

# Hui-lin Xing

## List of Publications by Year in descending order

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85  
papers

1,668  
citations

304602

22  
h-index

330025

37  
g-index

86  
all docs

86  
docs citations

86  
times ranked

1493  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on hydraulic fracturing of unconventional reservoir. <i>Petroleum</i> , 2015, 1, 8-15.	1.3	206
2	A three-dimensional numerical investigation of the fracture of rock specimens containing a pre-existing surface flaw. <i>Computers and Geotechnics</i> , 2012, 45, 19-33.	2.3	152
3	A DEM study on the effective thermal conductivity of granular assemblies. <i>Powder Technology</i> , 2011, 205, 172-183.	2.1	85
4	Numerical analysis and design for tubular hydroforming. <i>International Journal of Mechanical Sciences</i> , 2001, 43, 1009-1026.	3.6	75
5	Three dimensional finite element modeling of thermomechanical frictional contact between finite deformation bodies using R-minimum strategy. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2002, 191, 4193-4214.	3.4	57
6	Hydrological response of loess slopes with reference to widespread landslide events in the Heifangtai terrace, NW China. <i>Journal of Asian Earth Sciences</i> , 2019, 171, 259-276.	1.0	55
7	Lattice Boltzmann modeling and evaluation of fluid flow in heterogeneous porous media involving multiple matrix constituents. <i>Computers and Geosciences</i> , 2014, 62, 198-207.	2.0	38
8	Hydro-mechanical Coupling Response Behaviors in Tunnel Subjected to a Water-Filled Karst Cave. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 3737-3756.	2.6	38
9	Finite element modeling of interacting fault systems. <i>Physics of the Earth and Planetary Interiors</i> , 2007, 163, 106-121.	0.7	35
10	Reactive transport in porous media for CO <sub>2</sub> sequestration: Pore scale modeling using the lattice Boltzmann method. <i>Computers and Geosciences</i> , 2017, 98, 9-20.	2.0	35
11	Three-dimensional finite element simulation of large-scale nonlinear contact friction problems in deformable rocks. <i>Journal of Geophysics and Engineering</i> , 2008, 5, 27-36.	0.7	31
12	A double hardening thermo-mechanical constitutive model for overconsolidated clays. <i>Acta Geotechnica</i> , 2009, 4, 1-6.	2.9	31
13	Numerical modeling of non-Darcy flow in near-well region of a geothermal reservoir. <i>Geothermics</i> , 2012, 42, 78-86.	1.5	28
14	Permeability enhancement of coal by chemical-free fracturing using high-voltage electrohydraulic discharge. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 57, 1-10.	2.1	28
15	Reactive transport LBM model for CO <sub>2</sub> injection in fractured reservoirs. <i>Computers and Geosciences</i> , 2016, 86, 15-22.	2.0	27
16	Comparison of linear and nonlinear shallow wave water equations applied to tsunami waves over the China Sea. <i>Acta Geotechnica</i> , 2009, 4, 129-137.	2.9	26
17	Ejection Landslide at Northern Terminus of Beichuan Rupture Triggered by the 2008 Mw 7.9 Wenchuan Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 2689-2699.	1.1	26
18	Finite element simulation of transient geothermal flow in extremely heterogeneous fractured porous media. <i>Journal of Geochemical Exploration</i> , 2014, 144, 168-178.	1.5	25

