Xiao Feng

List of Publications by Year
in descending order

93 papers	2,057 citations	257450 24 h-index	302126 39 g-index
94 all docs	94 docs citations	94 times ranked	1627 citing authors

#	Article	IF	Citations
1	Groundwater flow to a horizontal or slanted well in an unconfined aquifer. Water Resources Research, 2002, 38, 13-1-13-11.	4.2	108
2	A new mobileâ€immobile model for reactive solute transport with scaleâ€dependent dispersion. Water Resources Research, 2010, 46, .	4.2	106
3	Experimental study of the effect of roughness and Reynolds number on fluid flow in roughâ€walled single fractures: a check of local cubic law. Hydrological Processes, 2011, 25, 614-622.	2.6	104
4	Pore structure characterization of Chang-7 tight sandstone using MICP combined with N2GA techniques and its geological control factors. Scientific Reports, 2016, 6, 36919.	3.3	98
5	Analytical solution of two-dimensional solute transport in an aquiferâ€“aquitard system. Journal of Contaminant Hydrology, 2009, 107, 162-174.	3.3	75
6	An analytical solution of twoâ€dimensional reactive solute transport in an aquiferâ€aquitard system. Water Resources Research, 2009, 45, .	4.2	66
7	Multiscale Study of Physical and Mechanical Properties of Sandstone in Three Gorges Reservoir Region Subjected to Cyclic Wettingâ€“Drying of Yangtze River Water. Rock Mechanics and Rock Engineering, 2020, 53, 2215-2231.	5.4	65
8	The coupled moistureâ€heat process of permafrost around a thermokarst pond in Qinghaiâ€Tibet Plateau under global warming. Journal of Geophysical Research F: Earth Surface, 2014, 119, 836-853.	2.8	64
9	Iron oxides decorated graphene oxide/chitosan composite beads for enhanced Cr(VI) removal from aqueous solution. International Journal of Biological Macromolecules, 2021, 172, 197-209.	7.5	53
10	Fractured-karst spring-flow protections: a case study in Jinan, China. Hydrogeology Journal, 2006, 14, 1192-1205.	2.1	45
11	Timescale and Effectiveness of Residual Saltwater Desalinization Behind Subsurface Dams in an Unconfined Aquifer. Water Resources Research, 2021, 57, e2020WR028493.	4.2	41
12	Estimating groundwater recharge beneath irrigated farmland using environmental tracers fluoride, chloride and sulfate. Hydrogeology Journal, 2013, 21, 1469-1480.	2.1	39
13	Thermal effect of climate change on groundwaterâ€fed ecosystems. Water Resources Research, 2017, 53, 3341-3351.	4.2	38
14	Reactive Transport of Nutrients and Bioclogging During Dynamic Disconnection Process of Stream and Groundwater. Water Resources Research, 2019, 55, 3882-3903.	4.2	36
15	Geological control factors of micro oil distribution in tight reservoirs. Marine and Petroleum Geology, 2016, 77, 1193-1205.	3.3	33
16	Aquifer Recharge Using a Vadose Zone Infiltration Well. Water Resources Research, 2018, 54, 8847-8863.	4.2	33
17	An Experimental Study on the Adsorption and Desorption of Cu(II) in Silty Clay. Geofluids, 2018, 2018, 1-12.	0.7	32
18	Efectos del uso urbano de la tierra en la distribuciÃ³n de fosfatos en el agua subterrÃ¡nea en un acuÃfero somero, Cuenca del RÃo Nanfei, China. Hydrogeology Journal, 2011, 19, 1431-1442.	2.1	31

