

Thomas M Brocher

List of Publications by Year in descending order

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57
papers

4,326
citations

159585

30
h-index

155660

55
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87
all docs

87
docs citations

87
times ranked

3098
citing authors

#	ARTICLE	IF	CITATIONS
1	Empirical Relations between Elastic Wavespeeds and Density in the Earth's Crust. <i>Bulletin of the Seismological Society of America</i> , 2005, 95, 2081-2092.	2.3	1,243
2	A multichannel seismic study of lithospheric flexure across the Hawaiian–Emperor seamount chain. <i>Nature</i> , 1985, 315, 105-111.	27.8	232
3	Imaging the transition from Aleutian subduction to Yakutat collision in central Alaska, with local earthquakes and active source data. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	228
4	Seismic evidence for widespread serpentinized forearc upper mantle along the Cascadia margin. <i>Geology</i> , 2003, 31, 267.	4.4	157
5	Subduction-zone magnetic anomalies and implications for hydrated forearc mantle. <i>Geology</i> , 2005, 33, 445.	4.4	154
6	Trans-Alaska Crustal Transect and continental evolution involving subduction underplating and synchronous foreland thrusting. <i>Geology</i> , 2008, 36, 267.	4.4	139
7	Mapping the megathrust beneath the northern Gulf of Alaska using wide-angle seismic data. <i>Journal of Geophysical Research</i> , 1994, 99, 11663-11685.	3.3	128
8	Upper crustal structure in Puget Lowland, Washington: Results from the 1998 Seismic Hazards Investigation in Puget Sound. <i>Journal of Geophysical Research</i> , 2001, 106, 13541-13564.	3.3	103
9	Seismic anisotropy due to preferred mineral orientation observed in shallow crustal rocks in southern Alaska. <i>Geology</i> , 1990, 18, 737.	4.4	89
10	Compressional and Shear-Wave Velocity versus Depth Relations for Common Rock Types in Northern California. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 950-968.	2.3	89
11	Intraslab Earthquakes: Dehydration of the Cascadia Slab. <i>Science</i> , 2003, 302, 1197-1200.	12.6	87
12	Holocene fault scarps near Tacoma, Washington, USA. <i>Geology</i> , 2004, 32, 9.	4.4	85
13	Ground-Motion Modeling of the 1906 San Francisco Earthquake, Part II: Ground-Motion Estimates for the 1906 Earthquake and Scenario Events. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 1012-1046.	2.3	77
14	Ground-Motion Modeling of Hayward Fault Scenario Earthquakes, Part II: Simulation of Long-Period and Broadband Ground Motions. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 2945-2977.	2.3	76
15	A California Statewide Three-Dimensional Seismic Velocity Model from Both Absolute and Differential Times. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 225-240.	2.3	71
16	The Mw 6.0 24 August 2014 South Napa Earthquake. <i>Seismological Research Letters</i> , 2015, 86, 309-326.	1.9	70
17	Crustal structure of a transform plate boundary: San Francisco Bay and the central California continental margin. <i>Journal of Geophysical Research</i> , 1996, 101, 22311-22334.	3.3	62
18	Geophysical evidence for the evolution of the California Inner Continental Borderland as a metamorphic core complex. <i>Journal of Geophysical Research</i> , 2000, 105, 5835-5857.	3.3	62

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19	Ground-Motion Modeling of the 1906 San Francisco Earthquake, Part I: Validation Using the 1989 Loma Prieta Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 989-1011.	2.3	62
20	Key elements of regional seismic velocity models for long period ground motion simulations. <i>Journal of Seismology</i> , 2008, 12, 217-221.	1.3	61
21	Thrusting of the central California margin over the edge of the Pacific plate during the transform regime. <i>Geology</i> , 1993, 21, 635.	4.4	50
22	Two-dimensional seismic reflection modeling of the inferred fossil oceanic crust/mantle transition in the Bay of Islands Ophiolite. <i>Journal of Geophysical Research</i> , 1986, 91, 12520-12538.	3.3	46
23	Seismic velocity structure at Deep Sea Drilling Project site 504B, Panama Basin: Evidence for thin oceanic crust. <i>Journal of Geophysical Research</i> , 1989, 94, 9283-9302.	3.3	46
24	Regional three-dimensional seismic velocity model of the crust and uppermost mantle of northern California. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	45
25	Seismic reflection images of the crust of the northern part of the Chugach Terrane, Alaska: Results of a survey for the Trans-Alaska Crustal Transect (TACT). <i>Journal of Geophysical Research</i> , 1989, 94, 4424-4440.	3.3	44
26	Interpretation of the Seattle Uplift, Washington, as a Passive-Roof Duplex. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, 1379-1401.	2.3	43
27	Seismic Velocity Structure and Seismotectonics of the Eastern San Francisco Bay Region, California. <i>Bulletin of the Seismological Society of America</i> , 2007, 97, 826-842.	2.3	43
28	Modeling and Validation of a 3D Velocity Structure for the Santa Clara Valley, California, for Seismic-Wave Simulations. <i>Bulletin of the Seismological Society of America</i> , 2006, 96, 1851-1881.	2.3	40
29	Earthquakes generated from bedding plane-parallel reverse faults above an active wedge thrust, Seattle fault zone. <i>Bulletin of the Geological Society of America</i> , 2008, 120, 1581-1597.	3.3	40
30	Three-dimensional <i>P</i> wave velocity model for the San Francisco Bay region, California. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	32
31	A Regional View of Urban Sedimentary Basins in Northern California Based on Oil Industry Compressional-Wave Velocity and Density Logs. <i>Bulletin of the Seismological Society of America</i> , 2005, 95, 2093-2114.	2.3	31
32	A high-resolution seismic reflection/refraction study of the Chugach-Peninsular Terrane Boundary, southern Alaska. <i>Journal of Geophysical Research</i> , 1989, 94, 4441-4455.	3.3	28
33	Images of crust beneath southern California will aid study of earthquakes and their effects. <i>Eos</i> , 1996, 77, 173-176.	0.1	27
34	Synthesis of Crustal Seismic Structure and Implications for the Concept of a Slab Gap beneath Coastal California. <i>International Geology Review</i> , 1999, 41, 263-274.	2.1	27
35	A large mantle water source for the northern San Andreas fault system: a ghost of subduction past. <i>Earth, Planets and Space</i> , 2014, 66, .	2.5	27
36	A Simple Algorithm for Sequentially Incorporating Gravity Observations in Seismic Traveltime Tomography. <i>International Geology Review</i> , 2001, 43, 1073-1086.	2.1	25

