

Douglas Burbank

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1675703/douglas-burbank-publications-by-citations.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124
papers

13,407
citations

57
h-index

115
g-index

127
ext. papers

15,056
ext. citations

8.4
avg, IF

6.11
L-index

#	Paper	IF	Citations
124	The Shuttle Radar Topography Mission. <i>Reviews of Geophysics</i> , 2007 , 45,	23.1	3672
123	Bedrock incision, rock uplift and threshold hillslopes in the northwestern Himalayas. <i>Nature</i> , 1996 , 379, 505-510	50.4	825
122	Decoupling of erosion and precipitation in the Himalayas. <i>Nature</i> , 2003 , 426, 652-5	50.4	429
121	Stratigraphic evidence for an early collision between northwest India and Asia. <i>Nature</i> , 1995 , 373, 55-58	50.4	395
120	Climatic Limits on Landscape Development in the Northwestern Himalaya. <i>Science</i> , 1997 , 276, 571-4	33.3	310
119	Tectonic and lithologic controls on bedrock channel profiles and processes in coastal California. <i>Journal of Geophysical Research</i> , 2004 , 109,		299
118	The growth of northeastern Tibet and its relevance to large-scale continental geodynamics: A review of recent studies. <i>Tectonics</i> , 2013 , 32, 1358-1370	4.3	245
117	Causes of recent Himalayan uplift deduced from deposited patterns in the Ganges basin. <i>Nature</i> , 1992 , 357, 680-683	50.4	219
116	Middle-late Miocene (>10 Ma) formation of the Main Boundary thrust in the western Himalaya. <i>Geology</i> , 1995 , 23, 423	5	213
115	Effects of bedrock landslides on cosmogenically determined erosion rates. <i>Earth and Planetary Science Letters</i> , 2005 , 237, 480-498	5.3	207
114	Slip rate gradients along the eastern Kunlun fault. <i>Tectonics</i> , 2007 , 26, n/a-n/a	4.3	200
113	Interactions of growing folds and coeval depositional systems. <i>Basin Research</i> , 1996 , 8, 199-223	3.2	179
112	A study of the 1999 monsoon rainfall in a mountainous region in central Nepal using TRMM products and rain gauge observations. <i>Geophysical Research Letters</i> , 2000 , 27, 3683-3686	4.9	169
111	Rainfall thresholds for landsliding in the Himalayas of Nepal. <i>Geomorphology</i> , 2004 , 63, 131-143	4.3	168
110	Middle Miocene reorganization of deformation along the northeastern Tibetan Plateau. <i>Geology</i> , 2011 , 39, 359-362	5	161
109	A 900 k.y. record of strath terrace formation during glacial-interglacial transitions in northwest China. <i>Geology</i> , 2003 , 31, 957	5	159
108	Reduced Himalayan sediment production 8 Myr ago despite an intensified monsoon. <i>Nature</i> , 1993 , 364, 48-50	50.4	141

