Michael Brudzinski

List of Publications by Year in descending order

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59 papers	3,691 citations	201674 27 h-index	155660 55 g-index
64 all docs	64 docs citations	64 times ranked	3035 citing authors

#	Article	IF	Citations
1	The Great Sumatra-Andaman Earthquake of 26 December 2004. Science, 2005, 308, 1127-1133.	12.6	981
2	Segmentation in episodic tremor and slip all along Cascadia. Geology, 2007, 35, 907.	4.4	210
3	Hydraulic Fracturingâ€Induced Seismicity. Reviews of Geophysics, 2020, 58, e2019RG000695.	23.0	202
4	Earthquakes Induced by Hydraulic Fracturing in Poland Township, Ohio. Bulletin of the Seismological Society of America, 2015, 105, 189-197.	2.3	182
5	Subducting Slab Ultra-Slow Velocity Layer Coincident with Silent Earthquakes in Southern Mexico. Science, 2009, 324, 502-506.	12.6	166
6	Global Prevalence of Double Benioff Zones. Science, 2007, 316, 1472-1474.	12.6	162
7	Slab morphology in the Cascadia fore arc and its relation to episodic tremor and slip. Journal of Geophysical Research, 2010, 115, .	3.3	116
8	Evidence for a Large-Scale Remnant of Subducted Lithosphere Beneath Fiji. Science, 2001, 292, 2475-2479.	12.6	103
9	Optimizing multi-station earthquake template matching through re-examination of the Youngstown, Ohio, sequence. Earth and Planetary Science Letters, 2014, 405, 274-280.	4.4	102
10	Seismic evidence of negligible water carried below 400-km depth in subducting lithosphere. Nature, 2010, 467, 828-831.	27.8	96
11	Earthquakes Induced by Hydraulic Fracturing Are Pervasive in Oklahoma. Journal of Geophysical Research: Solid Earth, 2018, 123, 10,918.	3.4	81
12	Investigation of Cascadia segmentation with ambient noise tomography. Earth and Planetary Science Letters, 2011, 309, 67-76.	4.4	76
13	Seismic anisotropy in the mantle transition zone beneath Fiji-Tonga. Geophysical Research Letters, 2003, 30, .	4.0	75
14	Earthquake swarms in circum-Pacific subduction zones. Earth and Planetary Science Letters, 2011, 305, 215-225.	4.4	69
15	Seismic anisotropy beneath Cascadia and the Mendocino triple junction: Interaction of the subducting slab with mantle flow. Earth and Planetary Science Letters, 2010, 297, 627-632.	4.4	67
16	Maturity of nearby faults influences seismic hazard from hydraulic fracturing. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1720-E1729.	7.1	60
17	Proximity of Precambrian basement affects the likelihood of induced seismicity in the Appalachian, Illinois, and Williston Basins, central and eastern United States. , 2018, 14, 1365-1379.		59
18	GPS constraints on the 2011-2012 Oaxaca slow slip event that preceded the 2012 March 20 Ometepec earthquake, southern Mexico. Geophysical Journal International, 2014, 197, 1593-1607.	2.4	56

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19	Distinguishing induced seismicity from natural seismicity in Ohio: Demonstrating the utility of waveform template matching. Journal of Geophysical Research: Solid Earth, 2015, 120, 6284-6296.	3.4	54
20	Induced Seismicity in the Delaware Basin, Texas. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018558.	3.4	53
21	A petrologic anomaly accompanying outboard earthquakes beneath Fiji-Tonga: Corresponding evidence from broadbandPandSwaveforms. Journal of Geophysical Research, 2003, 108, .	3.3	50
22	Nonvolcanic tremor along the Oaxaca segment of the Middle America subduction zone. Journal of Geophysical Research, 2010, 115, .	3.3	48
23	Spatial and temporal patterns of nonvolcanic tremor along the southern Cascadia subduction zone. Journal of Geophysical Research, 2010, 115, .	3.3	45
24	Seismicity induced by hydraulic fracturing and wastewater disposal in the Appalachian Basin, USA: a review. Acta Geophysica, 2019, 67, 351-364.	2.0	38
25	Variations inPwave speeds and outboard earthquakes: Evidence for a petrologic anomaly in the mantle transition zone. Journal of Geophysical Research, 2000, 105, 21661-21682.	3.3	33
26	Megathrust earthquake swarms indicate frictional changes which delimit large earthquake ruptures. Earth and Planetary Science Letters, 2014, 390, 234-243.	4.4	33
27	Hydraulic Fracture Injection Strategy Influences the Probability of Earthquakes in the Eagle Ford Shale Play of South Texas. Geophysical Research Letters, 2019, 46, 12958-12967.	4.0	33
28	An efficient repeating signal detector to investigate earthquake swarms. Journal of Geophysical Research: Solid Earth, 2016, 121, 5880-5897.	3.4	30
29	Determination of slow slip episodes and strain accumulation along the Cascadia margin. Journal of Geophysical Research, 2010, 115, .	3.3	28
30	Constraining the boundary between the Sunda and Andaman subduction systems: Evidence from the 2002 Mw7.3 Northern Sumatra earthquake and aftershock relocations of the 2004 and 2005 great earthquakes. Geophysical Research Letters, 2005, 32, .	4.0	26
31	Microseismicity Induced by Deep Wastewater Injection in Southern Trumbull County, Ohio. Seismological Research Letters, 2015, 86, 1326-1334.	1.9	24
32	Earthquakes and strain in subhorizontal slabs. Journal of Geophysical Research, 2005, 110, .	3.3	23
33	GPS constraints on the Mw = 7.5 Ometepec earthquake sequence, southern Mexico: coseismic and post-seismic deformation. Geophysical Journal International, 2014, 199, 200-218.	2.4	23
34	Factors Influencing the Probability of Hydraulic Fracturing-Induced Seismicity in Oklahoma. Bulletin of the Seismological Society of America, 2020, 110, 2272-2282.	2.3	22
35	New perspective on the transition from flat to steeper subduction in Oaxaca, Mexico, based on seismicity, nonvolcanic tremor, and slow slip. Journal of Geophysical Research: Solid Earth, 2016, 121, 1835-1848.	3.4	21
36	Tectonic tremor and slow slip along the northwestern section of the Mexico subduction zone. Earth and Planetary Science Letters, 2016, 454, 259-271.	4.4	20

