

Manoochehr Shirzaei

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

2,293
citations

201674

27
h-index

223800

46
g-index

69
all docs

69
docs citations

69
times ranked

2210
citing authors

#	ARTICLE	IF	CITATIONS
1	Predictability of hydraulic head changes and characterization of aquifer system and fault properties from InSAR-derived ground deformation. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6572-6590.	3.4	171
2	Surface uplift and time-dependent seismic hazard due to fluid injection in eastern Texas. <i>Science</i> , 2016, 353, 1416-1419.	12.6	127
3	Measuring, modelling and projecting coastal land subsidence. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 40-58.	29.7	118
4	Sustained Groundwater Loss in California's Central Valley Exacerbated by Intense Drought Periods. <i>Water Resources Research</i> , 2018, 54, 4449-4460.	4.2	95
5	Global climate change and local land subsidence exacerbate inundation risk to the San Francisco Bay Area. <i>Science Advances</i> , 2018, 4, eaap9234.	10.3	93
6	Pore-pressure diffusion, enhanced by poroelastic stresses, controls induced seismicity in Oklahoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16228-16233.	7.1	93
7	Active shortening within the Himalayan orogenic wedge implied by the 2015 Gorkha earthquake. <i>Nature Geoscience</i> , 2016, 9, 711-716.	12.9	84
8	Topography correlated atmospheric delay correction in radar interferometry using wavelet transforms. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	80
9	Spatiotemporal characterization of land subsidence and uplift in Phoenix using InSAR time series and wavelet transforms. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5822-5842.	3.4	79
10	Understanding of Contemporary Regional Sea Level Change and the Implications for the Future. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000672.	23.0	74
11	Time-dependent model of creep on the Hayward fault from joint inversion of 18 years of InSAR and surface creep data. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1733-1746.	3.4	68
12	Estimating the Effect of Satellite Orbital Error Using Wavelet-Based Robust Regression Applied to InSAR Deformation Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 4600-4605.	6.3	65
13	A Wavelet-Based Multitemporal DInSAR Algorithm for Monitoring Ground Surface Motion. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 456-460.	3.1	61
14	Groundwater Loss and Aquifer System Compaction in San Joaquin Valley During 2012–2015 Drought. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 3127-3143.	3.4	59
15	Aquifer Mechanical Properties and Decelerated Compaction in Tucson, Arizona. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8402-8416.	3.4	53
16	Increased stream discharge after the 3 September 2016 M w 5.8 Pawnee, Oklahoma earthquake. <i>Geophysical Research Letters</i> , 2016, 43, 11,588.	4.0	52
17	Land subsidence in Houston correlated with flooding from Hurricane Harvey. <i>Remote Sensing of Environment</i> , 2019, 225, 368-378.	11.0	52
18	Applicability of Sentinel-1 Terrain Observation by Progressive Scans multitemporal interferometry for monitoring slow ground motions in the San Francisco Bay Area. <i>Geophysical Research Letters</i> , 2017, 44, 2733-2742.	4.0	48

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19	Episodic creep events on the San Andreas Fault caused by pore pressure variations. <i>Nature Geoscience</i> , 2018, 11, 610-614.	12.9	40
20	Timeâ€dependent model of aseismic slip on the central San Andreas Fault from InSAR time series and repeating earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 6658-6679.	3.4	39
21	Landslide observation and volume estimation in central Georgia based on L-band InSAR. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 675-688.	3.6	37
22	Fluid Injection and Timeâ€Dependent Seismic Hazard in the Barnett Shale, Texas. <i>Geophysical Research Letters</i> , 2018, 45, 4743-4753.	4.0	37
23	Recovery of aquifer-systems in Southwest US following 2012â€2015 drought: Evidence from InSAR, GRACE and groundwater level data. <i>Journal of Hydrology</i> , 2020, 587, 124943.	5.4	35
24	Randomly iterated search and statistical competency as powerful inversion tools for deformation source modeling: Application to volcano interferometric synthetic aperture radar data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	32
25	Evolution and future of the Lusi mud eruption inferred from ground deformation. <i>Geophysical Research Letters</i> , 2013, 40, 1089-1092.	4.0	32
26	Hydraulic properties of injection formations constrained by surface deformation. <i>Earth and Planetary Science Letters</i> , 2019, 515, 125-134.	4.4	30
27	Tracking Californiaâ€™s sinking coast from space: Implications for relative sea-level rise. <i>Science Advances</i> , 2020, 6, eaba4551.	10.3	29
28	Widespread deep seismicity in the Delaware Basin, Texas, is mainly driven by shallow wastewater injection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	27
29	Aseismic deformation across the Hilina fault system, Hawaii, revealed by wavelet analysis of InSAR and GPS time series. <i>Earth and Planetary Science Letters</i> , 2013, 376, 12-19.	4.4	26
30	A seamless multitrack multitemporal InSAR algorithm. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1656-1669.	2.5	26
31	Timeâ€dependent volcano source monitoring using interferometric synthetic aperture radar time series: A combined genetic algorithm and Kalman filter approach. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	24
32	Deep and shallow sources for the Lusi mud eruption revealed by surface deformation. <i>Geophysical Research Letters</i> , 2015, 42, 5274-5281.	4.0	24
33	Seasonal and Longâ€Term Groundwater Unloading in the Central Valley Modifies Crustal Stress. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018490.	3.4	24
34	Inflation and deflation at the steep-sided Llaima stratovolcano (Chile) detected by using InSAR. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	23
35	Seismic versus aseismic slip: Probing mechanical properties of the northeast Japan subduction zone. <i>Earth and Planetary Science Letters</i> , 2014, 406, 7-13.	4.4	22
36	Multiscale Dynamics of Aseismic Slip on Central San Andreas Fault. <i>Geophysical Research Letters</i> , 2018, 45, 2274-2282.	4.0	21