107	Signatures of mountain building: Detrital zircon U/Pb ages from northeastern Tibet. <i>Geology</i> , 2007 , 35, 239	5	140
106	Rift basins and supradetachment basins: intracontinental extensional end-members. <i>Basin Research</i> , 1995 , 7, 109-127	3.2	140
105	Rates of erosion and their implications for exhumation. <i>Mineralogical Magazine</i> , 2002 , 66, 25-52	1.7	131
104	Modern erosion rates in the High Himalayas of Nepal. <i>Earth and Planetary Science Letters</i> , 2008 , 267, 482-494	5.3	130
103	Chronology and tectonic controls of Late Tertiary deposition in the southwestern Tian Shan foreland, NW China. <i>Basin Research</i> , 2007 , 19, 599-632	3.2	126
102	Intermontane-basin development in the past 4 Myr in the north-west Himalaya. <i>Nature</i> , 1982 , 298, 432-436	3.4	122
101	Dominance of tectonics over climate in Himalayan denudation. <i>Geology</i> , 2014 , 42, 243-246	5	120
100	Thrust-fault growth and segment linkage in the active Ostler fault zone, New Zealand. <i>Journal of Structural Geology</i> , 2005 , 27, 1528-1546	3	120
99	The late cenozoic chronologic and stratigraphic development of the Kashmir intermontane basin, Northwestern Himalaya. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1983 , 43, 205-235	2.9	114
98	Impulsive alluviation during early Holocene strengthened monsoons, central Nepal Himalaya. <i>Geology</i> , 2002 , 30, 911	5	108
97	Landscape disequilibrium on 1000-10,000 year scales Marsyandi River, Nepal, central Himalaya. <i>Geomorphology</i> , 2004 , 58, 223-241	4.3	106
96	Age and palaeoclimatic significance of the loess of Lanzhou, north China. <i>Nature</i> , 1985 , 316, 429-431	50.4	105
95	Construction of detrital mineral populations: insights from mixing of U/Pb zircon ages in Himalayan rivers. <i>Basin Research</i> , 2005 , 17, 463-485	3.2	91
94	Coeval hindward- and forward-imbricating thrusting in the south-central Pyrenees, Spain: Timing and rates of shortening and deposition. <i>Bulletin of the Geological Society of America</i> , 1992 , 104, 3-17	3.9	88
93	Temporal constraints and pulsed Late Cenozoic deformation during the structural disruption of the active Kashi foreland, northwest China. <i>Tectonics</i> , 2008 , 27, n/a-n/a	4.3	87
92	U/Pb zircon ages as a sediment mixing tracer in the Nepal Himalaya. <i>Earth and Planetary Science Letters</i> , 2005 , 235, 244-260	5.3	87
91	Dynamic fluvial systems and gravel progradation in the Himalayan foreland. <i>Bulletin of the Geological Society of America</i> , 2000 , 112, 394-412	3.9	87
90	The chronology of the Eocene tectonic and stratigraphic development of the eastern Pyrenean foreland basin, northeast Spain. <i>Bulletin of the Geological Society of America</i> , 1992 , 104, 1101-1120	3.9	87

89	Geomorphic constraints on listric thrust faulting: Implications for active deformation in the Mackenzie Basin, South Island, New Zealand. <i>Journal of Geophysical Research</i> , 2007 , 112,		85
88	Bedrock fracturing, threshold hillslopes, and limits to the magnitude of bedrock landslides. <i>Earth and Planetary Science Letters</i> , 2010 , 297, 577-586	5.3	84
87	Plio-Quaternary exhumation history of the central Nepalese Himalaya: 1. Apatite and zircon fission track and apatite [U-Th]/He analyses. <i>Tectonics</i> , 2007 , 26, n/a-n/a	4.3	82
86	Sequential late Cenozoic structural disruption of the northern Himalayan foredeep. <i>Nature</i> , 1984 , 311, 114-118	50.4	80
85	Channel width response to differential uplift. <i>Journal of Geophysical Research</i> , 2007 , 112,		79
84	Alpine landscape evolution dominated by cirque retreat. <i>Geology</i> , 2005 , 33, 933	5	78
83	The chronology of intermontane-basin development in the northwestern Himalaya and the evolution of the Northwest Syntaxis. <i>Earth and Planetary Science Letters</i> , 1983 , 64, 77-92	5.3	78
82	Depositional and structural evolution of a foreland basin margin in a magnetostratigraphic framework: the eastern Swiss Molasse Basin. <i>International Journal of Earth Sciences</i> , 1999 , 88, 253-275	2.2	77
81	Plio-Quaternary exhumation history of the central Nepalese Himalaya: 2. Thermokinematic and thermochronometer age prediction model. <i>Tectonics</i> , 2007 , 26, n/a-n/a	4.3	76
80	Bedload-to-suspended load ratio and rapid bedrock incision from Himalayan Landslide-dam lake record. <i>Quaternary Research</i> , 2007 , 68, 111-120	1.9	73
79	Climatic controls on hillslope angle and relief in the Himalayas. <i>Geology</i> , 2004 , 32, 629	5	70
78	Thrusting and gravel progradation in foreland basins: A test of post-thrusting gravel dispersal. <i>Geology</i> , 1988 , 16, 1143	5	70
77	Cenozoic shortening budget for the northeastern edge of the Tibetan Plateau: Is lower crustal flow necessary?. <i>Tectonics</i> , 2012 , 31, n/a-n/a	4.3	69
76	Modelling detrital cooling-age populations: insights from two Himalayan catchments. <i>Basin Research</i> , 2003 , 15, 305-320	3.2	69
75	Relative dating of Quaternary moraines, Rongbuk valley, Mount Everest, Tibet: Implications for an ice sheet on the Tibetan Plateau. <i>Quaternary Research</i> , 1991 , 36, 1-18	1.9	63
74	Quantification of growth and lateral propagation of the Kashi anticline, southwest Chinese Tian Shan. <i>Journal of Geophysical Research</i> , 2007 , 112,		62
73	Late Cretaceous ophiolite obduction and Paleocene India-Asia collision in the westernmost Himalaya. <i>Geodinamica Acta</i> , 1996 , 9, 114-144	2	62
72	Late Miocene northward propagation of the northeast Pamir thrust system, northwest China. <i>Tectonics</i> , 2015 , 34, 510-534	4.3	60

