# John Clinton

List of Publications by Year
in descending order



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|---|---|---|---|
| 116 papers | 5,367 citations | 87723 38 h-index | 95083 68 g-index |
| 122 all docs | 122 docs citations | 122 times ranked | 3790 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The November 2017 M <sub>w</sub> 5.5 Pohang earthquake: A possible case of induced seismicity in South Korea. Science, 2018, 360, 1003-1006. | 6.0 | 325 |
| 2 | Initial results from the InSight mission on Mars. Nature Geoscience, 2020, 13, 183-189. | 5.4 | 274 |
| 3 | The Observed Wander of the Natural Frequencies in a Structure. Bulletin of the Seismological Society of America, 2006, 96, 237-257. | 1.1 | 264 |
| 4 | SEIS: Insightâ€™s Seismic Experiment for Internal Structure of Mars. Space Science Reviews, 2019, 215, 12. | 3.7 | 238 |
| 5 | Current challenges in monitoring, discrimination, and management of induced seismicity related to underground industrial activities: A European perspective. Reviews of Geophysics, 2017, 55, 310-340. | 9.0 | 235 |
| 6 | Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. Nature Geoscience, 2020, 13, 213-220. | 5.4 | 207 |
| 7 | The seismicity of Mars. Nature Geoscience, 2020, 13, 205-212. | 5.4 | 194 |
| 8 | Seismic detection of the martian core. Science, 2021, 373, 443-448. | 6.0 | 169 |
| 9 | The atmosphere of Mars as observed by InSight. Nature Geoscience, 2020, 13, 190-198. | 5.4 | 161 |
| 10 | The AlpArray Seismic Network: A Large-Scale European Experiment to Image the Alpine Orogen. Surveys in Geophysics, 2018, 39, 1009-1033. | 2.1 | 138 |
| 11 | Upper mantle structure of Mars from InSight seismic data. Science, 2021, 373, 434-438. | 6.0 | 105 |
| 12 | Direct observations of a three million cubic meter rock-slope collapse with almost immediate initiation of ensuing debris flows. Geomorphology, 2020, 351, 106933. | 1.1 | 100 |
| 13 | The Marsquake catalogue from InSight, sols 0â€“478. Physics of the Earth and Planetary Interiors, 2021, 310, 106595. | 0.7 | 97 |
| 14 | Automatic computation of moment magnitudes for small earthquakes and the scaling of local to moment magnitude. Geophysical Journal International, 2010, 183, 407-420. | 1.0 | 90 |
| 15 | The Engineering Strongâ€Motion Database: A Platform to Access Panâ€European Accelerometric Data. Seismological Research Letters, 2016, 87, 987-997. | 0.8 | 90 |
| 16 | Atmospheric Science with InSight. Space Science Reviews, 2018, 214, 1. | 3.7 | 88 |
| 17 | An Evaluation of the SCSN Moment Tensor Solutions: Robustness of the Mw Magnitude Scale, Style of Faulting, and Automation of the Method. Bulletin of the Seismological Society of America, 2006, 96, 1689-1705. | 1.1 | 83 |
| 18 | Planned Products of the Mars Structure Service for the InSight Mission to Mars. Space Science Reviews, 2017, 211, 611-650. | 3.7 | 80 |

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|---|---|---|---|
| 19 | Evidence for universal earthquake rupture initiation behavior. Geophysical Research Letters, 2016, 43, 7991-7996. | 1.5 | 78 |
| 20 | Moment Tensor Inversions of Icequakes on Gornergletscher, Switzerland. Bulletin of the Seismological Society of America, 2009, 99, 852-870. | 1.1 | 76 |
| 21 | Detection, Analysis, and Removal of Glitches From InSight's Seismic Data From Mars. Earth and Space Science, 2020, 7, e2020EA001317. | 1.1 | 75 |
| 22 | Potential Advantages of a Strong-motion Velocity Meter over a Strong-motion Accelerometer. Seismological Research Letters, 2002, 73, 332-342. | 0.8 | 66 |
| 23 | Companion guide to the marsquake catalog from InSight, Sols 0â€“478: Data content and non-seismic events. Physics of the Earth and Planetary Interiors, 2021, 310, 106597. | 0.7 | 64 |
