Chi-Yuen Wang

List of Publications by Year
in descending order

67	3,063	136950	161849
papers	citations	32 h-index	54 g-index

77	77	77	2059
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Changes in permeability caused by transient stresses: Field observations, experiments, and mechanisms. Reviews of Geophysics, 2012, 50, .	23.0	340
2	Pore pressure generation in sedimentary basins: Overloading versus aquathermal. Journal of Geophysical Research, 1986, 91, 2153-2162.	3.3	158
3	Coseismic release of water from mountains: Evidence from the 1999 (Mw = 7.5) Chi-Chi, Taiwan, earthquake. Geology, 2004, 32, 769.	4.4	145
4	Liquefaction beyond the Near Field. Seismological Research Letters, 2007, 78, 512-517.	1.9	141
5	Coseismic hydrologic response of an alluvial fan to the 1999 Chi-Chi earthquake, Taiwan. Geology, 2001, 29, 831.	4.4	131
6	Pressurized oceans and the eruption of liquid water on Europa and Enceladus. Geophysical Research Letters, 2007, 34, .	4.0	130
7	Hydrologic responses to earthquakes and a general metric. Geofluids, 2010, 10, 206-216.	0.7	110
8	Mechanism of water level changes during earthquakes: Near field versus intermediate field. Geophysical Research Letters, 2008, 35, .	4.0	101
9	Mechanism of co-seismic water level change following four great earthquakes â€“ insights from co-seismic responses throughout the Chinese mainland. Earth and Planetary Science Letters, 2015, 430, 66-74.	4.4	90
10	Large earthquakes create vertical permeability by breaching aquitards. Water Resources Research, 2016, 52, 5923-5937.	4.2	75
11	Regional changes in streamflow after a megathrust earthquake. Earth and Planetary Science Letters, 2017, 458, 418-428.	4.4	75
12	Tidal Response of Groundwater in a Leaky Aquiferâ€"Application to Oklahoma. Water Resources Research, 2018, 54, 8019-8033.	4.2	70
13	Role of S waves and Love waves in coseismic permeability enhancement. Geophysical Research Letters, 2009, 36, .	4.0	69
14	Earthquakes and Water. Lecture Notes in Earth Sciences, 2009, , .	0.5	69
15	Temporal change in groundwater level following the 1999 (Mw = 7.5) Chi-Chi earthquake, Taiwan. Geofluids, 2004, 4, 210-220.	0.7	67
16	New streams and springs after the 2014 Mw6.0 South Napa earthquake. Nature Communications, 2015, 6, 7597.	12.8	65
17	Liquefaction Limit during Earthquakes and Underground Explosions: Implications on Ground-Motion Attenuation. Bulletin of the Seismological Society of America, 2006, 96, 355-363.	2.3	63
18	Coseismic Groundwater Drawdown Along Crustal Ruptures During the 2016 M_w 7.0 Kumamoto Earthquake. Water Resources Research, 2019, 55, 5891-5903.	4.2	63

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19	Streamflow increase due to rupturing of hydrothermal reservoirs: Evidence from the 2003 San Simeon, California, Earthquake. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	54
20	Transient change in groundwater temperature after earthquakes. Geology, 2012, 40, 119-122.	4.4	54
21	Earthquake Hydrology. , 2015, , 305-328.		53
22	Increased stream discharge after the 3 September 2016 M w 5.8 Pawnee, Oklahoma earthquake. Geophysical Research Letters, 2016, 43, 11,588.	4.0	52
23	Comparison of hydrological responses to the Wenchuan and Lushan earthquakes. Earth and Planetary Science Letters, 2014, 391, 193-200.	4.4	50
24	Field relations among coseismic ground motion, water level change and liquefaction for the 1999 Chi-Chi (Mw= 7.5) earthquake, Taiwan. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	48
25	Stable isotopes show that earthquakes enhance permeability and release water from mountains. Nature Communications, 2020, 11, 2776.	12.8	48
26	Disruption of groundwater systems by earthquakes. Geophysical Research Letters, 2015, 42, 9758-9763.	4.0	47
27	A permeability-change model for water-level changes triggered by teleseismic waves. Geofluids, 2011, 11, 302-308.	0.7	43
28	Temperature beneath Tibet. Earth and Planetary Science Letters, 2013, 375, 326-337.	4.4	42
29	Continentalâ€scale waterâ€level response to a large earthquake. Geofluids, 2015, 15, 310-320.	0.7	42
30	Basinâ€scale transport of heat and fluid induced by earthquakes. Geophysical Research Letters, 2013, 40, 3893-3897.	4.0	41
31	Floods on Mars released from groundwater by impact. Icarus, 2005, 175, 551-555.	2.5	38
32	Shaking water out of soil. Geology, 2015, 43, 207-210.	4.4	36
33	Rising springs along the Silk Road. Geology, 2009, 37, 243-246.	4.4	33
34	Initiation of the Lusi mudflow disaster. Nature Geoscience, 2015, 8, 493-494.	12.9	32
35	Moho, seismogenesis, and rheology of the lithosphere. Tectonophysics, 2013, 609, 491-503.	2.2	31
36	Some isotopic and hydrological changes associated with the 1999 Chi-Chi earthquake, Taiwan. Island Arc, 2005, 14, 37-54.	1.1	29

