

Tobias Diehl

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,290
citations

394421

19
h-index

414414

32
g-index

53
all docs

53
docs citations

53
times ranked

1547
citing authors

#	ARTICLE	IF	CITATIONS
1	Tomography from 26 years of seismicity revealing that the spatial extent of the Yellowstone crustal magma reservoir extends well beyond the Yellowstone caldera. <i>Geophysical Research Letters</i> , 2014, 41, 3068-3073.	4.0	123
2	Ivrea mantle wedge, arc of the Western Alps, and kinematic evolution of the Alps–Apennines orogenic system. <i>Swiss Journal of Geosciences</i> , 2017, 110, 581-612.	1.2	119
3	Direct observations of a three million cubic meter rock-slope collapse with almost immediate initiation of ensuing debris flows. <i>Geomorphology</i> , 2020, 351, 106933.	2.6	100
4	Automatic S-Wave Picker for Local Earthquake Tomography. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 1906-1920.	2.3	97
5	The induced earthquake sequence related to the St. Gallen deep geothermal project (Switzerland): Fault reactivation and fluid interactions imaged by microseismicity. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 7272-7290.	3.4	81
6	High-resolution 3-D P-wave model of the Alpine crust. <i>Geophysical Journal International</i> , 2009, 179, 1133-1147.	2.4	79
7	Consistent phase picking for regional tomography models: application to the greater Alpine region. <i>Geophysical Journal International</i> , 2009, 176, 542-554.	2.4	67
8	Which Picker Fits My Data? A Quantitative Evaluation of Deep Learning Based Seismic Pickers. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	66
9	Seismotectonics of Bhutan: Evidence for segmentation of the Eastern Himalayas and link to foreland deformation. <i>Earth and Planetary Science Letters</i> , 2017, 471, 54-64.	4.4	60
10	The underthrusting Indian crust and its role in collision dynamics of the Eastern Himalaya in Bhutan: Insights from receiver function imaging. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1152-1178.	3.4	51
11	Alpine lithosphere slab rollback causing lower crustal seismicity in northern foreland. <i>Earth and Planetary Science Letters</i> , 2014, 397, 42-56.	4.4	49
12	Splay faults imaged by fluid-driven aftershocks of the 2004 Mw 9.2 Sumatra-Andaman earthquake. <i>Geology</i> , 2012, 40, 243-246.	4.4	47
13	The Mechanisms of Earthquakes and Faulting in the Southern Gulf of California. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 487-506.	2.3	40
14	Back-arc extension in the Andaman Sea: Tectonic and magmatic processes imaged by high-precision teleseismic double-difference earthquake relocation. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2206-2224.	3.4	32
15	SeisBench – A Toolbox for Machine Learning in Seismology. <i>Seismological Research Letters</i> , 2022, 93, 1695-1709.	1.9	32
16	Earthquakes in Switzerland and surrounding regions during 2013. <i>Swiss Journal of Geosciences</i> , 2014, 107, 359-375.	1.2	27
17	Earthquakes in Switzerland and surrounding regions during 2014. <i>Swiss Journal of Geosciences</i> , 2015, 108, 425-443.	1.2	24
18	The crustal structure beneath SE Romania from teleseismic receiver functions. <i>Geophysical Journal International</i> , 2005, 163, 238-251.	2.4	22

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19	Earthquakes in Switzerland and surrounding regions during 2015 and 2016. <i>Swiss Journal of Geosciences</i> , 2018, 111, 221-244.	1.2	22
20	Earthquakes in Switzerland and surrounding regions during 2012. <i>Swiss Journal of Geosciences</i> , 2013, 106, 543-558.	1.2	19
21	Earthquakes in Switzerland and surrounding regions during 2017 and 2018. <i>Swiss Journal of Geosciences</i> , 2021, 114, .	1.2	17
22	Broadband Urban Seismology in the Bucharest Metropolitan Area. <i>Seismological Research Letters</i> , 2005, 76, 574-580.	1.9	16
23	Hydromechanical Modeling of Fault Reactivation in the St.ÂGallen Deep Geothermal Project (Switzerland): Poroelasticity or Hydraulic Connection?. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085201.	4.0	15
24	Improving Absolute Hypocenter Accuracy With 3D <i>Pg</i> and <i>Sg</i> Body-Wave Inversion Procedures and Application to Earthquakes in the Central Alps Region. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022155.	3.4	13
25	Seismicity at Lusi and the adjacent volcanic complex, Java, Indonesia. <i>Marine and Petroleum Geology</i> , 2018, 90, 149-156.	3.3	12
26	The effects of data quality in local earthquake tomography: Application to the Alpine region. <i>Geophysics</i> , 2009, 74, WCB71-WCB79.	2.6	11
27	Monitoring microseismicity of the Hengill Geothermal Field in Iceland. <i>Scientific Data</i> , 2022, 9, 220.	5.3	9
28	Possible Precursory Slow-Slip to Two $M_L \approx 3$ Mainevents of the Dientigen Microearthquake Sequence, Switzerland. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093783.	4.0	7
29	Orogen-Parallel Migration of Exhumation in the Eastern Aar Massif Revealed by Low- T Thermochronometry. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020799.	3.4	6
30	Potential influence of overpressurized gas on the induced seismicity in the St.ÂGallen deep geothermal project (Switzerland). <i>Solid Earth</i> , 2020, 11, 909-933.	2.8	6
31	The Saint-Ursanne earthquakes of 2000 revisited: evidence for active shallow thrust-faulting in the Jura fold-and-thrust belt. <i>Swiss Journal of Geosciences</i> , 2022, 115, .	1.2	5
32	The AlpArray Research Seismicity-Catalogue. <i>Geophysical Journal International</i> , 2022, 231, 921-943.	2.4	4