| 24 | FinDer v.2: Improved real-time ground-motion predictions for M2â€“M9 with seismic finite-source characterization. Geophysical Journal International, 2018, 212, 725-742. | 1.0 | 61 |
| 25 | Seismotectonics of Bhutan: Evidence for segmentation of the Eastern Himalayas and link to foreland deformation. Earth and Planetary Science Letters, 2017, 471, 54-64. | 1.8 | 60 |
| 26 | Single-station and single-event marsquake location and inversion for structure using synthetic Martian waveforms. Physics of the Earth and Planetary Interiors, 2016, 258, 28-42. | 0.7 | 56 |
| 27 | State-of-the art and future of earthquake early warning in the European region. Bulletin of Earthquake Engineering, 2016, 14, 2441-2458. | 2.3 | 55 |
| 28 | A probabilistic framework for single-station location of seismicity on Earth and Mars. Physics of the Earth and Planetary Interiors, 2017, 262, 48-65. | 0.7 | 50 |
| 29 | A High- and Low-Noise Model for High-Quality Strong-Motion Accelerometer Stations. Earthquake Spectra, 2013, 29, 85-102. | 1.6 | 48 |
| 30 | Impact-Seismic Investigations of the InSight Mission. Space Science Reviews, 2018, 214, 1. | 3.7 | 48 |
| 31 | A New Empirical Magnitude Scaling Relation for Switzerland. Bulletin of the Seismological Society of America, 2011, 101, 3088-3095. | 1.1 | 45 |
| 32 | Seismic Network in Greenland Monitors Earth and Ice System. Eos, 2014, 95, 13-14. | 0.1 | 43 |
| 33 | First Focal Mechanisms of Marsquakes. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006546. | 1.5 | 43 |
| 34 | Anatomy of an Earthquake Early Warning (EEW) Alert: Predicting Time Delays for an End-to-End EEW System. Seismological Research Letters, 2015, 86, 830-840. | 0.8 | 42 |
| 35 | Potential Pitfalls in the Analysis and Structural Interpretation of Seismic Data from the Mars InSight Mission. Bulletin of the Seismological Society of America, 2021, 111, 2982-3002. | 1.1 | 42 |
| 36 | Bayesian ISOLA: new tool for automated centroid moment tensor inversion. Geophysical Journal International, 2017, 210, 693-705. | 1.0 | 41 |

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| 37 | The Marsquake Service: Securing Daily Analysis of SEIS Data and Building the Martian Seismicity Catalogue for InSight. Space Science Reviews, 2018, 214, 1. | 3.7 | 41 |
| 38 | An Almost Fair Comparison Between Earthworm and SeisComp3. Seismological Research Letters, 2012, 83, 720-727. | 0.8 | 40 |
| 39 | New predictive equations and site amplification estimates for the next-generation Swiss ShakeMaps. Geophysical Journal International, 2014, 200, 421-438. | 1.0 | 40 |
| 40 | Pick- and waveform-based techniques for real-time detection of induced seismicity. Geophysical Journal International, 2018, 213, 868-884. | 1.0 | 40 |
| 41 | Highâ€Frequency Seismic Events on Mars Observed by InSight. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006670. | 1.5 | 40 |
| 42 | The shallow structure of Mars at the InSight landing site from inversion of ambient vibrations. Nature Communications, 2021, 12, 6756. | 5.8 | 40 |
| 43 | Evidence for Near-Horizontal Tensile Faulting at the Base of Gornergletscher, a Swiss Alpine Glacier. Bulletin of the Seismological Society of America, 2010, 100, 458-472. | 1.1 | 38 |
| 44 | Preparing for InSight: An Invitation to Participate in a Blind Test for Martian Seismicity. Seismological Research Letters, 2017, 88, 1290-1302. | 0.8 | 37 |
| 45 | Assessment of high-rate GPS using a single-axis shake table. Journal of Geodesy, 2015, 89, 697-709. | 1.6 | 36 |
| 46 | The Polarization of Ambient Noise on Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006545. | 1.5 | 33 |