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37	Field relations between the spectral composition of ground motion and hydrological effects during the 1999 Chiâ€Chi (Taiwan) earthquake. Journal of Geophysical Research, 2007, 112, .	3.3	28
38	Unexpected far-field hydrological response to a great earthquake. Earth and Planetary Science Letters, 2019, 519, 202-212.	4.4	26
39	Water and Earthquakes. Lecture Notes in Earth System Sciences, 2021, , .	0.6	24
40	Mechanics of Old Faithful Geyser, Calistoga, California. Geophysical Research Letters, 2012, 39, .	4.0	21
41	Can freezing cause floods on Mars?. Geophysical Research Letters, 2006, 33, .	4.0	20
42	Influence of pore pressure change on coseismic volumetric strain. Earth and Planetary Science Letters, 2017, 475, 152-159.	4.4	19
43	Capillary Effects on Groundwater Response to Earth Tides. Water Resources Research, 2019, 55, 6886-6895.	4.2	18
44	Seasonal Permeability Change of the Shallow Crust Inferred From Deep Well Monitoring. Geophysical Research Letters, 2018, 45, 11,130.	4.0	15
45	Are Deep Aquifers Really Confined? Insights From Deep Groundwater Tidal Responses in the North China Platform. Water Resources Research, 2021, 57, e2021WR030195.	4.2	14
46	New lakes in the Taklamakan Desert. Geophysical Research Letters, 2012, 39, .	4.0	13
47	Earthquakes and Water. , 2014, , 1-38.		13
48	High pore pressure, or its absence, in the San Andreas Fault. Geology, 2011, 39, 1047-1050.	4.4	12
49	Response of leaky aquifers to Earth tides â€“ Interpreted with numerical simulation. Journal of Hydrology, 2020, 581, 124458.	5.4	11
50	Squeezing Marsquakes Out of Groundwater. Geophysical Research Letters, 2019, 46, 6333-6340.	4.0	9
51	Shaking Water Out of Sands: An Experimental Study. Water Resources Research, 2020, 56, e2020WR028153.	4.2	9
52	Effects of Unsaturated Flow on Hydraulic Head Response to Earth Tidesâ€“An Analytical Model. Water Resources Research, 2022, 58, .	4.2	8
53	Streamflow Changes in the Vicinity of Seismogenic Fault After the 1999 Chiâ€“Chi Earthquake. Pure and Applied Geophysics, 2018, 175, 2425-2434.	1.9	7
54	Missing water from the Qiangtang Basin on the Tibetan Plateau. Geology, 0, , .	4.4	7

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55	Hydro-mechanical coupling in the shallow crust â€“ Insight from groundwater level and satellite radar imagery in a mining area. Journal of Hydrology, 2021, 594, 125649.	5.4	5
56	Groundwater Level Change. Lecture Notes in Earth Sciences, 2010, , 67-95.	0.5	5
57	Frequency-dependent groundwater response to earthquakes in carbonate aquifer. Journal of Hydrology, 2021, 603, 127153.	5.4	4
58	A New Mechanism for Earthquakeâ€Enhanced Permeability. Water Resources Research, 2022, 58, .	4.2	4
59	Fault stress inversion reveals seismogenic asperity of the 2011 Mw 9.0 Tohoku-Oki earthquake. Scientific Reports, 2019, 9, 11987.	3.3	3
60	Seasonal change of groundwater response to Earth tides. Journal of Hydrology, 2022, 612, 128118.	5.4	3
61	Response to Tides, Barometric Pressure and Seismic Waves. Lecture Notes in Earth System Sciences, 2021, , 83-153.	0.6	2
62	Effect of Poissonâ€™s ratio on stress state in the Wenchuan MS8.0 earthquake fault. Earthquake Science, 2009, 22, 603-607.	0.9	1
63	Groundwater and Stream Composition. Lecture Notes in Earth System Sciences, 2021, , 257-287.	0.6	1
64	Groundwater Temperature. Lecture Notes in Earth System Sciences, 2021, , 231-256.	0.6	1
65	Groundwater Level. Lecture Notes in Earth System Sciences, 2021, , 155-200.	0.6	0
66	Stream Flow. Lecture Notes in Earth System Sciences, 2021, , 201-230.	0.6	0
67	Liquefaction. Lecture Notes in Earth Sciences, 2010, , 7-31.	0.5	0