

Rebecca Bendick

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,561
citations

218677

26
h-index

197818

49
g-index

62
all docs

62
docs citations

62
times ranked

2283
citing authors

#	ARTICLE	IF	CITATIONS
1	Geodetic evidence for a low slip rate in the Altyn Tagh fault system. <i>Nature</i> , 2000, 404, 69-72.	27.8	227
2	Slip rates of the Karakorum fault, Ladakh, India, determined using cosmic ray exposure dating of debris flows and moraines. <i>Journal of Geophysical Research</i> , 2002, 107, ESE 7-1-ESE 7-13.	3.3	162
3	GPS measurements from the Ladakh Himalaya, India: Preliminary tests of plate-like or continuous deformation in Tibet. <i>Bulletin of the Geological Society of America</i> , 2004, 116, 1385-1391.	3.3	147
4	Kinematics of the southern Red Sea—Afar Triple Junction and implications for plate dynamics. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	132
5	Secular and tidal strain across the Main Ethiopian Rift. <i>Geophysical Research Letters</i> , 1999, 26, 2789-2792.	4.0	131
6	Partitioning of India—Eurasia convergence in the Pamir—Hindu Kush from GPS measurements. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	110
7	Kinematics of the Pamir and Hindu Kush regions from GPS geodesy. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2408-2416.	3.4	109
8	Velocity field across the Southern Caribbean Plate Boundary and estimates of Caribbean/South-American Plate Motion using GPS Geodesy 1994-2000. <i>Geophysical Research Letters</i> , 2001, 28, 2987-2990.	4.0	103
9	Lithospheric strength and strain localization in continental extension from observations of the East African Rift. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	87
10	The 26 January 2001 "Republic Day" Earthquake, India. <i>Seismological Research Letters</i> , 2001, 72, 328-335.	1.9	81
11	Implications for elastic energy storage in the Himalaya from the Gorkha 2015 earthquake and other incomplete ruptures of the Main Himalayan Thrust. <i>Quaternary International</i> , 2017, 462, 3-21.	1.5	80
12	Himalayan strain reservoir inferred from limited afterslip following the Gorkha earthquake. <i>Nature Geoscience</i> , 2016, 9, 533-537.	12.9	79
13	Distributed Nubia-Somalia relative motion and dike intrusion in the Main Ethiopian Rift. <i>Geophysical Journal International</i> , 2006, 165, 303-310.	2.4	77
14	How perfect is the Himalayan arc?. <i>Geology</i> , 2001, 29, 791.	4.4	76
15	Reconciling lithospheric deformation and lower crustal flow beneath central Tibet. <i>Geology</i> , 2007, 35, 895.	4.4	74
16	Flexure of the Indian plate and intraplate earthquakes. <i>Journal of Earth System Science</i> , 2003, 112, 315-329.	1.3	62
17	Extreme localized exhumation at syntaxes initiated by subduction geometry. <i>Geophysical Research Letters</i> , 2014, 41, 5861-5867.	4.0	59
18	Slip on an active wedge thrust from geodetic observations of the 8 October 2005 Kashmir earthquake. <i>Geology</i> , 2007, 35, 267.	4.4	57

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19	A Quaternary fault database for central Asia. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 529-542.	3.6	53
20	Early Holocene climate recorded in geomorphological features in Western Tibet. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2003, 199, 141-151.	2.3	46
21	Why subduction zones are curved. <i>Tectonics</i> , 2010, 29, n/a-n/a.	2.8	46
22	Do weak global stresses synchronize earthquakes?. <i>Geophysical Research Letters</i> , 2017, 44, 8320-8327.	4.0	42
23	Frequencyâ€“magnitude distribution of debris flows compiled from global data, and comparison with post-fire debris flows in the western U.S.. <i>Geomorphology</i> , 2013, 191, 118-128.	2.6	41
24	GPS constraints on broad scale extension in the Ethiopian Highlands and Main Ethiopian Rift. <i>Geophysical Research Letters</i> , 2016, 43, 6844-6851.	4.0	41
25	Monsoonal loading in Ethiopia and Eritrea from vertical GPS displacement time series. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7231-7238.	3.4	36
26	The 2015 M _w 7.2 Sarez Strikeâ€“Slip Earthquake in the Pamir Interior: Response to the Underthrusting of India's Western Promontory. <i>Tectonics</i> , 2017, 36, 2407-2421.	2.8	34
27	Downscaling Vertical GPS Observations to Derive Watershedâ€“Scale Hydrologic Loading in the Northern Rockies. <i>Water Resources Research</i> , 2019, 55, 391-401.	4.2	30
28	Little Geodetic Evidence for Localized Indian Subduction in the Pamirâ€“Hindu Kush of Central Asia. <i>Geophysical Research Letters</i> , 2019, 46, 109-118.	4.0	26
29	Accommodation of East African Rifting Across the Turkana Depression. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018469.	3.4	25
30	The relationship between surface kinematics and deformation of the whole lithosphere. <i>Geology</i> , 2012, 40, 711-714.	4.4	24
31	Review of GPS and Quaternary fault slip rates in the Himalaya-Tibet orogen. <i>Earth-Science Reviews</i> , 2017, 174, 39-52.	9.1	24
32	Dynamic models for metamorphic core complex formation and scaling: The role of unchanneled collapse of thickened continental crust. <i>Tectonophysics</i> , 2009, 477, 93-101.	2.2	23
33	Topography associated with crustal flow in continental collisions, with application to Tibet. <i>Geophysical Journal International</i> , 2008, 175, 375-385.	2.4	21
34	Seismic Moments of Intermediateâ€“Depth Earthquakes Beneath the Hindu Kush: Active Stretching of a Blob of Sinking Thickened Mantle Lithosphere?. <i>Tectonics</i> , 2019, 38, 1651-1665.	2.8	18
35	Dense GNSS Profiles Across the Northwestern Tip of the Indiaâ€“Asia Collision Zone: Triggered Slip and Westward Flow of the Peter the First Range, Pamir, Into the Tajik Depression. <i>Tectonics</i> , 2020, 39, e2019TC005797.	2.8	16
36	Pre-seismic, co-seismic and post-seismic displacements associated with the Bhuj 2001 earthquake derived from recent and historic geodetic data. <i>Journal of Earth System Science</i> , 2003, 112, 331-345.	1.3	15