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37	Probabilistic Mapping of August 2018 Flood of Kerala, India, Using Space-Borne Synthetic Aperture Radar. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 896-913.	4.9	20
38	Implications of recent asperity failures and aseismic creep for time-dependent earthquake hazard on the Hayward fault. Earth and Planetary Science Letters, 2013, 371-372, 59-66.	4.4	19
39	Slow and Go: Pulsing slip rates on the creeping section of the San Andreas Fault. Journal of Geophysical Research: Solid Earth, 2015, 120, 5940-5951.	3.4	19
40	An active ring fault detected at Tendrök volcano by using InSAR. Journal of Geophysical Research: Solid Earth, 2013, 118, 4488-4502.	3.4	18
41	Possible coupling of Campi Flegrei and Vesuvius as revealed by InSAR time series, correlation analysis and time dependent modeling. Journal of Volcanology and Geothermal Research, 2014, 280, 104-110.	2.1	17
42	Induced Seismicity in Oklahoma Affects Shallow Groundwater. Seismological Research Letters, 2017, 88, 956-962.	1.9	17
43	Joint Inversion of GNSS and GRACE for Terrestrial Water Storage Change in California. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	17
44	Gravity-driven deformation of Damavand volcano, Iran, detected through InSAR time series. Geology, 2011, 39, 251-254.	4.4	15
45	Assessment of Future Flood Hazards for Southeastern Texas: Synthesizing Subsidence, Sea-Level Rise, and Storm Surge Scenarios. Geophysical Research Letters, 2021, 48, e2021GL092544.	4.0	14
46	Elevated Seismic Hazard in Kansas Due to High-Volume Injections in Oklahoma. Geophysical Research Letters, 2020, 47, e2019GL085705.	4.0	13
47	Potential Link Between 2020 Mentone, West Texas M5 Earthquake and Nearby Wastewater Injection: Implications for Aquifer Mechanical Properties. Geophysical Research Letters, 2021, 48, e2020GL090551.	4.0	13
48	Coupling of Hawaiian volcanoes only during overpressure condition. Geophysical Research Letters, 2013, 40, 1994-1999.	4.0	12
49	Creep Along the Central San Andreas Fault From Surface Fractures, Topographic Differencing, and InSAR. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019762.	3.4	12
50	Subsidence-Derived Volumetric Strain Models for Mapping Extensional Fissures and Constraining Rock Mechanical Properties in the San Joaquin Valley, California. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019980.	3.4	12
51	Constraining the uncertainties of volcano thermal anomaly monitoring using a Kalman filter technique. Geological Society Special Publication, 2013, 380, 137-160.	1.3	11
52	Spatiotemporal model of Kilauea's summit magmatic system inferred from InSAR time series and geometry-free time-dependent source inversion. Journal of Geophysical Research: Solid Earth, 2016, 121, 5425-5446.	3.4	9
53	Comment on "Short-lived pause in Central California subsidence after heavy winter precipitation of 2017" by K. D. Murray and R. B. Lohman. Science Advances, 2019, 5, eaav8038.	10.3	9
54	Vertical Land Motion as a Driver of Coastline Changes on a Deltaic System in the Colombian Caribbean. Geosciences (Switzerland), 2021, 11, 300.	2.2	8

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55	Persistent impact of spring floods on crop loss in U.S. Midwest. <i>Weather and Climate Extremes</i> , 2021, 34, 100392.	4.1	7
56	<scp>Country-wide</scp> flood exposure analysis using Sentinel-1 synthetic aperture radar data: Case study of 2019 Iran flood. <i>Journal of Flood Risk Management</i> , 2022, 15, .	3.3	7
57	Deep slow-slip events promote seismicity in northeastern Japan megathrust. <i>Earth and Planetary Science Letters</i> , 2020, 540, 116261.	4.4	6
58	More Than 40 yr of Potentially Induced Seismicity Close to the San Andreas Fault in San Ardo, Central California. <i>Seismological Research Letters</i> , 2021, 92, 187-198.	1.9	5
59	Structural Controls Over the 2019 Ridgecrest Earthquake Sequence Investigated by High-Fidelity Elastic Models of 3D Velocity Structures. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021124.	3.4	5
60	Thermal monitoring of volcanic effusive activity: the uncertainties and outlier detection. <i>Geological Society Special Publication</i> , 2016, 426, 93-113.	1.3	3
61	Combining GPS and repeating earthquakes for a high resolution analysis of subduction zone coupling. <i>Tectonophysics</i> , 2016, 667, 37-47.	2.2	1
62	3D Modeling of Irregular Volcanic Sources Using Sparsity-Promoting Inversions of Geodetic Data and Boundary Element Method. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 10,515.	3.4	1
63	On the Origin of Orphan Tremors and Intraplate Seismicity in Western Africa. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	1