

# Robert F Stallard

## List of Publications by Year in descending order

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76  
papers

8,522  
citations

87888

38  
h-index

79698

73  
g-index

87  
all docs

87  
docs citations

87  
times ranked

9251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil nutrients influence spatial distributions of tropical tree species. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 864-869.	7.1	763
2	Consistent Land- and Atmosphere-Based U.S. Carbon Sink Estimates. Science, 2001, 292, 2316-2320.	12.6	746
3	Terrestrial sedimentation and the carbon cycle: Coupling weathering and erosion to carbon burial. Global Biogeochemical Cycles, 1998, 12, 231-257.	4.9	674
4	Formation of the Isthmus of Panama. Science Advances, 2016, 2, e1600883.	10.3	565
5	Denudation rates determined from the accumulation of in situ-produced $^{10}\text{Be}$ in the luquillo experimental forest, Puerto Rico. Earth and Planetary Science Letters, 1995, 129, 193-202.	4.4	473
6	On the chemical mass-balance in estuaries. Geochimica Et Cosmochimica Acta, 1974, 38, 1719-1728.	3.9	413
7	The fluvial geochemistry and denudation rate of the Guayana Shield in Venezuela, Colombia, and Brazil. Geochimica Et Cosmochimica Acta, 1995, 59, 3301-3325.	3.9	289
8	Geochemistry of the Amazon: 3. Weathering chemistry and limits to dissolved inputs. Journal of Geophysical Research, 1987, 92, 8293-8302.	3.3	234
9	Major ion chemistry of some large Chinese rivers. Nature, 1982, 298, 550-553.	27.8	232
10	First-Cycle Quartz Arenites in the Orinoco River Basin, Venezuela and Colombia. Journal of Geology, 1988, 96, 263-277.	1.4	221
11	Dissolution at dislocation etch pits in quartz. Geochimica Et Cosmochimica Acta, 1986, 50, 2349-2361.	3.9	208
12	Dynamics of Soil Carbon During Deglaciation of the Laurentide Ice Sheet. Science, 1992, 258, 1921-1924.	12.6	198
13	Methane emission by bubbling from Gatun Lake, Panama. Journal of Geophysical Research, 1994, 99, 8307.	3.3	189
14	Consumption of atmospheric methane in soils of central Panama: Effects of agricultural development. Global Biogeochemical Cycles, 1990, 4, 21-27.	4.9	184
15	The chemical mass balance in the Amazon plume I: The nutrients. Deep-sea Research Part A, Oceanographic Research Papers, 1981, 28, 1339-1374.	1.5	161
16	Controls on the composition of fluvial sands from a tropical weathering environment: Sands of the Orinoco River drainage basin, Venezuela and Colombia. Bulletin of the Geological Society of America, 1991, 103, 1622-1647.	3.3	152
17	Effect of land cover and use on dry season river runoff, runoff efficiency, and peak storm runoff in the seasonal tropics of Central Panama. Water Resources Research, 2013, 49, 8443-8462.	4.2	150
18	Radium and barium at GEOSECS stations in the Atlantic and Pacific. Earth and Planetary Science Letters, 1976, 32, 258-267.	4.4	142

