsaturated flow along preferential pathways: implications for the use of mass balance calculations for isotope storm hydrograph separation. Journal of Hydrology, 2002, 268, 214-233.	5.4	23

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73	Ownership of Mine-Tunnel Discharge. Ground Water, 2000, 38, 487-496.	1.3	9
74	3H and 3He. , 2000, , 397-424.		107
75	4He in Groundwater. , 2000, , 425-439.		48
76	Separation of groundwater-flow components in a karstified aquifer using environmental tracers. Applied Geochemistry, 1999, 14, 1001-1014.	3.0	20
77	Parameter estimation using groundwater age and head data, Cape Cod, Massachusetts. Water Resources Research, 1998, 34, 637-645.	4.2	46
78	Dissolved Gases in Subsurface Hydrology. , 1998, , 291-318.		17
79	Site Characterization and Containment Assessment with Dissolved Gases. Journal of Environmental Engineering, ASCE, 1998, 124, 572-574.	1.4	17
80	Recent advances in dating young groundwater: chlorofluorocarbons, and 85Kr. Journal of Hydrology, 1997, 191, 245-265.	5.4	178
81	Inferring shallow groundwater flow in saprolite and fractured rock using environmental tracers. Water Resources Research, 1996, 32, 1501-1509.	4.2	81
82	Dissolved gas tracers in groundwater: Simplified injection, sampling, and analysis. Water Resources Research, 1996, 32, 1635-1642.	4.2	94
83	Source of radiogenic helium 4 in shallow aquifers: Implications for dating young groundwater. Water Resources Research, 1996, 32, 1805-1813.	4.2	141
84	Isotopic Tracers for Investigating Hydrological Processes. Ecological Studies, 1996, , 165-182.	1.2	3
85	Site Characterization Using 3H/3 He Ground-Water Ages, Cape Cod, MA. Ground Water, 1995, 33, 988-996.	1.3	78
86	Transport of Atmospheric Trace Gases to the Water Table: Implications for Groundwater Dating with Chlorofluorocarbons and Krypton 85. Water Resources Research, 1995, 31, 263-270.	4.2	147
87	Chlorofluorocarbons as Tracers of Groundwater Transport Processes in a Shallow, Silty Sand Aquifer. Water Resources Research, 1995, 31, 425-434.	4.2	136
88	A validation of the 3 H/3 He method for determining groundwater recharge. Water Resources Research, 1993, 29, 2951-2962.	4.2	129
89	Tritium and helium: 3 as groundwater age tracers in the Borden Aquifer. Water Resources Research, 1992, 28, 741-755.	4.2	136
90	Tracing groundwater flow in the Borden aquifer using krypton-85. Journal of Hydrology, 1992, 130, 279-297.	5.4	68

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91	Stable Isotopes of Oxygen and Natural and Fallout Radionuclides Used for Tracing Runoff During Snowmelt in an Arctic Watershed. Water Resources Research, 1991, 27, 2171-2179.	4.2	77
92	Tritium and Helium 3 Isotope Ratios for Direct Estimation of Spatial Variations in Groundwater Recharge. Water Resources Research, 1991, 27, 2309-2319.	4.2	117
93	On the isotopic composition of carbon in soil carbon dioxide. Geochimica Et Cosmochimica Acta, 1991, 55, 3403-3405.	3.9	641
94	Tritium and helium isotopes as hydrologic tracers in a shallow unconfined aquifer. Journal of Hydrology, 1988, 103, 1-9.	5.4	103
95	Chloride budgets in transient lakes: Lakes Baringo, Naivasha, and Turkana1. Limnology and Oceanography, 1987, 32, 745-751.	3.1	25
96	The annual carbon dioxide cycle in a montane soil: Observations, modeling, and implications for weathering. Water Resources Research, 1987, 23, 2257-2265.	4.2	180