

# Xiaolong Geng

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

779  
citations

19  
h-index

26  
g-index

58  
ext. papers

986  
ext. citations

5.4  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
52	Modeling oil biodegradation and bioremediation within beaches. <i>Current Opinion in Chemical Engineering</i> , <b>2022</b> , 35, 100751	5.4	2
51	Numerical simulation of benzene transport in shoreline groundwater affected by tides under different conditions. <i>Frontiers of Environmental Science and Engineering</i> , <b>2022</b> , 16, 1	5.8	0
50	Oil biodegradation in permeable marine sediments: Effects of benthic pore-water advection and solute exchange. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 129211	12.8	0
49	Hypersaline Pore Water in Gulf of Mexico Beaches Prevented Efficient Biodegradation of Deepwater Horizon Beached Oil. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 13792-13801	10.3	6
48	Population agglomeration is a harbinger of the spatial complexity of COVID-19. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127702	14.7	6
47	Dispersion of Oil Droplets in Rivers. <i>Journal of Hydraulic Engineering</i> , <b>2021</b> , 147, 04021004	1.8	
46	Transport and Fate of Virus-Laden Particles in a Supermarket: Recommendations for Risk Reduction of COVID-19 Spreading. <i>Journal of Environmental Engineering, ASCE</i> , <b>2021</b> , 147, 04021007	2	7
45	A kernel-modulated SIR model for Covid-19 contagious spread from county to continent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
44	ANISOTROPIC MULTIFRACTAL SCALING OF MOUNT LEBANON TOPOGRAPHY: APPROXIMATE CONDITIONING. <i>Fractals</i> , <b>2021</b> , 29, 2150112	3.2	1
43	Geochemical fluxes in sandy beach aquifers: Modulation due to major physical stressors, geologic heterogeneity, and nearshore morphology. <i>Earth-Science Reviews</i> , <b>2021</b> , 221, 103800	10.2	1
42	Multiphase CFD simulation of the nearshore spilled oil behaviors. <i>Environmental Pollution</i> , <b>2021</b> , 288, 117730	9.3	0
41	Groundwater Flow and Moisture Dynamics in the Swash Zone: Effects of Heterogeneous Hydraulic Conductivity and Capillarity. <i>Water Resources Research</i> , <b>2020</b> , 56, e2020WR028401	5.4	4
40	Numerical Study of Solute Transport in Heterogeneous Beach Aquifers Subjected to Tides. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR026430	5.4	16
39	Characterization of Pore Water Flow in 3-D Heterogeneous Permeability Fields. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086879	4.9	8
38	Oil Droplet Dispersion under a Deep-Water Plunging Breaker: Experimental Measurement and Numerical Modeling. <i>Journal of Marine Science and Engineering</i> , <b>2020</b> , 8, 230	2.4	8
37	The influence of connected heterogeneity on groundwater flow and salinity distributions in coastal volcanic aquifers. <i>Journal of Hydrology</i> , <b>2020</b> , 586, 124863	6	19
36	Modeling Hydrologic Controls on Particulate Organic Carbon Contributions to Beach Aquifer Biogeochemical Reactivity. <i>Water Resources Research</i> , <b>2020</b> , 56, e2020WR027306	5.4	6

35	Heterogeneity Affects Intertidal Flow Topology in Coastal Beach Aquifers. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089612	4.9	10
34	Preferential Flow Enhances Pumping-Induced Saltwater Intrusion in Volcanic Aquifers. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR026390	5.4	10
33	Effects of Tidally Varying Salinity on Groundwater Flow and Solute Transport: Insights From Modelling an Idealized Creek Marsh Aquifer. <i>Water Resources Research</i> , <b>2019</b> , 55, 9656-9672	5.4	12
32	Water flow and solute transport due to Macrotide in a gravel beach. <i>Journal of Hydrology</i> , <b>2019</b> , 577, 123935	6	1
31	High Pressure Injection of Chemicals in a Gravel Beach. <i>Processes</i> , <b>2019</b> , 7, 525	2.9	2
30	A Review on the Factors Affecting the Deposition, Retention, and Biodegradation of Oil Stranded on Beaches and Guidelines for Designing Laboratory Experiments. <i>Current Pollution Reports</i> , <b>2019</b> , 5, 407-423	7.6	19
29	Oil Droplet Transport under Non-Breaking Waves: An Eulerian RANS Approach Combined with a Lagrangian Particle Dispersion Model. <i>Journal of Marine Science and Engineering</i> , <b>2018</b> , 6, 7	2.4	9
28	Oil Droplets Transport Under a Deep-Water Plunging Breaker: Impact of Droplet Inertia. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 9082-9100	3.3	12
27	Spectral responses of gravel beaches to tidal signals. <i>Scientific Reports</i> , <b>2017</b> , 7, 40770	4.9	5
26	Biodegradation of Dispersed Weathered Endicott Oil in Prince William Sound Water. <i>Journal of Environmental Engineering, ASCE</i> , <b>2017</b> , 143, 04017044	2	3
25	Numerical modeling of subsurface release and fate of benzene and toluene in coastal aquifers subjected to tides. <i>Journal of Hydrology</i> , <b>2017</b> , 551, 793-803	6	24
24	The influence of evaporation and rainfall on supratidal groundwater dynamics and salinity structure in a sandy beach. <i>Water Resources Research</i> , <b>2017</b> , 53, 6218-6238	5.4	20
23	Subsurface Flow and Moisture Dynamics in Response to Swash Motions: Effects of Beach Hydraulic Conductivity and Capillarity. <i>Water Resources Research</i> , <b>2017</b> , 53, 10317-10335	5.4	11
22	Bioremediation of the Exxon Valdez oil in Prince William Sound beaches. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 113, 156-164	6.7	26
21	Evolution of bubble size distribution from gas blowout in shallow water. <i>Journal of Geophysical Research: Oceans</i> , <b>2016</b> , 121, 1573-1599	3.3	25
20	Simulation of oil bioremediation in a tidally influenced beach: Spatiotemporal evolution of nutrient and dissolved oxygen. <i>Journal of Geophysical Research: Oceans</i> , <b>2016</b> , 121, 2385-2404	3.3	19
19	Oil droplets transport due to irregular waves: Development of large-scale spreading coefficients. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 104, 279-89	6.7	27
18	Evidence of salt accumulation in beach intertidal zone due to evaporation. <i>Scientific Reports</i> , <b>2016</b> , 6, 31486	4.9	36

