

George E Hilley

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,808
citations

172457

29
h-index

175258

52
g-index

58
all docs

58
docs citations

58
times ranked

3741
citing authors

#	ARTICLE	IF	CITATIONS
1	Bridging earthquakes and mountain building in the Santa Cruz Mountains, CA. <i>Science Advances</i> , 2022, 8, eabi6031.	10.3	5
2	Seasonal and Multiyear Changes in CO ₂ Degassing at Mammoth Mountain Explained by Solid-Earth-Driven Fault Valving. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	0
3	The Pamir Frontal Thrust Fault: Holocene Full-Segment Ruptures and Implications for Complex Segment Interactions in a Continental Collision Zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022405.	3.4	6
4	A Curvature-Based Method for Measuring Valley Width Applied to Glacial and Fluvial Landscapes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2020JF005605.	2.8	4
5	Are submarine and subaerial drainages morphologically distinct?. <i>Geology</i> , 2019, 47, 1093-1097.	4.4	5
6	Earth's topographic relief potentially limited by an upper bound on channel steepness. <i>Nature Geoscience</i> , 2019, 12, 828-832.	12.9	35
7	Regional-Scale Detection of Fault Scarps and Other Tectonic Landforms: Examples From Northern California. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 1016-1035.	3.4	8
8	pymccrgb: Color- and curvature-based classification of multispectral point clouds in Python. <i>Journal of Open Source Software</i> , 2019, 4, 1777.	4.6	0
9	Adding a community partner to service learning may elevate learning but not necessarily service. <i>International Journal of Disaster Risk Reduction</i> , 2018, 28, 80-87.	3.9	5
10	Turbidity Current Dynamics: 1. Model Formulation and Identification of Flow Equilibrium Conditions Resulting From Flow Stripping and Overspill. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 501-519.	2.8	4
11	Turbidity Current Dynamics: 2. Simulating Flow Evolution Toward Equilibrium in Idealized Channels. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 520-534.	2.8	8
12	Millennial-scale denudation rates of the Santa Lucia Mountains, California: Implications for landscape evolution in steep, high-relief, coastal mountain ranges. <i>Bulletin of the Geological Society of America</i> , 2018, 130, 1809-1824.	3.3	4
13	Scarplet: A Python package for topographic template matching and diffusion dating. <i>Journal of Open Source Software</i> , 2018, 3, 1066.	4.6	3
14	Large uncertainty in permafrost carbon stocks due to hillslope soil deposits. <i>Geophysical Research Letters</i> , 2017, 44, 6134-6144.	4.0	31
15	Weak bedrock allows north-south elongation of channels in semi-arid landscapes. <i>Earth and Planetary Science Letters</i> , 2017, 478, 150-158.	4.4	8
16	What Do Kinematic Models Imply About the Constitutive Properties of Rocks Deformed in Flat-Ramp-Flat Folds?. <i>Geophysical Research Letters</i> , 2017, 44, 9581-9588.	4.0	3
17	Benchmarking analogue models of brittle thrust wedges. <i>Journal of Structural Geology</i> , 2016, 92, 116-139.	2.3	58
18	Encouraging Earthquake-Resistant Construction: A Randomized Controlled Trial in Nepal. <i>Earthquake Spectra</i> , 2016, 32, 1975-1988.	3.1	2

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19	Rate-weakening friction characterizes both slow sliding and catastrophic failure of landslides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10281-10286.	7.1	80
20	The chemical, mechanical, and hydrological evolution of weathering granitoid. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1410-1435.	2.8	49
21	Lithologic control on the form of soil-mantled hillslopes. <i>Geology</i> , 2015, 43, 83-86.	4.4	37
22	Influence of attenuated lithosphere and sediment loading on flexure of the deep-water Magallanes retroarc foreland basin, Southern Andes. <i>Tectonics</i> , 2014, 33, 2505-2525.	2.8	47
23	Symmetry, randomness, and process in the structure of branched channel networks. <i>Geophysical Research Letters</i> , 2014, 41, 3485-3493.	4.0	24
24	Depth and character of rock weathering across a basaltic-hosted climosequence on Hawai'i. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 381-398.	2.5	41
25	Hillslopes Record the Growth and Decay of Landscapes. <i>Science</i> , 2013, 341, 868-871.	12.6	62
26	Restraining bend tectonics in the Santa Cruz Mountains, California, imaged using ¹⁰ Be concentrations in river sands. <i>Geology</i> , 2013, 41, 843-846.	4.4	22
27	The sensitivity of turbidity currents to mass and momentum exchanges between these underflows and their surroundings. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	22
28	Eddy covariance network design for mapping and quantification of surface CO ₂ leakage fluxes. <i>International Journal of Greenhouse Gas Control</i> , 2012, 7, 137-144.	4.6	10
29	Multitemporal ALSM change detection, sediment delivery, and process mapping at an active earthflow. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 262-272.	2.5	76
30	Eddy covariance imaging of diffuse volcanic CO ₂ emissions at Mammoth Mountain, CA, USA. <i>Bulletin of Volcanology</i> , 2012, 74, 135-141.	3.0	19
31	Erosional control of the kinematics of the Aconcagua fold-and-thrust belt from numerical simulations and physical experiments. <i>Geology</i> , 2011, 39, 439-442.	4.4	8
32	Constraints on the late Quaternary glaciations in Tibet from cosmogenic exposure ages of moraine surfaces. <i>Quaternary Science Reviews</i> , 2011, 30, 528-554.	3.0	109
33	Climatic control of denudation in the deglaciated landscape of the Washington Cascades. <i>Nature Geoscience</i> , 2011, 4, 469-473.	12.9	95
34	Linking chronosequences with the rest of the world: predicting soil phosphorus content in denuding landscapes. <i>Biogeochemistry</i> , 2011, 102, 153-166.	3.5	56
35	Terrestrial source to deep-sea sink sediment budgets at high and low sea levels: Insights from tectonically active Southern California. <i>Geology</i> , 2011, 39, 619-622.	4.4	101
36	Erosion, Geological History, and Indigenous Agriculture: A Tale of Two Valleys. <i>Ecosystems</i> , 2010, 13, 782-793.	3.4	25

