# Ya-Ju Hsu

## List of Publications by Year in descending order



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|---|---|---|---|
| 70 papers | 2,580 citations | 201674 27 h-index | 189892 50 g-index |
| 75 all docs | 75 docs citations | 75 times ranked | 1994 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Insights into hydrological drought characteristics using GNSS-inferred large-scale terrestrial water storage deficits. Earth and Planetary Science Letters, 2022, 578, 117294. | 4.4 | 16 |
| 2 | Hydrological drought characterization based on GNSS imaging of vertical crustal deformation across the contiguous United States. Science of the Total Environment, 2022, 823, 153663. | 8.0 | 9 |
| 3 | Uranium isotopes in a subtropical mountainous river of Taiwan: Insight into physical and chemical weathering processes. Journal of Hydrology, 2022, 607, 127481. | 5.4 | 1 |
| 4 | Strain Partitioning in the Southern Ryukyu Margin Revealed by Seafloor Geodetic and Seismological Observations. Geophysical Research Letters, 2022, 49, . | 4.0 | 1 |
| 5 | Monitoring time-varying terrestrial water storage changes using daily GNSS measurements in Yunnan, southwest China. Remote Sensing of Environment, 2021, 254, 112249. | 11.0 | 43 |
| 6 | A Decade of Global Navigation Satellite System/Acoustic Measurements of Back-Arc Spreading in the Southwestern Okinawa Trough. Frontiers in Earth Science, 2021, 9, . | 1.8 | 2 |
| 7 | Synchronized and asynchronous modulation of seismicity by hydrological loading: A case study in Taiwan. Science Advances, 2021, 7, . | 10.3 | 28 |
| 8 | Fifteen Years of Continuous High-Resolution Borehole Strainmeter Measurements in Eastern Taiwan: An Overview and Perspectives. GeoHazards, 2021, 2, 172-195. | 1.4 | 9 |
| 9 | Estimation of daily hydrological mass changes using continuous GNSS measurements in mainland China. Journal of Hydrology, 2021, 598, 126349. | 5.4 | 14 |
| 10 | Occurrences of Deep-Seated Creeping Landslides in Accordance with Hydrological Water Storage in Catchments. Frontiers in Earth Science, 2021, 9, . | 1.8 | 2 |
| 11 | Characterizing Spatiotemporal Patterns of Terrestrial Water Storage Variations Using GNSS Vertical Data in Sichuan, China. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022398. | 3.4 | 13 |
| 12 | Investigating the Impacts of a Wet Typhoon on Microseismicity: A Case Study of the 2009 Typhoon Morakot in Taiwan Based on a Template Matching Catalog. Journal of Geophysical Research: Solid Earth, 2021, 126, . | 3.4 | 10 |
| 13 | Evaluation of single-frequency receivers for studying crustal deformation at the longitudinal Valley fault, eastern Taiwan. Survey Review, 2020, 52, 454-462. | 1.2 | 1 |
| 14 | Volcano-hydrothermal inflation revealed through spatial variation in stress field in Tatun Volcano Group, Northern Taiwan. Journal of Volcanology and Geothermal Research, 2020, 390, 106712. | 2.1 | 5 |
| 15 | Assessing seasonal and interannual water storage variations in Taiwan using geodetic and hydrological data. Earth and Planetary Science Letters, 2020, 550, 116532. | 4.4 | 47 |
| 16 | Earthquake Interactions in Central Taiwan: Probing Coulomb Stress Effects Due to M<sub>L</sub>â‰¥Â5.5 Earthquakes From 1900 to 2017. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019010. | 3.4 | 5 |
| 17 | Heterogeneous Powerâ€Law Flow With Transient Creep in Southern California Following the 2010 El Mayorâ€Cucapah Earthquake. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019740. | 3.4 | 10 |
| 18 | Revised earthquake sources along Manila trench for tsunami hazard assessment in the South China Sea. Natural Hazards and Earth System Sciences, 2019, 19, 1565-1583. | 3.6 | 31 |

