Uri S Ten Brink

List of Publications by Year
in descending order

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112 papers	5,185 citations	57631 44 h-index	95083 68 g-index
145 all docs	145 docs citations	145 times ranked	3541 citing authors

#	Article	IF	Citations
1	Crustal structure, flexure, and subsidence history of the Hawaiian Islands. Journal of Geophysical Research, 1989, 94, 10473-10500.	3.3	244
2	A multichannel seismic study of lithospheric flexure across the Hawaiianâ€“Emperor seamount chain. Nature, 1985, 315, 105-111.	13.7	232
3	Lithospheric strength variations as a control on new plate boundaries: examples from the northern Red Sea region. Earth and Planetary Science Letters, 1986, 79, 120-132.	1.8	220
4	Flexural uplift of the Transantarctic Mountains. Journal of Geophysical Research, 1989, 94, 10315-10330.	3.3	191
5	Size distribution of submarine landslides along the U.S. Atlantic margin. Marine Geology, 2009, 264, 16-27.	0.9	179
6	Multichannel seismic evidence for a subcrustal intrusive complex under Oahu and a model for Hawaiian volcanism. Journal of Geophysical Research, 1987, 92, 13687-13707.	3.3	137
7	The anatomy of a pullâ€apart basin: Seismic reflection observations of the Dead Sea Basin. Tectonics, 1989, 8, 333-350.	1.3	129
8	Morphology of late Quaternary submarine landslides along the U.S. Atlantic continental margin. Marine Geology, 2009, 264, 4-15.	0.9	129
9	Assessment of tsunami hazard to the U.S. East Coast using relationships between submarine landslides and earthquakes. Marine Geology, 2009, 264, 65-73.	0.9	122
10	Structure of the Dead Sea pullâ€apart basin from gravity analyses. Journal of Geophysical Research, 1993, 98, 21877-21894.	3.3	118
11	Size distribution of submarine landslides and its implication to tsunami hazard in Puerto Rico. Geophysical Research Letters, 2006, 33, .	1.5	117
12	Uplift of the Transantarctic Mountains and the bedrock beneath the East Antarctic ice sheet. Journal of Geophysical Research, 1997, 102, 27603-27621.	3.3	115
13	Current subsidence rates due to compaction of Holocene sediments in southern Louisiana. Geophysical Research Letters, 2006, 33, .	1.5	107
14	New seismic images of the Cascadia subduction zone from cruise SO108 â€" ORWELL. Tectonophysics, 1998, 293, 69-84.	0.9	100
15	Three-dimensional modeling of pull-apart basins: Implications for the tectonics of the Dead Sea Basin. Journal of Geophysical Research, 1995, 100, 6295-6312.	3.3	97
16	Rift flank uplifts and Hinterland Basins: Comparison of the Transantarctic Mountains with the Great Escarpment of southern Africa. Journal of Geophysical Research, 1992, 97, 569-585.	3.3	93
17	Sediment compaction rates and subsidence in deltaic plains: numerical constraints and stratigraphic influences. Basin Research, 2007, 19, 19-31.	1.3	86
18	Salt diapirs in the Dead Sea basin and their relationship to Quaternary extensional tectonics. Marine and Petroleum Geology, 2001, 18, 779-797.	1.5	82

