

# David A Stonestrom

## List of Publications by Year in descending order

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42  
papers

3,367  
citations

304743

22  
h-index

265206

42  
g-index

52  
all docs

52  
docs citations

52  
times ranked

3754  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of land use and land cover change on groundwater recharge and quality in the southwestern US. <i>Global Change Biology</i> , 2005, 11, 1577-1593.	9.5	510
2	Chemical Weathering in a Tropical Watershed, Luquillo Mountains, Puerto Rico: I. Long-Term Versus Short-Term Weathering Fluxes. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 209-226.	3.9	339
3	A Reservoir of Nitrate Beneath Desert Soils. <i>Science</i> , 2003, 302, 1021-1024.	12.6	317
4	Implications of projected climate change for groundwater recharge in the western United States. <i>Journal of Hydrology</i> , 2016, 534, 124-138.	5.4	299
5	The role of reaction affinity and secondary minerals in regulating chemical weathering rates at the Santa Cruz Soil Chronosequence, California. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2804-2831.	3.9	280
6	Widespread Natural Perchlorate in Unsaturated Zones of the Southwest United States. <i>Environmental Science &amp; Technology</i> , 2007, 41, 4522-4528.	10.0	147
7	Chemical weathering of a marine terrace chronosequence, Santa Cruz, California I: Interpreting rates and controls based on soil concentration–depth profiles. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 36-68.	3.9	125
8	Analysis of streambed temperatures in ephemeral channels to determine streamflow frequency and duration. <i>Water Resources Research</i> , 2001, 37, 317-328.	4.2	113
9	Chemical weathering of a marine terrace chronosequence, Santa Cruz, California. Part II: Solute profiles, gradients and the comparisons of contemporary and long-term weathering rates. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2769-2803.	3.9	102
10	Introduction to special section on Impacts of Land Use Change on Water Resources. <i>Water Resources Research</i> , 2009, 45, .	4.2	101
11	Chemical weathering rates of a soil chronosequence on granitic alluvium: III. Hydrochemical evolution and contemporary solute fluxes and rates. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1975-1996.	3.9	94
12	Global patterns and environmental controls of perchlorate and nitrate co-occurrence in arid and semi-arid environments. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 164, 502-522.	3.9	90
13	Determining rates of chemical weathering in soils—solute transport versus profile evolution. <i>Journal of Hydrology</i> , 1998, 209, 331-345.	5.4	86
14	High CO <sub>2</sub> emissions through porous media: transport mechanisms and implications for flux measurement and fractionation. <i>Chemical Geology</i> , 2001, 177, 15-29.	3.3	81
15	Inventories and mobilization of unsaturated zone sulfate, fluoride, and chloride related to land use change in semiarid regions, southwestern United States and Australia. <i>Water Resources Research</i> , 2009, 45, .	4.2	59
16	Air permeability and trapped air content in two soils. <i>Water Resources Research</i> , 1989, 25, 1959-1969.	4.2	57
17	The Feasibility of Recharge Rate Determinations Using the Steady-State Centrifuge Method. <i>Soil Science Society of America Journal</i> , 1994, 58, 49-56.	2.2	54
18	Water content dependence of trapped air in two soils. <i>Water Resources Research</i> , 1989, 25, 1947-1958.	4.2	51

#	ARTICLE	IF	CITATIONS
19	CO <sub>2</sub> dynamics in the Amargosa Desert: Fluxes and isotopic speciation in a deep unsaturated zone. <i>Water Resources Research</i> , 2005, 41, .	4.2	45
20	Constraining the Inferred Paleohydrologic Evolution of a Deep Unsaturated Zone in the Amargosa Desert. <i>Vadose Zone Journal</i> , 2004, 3, 502-512.	2.2	39
21	Nonmonotonic matric pressure histories during constant flux infiltration into homogeneous profiles. <i>Water Resources Research</i> , 1994, 30, 81-91.	4.2	31
22	Method for estimating spatially variable seepage loss and hydraulic conductivity in intermittent and ephemeral streams. <i>Water Resources Research</i> , 2008, 44, .	4.2	30
23	Long-term flow-through column experiments and their relevance to natural granitoid weathering rates. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 202, 190-214.	3.9	22
24	Plant-Based Plume Scale Mapping of Tritium Contamination in Desert Soils. <i>Vadose Zone Journal</i> , 2005, 4, 819-827.	2.2	22
25	Transport of Tritium Contamination to the Atmosphere in an Arid Environment. <i>Vadose Zone Journal</i> , 2009, 8, 450-461.	2.2	21
26	Constraining the Inferred Paleohydrologic Evolution of a Deep Unsaturated Zone in the Amargosa Desert. <i>Vadose Zone Journal</i> , 2004, 3, 502-512.	2.2	21
27	Modeling Tritium Transport Through a Deep Unsaturated Zone in an Arid Environment. <i>Vadose Zone Journal</i> , 2005, 4, 967-976.	2.2	19
28	Tectonic, climatic, and land-use controls on groundwater recharge in an arid alluvial basin: Amargosa Desert, U.S.A.. <i>Water Science and Application</i> , 2004, , 29-47.	0.3	18
29	Percolation and transport in a sandy soil under a natural hydraulic gradient. <i>Water Resources Research</i> , 2005, 41, .	4.2	17
30	Steady state fractionation of heavy noble gas isotopes in a deep unsaturated zone. <i>Water Resources Research</i> , 2017, 53, 2716-2732.	4.2	13
31	Seasonal dynamics of CO <sub>2</sub> profiles across a soil chronosequence, Santa Cruz, California. <i>Applied Geochemistry</i> , 2011, 26, S132-S134.	3.0	9
32	Controls on soil pore water solutes: An approach for distinguishing between biogenic and lithogenic processes. <i>Journal of Geochemical Exploration</i> , 2006, 88, 363-366.	3.2	8
33	Volatile Organic Compounds in the Unsaturated Zone from Radioactive Wastes. <i>Journal of Environmental Quality</i> , 2012, 41, 1324-1336.	2.0	8
34	Multimodel analysis of anisotropic diffusive tracer gas transport in a deep arid unsaturated zone. <i>Water Resources Research</i> , 2015, 51, 6052-6073.	4.2	8
35	Nutrient processes at the stream-lake interface for a channelized versus unmodified stream mouth. <i>Water Resources Research</i> , 2017, 53, 237-256.	4.2	8
36	Solute profiles in soils, weathering gradients and exchange equilibrium/disequilibrium. <i>Mineralogical Magazine</i> , 2008, 72, 149-153.	1.4	7

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37	Interacting Vegetative and Thermal Contributions to Water Movement in Desert Soil. Vadose Zone Journal, 2011, 10, 552-564.	2.2	7
38	Field-Scale Sulfur Hexafluoride Tracer Experiment to Understand Long Distance Gas Transport in the Deep Unsaturated Zone. Vadose Zone Journal, 2014, 13, 1-10.	2.2	6
39	Experimental Studies and Model Analysis of Noble Gas Fractionation in Porous Media. Vadose Zone Journal, 2016, 15, 1-12.	2.2	6
40	Response to Comment on "A Reservoir of Nitrate Beneath Desert Soils". Science, 2004, 304, 51c-51c.	12.6	2
41	On the conversion of tritium units to mass fractions for hydrologic applications. Isotopes in Environmental and Health Studies, 2013, 49, 250-256.	1.0	2
42	Aquifers: Recharge. , 0, , 600-603.		0