

Douglas Burbank

List of Publications by Year in descending order

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126
papers

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14259
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#	ARTICLE	IF	CITATIONS
1	Along-Strike and Down-dip 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.	3.4	18
2	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.	2.5	31
3	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.	1.4	31
4	Dating growth strata and basin fill by combining ²⁶ Al/ ¹⁰ Be burial dating and magnetostratigraphy: Constraining active deformation in the Pamir-Tian Shan convergence zone, NW China. <i>Lithosphere</i> , 2018, 10, 806-828.	1.4	22
5	Active Bending-Moment Faulting: Geomorphic Expression, Controlling Conditions, Accommodation of Fold Deformation. <i>Tectonics</i> , 2018, 37, 2278-2306.	2.8	23
6	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.	2.7	26
7	An automated knickzone selection algorithm (KZPicker) to analyze transient landscapes: Calibration and validation. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1236-1261.	2.8	60
8	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.	4.0	25
9	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.	7.1	39
10	Active Flexural-Slip Faulting: Controls Exerted by Stratigraphy, Geometry, and Fold Kinematics. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8538-8565.	3.4	18
11	Quaternary tectonic evolution of the Pamir-Tian Shan convergence zone, Northwest China. <i>Tectonics</i> , 2017, 36, 2748-2776.	2.8	43
12	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.	2.8	22
13	Fluvial bevelling of topography controlled by lateral channel mobility and uplift rate. <i>Nature Geoscience</i> , 2016, 9, 706-710.	12.9	62
14	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.	1.4	29
15	Hinge-migrated fold-scarp model based on an analysis of bed geometry: A study from the Mingyao anticline, southern foreland of Chinese Tian Shan. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 6592-6613.	3.4	28
16	Late Miocene northward propagation of the northeast Pamir thrust system, northwest China. <i>Tectonics</i> , 2015, 34, 510-534.	2.8	77
17	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.	3.4	15
18	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.	2.8	7

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19	Dominance of tectonics over climate in Himalayan denudation. <i>Geology</i> , 2014, 42, 243-246.	4.4	161
20	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.	3.0	33
21	Pliocene–Pleistocene initiation, style, and sequencing of deformation in the central Tien Shan. <i>Tectonics</i> , 2014, 33, 464-484.	2.8	21
22	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.	2.8	350
23	Frequency-dependent landscape response to climatic forcing. <i>Geophysical Research Letters</i> , 2013, 40, 859-863.	4.0	61
24	Tectonic Geomorphology, Second Edition. <i>Environmental and Engineering Geoscience</i> , 2013, 19, 198-200.	0.9	8
25	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.	3.4	45
26	Cenozoic shortening budget for the northeastern edge of the Tibetan Plateau: Is lower crustal flow necessary?. <i>Tectonics</i> , 2012, 31, .	2.8	86
27	Modern climate and erosion in the Himalaya. <i>Comptes Rendus - Geoscience</i> , 2012, 344, 610-626.	1.2	64
28	Equivalency of geologic and geodetic rates in contractional orogens: New insights from the Pamir Frontal Thrust. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	61
29	Kinematic implications of consequent channels on growing folds. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	8
30	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, .	2.8	14
31	Topographic control of asynchronous glacial advances: A case study from Annapurna, Nepal. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	38
32	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, .	3.3	71
33	Basin width control of faulting in the Naryn Basin, south-central Kyrgyzstan. <i>Tectonics</i> , 2011, 30, .	2.8	23
34	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.	4.4	32
35	Chronology of glaciations in the Sierra Nevada, California, from ^{10}Be surface exposure dating. <i>Quaternary Science Reviews</i> , 2011, 30, 646-661.	3.0	63
36	Middle Miocene reorganization of deformation along the northeastern Tibetan Plateau. <i>Geology</i> , 2011, 39, 359-362.	4.4	218

