

Fabian Walter

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,890
citations

236925

25
h-index

276875

41
g-index

81
all docs

81
docs citations

81
times ranked

1446
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Infrasonic and Seismic Analysis of Debris Flow Events at Illgraben (Switzerland): Relating Signal Features to Flow Parameters and to the Seismoacoustic Source Mechanism. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, . | 2.8 | 9 |
| 2 | Insights From the Particle Impact Model Into the High-Frequency Seismic Signature of Debris Flows. <i>Geophysical Research Letters</i> , 2021, 48, . | 4.0 | 20 |
| 3 | Empirical Investigations of the Instrument Response for Distributed Acoustic Sensing (DAS) across 17 Octaves. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 1-10. | 2.3 | 54 |
| 4 | Near-real-time automated classification of seismic signals of slope failures with continuous random forests. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 339-361. | 3.6 | 24 |
| 5 | Thinning leads to calving-style changes at Bowdoin Glacier, Greenland. <i>Cryosphere</i> , 2021, 15, 485-500. | 3.9 | 10 |
| 6 | Machine Learning Improves Debris Flow Warning. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090874. | 4.0 | 31 |
| 7 | A Multi-Physics Experiment with a Temporary Dense Seismic Array on the Argentière Glacier, French Alps: The RESOLVE Project. <i>Seismological Research Letters</i> , 2021, 92, 1185-1201. | 1.9 | 11 |
| 8 | Changing friction at the base of an Alpine glacier. <i>Scientific Reports</i> , 2021, 11, 10872. | 3.3 | 13 |
| 9 | Deciphering seismic and normal force fluctuation signatures of debris flows: An experimental assessment of effects of flow composition and dynamics. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 2195-2210. | 2.5 | 15 |
| 10 | Broadband Infrasound Signal of a Collapsing Hanging Glacier. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093579. | 4.0 | 7 |
| 11 | Diurnal expansion and contraction of englacial fracture networks revealed by seismic shear wave splitting. <i>Communications Earth & Environment</i> , 2021, 2, . | 6.8 | 3 |
| 12 | Fine Structure of Microseismic Glacial Stick-slip. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL096043. | 4.0 | 6 |
| 13 | Analyzing Bulk Flow Characteristics of Debris Flows Using Their High Frequency Seismic Signature. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, . | 3.4 | 11 |
| 14 | 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 |
| 15 | Icequake Source Mechanisms for Studying Glacial Sliding. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2020JF005627. | 2.8 | 18 |
| 16 | Distributed acoustic sensing of microseismic sources and wave propagation in glaciated terrain. <i>Nature Communications</i> , 2020, 11, 2436. | 12.8 | 127 |
| 17 | Quantification of seasonal and diurnal dynamics of subglacial channels using seismic observations on an Alpine glacier. <i>Cryosphere</i> , 2020, 14, 1475-1496. | 3.9 | 26 |
| 18 | Glaciohydraulic seismic tremors on an Alpine glacier. <i>Cryosphere</i> , 2020, 14, 287-308. | 3.9 | 19 |

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|----|--|------|-----------|
| 19 | Constraining landslide characteristics with Bayesian inversion of field and seismic data. <i>Geophysical Journal International</i> , 2020, 221, 1341-1348. | 2.4 | 18 |
| 20 | Tides modulate crevasse opening prior to a major calving event at Bowdoin Glacier, Northwest Greenland. <i>Journal of Glaciology</i> , 2020, 66, 113-123. | 2.2 | 9 |
| 21 | On the Green's function emergence from interferometry of seismic wave fields generated in high-melt glaciers: implications for passive imaging and monitoring. <i>Cryosphere</i> , 2020, 14, 1139-1171. | 3.9 | 20 |
| 22 | Crack wave resonances within the basal water layer. <i>Annals of Glaciology</i> , 2019, 60, 158-166. | 1.4 | 12 |
| 23 | Joint geodetic and seismic analysis of surface crevassing near a seasonal glacier-dammed lake at Gornergletscher, Switzerland. <i>Annals of Glaciology</i> , 2019, 60, 1-13. | 1.4 | 6 |
| 24 | Effects of geometry on the seismic wavefield of Alpine glaciers. <i>Annals of Glaciology</i> , 2019, 60, 112-124. | 1.4 | 10 |
| 25 | Crevasse-induced Rayleigh-wave azimuthal anisotropy on Glacier de la Plaine Morte, Switzerland. <i>Annals of Glaciology</i> , 2019, 60, 96-111. | 1.4 | 14 |
| 26 | Monitoring Greenland ice sheet buoyancy-driven calving discharge using glacial earthquakes. <i>Annals of Glaciology</i> , 2019, 60, 75-95. | 1.4 | 17 |
| 27 | Infrasound Array Analysis of Debris Flow Activity and Implication for Early Warning. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 567-587. | 2.8 | 50 |
| 28 | Towards monitoring the englacial fracture state using virtual-reflector seismology. <i>Geophysical Journal International</i> , 2018, 214, 825-844. | 2.4 | 6 |
| 29 | High-frequency (>2ÂHz) Ambient Seismic Noise on High-Melt Glaciers: Green's Function Estimation and Source Characterization. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 1667-1681. | 2.8 | 14 |
| 30 | Automatic Identification of Alpine Mass Movements by a Combination of Seismic and Infrasound Sensors. <i>Sensors</i> , 2018, 18, 1658. | 3.8 | 26 |
| 31 | Testing seismic amplitude source location for fast debris-flow detection at Illgraben, Switzerland. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 939-955. | 3.6 | 55 |
| 32 | Meltwater influences on deep stick-slip icequakes near the base of the Greenland Ice Sheet. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 223-240. | 2.8 | 39 |
| 33 | Complex force history of a calving-generated glacial earthquake derived from broadband seismic inversion. <i>Geophysical Research Letters</i> , 2016, 43, 1055-1065. | 4.0 | 24 |
| 34 | Tide-modulated ice flow variations drive seismicity near the calving front of Bowdoin Glacier, Greenland. <i>Geophysical Research Letters</i> , 2016, 43, 2036-2044. | 4.0 | 36 |
| 35 | Seasonal variations of glacier seismicity at the tongue of Rhonegletscher (Switzerland) with a focus on basal icequakes. <i>Journal of Glaciology</i> , 2016, 62, 18-30. | 2.2 | 9 |
| 36 | Cryoseismology. <i>Reviews of Geophysics</i> , 2016, 54, 708-758. | 23.0 | 164 |