#	Article	IF	Citations
19	Experimental investigation on oil migration and accumulation in tight sandstones. Journal of Petroleum Science and Engineering, 2018, 160, 267-275.	4.2	31
20	Non-Darcian flow to a well in a leaky aquifer using the Forchheimer equation. Hydrogeology Journal, 2011, 19, 563-572.	2.1	30
21	Eddy correlations for water flow in a single fracture with abruptly changing aperture. Hydrological Processes, 2012, 26, 3369-3377.	2.6	30
22	Effect of roughness on water flow through a synthetic single rough fracture. Environmental Earth Sciences, 2017, 76, 1.	2.7	28
23	Highly efficient removal of As(III) from aqueous solutions using goethite/graphene oxide/chitosan nanocomposite. International Journal of Biological Macromolecules, 2020, 164, 13-26.	7.5	28
24	Fractional Models Simulating Nonâ€Fickian Behavior in Fourâ€Stage Singleâ€Well Pushâ€Pull Tests. Water Resources Research, 2017, 53, 9528-9545.	4.2	26
25	Spatiotemporal Responses of Groundwater Flow and Aquiferâ€River Exchanges to Flood Events. Water Resources Research, 2018, 54, 1513-1532.	4.2	25
26	Investigating the Effect of the Temperature and Pressure on Wettability in Crude Oilâ€“Brineâ€“Rock Systems. Energy & Fuels, 2018, 32, 9010-9019.	5.1	24
27	Experimental and theoretical characterization of the natural gas migration and accumulation mechanism in low-permeability (tight) sandstone cores. Journal of Natural Gas Science and Engineering, 2016, 33, 1308-1315.	4.4	23
28	The effect of expansion ratio on the critical Reynolds number in single fracture flow with sudden expansion. Hydrological Processes, 2016, 30, 1718-1726.	2.6	23
29	Base flow recession from unsaturatedâ€saturated porous media considering lateral unsaturated discharge and aquifer compressibility. Water Resources Research, 2017, 53, 7832-7852.	4.2	22
30	Characteristics of Nano-Micro Pore Networks and Petroleum Microscopic Occurrence State in Ultra-Low Permeability (Tight) Sandstone Reservoir. Journal of Nanoscience and Nanotechnology, 2017, 17, 6039-6050.	0.9	22
31	Gas flow to a barometric pumping well in a multilayer unsaturated zone. Water Resources Research, 2011, 47, .	4.2	21
32	Intrawellbore kinematic and frictional losses in a horizontal well in a bounded confined aquifer. Water Resources Research, 2017, 53, 127-141.	4.2	21
33	Effect of randomly distributed fibre on triaxial shear behavior of loess. Bulletin of Engineering Geology and the Environment, 2020, 79, 1555-1563.	3.5	21
34	Twoâ€dimensional flow response to tidal fluctuation in a heterogeneous aquiferâ€aquitard system. Hydrological Processes, 2015, 29, 927-935.	2.6	19
35	Subsurface solute transport with one-, two-, and three-dimensional arbitrary shape sources. Journal of Contaminant Hydrology, 2016, 190, 44-57.	3.3	19
36	Influence of Tight Sandstone Micro-Nano Pore-Throat Structures on Petroleum Accumulation: Evidence from Experimental Simulation Combining X-ray Tomography. Journal of Nanoscience and Nanotechnology, 2017, 17, 6459-6469.	0.9	19

#	Article	IF	Citations
37	Models of Singleâ€Well Pushâ€Pull Test With Mixing Effect in the Wellbore. Water Resources Research, 2018, 54, 10,155.	4.2	19
38	Pore-Scale CO₂ Displacement Simulation Based on the Three Fluid Phase Lattice Boltzmann Method. Energy & Fuels, 2019, 33, 10039-10055.	5.1	19
39	Vapor Flow to Horizontal Wells in Unsaturated Zones. Soil Science Society of America Journal, 2002, 66, 710-721.	2.2	17
40	Aquitard Horizontal Dispersion on Reactive Solute Transport in an Aquiferâ€“Aquitard System. Transport in Porous Media, 2016, 113, 695-716.	2.6	17
41	Linkages between Large-Scale Climate Patterns and Karst Spring Discharge in Northern China. Journal of Hydrometeorology, 2016, 17, 713-724.	1.9	17
42	Aquitard effect on drawdown in water table aquifers. Water Resources Research, 2005, 41, .	4.2	16
43	What can be learned from sequential multi-well pumping tests in fracture-karst media? A case study in Zhangji, China. Hydrogeology Journal, 2009, 17, 1749-1760.	2.1	16
44	On Change of Soil Moisture Distribution With Vegetation Reconstruction in Mu Us Sandy Land of China, With Newly Designed Lysimeter. Frontiers in Plant Science, 2021, 12, 609529.	3.6	16
45	Application of Wavelet Coherence Method to Investigate Karst Spring Discharge Response to Climate Teleconnection Patterns. Journal of the American Water Resources Association, 2016, 52, 1281-1296.	2.4	15
46	The Stability of Tailings Dams under Dry-Wet Cycles: A Case Study in Luonan, China. Water (Switzerland), 2018, 10, 1048.	2.7	15
47	An Innovative Method to Evaluate Hydraulic Conductivity of a Single Rock Fracture Based on Geometric Characteristics. Rock Mechanics and Rock Engineering, 2020, 53, 4767-4786.	5.4	15
48	Probabilistic multi-objective optimization for landslide reinforcement with stabilizing piles in Zigui Basin of Three Gorges Reservoir region, China. Stochastic Environmental Research and Risk Assessment, 2020, 34, 807-824.	4.0	15
49	Hydraulic conductivity of soil-bentonite backfill comprised of SHMP-amended Ca-bentonite to Cr(VI)-impacted groundwater. Journal of Contaminant Hydrology, 2021, 242, 103856.	3.3	15
50	Experimental Study of the Adsorption of Nitrogen and Phosphorus by Natural Clay Minerals. Adsorption Science and Technology, 2021, 2021, .	3.2	14
51	Analytical and Numerical Modeling of a Double Well Capture Zone. Mathematical Geosciences, 1999, 31, 175-193.	0.9	13
52	Oneâ€dimensional solute transport in a permeable reactive barrierâ€“aquifer system. Water Resources Research, 2009, 45, .	4.2	13
53	A Novel Unsteady Fractal Derivative Creep Model for Soft Interlayers with Varying Water Contents. KSCE Journal of Civil Engineering, 2019, 23, 5064-5075.	1.9	13
54	New graphical methods for estimating aquifer hydraulic parameters using pumping tests with exponentially decreasing rates. Hydrological Processes, 2019, 33, 2314-2322.	2.6	13