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37	Late Cenozoic structural and stratigraphic evolution of the northern Chinese Tian Shan foreland. Basin Research, 2010, 22, 249-269.	2.7	76
38	Three-dimensional GPR imaging of the Benmore anticline and step-over of the Ostler Fault, South Island, New Zealand. Geophysical Journal International, 2010, 180, 465-474.	2.4	23
39	Evaluating hillslope diffusion and terrace riser degradation in New Zealand and Idaho. Journal of Geophysical Research, 2010, 115, .	3.3	14
40	Along-strike growth of the Ostler fault, New Zealand: Consequences for drainage deflection above active thrusts. Tectonics, 2010, 29, n/a-n/a.	2.8	38
41	Geomorphic and climatic controls on chemical weathering in the High Himalayas of Nepal. Geomorphology, 2010, 122, 205-210.	2.6	36
42	Bedrock fracturing, threshold hillslopes, and limits to the magnitude of bedrock landslides. Earth and Planetary Science Letters, 2010, 297, 577-586.	4.4	112
43	Alluvial sequence in the north piedmont of the Chinese Tian Shan over the past 550kyr and its relationship to climate change. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 285, 343-353.	2.3	65
44	Spatial variations in chemical weathering and CO ₂ consumption in Nepalese High Himalayan catchments during the monsoon season. Geochimica Et Cosmochimica Acta, 2009, 73, 3148-3170.	3.9	55
45	Numerical study of degradation of fluvial hanging valleys due to climate change. Journal of Geophysical Research, 2009, 114, .	3.3	18
46	Temporal constraints and pulsed Late Cenozoic deformation during the structural disruption of the active Kashi foreland, northwest China. Tectonics, 2008, 27, .	2.8	100
47	Anomalous cosmogenic ³ He production and elevation scaling in the high Himalaya. Earth and Planetary Science Letters, 2008, 265, 287-301.	4.4	28
48	Modern erosion rates in the High Himalayas of Nepal. Earth and Planetary Science Letters, 2008, 267, 482-494.	4.4	159
49	Signatures of mountain building: Detrital zircon U/Pb ages from northeastern Tibet. Geology, 2007, 35, 239.	4.4	169
50	Plio-Quaternary exhumation history of the central Nepalese Himalaya: 2. Thermokinematic and thermochronometer age prediction model. Tectonics, 2007, 26, n/a-n/a.	2.8	93
51	Slip rate gradients along the eastern Kunlun fault. Tectonics, 2007, 26, n/a-n/a.	2.8	249
52	The Shuttle Radar Topography Mission. Reviews of Geophysics, 2007, 45, .	23.0	5,113
53	Geomorphic constraints on listric thrust faulting: Implications for active deformation in the Mackenzie Basin, South Island, New Zealand. Journal of Geophysical Research, 2007, 112, .	3.3	109
54	Quantification of growth and lateral propagation of the Kashi anticline, southwest Chinese Tian Shan. Journal of Geophysical Research, 2007, 112, .	3.3	69

