Robert F Stallard

List of Publications by Year
in descending order

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	Precipitation Characteristics and Land Cover Control Wet Season Runoff Source and Rainfall Partitioning in Three Humid Tropical Catchments in Central Panama. Water Resources Research, 2021, 57, e2020WR028058.	4.2	9
2	Lutz Creek watershed, Barro Colorado Island, Republic of Panama. Hydrological Processes, 2021, 35, e14157.	2.6	2
3	The influence of land cover and storm magnitude on hydrologic flowpath activation and runoff generation in steep tropical catchments of central Panama. Journal of Hydrology, 2021, 596, 126138.	5.4	12
4	Applied science facilitates the large-scale expansion of protected areas in an Amazonian hot spot. Science Advances, 2021, 7, .	10.3	8
5	Agua Salud project experimental catchments hydrometric data, Panama. Hydrological Processes, 2021, 35, e14359.	2.6	1
6	Land use influences stream bacterial communities in lowland tropical watersheds. Scientific Reports, 2021, 11, 21752.	3.3	10
7	Assessing plotâ€scale impacts of land use on overland flow generation in Central Panama. Hydrological Processes, 2020, 34, 5043-5069.	2.6	3
8	Assessing ecological infrastructure investments. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5254-5261.	7.1	40
9	Land use history and population dynamics of free-standing figs in a maturing forest. PLoS ONE, 2017, 12, e0177060.	2.5	12
10	Reassessing rainfall in the Luquillo Mountains, Puerto Rico: Local and global ecohydrological implications. PLoS ONE, 2017, 12, e0180987.	2.5	36
11	Formation of the Isthmus of Panama. Science Advances, 2016, 2, e1600883.	10.3	565
12	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
13	How old is the Isthmus of Panama?. Bulletin of Marine Science, 2013, 89, 801-813.	0.8	123
14	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
15	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
16	Longâ€term patterns and shortâ€term dynamics of stream solutes and suspended sediment in a rapidly weathering tropical watershed. Water Resources Research, 2011, 47, .	4.2	66
17	Weathering, landscape, and carbon in four paired research watersheds in eastern Puerto Rico. Applied Geochemistry, 2011, 26, S370-S372.	3.0	6
18	Historical influence of soil and water management on sediment and carbon budgets in the United States. Applied Geochemistry, 2011, 26, S259.	3.0	4

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19	Geolocation of man-made reservoirs across terrains of varying complexity using GIS. Computers and Geosciences, 2008, 34, 1184-1197.	4.2	6
20	Soil nutrientâ€"landscape relationships in a lowland tropical rainforest in Panama. Forest Ecology and Management, 2008, 255, 1135-1148.	3.2	32
21	Soil Erosion: Data Say C Sink. Science, 2008, 320, 178-179.	12.6	58
22	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
23	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. Journal of Tropical Ecology, 2006, 22, 575-586.	1.1	20
24	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
25	Estimation of Landslide Importance in Hillslope Erosion Within the Panama Canal Watershed. , 2005, , 281-295.		3
26	Identifying storm flow pathways in a rainforest catchment using hydrological and geochemical modelling. Hydrological Processes, 2004, 18, 2851-2875.	2.6	37
27	ECOLOGICAL DETERMINISM IN PLANT COMMUNITY STRUCTURE ACROSS A TROPICAL FOREST LANDSCAPE. Ecology, 2004, 85, 2526-2538.	3.2	121
28	Overland flow generation in two lithologically distinct rainforest catchments. Journal of Hydrology, 2004, 295, 276-290.	5.4	72
29	Investigation of in situ weathering of quartz diorite bedrock in the Rio Icacos basin, Luquillo Experimental Forest, Puerto Rico. Chemical Geology, 2003, 202, 313-341.	3.3	100
30	An ecosystem report on the Panama Canal: monitoring the status of the forest communities and the watershed. Environmental Monitoring and Assessment, 2002, 80, 65-95.	2.7	67
31	The Status of the Panama Canal Watershed and Its Biodiversity at the Beginning of the 21st Century. BioScience, 2001, 51, 389.	4.9	89
32	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
33	Consistent Land- and Atmosphere-Based U.S. Carbon Sink Estimates. Science, 2001, 292, 2316-2320.	12.6	746
34	Tectonic Processes and Erosion. International Geophysics, 2000, 72, 195-229.	0.6	3
35	Terrestrial sedimentation and the carbon cycle: Coupling weathering and erosion to carbon burial. Global Biogeochemical Cycles, 1998, 12, 231-257.	4.9	674
36	Determination of predevelopment denudation rates of an agricultural watershed (CayaguÃ¡s River,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 1998, 160, 723-728.	4.4	97