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19	Experimental Study on Low-Strength Similar-Material Proportioning and Properties for Coal Mining. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-6.	1.0	25
20	Numerical analysis of the material parameter effects on the initiation of hydraulic fracture in a near wellbore region. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 1597-1608.	2.1	25
21	Brittle Rock Modeling Approach and its Validation Using Excavation-Induced Micro-Seismicity. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3175-3188.	2.6	24
22	A coupled lattice Boltzmann model for simulating reactive transport in CO <sub>2</sub> injection. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 403, 155-164.	1.2	22
23	Recent development in numerical simulation of enhanced geothermal reservoirs. <i>Journal of Earth Science (Wuhan, China)</i> , 2015, 26, 28-36.	1.1	22
24	Pore-scale simulation of effects of coal wettability on bubble-water flow in coal cleats using lattice Boltzmann method. <i>Chemical Engineering Science</i> , 2017, 161, 57-66.	1.9	22
25	Characterisation and evaluation of shockwave generation in water conditions for coal fracturing. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 66, 255-264.	2.1	22
26	Low-Strength Similar Materials for Backfill Mining: Insight from Experiments on Components and Influence Mechanism. <i>Geotechnical Testing Journal</i> , 2015, 38, 20140103.	0.5	21
27	Finite-element analysis and design of thin sheet superplastic forming. <i>Journal of Materials Processing Technology</i> , 1997, 68, 1-7.	3.1	20
28	Fluid focusing and its link to vertical morphological zonation at the Dajishan vein-type tungsten deposit, South China. <i>Ore Geology Reviews</i> , 2014, 62, 245-258.	1.1	20
29	Influences of fluid properties on the hydrothermal fluid flow and alteration halos at the Dajishan tungsten deposit, China. <i>Journal of Geochemical Exploration</i> , 2016, 163, 53-69.	1.5	20
30	Pore-Scale Numerical Investigation on Chemical Stimulation in Coal and Permeability Enhancement for Coal Seam Gas Production. <i>Transport in Porous Media</i> , 2017, 116, 335-351.	1.2	20
31	The splicing of backscattered scanning electron microscopy method used on evaluation of microscopic pore characteristics in shale sample and compared with results from other methods. <i>Journal of Petroleum Science and Engineering</i> , 2018, 160, 207-218.	2.1	20
32	Pore-scale study of the effects of surface roughness on relative permeability of rock fractures using lattice Boltzmann method. <i>Chemical Engineering Science</i> , 2019, 209, 115178.	1.9	20
33	Identifying crack initiation stress threshold in brittle rocks using axial strain stiffness characteristics. <i>Journal of Mountain Science</i> , 2018, 15, 1371-1382.	0.8	19
34	An indirect approach for automatic generation of quadrilateral meshes with arbitrary line constraints. <i>International Journal for Numerical Methods in Engineering</i> , 2011, 87, 906-922.	1.5	16
35	Numerical modelling of fracturing effect stimulated by pulsating hydraulic fracturing in coal seam gas reservoir. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 46, 651-663.	2.1	16
36	Chemical responses to hydraulic fracturing and wolframite precipitation in the vein-type tungsten deposits of southern China. <i>Ore Geology Reviews</i> , 2018, 102, 44-58.	1.1	16

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37	3D Mesh Generation in Geocomputing. Lecture Notes in Earth Sciences, 2009, , 27-64.	0.5	16
38	Construction of an Intraplate Fault System Model of South Australia, and Simulation Tool for the iSERVO Institute Seed Project. Pure and Applied Geophysics, 2006, 163, 2297-2316.	0.8	15
39	The mechanisms of the infill textures and its implications for the five-floor zonation at the Dajishan vein-type tungsten deposit, China. Ore Geology Reviews, 2015, 65, 365-374.	1.1	15
40	Numerical modelling of acoustic stimulation induced mechanical vibration enhancing coal permeability. Journal of Natural Gas Science and Engineering, 2016, 36, 786-799.	2.1	15
41	Mathematical modelling of cumulative erosion ratio for suffusion in soils. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2021, 174, 241-251.	0.9	15
42	Gas storage potential and electrohydraulic discharge (EHD) stimulation of coal seam interburden from the Surat Basin. International Journal of Coal Geology, 2019, 208, 24-36.	1.9	14
43	Prediction and control of cavity growth during superplastic sheet forming with finite-element modeling. Journal of Materials Processing Technology, 1998, 75, 87-93.	3.1	13
44	A preform design method for sheet superplastic bulging with finite element modeling. Journal of Materials Processing Technology, 2004, 151, 284-288.	3.1	12
45	Parallel Lattice Boltzmann Computing and Applications in Core Sample Feature Evaluation. Transport in Porous Media, 2015, 107, 65-77.	1.2	12
46	Quantifying the impact of capillary trapping on coal seam gas recovery. Journal of Natural Gas Science and Engineering, 2020, 83, 103588.	2.1	12
47	A boundary focused quadrilateral mesh generation algorithm for multi-material structures. Journal of Computational Physics, 2013, 232, 516-528.	1.9	11
48	Evaluation of the Adsorbed Gas Amount in a Shale Reservoir Using the Three Compositions Adsorbing Methane (TCAM) Method: A Case from the Longmaxi Shale in Southeast Chongqing, China. Energy & Fuels, 2017, 31, 11523-11531.	2.5	11
49	Caving-induced fault reactivation behaviour and its effects on mining safety with a multiple seam context. Acta Geotechnica, 2020, 15, 3461-3481.	2.9	11
50	An adaptive mesh h-refinement algorithm for the finite-element modeling of sheet forming. Journal of Materials Processing Technology, 1999, 91, 183-190.	3.1	9
51	Tsunami Hazards along the Eastern Australian Coast from Potential Earthquakes: Results from Numerical Simulations. Pure and Applied Geophysics, 2015, 172, 2087-2115.	0.8	9
52	A finite element analysis of tidal deformation of the entire earth with a discontinuous outer layer. Geophysical Journal International, 2007, 170, 961-970.	1.0	8
53	Influences of Hydraulic Fracturing on Fluid Flow and Mineralization at the Vein-Type Tungsten Deposits in Southern China. Geofluids, 2017, 2017, 1-11.	0.3	7
54	Finite element lattice Boltzmann method for fluid flow through complex fractured media with permeable matrix. Advances in Water Resources, 2018, 119, 28-40.	1.7	7