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55	Transient landscape evolution of basement-cored uplifts: Example of the Kyrgyz Range, Tian Shan. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	40
56	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, .	3.3	57
57	Channel width response to differential uplift. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	90
58	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.	2.8	95
59	Chronology and tectonic controls of Late Tertiary deposition in the southwestern Tian Shan foreland, NW China. <i>Basin Research</i> , 2007, 19, 599-632.	2.7	141
60	Bedload-to-suspended load ratio and rapid bedrock incision from Himalayan Landslide-dam lake record. <i>Quaternary Research</i> , 2007, 68, 111-120.	1.7	86
61	Thermal and kinematic modeling of bedrock and detrital cooling ages in the central Himalaya. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	22
62	Temporal variations in slip rate of the White Mountain Fault Zone, Eastern California. <i>Earth and Planetary Science Letters</i> , 2006, 248, 168-185.	4.4	54
63	Construction of detrital mineral populations: insights from mixing of U-Pb zircon ages in Himalayan rivers. <i>Basin Research</i> , 2005, 17, 463-485.	2.7	107
64	Cracking the Himalaya. <i>Nature</i> , 2005, 434, 963-964.	27.8	22
65	Thrust-fault growth and segment linkage in the active Ostler fault zone, New Zealand. <i>Journal of Structural Geology</i> , 2005, 27, 1528-1546.	2.3	144
66	Alpine landscape evolution dominated by cirque retreat. <i>Geology</i> , 2005, 33, 933.	4.4	94
67	U-Pb zircon ages as a sediment mixing tracer in the Nepal Himalaya. <i>Earth and Planetary Science Letters</i> , 2005, 235, 244-260.	4.4	114
68	Effects of bedrock landslides on cosmogenically determined erosion rates. <i>Earth and Planetary Science Letters</i> , 2005, 237, 480-498.	4.4	242
69	Climatic controls on hillslope angle and relief in the Himalayas. <i>Geology</i> , 2004, 32, 629.	4.4	81
70	Tectonic and lithologic controls on bedrock channel profiles and processes in coastal California. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	359
71	Landscape disequilibrium on 1000-10,000 year scales Marsyandi River, Nepal, central Himalaya. <i>Geomorphology</i> , 2004, 58, 223-241.	2.6	125
72	Rainfall thresholds for landsliding in the Himalayas of Nepal. <i>Geomorphology</i> , 2004, 63, 131-143.	2.6	209

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73	Modelling detrital cooling-age populations: insights from two Himalayan catchments. <i>Basin Research</i> , 2003, 15, 305-320.	2.7	80
74	Decoupling of erosion and precipitation in the Himalayas. <i>Nature</i> , 2003, 426, 652-655.	27.8	497
75	A 900 k.y. record of strath terrace formation during glacial-interglacial transitions in northwest China. <i>Geology</i> , 2003, 31, 957.	4.4	191
76	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.	2.6	74
77	Rates of erosion and their implications for exhumation. <i>Mineralogical Magazine</i> , 2002, 66, 25-52.	1.4	158
78	Impulsive alluviation during early Holocene strengthened monsoons, central Nepal Himalaya. <i>Geology</i> , 2002, 30, 911.	4.4	128
79	Dynamic fluvial systems and gravel progradation in the Himalayan foreland. <i>Bulletin of the Geological Society of America</i> , 2000, 112, 394-412.	3.3	111
80	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.	4.0	214
81	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.	1.8	82
82	Quantified vertical motions and tectonic evolution of the SE Pyrenean foreland basin. <i>Geological Society Special Publication</i> , 1998, 134, 107-134.	1.3	57
83	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.	3.3	68
84	Growth of the South Pyrenean orogenic wedge. <i>Tectonics</i> , 1997, 16, 239-258.	2.8	64
85	Climatic Limits on Landscape Development in the Northwestern Himalaya. <i>Science</i> , 1997, 276, 571-574.	12.6	371
86	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.	2.7	22
87	Unfolding: An inverse approach to fold kinematics. <i>Geology</i> , 1996, 24, 175.	4.4	67
88	Late Cretaceous ophiolite obduction and Paleocene India-Asia collision in the westernmost Himalaya. <i>Geodinamica Acta</i> , 1996, 9, 114-144.	2.2	79
89	Ten-million-year history of a thrust sheet. <i>Bulletin of the Geological Society of America</i> , 1996, 108, 1608-1625.	3.3	70
90	Interactions of growing folds and coeval depositional systems. <i>Basin Research</i> , 1996, 8, 199-223.	2.7	213