71	Ten-million-year history of a thrust sheet. <i>Bulletin of the Geological Society of America</i> , 1996 , 108, 1608-1625	5.25	60
70	Late Cenozoic structural and stratigraphic evolution of the northern Chinese Tian Shan foreland. <i>Basin Research</i> , 2010 , 22, 249-269	3.2	59
69	River response to an active fold-and-thrust belt in a convergent margin setting, North Island, New Zealand. <i>Geomorphology</i> , 2003 , 49, 125-152	4.3	59
68	Lacustrine Sedimentation in a Semiarid Alpine Setting: An Example from Ladakh, Northwestern Himalaya. <i>Quaternary Research</i> , 1989 , 31, 332-350	1.9	58
67	Alluvial sequence in the north piedmont of the Chinese Tian Shan over the past 550kyr and its relationship to climate change. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010 , 285, 343-353	2.9	56
66	Equivalency of geologic and geodetic rates in contractional orogens: New insights from the Pamir Frontal Thrust. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	55
65	Quantifying bedrock-fracture patterns within the shallow subsurface: Implications for rock mass strength, bedrock landslides, and erodibility. <i>Journal of Geophysical Research</i> , 2011 , 116,		54
64	Magnetostratigraphic constraints on relationships between evolution of the central Swiss Molasse basin and Alpine orogenic events. <i>Bulletin of the Geological Society of America</i> , 1997 , 109, 225-241	3.9	54
63	Modern climate and erosion in the Himalaya. <i>Comptes Rendus - Geoscience</i> , 2012 , 344, 610-626	1.4	52
62	Chronology of glaciations in the Sierra Nevada, California, from ¹⁰ Be surface exposure dating. <i>Quaternary Science Reviews</i> , 2011 , 30, 646-661	3.9	50
61	Bedrock channel geometry along an orographic rainfall gradient in the upper Marsyandi River valley in central Nepal. <i>Journal of Geophysical Research</i> , 2007 , 112,		50
60	Temporal variations in slip rate of the White Mountain Fault Zone, Eastern California. <i>Earth and Planetary Science Letters</i> , 2006 , 248, 168-185	5.3	49
59	Growth of the South Pyrenean orogenic wedge. <i>Tectonics</i> , 1997 , 16, 239-258	4.3	47
58	Unfolding: An inverse approach to fold kinematics. <i>Geology</i> , 1996 , 24, 175	5	47
57	An automated knickzone selection algorithm (KZ-Picker) to analyze transient landscapes: Calibration and validation. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017 , 122, 1236-1261	3.8	46
56	Frequency-dependent landscape response to climatic forcing. <i>Geophysical Research Letters</i> , 2013 , 40, 859-863	4.9	46
55	A Chronology of Late Holocene Glacier Fluctuations on Mount Rainier, Washington. <i>Arctic and Alpine Research</i> , 1981 , 13, 369		43
54	Fluvial bevelling of topography controlled by lateral channel mobility and uplift rate. <i>Nature Geoscience</i> , 2016 , 9, 706-710	18.3	43