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37	A Test of Initiation of Submarine Leveed Channels by Deposition Alone. <i>Journal of Sedimentary Research</i> , 2010, 80, 710-727.	1.6	34
38	Morphologic dating of fault scarps using airborne laser swath mapping (ALSM) data. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	35
39	Fault zone structure from topography: Signatures of en echelon fault slip at Mustang Ridge on the San Andreas Fault, Monterey County, California. <i>Tectonics</i> , 2010, 29, n/a-n/a.	2.8	22
40	Earthquake-cycle deformation and fault slip rates in northern Tibet. <i>Geology</i> , 2009, 37, 31-34.	4.4	45
41	Detection of CO ₂ leakage by eddy covariance during the ZERT project's CO ₂ release experiments. <i>Energy Procedia</i> , 2009, 1, 2301-2306.	1.8	19
42	A framework for predicting global silicate weathering and CO ₂ drawdown rates over geologic time-scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16855-16859.	7.1	95
43	Geomorphic response to uplift along the Dragon's Back pressure ridge, Carrizo Plain, California. <i>Geology</i> , 2008, 36, 367.	4.4	106
44	Deducing Paleoseismic Timing and Recurrence from Paleoseismic Data, Part I: Evaluation of New Bayesian Markov-Chain Monte Carlo Simulation Methods Applied to Excavations with Continuous Peat Growth. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 383-406.	2.3	17
45	Deducing Paleoseismic Timing and Recurrence from Paleoseismic Data, Part II: Analysis of Paleoseismic Excavation Data and Earthquake Behavior along the Central and Southern San Andreas Fault. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 407-439.	2.3	7
46	The relationship between tectonic uplift and chemical weathering rates in the Washington Cascades: Field measurements and model predictions. <i>Numerische Mathematik</i> , 2007, 307, 1041-1063.	1.4	38
47	Chemical weathering, mass loss, and dust inputs across a climate by time matrix in the Hawaiian Islands. <i>Earth and Planetary Science Letters</i> , 2007, 258, 414-427.	4.4	122
48	Major ion chemistry of the Yarlung Tsangpo's Brahmaputra river: Chemical weathering, erosion, and CO ₂ consumption in the southern Tibetan plateau and eastern syntaxis of the Himalaya. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2907-2935.	3.9	161
49	Uplift, Erosion, and Phosphorus Limitation in Terrestrial Ecosystems. <i>Ecosystems</i> , 2007, 10, 159-171.	3.4	161
50	Resolving vertical tectonics in the San Francisco Bay Area from permanent scatterer InSAR and GPS analysis. <i>Geology</i> , 2006, 34, 221.	4.4	175
51	Processes of oscillatory basin filling and excavation in a tectonically active orogen: Quebrada del Toro Basin, NW Argentina. <i>Bulletin of the Geological Society of America</i> , 2005, 117, 887.	3.3	101
52	Dynamics of Slow-Moving Landslides from Permanent Scatterer Analysis. <i>Science</i> , 2004, 304, 1952-1955.	12.6	409
53	Differential structural and geomorphic mountain-front evolution in an active continental collision zone: The northwest Pamir, southern Kyrgyzstan. <i>Bulletin of the Geological Society of America</i> , 2003, 115, 166-181.	3.3	57
54	Average Pleistocene Climatic Patterns in the Southern Central Andes: Controls on Mountain Glaciation and Paleoclimate Implications. <i>Journal of Geology</i> , 2002, 110, 211-226.	1.4	69

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55	Early evolution of an extensional monocline by a propagating normal fault: 3D analysis from combined field study and numerical modeling. <i>Journal of Structural Geology</i> , 2002, 24, 651-669.	2.3	41
56	Interaction between normal faults and fractures and fault scarp morphology. <i>Geophysical Research Letters</i> , 2001, 28, 3777-3780.	4.0	14
57	Inferring Segment Strength Contrasts and Boundaries along Low-Friction Faults Using Surface Offset Data, with an Example from the Cholame-Carrizo Segment Boundary along the San Andreas Fault, Southern California. <i>Bulletin of the Seismological Society of America</i> , 2001, 91, 427-440.	2.3	8