#	ARTICLE	IF	CITATIONS
55	Upscaling of Dynamic Capillary Pressure of Twoâ€Phase Flow in Sandstone. Water Resources Research, 2019, 55, 426-443.	4.2	13
56	Effect of Roughness on Conservative Solute Transport through Synthetic Rough Single Fractures. Water (Switzerland), 2017, 9, 656.	2.7	12
57	Underdamped slug tests with unsaturatedâ€saturated flows by considering effects of wellbore skins. Hydrological Processes, 2018, 32, 968-980.	2.6	12
58	A simple method of transport parameter estimation for slug injecting tracer tests in porous media. Science of the Total Environment, 2018, 644, 1536-1546.	8.0	12
59	On the Origin of Deep Soil Water Infiltration in the Arid Sandy Region of China. Water (Switzerland), 2020, 12, 2409.	2.7	12
60	Numerical simulation and evaluation of groundwater resources in a fractured chalk aquifer: a case study in Zinder well field, Niger. Environmental Earth Sciences, 2014, 72, 3053-3065.	2.7	11
61	New Simplified Models of Singleâ€Well Pushâ€Pull Tests With Mixing Effect. Water Resources Research, 2020, 56, e2019WR026802.	4.2	11
62	New Comparative Experiments of Different Soil Types for Farmland Water Conservation in Arid Regions. Water (Switzerland), 2018, 10, 298.	2.7	10
63	A Mathematical Model for Determining Oil Migration Characteristics in Low-Permeability Porous Media Based on Fractal Theory. Transport in Porous Media, 2019, 129, 633-652.	2.6	10
64	Effect of long-term saline mulched drip irrigation on soil-groundwater environment in arid Northwest China. Science of the Total Environment, 2022, 820, 153222.	8.0	10
65	Using Ensemble Data Assimilation to Estimate Transient Hydrologic Exchange Flow Under Highly Dynamic Flow Conditions. Water Resources Research, 2022, 58, .	4.2	10
66	Laboratory observations for two-dimensional solute transport in an aquifer-aquitard system. Environmental Science and Pollution Research, 2021, 28, 38664-38678.	5.3	9
67	Vapor Flow to Horizontal Wells in Unsaturated Zones. Soil Science Society of America Journal, 2002, 66, 710.	2.2	9
68	Optimization Strategies for in Situ Groundwater Remediation by a Vertical Circulation Well Based on Particleâ€Tracking and Nodeâ€Dependent Finite Difference Methods. Water Resources Research, 2020, 56, e2020WR027396.	4.2	8
69	On Inflow to a Tunnel in a Fractured Doubleâ€Porosity Aquifer. Ground Water, 2021, 59, 562-570.	1.3	8
70	On the role of rock matrix to heat transfer in a fracture-rock matrix system. Journal of Contaminant Hydrology, 2022, 245, 103950.	3.3	8
71	Slope reliability analysis through Bayesian sequential updating integrating limited data from multiple estimation methods. Landslides, 2022, 19, 1101-1117.	5.4	8
72	On the origin of oil-field water in the Biyang Depression of China. Environmental Geology, 2009, 58, 1191-1196.	1.2	7

