

Shemin Ge

List of Publications by Year in descending order

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48
papers

3,585
citations

257357

24
h-index

189801

50
g-index

53
all docs

53
docs citations

53
times ranked

3420
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharp increase in central Oklahoma seismicity since 2008 induced by massive wastewater injection. Science, 2014, 345, 448-451.	6.0	639
2	High-rate injection is associated with the increase in U.S. mid-continent seismicity. Science, 2015, 348, 1336-1340.	6.0	460
3	Offshore fresh groundwater reserves as a global phenomenon. Nature, 2013, 504, 71-78.	13.7	245
4	Coping with earthquakes induced by fluid injection. Science, 2015, 347, 830-831.	6.0	183
5	A governing equation for fluid flow in rough fractures. Water Resources Research, 1997, 33, 53-61.	1.7	174
6	Exchange of groundwater and surface-water mediated by permafrost response to seasonal and long term air temperature variation. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	164
7	Basin-scale hydrogeologic modeling. Reviews of Geophysics, 1996, 34, 61-87.	9.0	140
8	Managing injection-induced seismic risks. Science, 2019, 364, 730-732.	6.0	129
9	Hydromechanical modeling of tectonically driven groundwater flow with application to the Arkoma Foreland Basin. Journal of Geophysical Research, 1992, 97, 9119-9144.	3.3	124
10	Effect of Horizontal Heat and Fluid Flow on the Vertical Temperature Distribution in a Semiconfining Layer. Water Resources Research, 1996, 32, 1449-1453.	1.7	106
11	Did the Zipingpu Reservoir trigger the 2008 Wenchuan earthquake?. Geophysical Research Letters, 2009, 36, .	1.5	99
12	Contrasting hydrogeologic responses to warming in permafrost and seasonally frozen ground hillslopes. Geophysical Research Letters, 2017, 44, 1803-1813.	1.5	79
13	Triggering of the Pohang, Korea, Earthquake (Mw 5.5) by Enhanced Geothermal System Stimulation. Seismological Research Letters, 0, , .	0.8	74
14	Analysis of groundwater flow in mountainous, headwater catchments with permafrost. Water Resources Research, 2015, 51, 9564-9576.	1.7	63
15	Estimation of groundwater velocity in localized fracture zones from well temperature profiles. Journal of Volcanology and Geothermal Research, 1998, 84, 93-101.	0.8	59
16	The Role of Frozen Soil in Groundwater Discharge Predictions for Warming Alpine Watersheds. Water Resources Research, 2018, 54, 1599-1615.	1.7	57
17	Causal mechanism of injection-induced earthquakes through the Mw 5.5 Pohang earthquake case study. Nature Communications, 2020, 11, 2614.	5.8	48
18	Carbon and mercury export from the Arctic rivers and response to permafrost degradation. Water Research, 2019, 161, 54-60.	5.3	39