| 47 | A Comodulation Analysis of Atmospheric Energy Injection Into the Ground Motion at InSight, Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006538. | 1.5 | 33 |
| 48 | EIDA: The European Integrated Data Archive and Service Infrastructure within ORFEUS. Seismological Research Letters, 2021, 92, 1788-1795. | 0.8 | 31 |
| 49 | Observing calving-generated ocean waves with coastal broadband seismometers, Jakobshavn IsbrÃ¦, Greenland. Annals of Glaciology, 2012, 53, 79-84. | 2.8 | 30 |
| 50 | The Gutenberg Algorithm: Evolutionary Bayesian Magnitude Estimates for Earthquake Early Warning with a Filter Bank. Bulletin of the Seismological Society of America, 2015, 105, 2774-2786. | 1.1 | 30 |
| 51 | Earthquake early warning and operational earthquake forecasting as real-time hazard information to mitigate seismic risk at nuclear facilities. Bulletin of Earthquake Engineering, 2016, 14, 2495-2512. | 2.3 | 30 |
| 52 | Resonances and Lander Modes Observed by InSight on Mars (1â€“9ÂHz). Bulletin of the Seismological Society of America, 2021, 111, 2924-2950. | 1.1 | 30 |
| 53 | Earthquakes in Switzerland and surrounding regions during 2006. Swiss Journal of Geosciences, 2007, 100, 517-528. | 0.5 | 29 |
| 54 | The Far Side of Mars: Two Distant Marsquakes Detected by InSight. The Seismic Record, 2022, 2, 88-99. | 1.3 | 29 |

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|---|---|---|---|
| 55 | Local and regional minimum 1D models for earthquake location and data quality assessment in complex tectonic regions: application to Switzerland. Swiss Journal of Geosciences, 2011, 104, 455-469. | 0.5 | 28 |
| 56 | Deep icequakes: What happens at the base of Alpine glaciers?. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1720-1728. | 1.0 | 27 |
| 57 | Earthquakes in Switzerland and surrounding regions during 2013. Swiss Journal of Geosciences, 2014, 107, 359-375. | 0.5 | 27 |
| 58 | The Current State of Seismic Monitoring in Puerto Rico. Seismological Research Letters, 2006, 77, 532-543. | 0.8 | 25 |
| 59 | From Initial Models of Seismicity, Structure and Noise to Synthetic Seismograms for Mars. Space Science Reviews, 2017, 211, 595-610. | 3.7 | 25 |
| 60 | Magnitude Scales for Marsquakes Calibrated from InSight Data. Bulletin of the Seismological Society of America, 2021, 111, 3003-3015. | 1.1 | 25 |
| 61 | Earthquakes in Switzerland and surrounding regions during 2014. Swiss Journal of Geosciences, 2015, 108, 425-443. | 0.5 | 24 |
| 62 | A New Crater Near InSight: Implications for Seismic Impact Detectability on Mars. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006382. | 1.5 | 24 |
| 63 | Low-Frequency Marsquakes and Where to Find Them: Back Azimuth Determination Using a Polarization Analysis Approach. Bulletin of the Seismological Society of America, 2022, 112, 1787-1805. | 1.1 | 24 |
| 64 | Earthquakes in Switzerland and surrounding regions during 2015 and 2016. Swiss Journal of Geosciences, 2018, 111, 221-244. | 0.5 | 22 |
| 65 | Earthquakes in Switzerland and surrounding regions during 2011. Swiss Journal of Geosciences, 2012, 105, 463-476. | 0.5 | 21 |
| 66 | Swiss-AlpArray temporary broadband seismic stations deployment and noise characterization. Advances in Geosciences, 0, 43, 15-29. | 12.0 | 21 |
| 67 | Earthquakes in Switzerland and surrounding regions during 2009. Swiss Journal of Geosciences, 2010, 103, 535-549. | 0.5 | 19 |
| 68 | Earthquakes in Switzerland and surrounding regions during 2012. Swiss Journal of Geosciences, 2013, 106, 543-558. | 0.5 | 19 |
| 69 | Calving event detection by observation of seiche effects on the Greenland fjords. Journal of Glaciology, 2013, 59, 162-178. | 1.1 | 19 |