53	Spatial variations in chemical weathering and CO ₂ consumption in Nepalese High Himalayan catchments during the monsoon season. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 3148-3170	5.5	41
52	The stratigraphic evolution of the El Paso basin, southern California: Implications for the Miocene development of the Garlock fault and uplift of the Sierra Nevada. <i>Bulletin of the Geological Society of America</i> , 1988 , 100, 12-28	3.9	41
51	The magnetostratigraphy, fission-track dating, and stratigraphic evolution of the Peshawar intermontane basin, northern Pakistan. <i>Bulletin of the Geological Society of America</i> , 1985 , 96, 539	3.9	40
50	Quantification of three-dimensional folding using fluvial terraces: A case study from the Mushi anticline, northern margin of the Chinese Pamir. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 4628-4647	3.6	39
49	Quantified vertical motions and tectonic evolution of the SE Pyrenean foreland basin. <i>Geological Society Special Publication</i> , 1998 , 134, 107-134	1.7	38
48	Quaternary tectonic evolution of the Pamir-Tian Shan convergence zone, Northwest China. <i>Tectonics</i> , 2017 , 36, 2748-2776	4.3	35
47	Models of aggradation versus progradation in the Himalayan Foreland. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1991 , 80, 623-638		34
46	Transient landscape evolution of basement-cored uplifts: Example of the Kyrgyz Range, Tian Shan. <i>Journal of Geophysical Research</i> , 2007 , 112,		33
45	Topographic control of asynchronous glacial advances: A case study from Annapurna, Nepal. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	32
44	Rapid, long-term rates of denudation. <i>Geology</i> , 1991 , 19, 1169	5	32
43	Late quaternary snowline reconstructions for the southern and central Sierra Nevada, California and a reassessment of the Becess Peak Glaciation. <i>Quaternary Research</i> , 1991 , 36, 294-306	1.9	32
42	Temporally constrained tectonic rotations derived from magnetostratigraphic data: Implications for the initiation of the Garlock fault, California. <i>Geology</i> , 1987 , 15, 1172	5	32
41	Pluton pinning of an active Miocene detachment fault system, eastern Mojave Desert, California. <i>Geology</i> , 1993 , 21, 627	5	31
40	Organic carbon exhumation and global warming during the early Himalayan collision. <i>Geology</i> , 1995 , 23, 387	5	31
39	Along-strike growth of the Ostler fault, New Zealand: Consequences for drainage deflection above active thrusts. <i>Tectonics</i> , 2010 , 29, n/a-n/a	4.3	30
38	Geomorphic and climatic controls on chemical weathering in the High Himalayas of Nepal. <i>Geomorphology</i> , 2010 , 122, 205-210	4.3	30
37	Miocene biostratigraphy and biochronology of the Dove Spring Formation, Mojave Desert, California, and characterization of the Clarendonian mammal age (late Miocene) in California. <i>Bulletin of the Geological Society of America</i> , 1992 , 104, 644-658	3.9	30
36	Braided stream and flood-plain deposition in a rapidly aggrading basin: the Escanilla formation, Spanish Pyrenees. <i>Geological Society Special Publication</i> , 1993 , 75, 177-194	1.7	28

35	Mio-Pliocene aridity in the south-central Andes associated with Southern Hemisphere cold periods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6474-6479	11.5	27
34	Correlations of Climate, Mass Balances, and Glacial Fluctuations at Mount Rainer, Washington, U.S.A., Since 1850. <i>Arctic and Alpine Research</i> , 1982 , 14, 137		26
33	Spatiotemporal patterns of fault slip rates across the Central Sierra Nevada frontal fault zone. <i>Earth and Planetary Science Letters</i> , 2011 , 301, 457-468	5.3	25
32	Anomalous cosmogenic ³ He production and elevation scaling in the high Himalaya. <i>Earth and Planetary Science Letters</i> , 2008 , 265, 287-301	5.3	25
31	Hinge-migrated fold-scarp model based on an analysis of bed geometry: A study from the Mingyaole anticline, southern foreland of Chinese Tian Shan. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 6592-6613	3.6	24
30	Coarse- versus fine-grain quartz OSL and cosmogenic ¹⁰ Be dating of deformed fluvial terraces on the northeast Pamir margin, northwest China. <i>Quaternary Geochronology</i> , 2018 , 46, 1-15	2.7	23
29	Constraints on the late Quaternary glacial history of the Inylchek and Sary-Dzaz valleys from in situ cosmogenic ¹⁰ Be and ²⁶ Al, eastern Kyrgyz Tian Shan. <i>Quaternary Science Reviews</i> , 2014 , 101, 77-90	3.9	23
28	Magnetostratigraphic Chronology of Cretaceous-to-Eocene Thrust Belt Evolution, Central Utah, USA. <i>Journal of Geology</i> , 1994 , 102, 181-196	2	22
27	The magnetostratigraphy of Barstovian mammals in southwestern Montana and implications for the initiation of Neogene crustal extension in the northern Rocky Mountains. <i>Bulletin of the Geological Society of America</i> , 1990 , 102, 1093-1104	3.9	21
26	Temporal changes in rock uplift rates of folds in the foreland of the Tian Shan and the Pamir from geodetic and geologic data. <i>Geophysical Research Letters</i> , 2017 , 44, 10,977	4.9	20
25	Uplift and thermal history of the Teton Range (northwestern Wyoming) defined by apatite fission-track dating. <i>Earth and Planetary Science Letters</i> , 1993 , 118, 295-309	5.3	20
24	Three-dimensional GPR imaging of the Benmore anticline and step-over of the Ostler Fault, South Island, New Zealand. <i>Geophysical Journal International</i> , 2010 , 180, 465-474	2.6	19
23	Sedimentary sequences, seismofacies and evolution of depositional systems of the Oligo/Miocene Lower Freshwater Molasse Group, Switzerland. <i>Basin Research</i> , 1997 , 9, 1-26	3.2	19
22	Thermal and kinematic modeling of bedrock and detrital cooling ages in the central Himalaya. <i>Journal of Geophysical Research</i> , 2006 , 111,		19
21	Basin width control of faulting in the Naryn Basin, south-central Kyrgyzstan. <i>Tectonics</i> , 2011 , 30, n/a-n/a	4.3	18
20	Controls on intermontane basin filling, isolation and incision on the margin of the Puna Plateau, NW Argentina (~23°S). <i>Basin Research</i> , 2017 , 29, 131-155	3.2	16
19	U-Pb ages of detrital and volcanic zircons of the Toro Negro Formation, northwestern Argentina: Age, provenance and sedimentation rates. <i>Journal of South American Earth Sciences</i> , 2016 , 70, 237-250	2	16
18	Variations of Lateral Bedrock Erosion Rates Control Planation of Uplifting Folds in the Foreland of the Tian Shan, NW China. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017 , 122, 2431-2467	3.8	16