#	ARTICLE	IF	CITATIONS
19	Insights into water level response to seismic waves: A 24 year high-fidelity record of global seismicity at Devils Hole. <i>Geophysical Research Letters</i> , 2014, 41, 74-80.	1.5	38
20	Comparison and modification of methods for estimating evapotranspiration using diurnal groundwater level fluctuations in arid and semiarid regions. <i>Journal of Hydrology</i> , 2013, 496, 9-16.	2.3	30
21	Small Earthquakes Matter in Injection-Induced Seismicity. <i>Geophysical Research Letters</i> , 2018, 45, 5445-5453.	1.5	30
22	Constraining fault-zone hydrogeology through integrated hydrological and geoelectrical analysis. <i>Hydrogeology Journal</i> , 2010, 18, 1057-1067.	0.9	29
23	The effect of surface geometry on fracture permeability: A case study using a sinusoidal fracture. <i>Geophysical Research Letters</i> , 1998, 25, 813-816.	1.5	28
24	A Possible Causative Mechanism of Raton Basin, New Mexico and Colorado Earthquakes Using Recent Seismicity Patterns and Pore Pressure Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8051-8065.	1.4	25
25	Solar district heating with underground thermal energy storage: Pathways to commercial viability in North America. <i>Renewable Energy</i> , 2018, 126, 1-13.	4.3	25
26	Distinguishing Fluid Flow Path from Pore Pressure Diffusion for Induced Seismicity. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 3684-3686.	1.1	25
27	Solute dispersion in rock fractures by Non-Darcian Flow. <i>Geophysical Research Letters</i> , 2001, 28, 3983-3986.	1.5	23
28	Evaluating the effectiveness of induced seismicity mitigation: Numerical modeling of wastewater injection near Greeley, Colorado. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6569-6582.	1.4	23
29	Coupled fluid flow and deformation modeling of the frontal thrust region of the Kumano Basin transect, Japan: Implications for fluid pressures and decollement downstepping. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	22
30	Applicable range of the Reynolds equation for fluid flow in a rock fracture. <i>Geosciences Journal</i> , 2005, 9, 347-352.	0.6	21
31	Analysis of strain-induced ground-water fluctuations at Devils Hole, Nevada. <i>Geofluids</i> , 2006, 6, 319-333.	0.3	21
32	Review: Induced Seismicity During Geoenergy Development—A Hydromechanical Perspective. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	21
33	Controls on groundwater flow in a semiarid folded and faulted intermountain basin. <i>Water Resources Research</i> , 2014, 50, 6788-6809.	1.7	19
34	An assessment of along-strike fluid and heat transport within the Barbados Ridge Accretionary Complex: Results of preliminary modeling. <i>Geophysical Research Letters</i> , 1997, 24, 3085-3088.	1.5	17
35	Induced seismicity: the potential hazard from shale gas development and CO ₂ geologic storage. <i>Geosciences Journal</i> , 2016, 20, 137-148.	0.6	12
36	Impoundment-Associated Hydro-Mechanical Changes and Regional Seismicity Near the Xiluodu Reservoir, Southwestern China. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021590.	1.4	11

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37	Anomalous high porosities in the proto-decollement zone of the Barbados Accretionary Complex: Do they indicate overpressures?. <i>Geophysical Research Letters</i> , 2000, 27, 1993-1996.	1.5	8
38	Hydrodynamic response of subduction zones to seismic activity: A case study for the Costa Rica margin. <i>Tectonophysics</i> , 2006, 426, 167-187.	0.9	8
39	Modeling of the effects of propagating thrust slip on pore pressures and implications for monitoring. <i>Earth and Planetary Science Letters</i> , 2007, 258, 454-464.	1.8	8
40	The impact of megasplay faulting and permeability contrasts on Nankai Trough subduction zone pore pressures. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	7
41	Streamflow Changes in the Vicinity of Seismogenic Fault After the 1999 Chiâ€Chi Earthquake. <i>Pure and Applied Geophysics</i> , 2018, 175, 2425-2434.	0.8	7
42	Open Science: Open Data, Open Models, â€and Open Publications?. <i>Water Resources Research</i> , 2021, 57, e2020WR029480.	1.7	7
43	An Analytical Evaluation for Airflow to Inlet Wells in Vapor Extraction Systems Under Leaky Conditions. <i>Water Resources Research</i> , 1996, 32, 743-748.	1.7	6
44	The effect of allochthonous salt evolution and overpressure development on source rock thermal maturation: a two-dimensional transient study in the northern Gulf of Mexico Basin. <i>Petroleum Geoscience</i> , 2001, 7, 281-290.	0.9	5
45	Origin of the Crescent Moon Spring in the Gobi Desert of northwestern China, based on understanding groundwater recharge. <i>Journal of Hydrology</i> , 2020, 580, 124344.	2.3	5
46	Correction to â€Basin-scale hydrogeologic modelingâ€. <i>Reviews of Geophysics</i> , 1996, 34, 307-309.	9.0	3
47	Comment on "Evidence that the 2008 Mw 7.9 Wenchuan Earthquake Could Not Have Been Induced by the Zipingpu Reservoir" by Kai Deng, Shiyong Zhou, Rui Wang, Russell Robinson, Cuiping Zhao, and Wanzheng Cheng. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 3117-3118.	1.1	3
48	A Simple Relation to Constrain Groundwater Models Using Surface Deformation. <i>Ground Water</i> , 2022, 60, 410-417.	0.7	2