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19	Organic Carbon: Oxidation and Transport in the Amazon River. <i>Science</i> , 1980, 207, 1348-1351.	12.6	123
20	How old is the Isthmus of Panama?. <i>Bulletin of Marine Science</i> , 2013, 89, 801-813.	0.8	123
21	ECOLOGICAL DETERMINISM IN PLANT COMMUNITY STRUCTURE ACROSS A TROPICAL FOREST LANDSCAPE. <i>Ecology</i> , 2004, 85, 2526-2538.	3.2	121
22	Distribution and flux of <sup>226</sup> Ra and <sup>228</sup> Ra in the Amazon River estuary. <i>Journal of Geophysical Research</i> , 1985, 90, 6995-7004.	3.3	109
23	Tectonic, Environmental, and Human Aspects of Weathering and Erosion: A Global Review using a Steady-State Perspective. <i>Annual Review of Earth and Planetary Sciences</i> , 1995, 23, 11-39.	11.0	108
24	Germanium and silicon in rivers of the Orinoco drainage basin. <i>Nature</i> , 1990, 344, 749-752.	27.8	105
25	Investigation of in situ weathering of quartz diorite bedrock in the Rio Icacos basin, Luquillo Experimental Forest, Puerto Rico. <i>Chemical Geology</i> , 2003, 202, 313-341.	3.3	100
26	Determination of predevelopment denudation rates of an agricultural watershed (Cayaguã River, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 1998, 160, 723-728.	4.4	97
27	Plankton Metabolism and Carbon Processes in the Amazon River, Its Tributaries, and Floodplain Waters, Peru-Brazil, May-June 1977. <i>Ecology</i> , 1981, 62, 1622-1633.	3.2	90
28	The history of a continent from U <sup>235</sup> -Pb ages of zircons from Orinoco River sand and Sm <sup>147</sup> -Nd isotopes in Orinoco basin river sediments. <i>Chemical Geology</i> , 1997, 139, 271-286.	3.3	90
29	The Status of the Panama Canal Watershed and Its Biodiversity at the Beginning of the 21st Century. <i>BioScience</i> , 2001, 51, 389.	4.9	89
30	Anoxic events, productivity rhythms, and the orbital signature in a Mid-Cretaceous deep-sea sequence from central Italy. <i>Paleoceanography</i> , 1986, 1, 495-506.	3.0	74
31	Overland flow generation in two lithologically distinct rainforest catchments. <i>Journal of Hydrology</i> , 2004, 295, 276-290.	5.4	72
32	River Chemistry, Geology, Geomorphology, and Soils in the Amazon and Orinoco Basins. , 1985, , 293-316.		69
33	An ecosystem report on the Panama Canal: monitoring the status of the forest communities and the watershed. <i>Environmental Monitoring and Assessment</i> , 2002, 80, 65-95.	2.7	67
34	Long-term patterns and short-term dynamics of stream solutes and suspended sediment in a rapidly weathering tropical watershed. <i>Water Resources Research</i> , 2011, 47, .	4.2	66
35	Nutrient chemistry of the water column of Lake Tanganyika. <i>Limnology and Oceanography</i> , 1993, 38, 725-738.	3.1	63
36	Soil Erosion: Data Say C Sink. <i>Science</i> , 2008, 320, 178-179.	12.6	58

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37	Weathering and Erosion in the Humid Tropics. , 1988, , 225-246.		51
38	Water and solute mass balance of five small, relatively undisturbed watersheds in the U.S.. Science of the Total Environment, 2006, 358, 221-242.	8.0	49
39	Weathering processes and the composition of inorganic material transported through the orinoco river system, Venezuela and Colombia. Geoderma, 1991, 51, 133-165.	5.1	47
40	Trace metals and dissolved organic carbon in estuaries and offshore waters of New Jersey, USA. Geochimica Et Cosmochimica Acta, 1991, 55, 3647-3656.	3.9	40
41	Assessing ecological infrastructure investments. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5254-5261.	7.1	40
42	Possible Environmental Factors Underlying Amphibian Decline in Eastern Puerto Rico: Analysis of U.S. Government Data Archives. Conservation Biology, 2001, 15, 943-953.	4.7	38
43	A Unified Assessment of Hydrologic and Biogeochemical Responses in Research Watersheds in Eastern Puerto Rico Using Runoffâ€“Concentration Relations. Aquatic Geochemistry, 2014, 20, 115-139.	1.3	38
44	Hydrothermal Mn-deposits of the Franciscan Assemblage, II. Isotope and trace element geochemistry, and implications for hydrothermal convection at spreading centers. Earth and Planetary Science Letters, 1984, 71, 31-45.	4.4	37
45	Geochemistry and Paleooceanographic Setting of Central Nevada Bedded Barites. Journal of Geology, 1991, 99, 151-170.	1.4	37
46	Identifying storm flow pathways in a rainforest catchment using hydrological and geochemical modelling. Hydrological Processes, 2004, 18, 2851-2875.	2.6	37
47	Reassessing rainfall in the Luquillo Mountains, Puerto Rico: Local and global ecohydrological implications. PLoS ONE, 2017, 12, e0180987.	2.5	36
48	Soil nutrientâ€“landscape relationships in a lowland tropical rainforest in Panama. Forest Ecology and Management, 2008, 255, 1135-1148.	3.2	32
49	MAJOR ELEMENT COMPOSITIONAL VARIATION WITHIN AND BETWEEN DIFFERENT LATE EOCENE MICROTEKTITE STREWNFIELDS. Meteoritics, 1987, 22, 61-79.	1.4	31
50	Crossâ€“channel mixing and its effect on sedimentation in the Orinoco River. Water Resources Research, 1987, 23, 1977-1986.	4.2	30
51	Germanium/silicon fractionation during biogenic opal formation. Paleoceanography, 1988, 3, 461-469.	3.0	29
52	Germanium geochemistry in the Southern California Borderlands. Geochimica Et Cosmochimica Acta, 1989, 53, 2873-2882.	3.9	27
53	Land use effects on ecosystem service provisioning in tropical watersheds, still an important unsolved problem. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E5037.	7.1	24
54	Surface ozone in the South East Atlantic between Dakar and Walvis Bay. Geophysical Research Letters, 1975, 2, 289-292.	4.0	23