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37	Body-Wave Tomographic Imaging of the Turkana Depression: Implications for Rift Development and Plume-Lithosphere Interactions. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009782.	2.5	14
38	Kinematics and dynamics of the Pamir, Central Asia: Quantifying surface deformation and force balance in an intracontinental subduction zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4741-4762.	3.4	13
39	Kinematic evidence for the effect of changing plate boundary conditions on the tectonics of the northern U.S. Rockies. <i>Tectonics</i> , 2017, 36, 1090-1102.	2.8	13
40	Search for buckling of the southwest Indian coast related to Himalayan collision. , 1999, , .		12
41	Limitations on Inferring 3D Architecture and Dynamics From Surface Velocities in the India-Eurasia Collision Zone. <i>Geophysical Research Letters</i> , 2018, 45, 1379-1386.	4.0	10
42	Present-day distribution of deformation around the southern Tibetan Plateau revealed by geodetic and seismic observations. <i>Journal of Asian Earth Sciences</i> , 2019, 171, 321-333.	2.3	10
43	A Mass Failure Model for the Initial Degradation of Fault Scarps, with Application to the 1959 Scarps at Hebgen Lake, Montana. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 68-78.	2.3	9
44	Synconvergent exhumation of metamorphic core complexes in the northern North American Cordillera. <i>Geology</i> , 2017, 45, 495-498.	4.4	8
45	Earthquake Emergency Education in Dushanbe, Tajikistan. <i>Journal of Geoscience Education</i> , 2010, 58, 86-94.	1.4	6
46	Postseismic relaxation in Kashmir and lateral variations in crustal architecture and materials. <i>Geophysical Research Letters</i> , 2015, 42, 4375-4383.	4.0	6
47	Present-day kinematics at the India-Asia collision zone: COMMENT and REPLY: COMMENT. <i>Geology</i> , 2007, 35, e160-e160.	4.4	5
48	Kinematics and Dynamics of the Pamir, Central Asia: Quantifying the Roles of Continental Subduction in Force Balance. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 8161-8179.	3.4	5
49	Intraplate Seasonal Seismicity in the Northern Rocky Mountains of Montana and Idaho. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090371.	4.0	5
50	A review of heterogeneous materials and their implications for relationships between kinematics and dynamics in continents. <i>Tectonics</i> , 2013, 32, 980-992.	2.8	4
51	Evidence for Synchronization in the Global Earthquake Catalog. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087129.	4.0	4
52	Characteristic Scales of Drainage Reorganization in Cascadia. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091413.	4.0	4
53	Nepal at Risk: Interdisciplinary Lessons Learned from the April 2015 Nepal (Gorkha) Earthquake and Future Concerns. <i>GSA Today</i> , 2016, 26, 42-43.	2.0	4
54	Topological data analysis reveals parameters with prognostic skill for extreme wildfire size. <i>Environmental Research Letters</i> , 2020, 15, 104039.	5.2	4

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55	Choosing Carbon Mitigation Strategies Using Ethical Deliberation. <i>Weather, Climate, and Society</i> , 2010, 2, 140-147.	1.1	3
56	Spatial Scales in Topography and Strain Rate Magnitude in the Western United States. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 6086-6097.	3.4	2
57	Reconciling lithospheric deformation and lower crustal flow beneath central Tibet: COMMENT and REPLY: REPLY. <i>Geology</i> , 2008, 36, e181-e181.	4.4	1
58	Time dependence of noise characteristics in continuous GPS observations from East Africa. <i>Journal of African Earth Sciences</i> , 2018, 144, 83-89.	2.0	1
59	Transitions in subduction zone properties align with long-term topographic growth (Cascadia, USA). <i>Earth and Planetary Science Letters</i> , 2022, 580, 117363.	4.4	1
60	Choosing Carbon Mitigation Strategies Using Ethical Deliberation. <i>Weather, Climate, and Society</i> , 2010, 2, 140-147.	1.1	1
61	Explanation in philosophy and the limits of precision. <i>AI and Society</i> , 2017, 32, 167-174.	4.6	0