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91	Bedrock incision, rock uplift and threshold hillslopes in the northwestern Himalayas. <i>Nature</i> , 1996, 379, 505-510.	27.8	986
92	Organic carbon exhumation and global warming during the early Himalayan collision. <i>Geology</i> , 1995, 23, 387.	4.4	44
93	Rift basins and supradetachment basins: intracontinental extensional endmembers. <i>Basin Research</i> , 1995, 7, 109-127.	2.7	173
94	Stratigraphic evidence for an early collision between northwest India and Asia. <i>Nature</i> , 1995, 373, 55-58.	27.8	459
95	Middle-late Miocene (>10 Ma) formation of the Main Boundary thrust in the western Himalaya. <i>Geology</i> , 1995, 23, 423.	4.4	254
96	Magnetostratigraphic Chronology of Cretaceous-to-Eocene Thrust Belt Evolution, Central Utah, USA. <i>Journal of Geology</i> , 1994, 102, 181-196.	1.4	24
97	Reduced Himalayan sediment production 8 Myr ago despite an intensified monsoon. <i>Nature</i> , 1993, 364, 48-50.	27.8	154
98	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.	4.4	31
99	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.	1.3	51
100	Pluton pinning of an active Miocene detachment fault system, eastern Mojave Desert, California. <i>Geology</i> , 1993, 21, 627.	4.4	35
101	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.	3.3	108
102	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.	3.3	110
103	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.	3.3	36
104	Causes of recent Himalayan uplift deduced from deposited patterns in the Ganges basin. <i>Nature</i> , 1992, 357, 680-683.	27.8	251
105	Characteristic size of relief. <i>Nature</i> , 1992, 359, 483-484.	27.8	23
106	Rapid, long-term rates of denudation. <i>Geology</i> , 1991, 19, 1169.	4.4	44
107	Late quaternary snowline reconstructions for the southern and central Sierra Nevada, California and a reassessment of the "Recess Peak Glaciation". <i>Quaternary Research</i> , 1991, 36, 294-306.	1.7	32
108	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.	1.7	67

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109	Models of aggradation versus progradation in the Himalayan Foreland. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1991, 80, 623-638.	1.3	41
110	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.	3.3	23
111	Comment and Reply on "Development of the Himalayan frontal thrust zone: Salt Range, Pakistan". <i>Geology</i> , 1989, 17, 378.	4.4	2
112	Lacustrine Sedimentation in a Semiarid Alpine Setting: An Example from Ladakh, Northwestern Himalaya. <i>Quaternary Research</i> , 1989, 31, 332-350.	1.7	66
113	Comment and Reply on "Thrusting and gravel progradation in foreland basins: A test of post-thrusting gravel dispersal". <i>Geology</i> , 1989, 17, 959.	4.4	5
114	Thrusting and gravel progradation in foreland basins: A test of post-thrusting gravel dispersal. <i>Geology</i> , 1988, 16, 1143.	4.4	92
115	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.	3.3	55
116	Temporally constrained tectonic rotations derived from magnetostratigraphic data: Implications for the initiation of the Garlock fault, California. <i>Geology</i> , 1987, 15, 1172.	4.4	37
117	Age and palaeoclimatic significance of the loess of Lanzhou, north China. <i>Nature</i> , 1985, 316, 429-431.	27.8	119
118	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.	3.3	50
119	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.	2.2	11
120	Sequential late Cenozoic structural disruption of the northern Himalayan foredeep. <i>Nature</i> , 1984, 311, 114-118.	27.8	89
121	The late cenozoic chronologic and stratigraphic development of the Kashmir intermontane basin, Northwestern Himalaya. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1983, 43, 205-235.	2.3	139
122	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.	4.4	87
123	Correlations of Climate, Mass Balances, and Glacial Fluctuations at Mount Rainier, Washington, U.S.A., Since 1850. <i>Arctic and Alpine Research</i> , 1982, 14, 137.	1.3	28
124	Intermontane-basin development in the past 4 Myr in the north-west Himalaya. <i>Nature</i> , 1982, 298, 432-436.	27.8	143
125	A Chronology of Late Holocene Glacier Fluctuations on Mount Rainier, Washington. <i>Arctic and Alpine Research</i> , 1981, 13, 369.	1.3	56
126	Single-Crystal Dating and the Detrital Record of Orogenesis. , 0, , 253-281.		8