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19	Far field tsunami simulations of the 1755 Lisbon earthquake: Implications for tsunami hazard to the U.S. East Coast and the Caribbean. Marine Geology, 2009, 264, 109-122.	0.9	80
20	Significant Earthquakes on the Enriquillo Fault System, Hispaniola, 1500-2010: Implications for Seismic Hazard. Bulletin of the Seismological Society of America, 2012, 102, 18-30.	1.1	77
21	Anatomy of the Dead Sea transform: Does it reflect continuous changes in plate motion?. Geology, 1999, 27, 887.	2.0	74
22	A new view into the Cascadia subduction zone and volcanic arc: Implications for earthquake hazards along the Washington margin. Geology, 1998, 26, 199.	2.0	73
23	Three-dimensional models of deformation near strike-slip faults. Journal of Geophysical Research, 1996, 101, 16205-16220.	3.3	70
24	Assessment of tsunami hazard to the U.S. Atlantic margin. Marine Geology, 2014, 353, 31-54.	0.9	69
25	Size distributions and failure initiation of submarine and subaerial landslides. Earth and Planetary Science Letters, 2009, 287, 31-42.	1.8	64
26	Crustal structure of a transform plate boundary: San Francisco Bay and the central California continental margin. Journal of Geophysical Research, 1996, 101, 22311-22334.	3.3	62
27	Geophysical evidence for the evolution of the California Inner Continental Borderland as a metamorphic core complex. Journal of Geophysical Research, 2000, 105, 5835-5857.	3.3	62
28	Volcano spacing and plate rigidity. Geology, 1991, 19, 397.	2.0	61
29	Gravity field over the Sea of Galilee: Evidence for a composite basin along a transform fault. Journal of Geophysical Research, 1996, 101, 533-544.	3.3	61
30	Crustal structure of central Lake Baikal: Insights into intracontinental rifting. Journal of Geophysical Research, 2002, 107, ETG 2-1-ETG 2-15.	3.3	61
31	Geomorphology, stability and mobility of the Currituck slide. Marine Geology, 2009, 264, 28-40.	0.9	60
32	Nonlinear refraction and reflection travel time tomography. Journal of Geophysical Research, 1998, 103, 29743-29757.	3.3	58
33	Stress interaction between subduction earthquakes and forearc strike-slip faults: Modeling and application to the northern Caribbean plate boundary. Journal of Geophysical Research, 2004, 109, .	3.3	52
34	The nature of the crust under Cayman Trough from gravity. Marine and Petroleum Geology, 2002, 19, 971-987.	1.5	51
35	Geomorphic and stratigraphic evidence for an unusual tsunami or storm a few centuries ago at Anegada, British Virgin Islands. Natural Hazards, 2012, 63, 51-84.	1.6	51
36	Seabed fluid expulsion along the upper slope and outer shelf of the U.S. Atlantic continental margin. Geophysical Research Letters, 2014, 41, 96-101.	1.5	51

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37	Geomorphic process fingerprints in submarine canyons. Marine Geology, 2013, 337, 53-66.	0.9	50
38	Bivergent thrust wedges surrounding oceanic island arcs: Insight from observations and sandbox models of the northeastern Caribbean plate. Bulletin of the Geological Society of America, 2009, 121, 1522-1536.	1.6	49
39	Three-dimensional velocity structure of Siletzia and other accreted terranes in the Cascadia forearc of Washington. Journal of Geophysical Research, 1999, 104, 18015-18039.	3.3	48
40	Vertical motions of the Puerto Rico Trench and Puerto Rico and their cause. Journal of Geophysical Research, 2005, 110, .	3.3	48
41	Geomorphic characterization of the U.S. Atlantic continental margin. Marine Geology, 2013, 338, 46-63.	0.9	48
42	Seismic imaging of deep low-velocity zone beneath the Dead Sea basin and transform fault: Implications for strain localization and crustal rigidity. Geophysical Research Letters, 2006, 33, .	1.5	47
43	Lower crustal flow and the role of shear in basin subsidence: an example from the Dead Sea basin. Earth and Planetary Science Letters, 2002, 199, 67-79.	1.8	46
44	Seismic stratigraphy of the flexural moat flanking the Hawaiian Islands. Nature, 1985, 317, 421-424.	13.7	45
45	Submarine landslide as the source for the October 11, 1918 Mona Passage tsunami: Observations and modeling. Marine Geology, 2008, 254, 35-46.	0.9	42
46	Historical perspective on seismic hazard to Hispaniola and the northeast Caribbean region. Journal of Geophysical Research, 2011, 116, .	3.3	42
47	Transverse faults and segmentation of basins within the Dead Sea Rift. Journal of African Earth Sciences (and the Middle East), 1989, 8, 603-616.	0.2	40
48	Uplift and a possible moho offset across the Dead Sea transform. Tectonophysics, 1990, 180, 71-85.	0.9	38
49	Geomorphic characterization of four shelf-sourced submarine canyons along the U.S. Mid-Atlantic continental margin. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 104, 106-119.	0.6	37
50	New seafloor map of the Puerto Rico trench helps assess earthquake and tsunami hazards. Eos, 2004, 85, 349.	0.1	35
51	Morphotectonics of the central Muertos thrust belt and Muertos Trough (northeastern Caribbean). Marine Geology, 2009, 263, 7-33.	0.9	35
52	Extreme waves in the British Virgin Islands during the last centuries before 1500 CE. , 2017, 13, 301-368.		34
53	Results of 1992 seismic reflection experiment in Lake Baikal. Eos, 1993, 74, 465.	0.1	33
54	Geometry and subsidence history of the Dead Sea basin: A case for fluidâ€induced midâ€crustal shear zone?. Journal of Geophysical Research, 2012, 117, .	3.3	33