| 70 | Super High Frequency Events: A New Class of Events Recorded by the InSight Seismometers on Mars. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006599. | 1.5 | 19 |
| 71 | Earthquakes in Switzerland and surrounding regions during 2007. Swiss Journal of Geosciences, 2008, 101, 659-667. | 0.5 | 18 |
| 72 | The Virtual Seismologist in SeisComP3: A New Implementation Strategy for Earthquake Early Warning Algorithms. Seismological Research Letters, 2016, 87, 363-373. | 0.8 | 18 |

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|---|---|---|---|
| 73 | Introducing the European Rapid Raw Strongâ€Motion Database. Seismological Research Letters, 2016, 87, 977-986. | 0.8 | 18 |
| 74 | Magnitude Scales for Marsquakes. Bulletin of the Seismological Society of America, 2018, 108, 2764-2777. | 1.1 | 18 |
| 75 | Seismic sources of InSight marsquakes and seismotectonic context of Elysium Planitia, Mars. Tectonophysics, 2022, 837, 229434. | 0.9 | 18 |
| 76 | Earthquakes in Switzerland and surrounding regions during 2017 and 2018. Swiss Journal of Geosciences, 2021, 114, . | 0.5 | 17 |
| 77 | Seismic High-Resolution Acquisition Electronics for the NASA InSight Mission on Mars. Bulletin of the Seismological Society of America, 2021, 111, 2909-2923. | 1.1 | 17 |
| 78 | MSS/1: Singleâ€Station and Singleâ€Event Marsquake Inversion. Earth and Space Science, 2020, 7, e2020EA001118. | 1.1 | 16 |
| 79 | An Openâ€Source Earthquake Early Warning Display. Seismological Research Letters, 2016, 87, 737-742. | 0.8 | 15 |
| 80 | The Potential of Highâ€Rate GPS for Strong Ground Motion Assessment. Bulletin of the Seismological Society of America, 0, , . | 1.1 | 15 |
| 81 | Resonances of the InSight Seismometer on Mars. Bulletin of the Seismological Society of America, 2021, 111, 2951-2963. | 1.1 | 15 |
| 82 | Anatomy of Continuous Mars SEIS and Pressure Data from Unsupervised Learning. Bulletin of the Seismological Society of America, 2021, 111, 2964-2981. | 1.1 | 14 |
| 83 | Seasonal seismic activity on Mars. Earth and Planetary Science Letters, 2021, 576, 117171. | 1.8 | 13 |
| 84 | Accessing European Strong-Motion Data: An Update on ORFEUS Coordinated Services. Seismological Research Letters, 2021, 92, 1642-1658. | 0.8 | 12 |
| 85 | Shear wave splitting in the Alpine region. Geophysical Journal International, 2021, 227, 1996-2015. | 1.0 | 12 |
| 86 | Southern California Seismic Network Update. Seismological Research Letters, 2006, 77, 389-395. | 0.8 | 11 |
| 87 | Earthquakes in Switzerland and surrounding regions during 2010. Swiss Journal of Geosciences, 2011, 104, 537-547. | 0.5 | 11 |
| 88 | Estimating Rupture Dimensions of Three Major Earthquakes in Sichuan, China, for Early Warning and Rapid Loss Estimates. Bulletin of the Seismological Society of America, 2020, 110, 920-936. | 1.1 | 11 |
| 89 | Earthquakes in Switzerland and surrounding regions during 2008. Swiss Journal of Geosciences, 2009, 102, . | 0.5 | 10 |
| 90 | Evaluating the effect of network density and geometric distribution on kinematic source inversion models. Geophysical Journal International, 2015, 200, 1-16. | 1.0 | 10 |

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|---|---|---|---|
| 91 | Geophysical Observations of Phobos Transits by InSight. Geophysical Research Letters, 2020, 47, e2020GL089099. | 1.5 | 10 |
| 92 | The Current State of Strong Motion Monitoring in Switzerland. Geotechnical, Geological and Earthquake Engineering, 2011, , 219-233. | 0.1 | 10 |
| 93 | ShakeMap-based prediction of earthquake-induced mass movements in Switzerland calibrated on historical observations. Natural Hazards, 2018, 92, 1211-1235. | 1.6 | 9 |