#	Article	IF	Citations
73	Analysis of models for induced gas flow in the unsaturated zone. Water Resources Research, 2011, 47, .	4.2	7
74	Applicability of the Linearized Governing Equation of Gas Flow in Porous Media. Transport in Porous Media, 2011, 87, 815-834.	2.6	7
75	Asphaltene Deposition Preference and Permeability Reduction Mechanisms in Oil Reservoirs: Evidence from Combining X-ray Microtomography with Fluorescence Microscopy. Energy & Fuels, 2017, 31, 10467-10478.	5.1	7
76	Oil-Charging Pore-Throat Radius Threshold of Tight Reservoirs: A Comparison on Multi-Method Calculation Results. Journal of Nanoscience and Nanotechnology, 2017, 17, 6067-6076.	0.9	7
77	On the Ergodicity Hypothesis in Heterogeneous Formations. Mathematical Geosciences, 1999, 31, 113-134.	0.9	6
78	One-dimensional analytical solution for hydraulic head and numerical solution for solute transport through a horizontal fracture for submarine groundwater discharge. Journal of Contaminant Hydrology, 2017, 206, 1-9.	3.3	5
79	The influence of large-scale climate phenomena on precipitation in the Ordos Basin, China. Theoretical and Applied Climatology, 2017, 130, 791-805.	2.8	5
80	Resolution effect on image-based conventional and tight sandstone pore space reconstructions: Origins and strategies. Journal of Hydrology, 2020, 586, 124856.	5.4	5
81	Experimental investigation of solute transport across transition interface of porous media under reversible flow directions. Ecotoxicology and Environmental Safety, 2022, 238, 113566.	6.0	5
82	Analytical Solution to Subsurface Air Pressure in a Three-Layer Unsaturated Zone with Atmospheric Pressure Changes. Transport in Porous Media, 2012, 93, 461-474.	2.6	4
83	The Influence of Episodic Shallow Magma Degassing on Heat and Chemical Transport in Volcanic Hydrothermal Systems. Geophysical Research Letters, 2018, 45, 3068-3076.	4.0	4
84	Assessing titanium dioxide nanoparticles transport models by Bayesian uncertainty analysis. Stochastic Environmental Research and Risk Assessment, 2018, 32, 3365-3379.	4.0	4
85	On Riverâ€Aquifer Exchange Flow With Irregular and Semipervious Bank. Water Resources Research, 2021, 57, e2020WR028984.	4.2	4
86	Groundwater response to dual tidal fluctuations in a peninsula or an elongated island. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 2456-2470.	3.3	3
87	Determining air permeability in reclaimed coastal land based on tidal fluctuations. Environmental Earth Sciences, 2012, 66, 1259-1268.	2.7	2
88	The Transboundary Nature of the Allendeâ€“Piedras Negras Aquifer Using a Numerical Model Approach. Journal of the American Water Resources Association, 2020, 56, 387-408.	2.4	2
89	Influence of Boundary Layer on Oil Migration into Tight Reservoirs. Transport in Porous Media, 2021, 137, 87-107.	2.6	2
90	Sorption of Monothioarsenate to the Natural Sediments and Its Competition with Arsenite and Arsenate. International Journal of Environmental Research and Public Health, 2021, 18, 12839.	2.6	2

#	Article	IF	Citations
91	Editorial of Special Issue â€œAdvances in Groundwater Flow and Solute Transport: Pushing the Hidden Boundaryâ€• Water (Switzerland), 2019, 11, 457.	2.7	1
92	Reply to Comment by Roques et al. on â€œBase Flow Recession from Unsaturated-Saturated Porous Media considering Lateral Unsaturated Discharge and Aquifer Compressibilityâ€• Water Resources Research, 2018, 54, 3220-3222.	4.2	0
93	A semianalytical solution of the modified twoâ€dimensional diffusive root growth model. Vadose Zone Journal, 2021, 20, e20132.	2.2	0