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|---|---|---|---|
| 19 | Testing the Influence of Static and Dynamic Stress Perturbations On the Occurrence of a Shallow, Slow Slip Event in Eastern Taiwan. Journal of Geophysical Research: Solid Earth, 2019, 124, 3073-3087. | 3.4 | 8 |
| 20 | Lower-crustal rheology and thermal gradient in the Taiwan orogenic belt illuminated by the 1999 Chi-Chi earthquake. Science Advances, 2019, 5, eaav3287. | 10.3 | 34 |
| 21 | Triggered slip on multifaults after the 2018 Mw 6.4 Hualien earthquake by continuous GPS and InSAR measurements. Terrestrial, Atmospheric and Oceanic Sciences, 2019, 30, 285-300. | 0.6 | 6 |
| 22 | Seismicity Controlled by a Frictional Afterslip During a Smallâ€Magnitude Seismic Sequence (M<sub>L</sub>Â<Â5) on the Chihshang Fault, Taiwan. Journal of Geophysical Research: Solid Earth, 2018, 123, 2003-2018. | 3.4 | 8 |
| 23 | Backâ€Arc Opening in the Western End of the Okinawa Trough Revealed From GNSS/Acoustic Measurements. Geophysical Research Letters, 2018, 45, 137-145. | 4.0 | 22 |
| 24 | Calibration for the shear strain of 3-component borehole strainmeters in eastern Taiwan through Earth and ocean tidal waveform modeling. Journal of Geodesy, 2018, 92, 223-240. | 3.6 | 11 |
| 25 | Detecting rock uplift across southern Taiwan mountain belt by integrated GPS and leveling data. Tectonophysics, 2018, 744, 275-284. | 2.2 | 14 |
| 26 | A first modeling of dynamic and static crustal strain field from near-field dilatation measurements: example of the 2013 $$M_w$$ M w 6.2 Ruisui earthquake, Taiwan. Journal of Geodesy, 2017, 91, 1-8. | 3.6 | 37 |
| 27 | Imaging the distribution of transient viscosity after the 2016 M <sub>w</sub> 7.1 Kumamoto earthquake. Science, 2017, 356, 163-167. | 12.6 | 72 |
| 28 | Current crustal deformation of the Taiwan orogen reassessed by cGPS strain-rate estimation and focal mechanism stress inversion. Geophysical Journal International, 2017, 210, 228-239. | 2.4 | 18 |
| 29 | Spatial variation of seismogenic depths of crustal earthquakes in the Taiwan region: Implications for seismic hazard assessment. Tectonophysics, 2017, 708, 81-95. | 2.2 | 11 |
| 30 | Typhoonâ€Induced Ground Deformation. Geophysical Research Letters, 2017, 44, 11,004. | 4.0 | 18 |
| 31 | Temporal variation of tectonic tremor activity in southern Taiwan around the 2010 M<sub>L</sub>6.4 Jiashian earthquake. Journal of Geophysical Research: Solid Earth, 2017, 122, 5417-5434. | 3.4 | 17 |
| 32 | Characteristics on fault coupling along the Solomon megathrust based on GPS observations from 2011 to 2014. Geophysical Research Letters, 2016, 43, 8519-8526. | 4.0 | 6 |
| 33 | Interseismic deformation and moment deficit along the Manila subduction zone and the Philippine Fault system. Journal of Geophysical Research: Solid Earth, 2016, 121, 7639-7665. | 3.4 | 42 |
| 34 | Fault modeling of the 2012 Wutai, Taiwan earthquake and its tectonic implications. Tectonophysics, 2016, 666, 66-75. | 2.2 | 6 |
| 35 | Revisiting borehole strain, typhoons, and slow earthquakes using quantitative estimates of precipitationâ€induced strain changes. Journal of Geophysical Research: Solid Earth, 2015, 120, 4556-4571. | 3.4 | 28 |
| 36 | Near-field strain observations of the October 2013 Ruisui, Taiwan, earthquake: source parameters and limits of very short-term strain detection. Earth, Planets and Space, 2015, 67, . | 2.5 | 25 |

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|---|---|---|---|
| 37 | The Application of Minimally Invasive Devices with Nanostructured Surface Functionalization: Antisticking Behavior on Devices and Liver Tissue Interface in Rat. Journal of Nanomaterials, 2015, 2015, 1-9. | 2.7 | 2 |
| 38 | Comparative In Vitro Osteoinductivity Study of <scp>HA</scp> and Î±â€<scp>TCP</scp>/<scp>HA</scp> Bicalcium Phosphate. International Journal of Applied Ceramic Technology, 2015, 12, 192-198. | 2.1 | 4 |
| 39 | Effects of antibacterial nanostructured composite films on vascular stents: Hemodynamic behaviors, microstructural characteristics, and biomechanical properties. Journal of Biomedical Materials Research - Part A, 2015, 103, 269-275. | 4.0 | 9 |
| 40 | Real-Time Monitoring of Deep-Seated Gravitational Slope Deformation in the Taiwan Mountain Belt. , 2015, , 1333-1336. | | 2 |
| 41 | Seasonal, long-term, and short-term deformation in the Central Range of Taiwan induced by landslides. Geology, 2014, 42, 991-994. | 4.4 | 12 |
| 42 | Microstructure of silicon-incorporated carbon films with various silicon concentrations deposited by hybrid magnetron sputtering/chemical vapor deposition. Ceramics International, 2013, 39, 5585-5590. | 4.8 | 3 |
| 43 | Present-day crustal deformation along the Philippine Fault in Luzon, Philippines. Journal of Asian Earth Sciences, 2013, 65, 64-74. | 2.3 | 34 |
| 44 | Source complexity of the 4 March 2010 Jiashian, Taiwan, Earthquake determined by joint inversion of teleseismic and near field data. Journal of Asian Earth Sciences, 2013, 64, 14-26. | 2.3 | 28 |
| 45 | A New Velocity Field from a Dense GPS Array in the Southernmost Longitudinal Valley, Southeastern Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2013, 24, 837. | 0.6 | 5 |
| 46 | Determination of Vertical Velocity Field of Southernmost Longitudinal Valley in Eastern Taiwan: A Joint Analysis of Leveling and GPS Measurements. Terrestrial, Atmospheric and Oceanic Sciences, 2012, 23, 355. | 0.6 | 12 |
| 47 | Postseismic deformation following the 1999 Chiâ€Chi earthquake, Taiwan: Implication for lowerâ€crust rheology. Journal of Geophysical Research, 2012, 117, . | 3.3 | 56 |
| 48 | Plate coupling along the Manila subduction zone between Taiwan and northern Luzon. Journal of Asian Earth Sciences, 2012, 51, 98-108. | 2.3 | 56 |
| 49 | The potential for a great earthquake along the southernmost Ryukyu subduction zone. Geophysical Research Letters, 2012, 39, . | 4.0 | 41 |
| 50 | Possible stress states adjacent to the rupture zone of the 1999 Chi-Chi, Taiwan, earthquake. Tectonophysics, 2012, 541-543, 81-88. | 2.2 | 9 |
| 51 | Interseismic crustal deformation of frontal thrust fault system in the Chiayiâ€“Tainan area, Taiwan. Tectonophysics, 2012, 554-557, 169-184. | 2.2 | 5 |
| 52 | Three-dimensional FEM derived elastic Green's functions for the coseismic deformation of the 2005M<sub>w</sub>8.7 Nias-Simeulue, Sumatra earthquake. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a. | 2.5 | 42 |
| 53 | Coseismic deformation of the 2010 Jiashian, Taiwan earthquake and implications for fault activities in southwestern Taiwan. Tectonophysics, 2011, 502, 328-335. | 2.2 | 31 |
| 54 | Correlation between groundwater level and altitude variations in land subsidence area of the Choshuichi Alluvial Fan, Taiwan. Engineering Geology, 2010, 115, 122-131. | 6.3 | 50 |