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55	Plate deformation at depth under northern California: Slab gap or stretched slab?. Tectonics, 1999, 18, 1084-1098.	1.3	30
56	Extension in Mona Passage, Northeast Caribbean. Tectonophysics, 2010, 493, 74-92.	0.9	29
57	Morphostructure at the junction between the Beata ridge and the Greater Antilles island arc (offshore Hispaniola southern slope). Tectonophysics, 2014, 618, 138-163.	0.9	29
58	Variations in oceanic layer 2 elastic velocities near Hawaii and their correlation to lithospheric flexure. Journal of Geophysical Research, 1987, 92, 2647-2661.	3.3	28
59	A framework for the probabilistic analysis of meteotsunamis. Natural Hazards, 2014, 74, 123-142.	1.6	28
60	Multichannel seismic evidence for variations in crustal thickness across the Molokai Fracture Zone in the Midâ€Pacific. Journal of Geophysical Research, 1988, 93, 1119-1130.	3.3	27
61	Images of crust beneath southern California will aid study of earthquakes and their effects. Eos, 1996, 77, 173-176.	0.1	27
62	Synthesis of Crustal Seismic Structure and Implications for the Concept of a Slab Gap beneath Coastal California. International Geology Review, 1999, 41, 263-274.	1.1	27
63	Slab tears and intermediateâ€depth seismicity. Geophysical Research Letters, 2013, 40, 4244-4248.	1.5	26
64	Rupture models for the A.D. 900â€“930 Seattle fault earthquake from uplifted shorelines. Geology, 2006, 34, 585.	2.0	25
65	Tsunami Simulations of the 1867 Virgin Island Earthquake: Constraints on Epicenter Location and Fault Parameters. Bulletin of the Seismological Society of America, 2010, 100, 995-1009.	1.1	23
66	Plate interaction in the NE Caribbean subduction zone from continuous GPS observations. Geophysical Research Letters, 2012, 39, .	1.5	23
67	Geologic controls on submarine slope failure along the central U.S. Atlantic margin: Insights from the Currituck Slide Complex. Marine Geology, 2017, 385, 114-130.	0.9	23
68	Seismic evidence for a slab tear at the Puerto Rico Trench. Journal of Geophysical Research: Solid Earth, 2013, 118, 2915-2923.	1.4	20
69	Characteristics and processing of seismic data collected on thick, floating ice: Results from the Ross Ice Shelf, Antarctica. Geophysics, 1992, 57, 1359-1372.	1.4	19
70	Deformation of the Pacific/North America Plate Boundary at Queen Charlotte Fault: The Possible Role of Rheology. Journal of Geophysical Research: Solid Earth, 2018, 123, 4223-4242.	1.4	19
71	Glacial morphology and depositional sequences of the Antarctic continental shelf. Geology, 1995, 23, 580.	2.0	18
72	Transverse faults at the northern end of the southern basin of the Dead Sea graben. Tectonophysics, 1990, 180, 37-47.	0.9	17

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73	Geologic processes of accretion in the Cascadiasubduction zone west of Washington State. Journal of Geodynamics, 1999, 27, 277-288.	0.7	17
74	The Northern end of the Dead Sea Basin: Geometry from reflection seismic evidence. Tectonophysics, 2007, 434, 55-69.	0.9	17
75	Gravity modeling of the Muertos Trough and tectonic implications (north-eastern Caribbean). Marine Geophysical Researches, 2010, 31, 263-283.	0.5	17
76	Effects of 2010 Hurricane Earl amidst geologic evidence for greater overwash at Anegada, British Virgin Islands. Advances in Geosciences, 0, 38, 21-30.	12.0	16
77	Event sedimentation in lowâ€latitude deepâ€water carbonate basins, <scp>A</scp>negada passage, northeast <scp>C</scp>aribbean. Basin Research, 2015, 27, 310-335.	1.3	12
78	Slope failure and mass transport processes along the Queen Charlotte Fault, southeastern Alaska. Geological Society Special Publication, 2019, 477, 69-83.	0.8	12
79	Magnetic character of a large continental transform: An aeromagnetic survey of the Dead Sea Fault. Geochemistry, Geophysics, Geosystems, 2007, 8, .	1.0	10
80	The Role of Premagmatic Rifting in Shaping a Volcanic Continental Margin: An Example From the Eastern North American Margin. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019576.	1.4	10
81	Morphology and Stratal Geometry of the Antarctic Continental Shelf: Insights from Models. Antarctic Research Series, 0, , 1-24.	0.2	9
82	Semiâ€automated bathymetric spectral decomposition delineates the impact of mass wasting on the morphological evolution of the continental slope, offshore Israel. Basin Research, 2020, 32, 1156-1183.	1.3	9
83	A Closer Look at an Undersea Source of Alaskan Earthquakes. Eos, 2017, 98, .	0.1	9
84	Scientific teams analyze earthquake hazards of the Cascadia Subduction Zone. Eos, 1997, 78, 153.	0.1	8
85	Offshore Landslide Hazard Curves From Mapped Landslide Size Distributions. Journal of Geophysical Research: Solid Earth, 2019, 124, 3320-3334.	1.4	8
86	Cenozoic glacial sequences of the Antarctic continental margin as recorders of Antarctic ice sheet fluctuations. Antarctic Research Series, 1993, , 75-89.	0.2	8
87	SUBMARINE SLIDES NORTH OF PUERTO RICO AND THEIR TSUNAMI POTENTIAL. , 2006, , .		8
88	Mysterious tsunami in the Caribbean Sea following the 2010 Haiti earthquake possibly generated by dynamically triggered early aftershocks. Earth and Planetary Science Letters, 2020, 540, 116269.	1.8	7
89	Revisiting Submarine Mass Movements Along The U.S. Atlantic Continental Margin: Implications For Tsunami Hazards. , 2007, , 395-403.		7
90	Graphical user interface developed for interactive ray tracing. Eos, 1998, 79, 334-334.	0.1	6