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37	Creation and Assessment of an Active e-Learning Introductory Geology Course. Journal of Science Education and Technology, 2017, 26, 629-645.	3.9	20
38	Pore Pressure Threshold and Fault Slip Potential for Induced Earthquakes in the Dallasâ€Fort Worth Area of North Central Texas. Geophysical Research Letters, 2021, 48, e2021GL093564.	4.0	20
39	Regional detection and monitoring of injection-induced seismicity: Application to the 2010â€“2012 Youngstown, Ohio, seismic sequence. AAPG Bulletin, 2015, 99, 1671-1688.	1.5	17
40	Automated detection and location of tectonic tremor along the entire Cascadia margin from 2005 to 2011. Earth and Planetary Science Letters, 2015, 430, 160-170.	4.4	17
41	Earthquake swarms and slow slip on a sliver fault in the Mexican subduction zone. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7198-7206.	7.1	17
42	Temporal patterns of induced seismicity in Oklahoma revealed from multi-station template matching. Journal of Seismology, 2020, 24, 921-935.	1.3	14
43	The Induced Mw 5.0 March 2020 West Texas Seismic Sequence. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	14
44	Shallow seismicity patterns in the northwestern section of the Mexico Subduction Zone. Journal of South American Earth Sciences, 2015, 63, 279-292.	1.4	12
45	Seismicity rate increases associated with slow slip episodes prior to the 2012 Mw 7.4 Ometepec earthquake. Earth and Planetary Science Letters, 2017, 464, 35-45.	4.4	12
46	Detecting tectonic tremor through frequency scanning at a single station: Application to the Cascadia margin. Earth and Planetary Science Letters, 2012, 353-354, 134-144.	4.4	11
47	Evidence for Rupture Through a Double Benioff Zone During the 2017 M_w 8.2 Chiapas, Mexico Earthquake. Geophysical Research Letters, 2019, 46, 652-660.	4.0	11
48	Lessons learned from the Youngstown, Ohio induced earthquake sequence from January 2011 to January 2012. Journal of Rock Mechanics and Geotechnical Engineering, 2017, 9, 783-796.	8.1	10
49	The role of effective normal stress, frictional properties, and convergence rates in characteristics of simulated slow slip events. Geophysical Research Letters, 2015, 42, 1061-1067.	4.0	8
50	Energetic Rupture and Tsunamigenesis during the 2020 MwÂ7.4 La Crucecita, Mexico Earthquake. Seismological Research Letters, 2021, 92, 140-150.	1.9	8
51	Response to Comment on "The Great Sumatra-Andaman Earthquake of 26 December 2004". Science, 2005, 310, 1431b-1431b.	12.6	7
52	Seismicity Induced by Wastewater Injection in Washington County, Ohio: Influence of Preexisting Structure, Regional Stress Regime, and Well Operations. Journal of Geophysical Research: Solid Earth, 2018, 123, 4123-4140.	3.4	7
53	Repeating earthquakes, episodic tremor and slip: Emerging patterns in complex earthquake cycles?. Complexity, 2007, 12, 33-43.	1.6	4
54	Assessment of the General Publicâ€™s Understanding of Rapidly Produced Earthquake Information Products ShakeMap and PAGER. Seismological Research Letters, 2022, 93, 2891-2905.	1.9	4

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55	Do faults shimmy before they shake?. Nature Geoscience, 2008, 1, 295-296.	12.9	3
56	Learning in a Crisis: Online Skill Building Workshop Addresses Immediate Pandemic Needs and Offers Possibilities for Future Trainings. Seismological Research Letters, 2021, 92, 3215-3230.	1.9	2
57	Characterization of Swarm and Mainshockâ€“Aftershock Behavior in Puerto Rico. Seismological Research Letters, 0, , .	1.9	2
58	Challenges in Making Meaning from Groundâ€Motion Visualizations: The Role of Geoscience Knowledge in Interpreting Dynamic Spatiotemporal Patterns. Seismological Research Letters, 2019, , .	1.9	1
59	An efficient repeating signal detector to detect and characterize induced seismicity. , 2016, , .		0