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37	The history of a continent from Uî—¸Pb ages of zircons from Orinoco River sand and Smî—¸Nd isotopes in Orinoco basin river sediments. Chemical Geology, 1997, 139, 271-286.	3.3	90
38	Denudation rates determined from the accumulation of in situ-produced 10Be in the luquillo experimental forest, Puerto Rico. Earth and Planetary Science Letters, 1995, 129, 193-202.	4.4	473
39	Tectonic, Environmental, and Human Aspects of Weathering and Erosion: A Global Review using a Steady-State Perspective. Annual Review of Earth and Planetary Sciences, 1995, 23, 11-39.	11.0	108
40	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
41	Methane emission by bubbling from Gatun Lake, Panama. Journal of Geophysical Research, 1994, 99, 8307.	3.3	189
42	Nutrient chemistry of the water column of Lake Tanganyika. Limnology and Oceanography, 1993, 38, 725-738.	3.1	63
43	6 Tectonic Processes, Continental Freeboard, and the Rate-controlling Step for Continental Denudation. International Geophysics, 1992, 50, 93-121.	0.6	19
44	Dynamics of Soil Carbon During Deglaciation of the Laurentide Ice Sheet. Science, 1992, 258, 1921-1924.	12.6	198
45	Experimental evidence on the behavior of metal-bearing colloids in low-salinity estuarine water. Chemical Geology, 1992, 100, 163-174.	3.3	9
46	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
47	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
48	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
49	Geochemistry and Paleoceanographic Setting of Central Nevada Bedded Barites. Journal of Geology, 1991, 99, 151-170.	1.4	37
50	Germanium and silicon in rivers of the Orinoco drainage basin. Nature, 1990, 344, 749-752.	27.8	105
51	Petrology of fluvial sands from the Amazonian foreland basin, Peru and Bolivia: Discussion and reply. Bulletin of the Geological Society of America, 1990, 102, 1727-1730.	3.3	5
52	Consumption of atmospheric methane in soils of central Panama: Effects of agricultural development. Global Biogeochemical Cycles, 1990, 4, 21-27.	4.9	184
53	The chemical behavior of trace metals and 226Ra during estuarine mixing in the Mullica River estuary, New Jersey, U.S.A.: A comparison between field observation and equilibrium calculation. Chemical Geology, 1990, 85, 369-381.	3.3	9
54	Metal and nutrient behavior in the Raritan estuary, New Jersey, U.S.A.: The effect of multiple freshwater and industrial waste inputs. Chemical Geology, 1990, 81, 133-149.	3.3	5

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55	Germanium geochemistry in the Southern California Borderlands. Geochimica Et Cosmochimica Acta, 1989, 53, 2873-2882.	3.9	27
56	Physiographic Controls on the Composition of Sediments Derived from Volcanic and Sedimentary Terrains on Barro Colorado Island, Panama. Journal of Sedimentary Research, 1989, Vol. 59, .	1.6	20
57	Germanium/silicon fractionation during biogenic opal formation. Paleoceanography, 1988, 3, 461-469.	3.0	29
58	First-Cycle Quartz Arenites in the Orinoco River Basin, Venezuela and Colombia. Journal of Geology, 1988, 96, 263-277.	1.4	221
59	Weathering and Erosion in the Humid Tropics. , 1988, , 225-246.		51
60	MAJOR ELEMENT COMPOSITIONAL VARIATION WITHIN AND BETWEEN DIFFERENT LATE EOCENE MICROTEKTITE STREWNFIELDS. Meteoritics, 1987, 22, 61-79.	1.4	31
61	Geochemistry of the Amazon: 3. Weathering chemistry and limits to dissolved inputs. Journal of Geophysical Research, 1987, 92, 8293-8302.	3.3	234
62	Crossâ€channel mixing and its effect on sedimentation in the Orinoco River. Water Resources Research, 1987, 23, 1977-1986.	4.2	30
63	Anoxic events, productivity rhythms, and the orbital signature in a Midâ€Cretaceous deepâ€sea sequence from central Italy. Paleoceanography, 1986, 1, 495-506.	3.0	74
64	Dissolution at dislocation etch pits in quartz. Geochimica Et Cosmochimica Acta, 1986, 50, 2349-2361.	3.9	208
65	River Chemistry, Geology, Geomorphology, and Soils in the Amazon and Orinoco Basins. , 1985, , 293-316.		69
66	Distribution and flux of ²²⁶Ra and ²²⁸Ra in the Amazon River estuary. Journal of Geophysical Research, 1985, 90, 6995-7004.	3.3	109
67	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
68	Major ion chemistry of some large Chinese rivers. Nature, 1982, 298, 550-553.	27.8	232
69	Plankton Metabolism and Carbon Processes in the Amazon River, Its Tributaries, and Floodplain Waters, Peru-Brazil, May-June 1977. Ecology, 1981, 62, 1622-1633.	3.2	90
70	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
71	Organic Carbon: Oxidation and Transport in the Amazon River. Science, 1980, 207, 1348-1351.	12.6	123
72	Erosion and sediment yield. , 1978, , 410-416.		0

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73	Chemical dynamics of a polluted watershed, the Merrimack River in northern New England. Environmental Science & Technology, 1976, 10, 697-704.	10.0	9
74	Radium and barium at GEOSECS stations in the Atlantic and Pacific. Earth and Planetary Science Letters, 1976, 32, 258-267.	4.4	142
75	Surface ozone in the South East Atlantic between Dakar and Walvis Bay. Geophysical Research Letters, 1975, 2, 289-292.	4.0	23
76	On the chemical mass-balance in estuaries. Geochimica Et Cosmochimica Acta, 1974, 38, 1719-1728.	3.9	413