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37	Lower crustal deformation beneath the central Transverse Ranges, southern California: Results from the Los Angeles Region Seismic Experiment. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 8-1-ETG 8-19.	3.3	25
38	Evidence for distributed clockwise rotation of the crust in the northwestern United States from fault geometries and focal mechanisms. <i>Tectonics</i> , 2017, 36, 787-818.	2.8	23
39	Implications of seismic reflection and potential field geophysical data on the structural framework of the Yucca Mountain-Crater Flat region, Nevada. <i>Bulletin of the Geological Society of America</i> , 1998, 110, 947-971.	3.3	23
40	Imaging the source region of the 2003 San Simeon earthquake within the weak Franciscan subduction complex, central California. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	22
41	Seismic stratigraphy of the oceanic Moho based on ophiolite models. <i>Geology</i> , 1985, 13, 62.	4.4	21
42	Site Response and Attenuation in the Puget Lowland, Washington State. <i>Bulletin of the Seismological Society of America</i> , 2006, 96, 536-552.	2.3	18
43	Seismic Amplification within the Seattle Basin, Washington State: Insights from SHIPS Seismic Tomography Experiments. <i>Bulletin of the Seismological Society of America</i> , 2007, 97, 1432-1448.	2.3	17
44	Seismic reflection profiling across Tertiary extensional structures in the eastern Amargosa Desert, southern Nevada, Basin and Range province. <i>Bulletin of the Geological Society of America</i> , 1993, 105, 30-46.	3.3	17
45	Geophysical investigation of the Denali fault and Alaska Range orogen within the aftershock zone of the October-November 2002, M = 7.9 Denali fault earthquake. <i>Geology</i> , 2004, 32, 269.	4.4	15
46	Geometry and subsurface lithology of southern Death Valley basin, California, based on refraction analysis of multichannel seismic data. <i>Geology</i> , 1987, 15, 1159.	4.4	12
47	Seismic reflection/refraction mapping of faulting and regional dips in the Eastern Alaska Range. <i>Journal of Geophysical Research</i> , 1991, 96, 10233-10249.	3.3	12
48	T-phases from an earthquake swarm on the mid-Atlantic ridge at 31.6°½ N. <i>Marine Geophysical Researches</i> , 1983, 6, 39-49.	1.2	11
49	A comparison of high-resolution seismic methods for determining seabed velocities in shallow water. <i>Journal of the Acoustical Society of America</i> , 1986, 79, 286-298.	1.1	10
50	Evaluating Spatial and Temporal Relations between an Earthquake Cluster near Entiat, Central Washington, and the Large December 1872 Entiat Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 2380-2393.	2.3	9
51	Urban seismic experiments investigate Seattle Fault and Basin. <i>Eos</i> , 2000, 81, 545-552.	0.1	8
52	Experimental studies of low-frequency waterborne and sediment-borne acoustic wave propagation on a continental shelf. <i>Journal of the Acoustical Society of America</i> , 1983, 74, 960-972.	1.1	5
53	Comment and Reply on "Seismic anisotropy due to preferred mineral orientation observed in shallow crustal rocks in southern Alaska". <i>Geology</i> , 1991, 19, 859.	4.4	5
54	Constraints on the age of formation of seismically reflective middle and lower crust beneath the Bering Shelf: SHRIMP zircon dating of xenoliths from Saint Lawrence Island. , 2002, , .		4

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55	Upper-crustal structure beneath the Strait of Georgia, Southwest British Columbia. Geophysical Journal International, 2007, 170, 800-812.	2.4	4
56	Crustal structure across the Bering Strait, Alaska: Onshore recordings of a marine seismic survey. , 2002, , .		3
57	Deep-crustal seismology of continental margins. Reviews of Geophysics, 1995, 33, 309.	23.0	2