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55	Physiographic Controls on the Composition of Sediments Derived from Volcanic and Sedimentary Terrains on Barro Colorado Island, Panama. <i>Journal of Sedimentary Research</i> , 1989, Vol. 59, .	1.6	20
56	The relative roles of environment, history and local dispersal in controlling the distributions of common tree and shrub species in a tropical forest landscape, Panama. <i>Journal of Tropical Ecology</i> , 2006, 22, 575-586.	1.1	20
57	6 Tectonic Processes, Continental Freeboard, and the Rate-controlling Step for Continental Denudation. <i>International Geophysics</i> , 1992, 50, 93-121.	0.6	19
58	Land use history and population dynamics of free-standing figs in a maturing forest. <i>PLoS ONE</i> , 2017, 12, e0177060.	2.5	12
59	The influence of land cover and storm magnitude on hydrologic flowpath activation and runoff generation in steep tropical catchments of central Panama. <i>Journal of Hydrology</i> , 2021, 596, 126138.	5.4	12
60	Land use influences stream bacterial communities in lowland tropical watersheds. <i>Scientific Reports</i> , 2021, 11, 21752.	3.3	10
61	Chemical dynamics of a polluted watershed, the Merrimack River in northern New England. <i>Environmental Science &amp; Technology</i> , 1976, 10, 697-704.	10.0	9
62	The chemical behavior of trace metals and <sup>226</sup> Ra during estuarine mixing in the Mullica River estuary, New Jersey, U.S.A.: A comparison between field observation and equilibrium calculation. <i>Chemical Geology</i> , 1990, 85, 369-381.	3.3	9
63	Experimental evidence on the behavior of metal-bearing colloids in low-salinity estuarine water. <i>Chemical Geology</i> , 1992, 100, 163-174.	3.3	9
64	Precipitation Characteristics and Land Cover Control Wet Season Runoff Source and Rainfall Partitioning in Three Humid Tropical Catchments in Central Panama. <i>Water Resources Research</i> , 2021, 57, e2020WR028058.	4.2	9
65	Applied science facilitates the large-scale expansion of protected areas in an Amazonian hot spot. <i>Science Advances</i> , 2021, 7, .	10.3	8
66	Geolocation of man-made reservoirs across terrains of varying complexity using GIS. <i>Computers and Geosciences</i> , 2008, 34, 1184-1197.	4.2	6
67	Weathering, landscape, and carbon in four paired research watersheds in eastern Puerto Rico. <i>Applied Geochemistry</i> , 2011, 26, S370-S372.	3.0	6
68	Petrology of fluvial sands from the Amazonian foreland basin, Peru and Bolivia: Discussion and reply. <i>Bulletin of the Geological Society of America</i> , 1990, 102, 1727-1730.	3.3	5
69	Metal and nutrient behavior in the Raritan estuary, New Jersey, U.S.A.: The effect of multiple freshwater and industrial waste inputs. <i>Chemical Geology</i> , 1990, 81, 133-149.	3.3	5
70	Historical influence of soil and water management on sediment and carbon budgets in the United States. <i>Applied Geochemistry</i> , 2011, 26, S259.	3.0	4
71	Tectonic Processes and Erosion. <i>International Geophysics</i> , 2000, 72, 195-229.	0.6	3
72	Assessing plot-scale impacts of land use on overland flow generation in Central Panama. <i>Hydrological Processes</i> , 2020, 34, 5043-5069.	2.6	3

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73	Estimation of Landslide Importance in Hillslope Erosion Within the Panama Canal Watershed. , 2005, , 281-295.		3
74	Lutz Creek watershed, Barro Colorado Island, Republic of Panama. Hydrological Processes, 2021, 35, e14157.	2.6	2
75	Agua Salud project experimental catchments hydrometric data, Panama. Hydrological Processes, 2021, 35, e14359.	2.6	1
76	Erosion and sediment yield. , 1978, , 410-416.		0