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|---|---|---|---|
| 55 | Spatial heterogeneity of tectonic stress and friction in the crust: new evidence from earthquake focal mechanisms in Taiwan. Geophysical Journal International, 2010, , no-no. | 2.4 | 14 |
| 56 | Temporal and spatial variation of stress field in Taiwan from 1991 to 2007: Insights from comprehensive first motion focal mechanism catalog. Earth and Planetary Science Letters, 2010, 298, 306-316. | 4.4 | 44 |
| 57 | Spatio-temporal Slip, and Stress Level on the Faults within the Western Foothills of Taiwan: Implications for Fault Frictional Properties. Pure and Applied Geophysics, 2009, 166, 1853-1884. | 1.9 | 43 |
| 58 | Coseismic and postseismic deformation associated with the 2003 Chengkung, Taiwan, earthquake. Geophysical Journal International, 2009, 176, 420-430. | 2.4 | 47 |
| 59 | Coseismic displacements and slip distribution from GPS and leveling observations for the 2006 Peinan earthquake (Mw 6.1) in southeastern Taiwan. Earth, Planets and Space, 2009, 61, 299-318. | 2.5 | 20 |
| 60 | Interseismic crustal deformation in the Taiwan plate boundary zone revealed by GPS observations, seismicity, and earthquake focal mechanisms. Tectonophysics, 2009, 479, 4-18. | 2.2 | 132 |
| 61 | Spatio-temporal Slip, and Stress Level on the Faults within the Western Foothills of Taiwan: Implications for Fault Frictional Properties. , 2009, , 1853-1884. | | 0 |
| 62 | Focal-Mechanism Determination in Taiwan by Genetic Algorithm. Bulletin of the Seismological Society of America, 2008, 98, 651-661. | 2.3 | 72 |
| 63 | Temporal and spatial variations of post-seismic deformation following the 1999 Chi-Chi, Taiwan earthquake. Geophysical Journal International, 2007, 169, 367-379. | 2.4 | 48 |
| 64 | Frictional Afterslip Following the 2005 Nias-Simeulue Earthquake, Sumatra. Science, 2006, 312, 1921-1926. | 12.6 | 440 |
| 65 | Deformation and Slip Along the Sunda Megathrust in the Great 2005 Nias-Simeulue Earthquake. Science, 2006, 311, 1897-1901. | 12.6 | 284 |
| 66 | GPS measurement of postseismic deformation following the 1999 Chi-Chi, Taiwan, earthquake. Journal of Geophysical Research, 2003, 108, . | 3.3 | 61 |
| 67 | A two-dimensional dislocation model for interseismic deformation of the Taiwan mountain belt. Earth and Planetary Science Letters, 2003, 211, 287-294. | 4.4 | 98 |
| 68 | IMPACT OF A LARGE EARTHQUAKE ON A GPS NETWORK: THE CASE OF THE 1999 CHI-CHI, TAIWAN EARTHQUAKE. Survey Review, 2002, 36, 423-431. | 1.2 | 3 |
| 69 | Rapid afterslip following the 1999 Chi-Chi, Taiwan Earthquake. Geophysical Research Letters, 2002, 29, 1-4-1-4. | 4.0 | 121 |
| 70 | Fault geometry and slip distribution of the 1999 Chi-Chi, Taiwan Earthquake imaged from inversion of GPS data. Geophysical Research Letters, 2001, 28, 2285-2288. | 4.0 | 122 |