

James Kaste

List of Publications by Year in descending order

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37
papers

1,123
citations

393982

19
h-index

395343

33
g-index

37
all docs

37
docs citations

37
times ranked

1329
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Stable and Radioactive Isotopes To Trace Atmospherically Deposited Pb in Montane Forest Soils. <i>Environmental Science & Technology</i> , 2003, 37, 3560-3567.	4.6	125
2	Short-term soil mixing quantified with fallout radionuclides. <i>Geology</i> , 2007, 35, 243.	2.0	111
3	Climate-driven processes of hillslope weathering. <i>Geology</i> , 2009, 37, 975-978.	2.0	104
4	Threshold Increases in Soil Lead and Mercury from Tropospheric Deposition Across an Elevational Gradient. <i>Environmental Science & Technology</i> , 2012, 46, 8061-8068.	4.6	65
5	Spatial and vertical distribution of mercury in upland forest soils across the northeastern United States. <i>Environmental Pollution</i> , 2013, 182, 127-134.	3.7	58
6	Fate and Speciation of Gasoline-Derived Lead in Organic Horizons of the Northeastern USA. <i>Soil Science Society of America Journal</i> , 2006, 70, 1688-1698.	1.2	53
7	Lead Sequestration and Species Redistribution During Soil Organic Matter Decomposition. <i>Environmental Science & Technology</i> , 2008, 42, 3627-3633.	4.6	52
8	Quantifying sediment transport across an undisturbed prairie landscape using cesium-137 and high resolution topography. <i>Geomorphology</i> , 2006, 76, 430-440.	1.1	44
9	Sulfur species behavior in soil organic matter during decomposition. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	41
10	Dissolved and particulate organic carbon fluxes from an agricultural watershed during consecutive tropical storms. <i>Geophysical Research Letters</i> , 2013, 40, 5147-5152.	1.5	33
11	Using atmospheric fallout to date organic horizon layers and quantify metal dynamics during decomposition. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1642-1661.	1.6	32
12	Measurement of ⁷ Be in soils and sediments by gamma spectroscopy. <i>Chemical Geology</i> , 2012, 291, 175-185.	1.4	31
13	Potentially Mobile Lead Fractions in Montane Organic-Rich Soil Horizons. <i>Water, Air, and Soil Pollution</i> , 2005, 167, 139-154.	1.1	30
14	Flow and sediment regimes at tributary junctions on a regulated river: impact on sediment residence time and benthic macroinvertebrate communities. <i>Hydrological Processes</i> , 2009, 23, 284-296.	1.1	29
15	Beryllium-7 in soils and vegetation along an arid precipitation gradient in Owens Valley, California. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	28
16	The use of short-lived radionuclides to quantify transitional bed material transport in a regulated river. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 509-524.	1.2	27
17	Forest floor lead, copper and zinc concentrations across the northeastern United States: Synthesizing spatial and temporal responses. <i>Science of the Total Environment</i> , 2015, 505, 851-859.	3.9	27
18	Quantitative Retention of Atmospherically Deposited Elements by Native Vegetation Is Traced by the Fallout Radionuclides ⁷ Be and ²¹⁰ Pb. <i>Environmental Science & Technology</i> , 2014, 48, 12022-12030.	4.6	25

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19	Incorporation of radiometric tracers in peat and implications for estimating accumulation rates. <i>Science of the Total Environment</i> , 2014, 493, 170-177.	3.9	20
20	Legacy of anthropogenic lead in urban soils: Co-occurrence with metal(loids) and fallout radionuclides, isotopic fingerprinting, and in vitro bioaccessibility. <i>Science of the Total Environment</i> , 2022, 806, 151276.	3.9	20
21	Determining ²³⁴ Th and ²³⁸ U in rocks, soils, and sediments via the doublet gamma at 92.5 keV. <i>Analyst</i> , 2006, 131, 757.	1.7	19
22	Accuracy of methods for reporting inorganic element concentrations and radioactivity in oil and gas wastewaters from the Appalachian Basin, U.S. based on an inter-laboratory comparison. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 224-241.	1.7	18
23	Beryllium-7 as a natural tracer for short-term downwash in peat. <i>Biogeochemistry</i> , 2014, 119, 329-339.	1.7	17
24	Beryllium-7 and lead-210 chronometry of modern soil processes: The Linked Radionuclide Accumulation model, LRC. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 180, 109-125.	1.6	16
25	Estimating total horizontal aeolian flux within shrub-invaded groundwater-dependent meadows using empirical and mechanistic models. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1132-1146.	1.0	13
26	Bomb ¹³⁷ Cs in modern honey reveals a regional soil control on pollutant cycling by plants. <i>Nature Communications</i> , 2021, 12, 1937.	5.8	12
27	Constraining the timescales of sediment sequestration associated with large woody debris using cosmogenic ⁷ Be. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	11
28	Seasonal controls on meteoric ⁷ Be in coarse-grained river channels. <i>Hydrological Processes</i> , 2014, 28, 2738-2748.	1.1	10
29	Asymmetric hillslope erosion following wildfire in Fourmile Canyon, Colorado. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 2009-2021.	1.2	10
30	A high-resolution mill pond record from eastern Virginia (USA) reveals the impact of past landscape changes and regional pollution history. <i>Anthropocene</i> , 2019, 25, 100190.	1.6	10
31	Reconstructing the history of mining and remediation in the Coeur d'Alene, Idaho Mining District using lake sediments. <i>Chemosphere</i> , 2015, 134, 319-327.	4.2	9
32	Determination of sedimentation, diffusion, and mixing rates in coastal sediments of the eastern Red Sea via natural and anthropogenic fallout radionuclides. <i>Marine Pollution Bulletin</i> , 2017, 122, 456-463.	2.3	8
33	Sorption Behavior and Aerosol-Particulate Transitions of ⁷ Be, ¹⁰ Be, and ²¹⁰ Pb: A Basis for Fallout Radionuclide Chronometry. <i>Environmental Science & Technology</i> , 2021, 55, 14957-14967.	4.6	5
34	Tidal erosion and upstream sediment trapping modulate records of land-use change in a formerly glaciated New England estuary. <i>Anthropocene Coasts</i> , 2019, 2, 340-361.	0.6	4
35	Aerosol Populations, Processes, and Ages in Bulk Deposition: Insights From a 9-Year Study of ⁷ Be, ²¹⁰ Pb, Sulfate, and Major/Trace Elements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035612.	1.2	3
36	Sample preparation and digestion considerations for determining metal deposition at small arms ranges. <i>International Journal of Environmental Analytical Chemistry</i> , 2010, 90, 903-921.	1.8	2

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37	Seasonal and Longitudinal Variations in Suspended Load Connectivity Between River Channels and Their Margins. <i>Water Resources Research</i> , 2022, 58, .	1.7	1