| 94 | Status of Earthquake Early Warning in Switzerland. Frontiers in Earth Science, 2021, 9, . | 0.8 | 9 |
| 95 | Seismic constraints from a Mars impact experiment using InSight and Perseverance. Nature Astronomy, 2022, 6, 59-64. | 4.2 | 9 |
| 96 | Monitoring microseismicity of the Hengill Geothermal Field in Iceland. Scientific Data, 2022, 9, 220. | 2.4 | 9 |
| 97 | Why Seismic Networks Need Digital Object Identifiers. Eos, 2015, 96, . | 0.1 | 8 |
| 98 | Loss-Based Performance Assessment and Seismic Network Optimization for Earthquake Early Warning. Bulletin of the Seismological Society of America, 2022, 112, 1662-1677. | 1.1 | 8 |
| 99 | Estimation of the Seismic Moment Rate from an Incomplete Seismicity Catalog, in the Context of the InSight Mission to Mars. Bulletin of the Seismological Society of America, 2019, 109, 1125-1147. | 1.1 | 7 |
| 100 | Comparison and Combination of GNSS and Strong-Motion Observations: A Case Study of the 2016 MwÂ7.0 Kumamoto Earthquake. Bulletin of the Seismological Society of America, 2020, 110, 2647-2660. | 1.1 | 7 |
| 101 | Southern California Seismic Network Update. Seismological Research Letters, 2006, 77, 392-398. | 0.8 | 7 |
| 102 | Full-Waveform based methods for Microseismic Monitoring Operations: an Application to Natural and Induced Seismicity in the Hengill Geothermal Area, Iceland. Advances in Geosciences, 0, 54, 129-136. | 12.0 | 7 |
| 103 | A Reconstruction Algorithm for Temporally Aliased Seismic Signals Recorded by the InSight Mars Lander. Earth and Space Science, 2021, 8, e2020EA001234. | 1.1 | 6 |
| 104 | Preliminary Results of an Earthquake Early Warning System in Costa Rica. Frontiers in Earth Science, 2021, 9, . | 0.8 | 6 |
| 105 | Preparing for InSight: Evaluation of the Blind Test for Martian Seismicity. Seismological Research Letters, 0, , . | 0.8 | 5 |
| 106 | Kalman Filter-Based Fusion of Collocated Acceleration, GNSS and Rotation Data for 6C Motion Tracking. Sensors, 2021, 21, 1543. | 2.1 | 5 |
| 107 | The European-Mediterranean Distributed Accelerometric Data-Base. Geotechnical, Geological and Earthquake Engineering, 2011, , 115-128. | 0.1 | 5 |
| 108 | Investigation of the Central Adriatic lithosphere structure with the AlpArray-CASE seismic experiment. Geofizika, 2019, 35, 103-128. | 0.1 | 5 |

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| 109 | Combined Large-NSeismic Arrays and DAS Fiber Optic Cables across the Hengill Geothermal Field, Iceland. Seismological Research Letters, 2022, 93, 2498-2514. | 0.8 | 5 |
| 110 | Finding SEIS North on Mars: Comparisons Between SEIS Sundial, Inertial and Imaging Measurements and Consequences for Seismic Analysis. Earth and Space Science, 2021, 8, e2020EA001286. | 1.1 | 3 |
| 111 | FinDerS(+): Real-Time Earthquake Slip Profiles and Magnitudes Estimated from Backprojected Displacement with Consideration of Fault Source Maturity Gradient. Frontiers in Earth Science, 2021, 9, . | 0.8 | 3 |
| 112 | An Almost Fair Comparison Between Earthworm and SeisComp3. Seismological Research Letters, 2012, 83, 833-833. | 0.8 | 2 |
| 113 | An autonomous lunar geophysical experiment package (ALGEP) for future space missions. Experimental Astronomy, 2022, 54, 617-640. | 1.6 | 2 |
| 114 | Sparse Reconstruction of Aliased Seismic Signals Recorded During the Insight Mars Mission. , 2019, , . | | 1 |
| 115 | Measuring Fundamental and Higher Mode Surface Wave Dispersion on Mars From Seismic Waveforms. Earth and Space Science, 2021, 8, e2020EA001263. | 1.1 | 0 |
| 116 | Preface: Improving seismic networks performances: from site selection to data integration (EGU2014) Tj ETQq0 0 0 rgBT /Overlock 10 T | 12.0 | 0 |