17	A-DROP: A predictive model for the formation of oil particle aggregates (OPAs). <i>Marine Pollution Bulletin</i> , <b>2016</b> , 106, 245-59	6.7	50
16	Numerical study of solute transport in shallow beach aquifers subjected to waves and tides. <i>Journal of Geophysical Research: Oceans</i> , <b>2015</b> , 120, 1409-1428	3.3	49
15	Numerical modeling of water flow and salt transport in bare saline soil subjected to evaporation. <i>Journal of Hydrology</i> , <b>2015</b> , 524, 427-438	6	26
14	Impacts of evaporation on subsurface flow and salt accumulation in a tidally influenced beach. <i>Water Resources Research</i> , <b>2015</b> , 51, 5547-5565	5.4	29
13	Biodegradation of subsurface oil in a tidally influenced sand beach: Impact of hydraulics and interaction with pore water chemistry. <i>Water Resources Research</i> , <b>2015</b> , 51, 3193-3218	5.4	33
12	Monitoring changes in salinity and metal concentrations in New Jersey (USA) coastal ecosystems Post-Hurricane Sandy. <i>Environmental Earth Sciences</i> , <b>2015</b> , 73, 1169-1177	2.9	16
11	Simulation of the landfall of the Deepwater Horizon oil on the shorelines of the Gulf of Mexico. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 9496-505	10.3	52
10	Numerical study of wave effects on groundwater flow and solute transport in a laboratory beach. <i>Journal of Contaminant Hydrology</i> , <b>2014</b> , 165, 37-52	3.9	53
9	Migration of High-Pressure Air during Gas Well Drilling in the Appalachian Basin. <i>Journal of Environmental Engineering, ASCE</i> , <b>2014</b> , 140,	2	6
8	BIOB: a mathematical model for the biodegradation of low solubility hydrocarbons. <i>Marine Pollution Bulletin</i> , <b>2014</b> , 83, 138-47	6.7	24
7	A new paradigm in oil spill modeling for decision making?. <i>Environmental Research Letters</i> , <b>2014</b> , 9, 081001	6.1	6
6	Shoreline Bioremediation Model (SBM) - A Graphical User Interface for Simulating the Biodegradation of Beached Oil. <i>International Oil Spill Conference Proceedings</i> , <b>2014</b> , 2014, 1099-1112		0
5	Modeling Biodegradation of Subsurface Oil in Sand Beaches Polluted with Oil. <i>International Oil Spill Conference Proceedings</i> , <b>2014</b> , 2014, 1113-1125		
4	Mathematical modeling of the biodegradation of residual hydrocarbon in a variably-saturated sand column. <i>Biodegradation</i> , <b>2013</b> , 24, 153-63	4.1	24
3	Hydrogeology and Hydrochemistry Along Two Transects in Mangrove Tidal Marshes at Dongzhaigang National Nature Reserve, Hainan, China. <i>Coastal Research Library</i> , <b>2013</b> , 11-25	0.4	3
2	Tide-induced head fluctuations in a coastal aquifer: effects of the elastic storage and leakage of the submarine outlet-capping. <i>Hydrogeology Journal</i> , <b>2009</b> , 17, 1289-1296	3.1	21
1	An analytical solution and case study of groundwater head response to dual tide in an island leaky confined aquifer. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	26