17	Dating growth strata and basin fill by combining $^{26}\text{Al}/^{10}\text{Be}$ burial dating and magnetostratigraphy: Constraining active deformation in the Pamir-Tian Shan convergence zone, NW China. <i>Lithosphere</i> , 2018 , 10, 806-828	2.7	15
16	Numerical study of degradation of fluvial hanging valleys due to climate change. <i>Journal of Geophysical Research</i> , 2009 , 114,		14
15	Active Bending-Moment Faulting: Geomorphic Expression, Controlling Conditions, Accommodation of Fold Deformation. <i>Tectonics</i> , 2018 , 37, 2278-2306	4.3	14
14	Active flexural-slip faulting: A study from the Pamir-Tian Shan convergent zone, NW China. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 4359-4378	3.6	13
13	Rates and timing of vertical-axis block rotations across the central Sierra Nevada-Walker Lane transition in the Bodie Hills, California/Nevada. <i>Tectonics</i> , 2011 , 30, n/a-n/a	4.3	13
12	Along-Strike and Downdip Segmentation of the Pamir Frontal Thrust and Its Association With the 1985 Mw 6.9 Wuqia Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 9890-9919	3.6	12
11	Controls on the lateral channel-migration rate of braided channel systems in coarse non-cohesive sediment. <i>Earth Surface Processes and Landforms</i> , 2019 , 44, 2823-2836	3.7	12
10	Pliocene-Pleistocene initiation, style, and sequencing of deformation in the central Tien Shan. <i>Tectonics</i> , 2014 , 33, 464-484	4.3	11
9	Evaluating hillslope diffusion and terrace riser degradation in New Zealand and Idaho. <i>Journal of Geophysical Research</i> , 2010 , 115,		11
8	Active Flexural-Slip Faulting: Controls Exerted by Stratigraphy, Geometry, and Fold Kinematics. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 8538-8565	3.6	10
7	Kinematic implications of consequent channels on growing folds. <i>Journal of Geophysical Research</i> , 2011 , 116,		7
6	Relationship of channel steepness to channel incision rate from a tilted and progressively exposed unconformity surface. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014 , 119, 366-384	3.8	4
5	Bedrock Control on Glacial Limits: Examples from the Ladakh and Zaskar Ranges, North-Western Himalaya, India. <i>Journal of Glaciology</i> , 1985 , 31, 143-149	3.4	4
4	Tectonic Geomorphology, Second Edition. <i>Environmental and Engineering Geoscience</i> , 2013 , 19, 198-200	0.7	3
3	Single-Crystal Dating and the Detrital Record of Orogenesis		253-281 3
2	Comment and Reply on "Thrusting and gravel progradation in foreland basins: A test of post-thrusting gravel dispersal". <i>Geology</i> , 1989 , 17, 959	5	3
1	Comment and Reply on "Development of the Himalayan frontal thrust zone: Salt Range, Pakistan". <i>Geology</i> , 1989 , 17, 378	5	2