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|----|--|-----|-----------|
| 37 | Seismic moulin tremor. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5838-5858. | 3.4 | 31 |
| 38 | Full, constrained and stochastic source inversions support evidence for volumetric changes during the Basel earthquake sequence. <i>Swiss Journal of Geosciences</i> , 2015, 108, 361-377. | 1.2 | 7 |
| 39 | Environmental seismology: What can we learn on earth surface processes with ambient noise?. <i>Journal of Applied Geophysics</i> , 2015, 116, 62-74. | 2.1 | 131 |
| 40 | Using glacier seismicity for phase velocity measurements and Green's function retrieval. <i>Geophysical Journal International</i> , 2015, 201, 1722-1737. | 2.4 | 33 |
| 41 | Seismicity within a propagating ice shelf rift: The relationship between icequake locations and ice shelf structure. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 731-744. | 2.8 | 17 |
| 42 | Seismic Network in Greenland Monitors Earth and Ice System. <i>Eos</i> , 2014, 95, 13-14. | 0.1 | 43 |
| 43 | Sustained seismic tremors and icequakes detected in the ablation zone of the Greenland ice sheet. <i>Journal of Glaciology</i> , 2014, 60, 563-575. | 2.2 | 67 |
| 44 | Thick sediments beneath Greenland's ablation zone and their potential role in future ice sheet dynamics. <i>Geology</i> , 2014, 42, 487-490. | 4.4 | 52 |
| 45 | Humming glaciers. <i>Geology</i> , 2014, 42, 1099-1102. | 4.4 | 18 |
| 46 | Deep icequakes: What happens at the base of Alpine glaciers?. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1720-1728. | 2.8 | 27 |
| 47 | Investigating the dynamics of an Alpine glacier using probabilistic icequake locations: Triftgletscher, Switzerland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 2003-2018. | 2.8 | 18 |
| 48 | Calving event detection by observation of seiche effects on the Greenland fjords. <i>Journal of Glaciology</i> , 2013, 59, 162-178. | 2.2 | 19 |
| 49 | Seismic activity and surface motion of a steep temperate glacier: a study on Triftgletscher, Switzerland. <i>Journal of Glaciology</i> , 2012, 58, 513-528. | 2.2 | 20 |
| 50 | Analysis of low-frequency seismic signals generated during a multiple iceberg calving event at Jakobshavn Isbr , Greenland. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 38 |
| 51 | Seventeen Antarctic seismic events detected by global surface waves and a possible link to calving events from satellite images. <i>Journal of Geophysical Research</i> , 2011, 116, . | 3.3 | 26 |
| 52 | Evidence for Near-Horizontal Tensile Faulting at the Base of Gornergletscher, a Swiss Alpine Glacier. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 458-472. | 2.3 | 38 |
| 53 | Observation of surface seismic activity changes of an Alpine glacier during a glacier-dammed lake outburst. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 28 |
| 54 | Iceberg calving during transition from grounded to floating ice: Columbia Glacier, Alaska. <i>Geophysical Research Letters</i> , 2010, 37, . | 4.0 | 72 |

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|----|---|-----|-----------|
| 55 | Moment Tensor Inversions of Icequakes on Gornergletscher, Switzerland. Bulletin of the Seismological Society of America, 2009, 99, 852-870. | 2.3 | 76 |
| 56 | Basal icequakes during changing subglacial water pressures beneath Gornergletscher, Switzerland. Journal of Glaciology, 2008, 54, 511-521. | 2.2 | 84 |