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91	Shallower structure and geomorphology of the southern Puerto Rico offshore margin. Marine and Petroleum Geology, 2015, 67, 30-56.	1.5	6
92	Joint spanish-american research uncovers fracture pattern in northeastern caribbean. Eos, 1998, 79, 336-336.	0.1	5
93	Seismic and tsunami hazards in northeast Caribbean addressed at meeting. Eos, 1999, 80, 309.	0.1	5
94	Mid-Atlantic U.S. Offshore Carbon Storage Resource Assessment. Energy Procedia, 2017, 114, 4629-4636.	1.8	5
95	A Reevaluation of the Munson-Nygren-Retriever Submarine Landslide Complex, Georges Bank Lower Slope, Western North Atlantic. , 2012, , 135-146.		5
96	Earthquake Magnitude Distributions on Northern Caribbean Faults From Combinatorial Optimization Models. Journal of Geophysical Research: Solid Earth, 2021, 126, .	1.4	5
97	Graphical user interface for interactive seismic ray tracing. Eos, 2005, 86, 90.	0.1	4
98	Exploring Active Tectonics in the Dominican Republic. Eos, 2010, 91, 261-262.	0.1	4
99	Numerical Characterization of Cohesive and Non-Cohesive â€˜Sedimentsâ€™ under Different Consolidation States Using 3D DEM Triaxial Experiments. Processes, 2020, 8, 1252.	1.3	4
100	Assessment of Canyon Wall Failure Process from Multibeam Bathymetry and Remotely Operated Vehicle (ROV) Observations, U.S. Atlantic Continental Margin. Advances in Natural and Technological Hazards Research, 2016, , 103-113.	1.1	4
101	The Block Composite Submarine Landslide, Southern New England Slope, U.S.A.: A Morphological Analysis. , 2010, , 267-277.		4
102	Mature Diffuse Tectonic Block Boundary Revealed by the 2020 Southwestern Puerto Rico Seismic Sequence. Tectonics, 2022, 41, .	1.3	4
103	Comment on â€œNew evidence of magmatic diapirs in the intermediate crust under the Dead Sea, Israelâ€• by Nitzan Rabinowitz, Jean Steinberg, and Yossi Mart. Tectonics, 1998, 17, 819-820.	1.3	2
104	The dead sea, the lake and its setting. Eos, 1998, 79, 239-239.	0.1	1
105	Reply to a comment by Carol S. Prentice, Paul Mann, and Luis R. PeÃ±a on: â€œHistorical perspective on seismic hazard to Hispaniola and the northeast Caribbean regionâ€•by U. ten Brink et al. (). Journal of Geophysical Research: Solid Earth, 2013, 118, 1606-1608.	1.4	1
106	Slope Failures and Timing of Turbidity Flows North of Puerto Rico. Advances in Natural and Technological Hazards Research, 2014, , 617-628.	1.1	1
107	On the Use of Statistical Analysis to Understand Submarine Landslide Processes and Assess Their Hazard. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 329-341.	0.3	1
108	Observations of Seismicity and Ground Motion in the Northeast U.S. Atlantic Margin from Oceanâ€Bottom Seismometer Data. Seismological Research Letters, 2017, 88, 23-31.	0.8	0

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109	Thank You to Our 2018 Peer Reviewers. Journal of Geophysical Research: Solid Earth, 2019, 124, 3242-3253.	1.4	0
110	Thank You to Our 2019 Reviewers. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019781.	1.4	0
111	A note on the correlation between geophysical observations and seismicity in the Arava/(Araba) Valley at the southern part of the Dead Sea fault. Israel Journal of Earth Sciences, 2006, 55, 173-183.	0.3	0
112	A framework for the probabilistic analysis of meteotsunamis. , 2014, , 123-142.		0