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55	Large intraplate earthquakes and static stress changes in the South China coastal region. <i>Gondwana Research</i> , 2022, 102, 46-59.	3.0	7
56	Mesh Generation for 3D Geological Reservoirs with Arbitrary Stratigraphic Surface Constraints. <i>Procedia Computer Science</i> , 2014, 29, 897-909.	1.2	6
57	A new method for determining the equivalent permeability of a cleat dominated coal sample. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 34, 280-290.	2.1	6
58	Continental Earthquakes: Physics, Simulation, and Data Science—Introduction. <i>Pure and Applied Geophysics</i> , 2020, 177, 1-8.	0.8	6
59	An advanced superplastic sheet-forming machine controlled by microcomputer. <i>Journal of Materials Processing Technology</i> , 1995, 55, 43-47.	3.1	5
60	Earthquake Trend Around Sumatra Indicated by a New Implementation of LURR Method. <i>Pure and Applied Geophysics</i> , 2008, 165, 723-736.	0.8	5
61	Automated quadrilateral mesh generation for digital image structures. <i>Theoretical and Applied Mechanics Letters</i> , 2011, 1, 061001.	1.3	4
62	Influences of the intersection angle between interlayer and in situ stresses during hydraulic fracturing process. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 36, 963-985.	2.1	4
63	Impact of capillary trapping on CSG recovery: an overlooked phenomenon. <i>APPEA Journal</i> , 2019, 59, 343.	0.4	4
64	Data-driven discovery of governing equations for transient heat transfer analysis. <i>Computational Geosciences</i> , 2022, 26, 613-631.	1.2	4
65	Gravity changes caused by crustal fluids invasion: A perspective from finite element modeling. <i>Tectonophysics</i> , 2022, , 229335.	0.9	4
66	Finite element modelling of non-linear deformation of rate-dependent materials using a R-minimum strategy. <i>Acta Geotechnica</i> , 2009, 4, 139-148.	2.9	3
67	An Integrated Approach of Numerical Well Test for Well Intersecting Fractures Based on FMI Image. <i>Lithosphere</i> , 2022, 2021, .	0.6	3
68	Regional stress fields under Tibet from 3D global flow simulation. <i>Journal of Earth Science (Wuhan)</i> , 2021, 42, 111-117.	1.1	2
69	Surface Mesh Generation of Large-scale Digital Rock Images in 3D. <i>Procedia Computer Science</i> , 2013, 18, 1208-1216.	1.2	2
70	A feature extracting and meshing approach for sheet-like structures in rocks. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 276, 396-409.	3.4	2
71	Gas generation characteristics of the lower cambrian niutitang shale in qiannan depression, China. <i>Petroleum Science and Technology</i> , 2017, 35, 1209-1216.	0.7	2
72	The mechanisms and time scale of alteration halos in vein-type tungsten deposits in southern China. <i>Ore Geology Reviews</i> , 2017, 89, 1019-1029.	1.1	2

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73	An improved capillary pressure model for coal seam gas reservoirs. Journal of Natural Gas Science and Engineering, 2022, , 104551.	2.1	2
74	An effective 3D meshing approach for fractured rocks. International Journal for Numerical Methods in Engineering, 2016, 107, 363-376.	1.5	1
75	Hydraulic Fracturing Leads to Wolframite Deposition at Magmatic-Hydrothermal transition. Acta Geologica Sinica, 2018, 92, 862-863.	0.8	1
76	Numerical analysis of cleat effects on ultrasonic wave propagation in coal. Proceedings of Meetings on Acoustics, 2019, , .	0.3	1
77	Numerical Simulation of Cracking Behavior of Pre-cracked Rock under Mechanical-Hydraulic Loading. Geofluids, 2020, 2020, 1-14.	0.3	1
78	Probabilistic Forecast of Tsunami Hazards along Chinese Coast. Lecture Notes in Earth Sciences, 2009, , 279-317.	0.5	1
79	Tracking and modelling water percolation process in modern intensive farming loess terraces. Catena, 2022, 210, 105930.	2.2	1
80	ACcESS: Australia's Contribution to the iSERVO Institute's Development. Computing in Science and Engineering, 2005, 7, 27-37.	1.2	0
81	Geodynamic modeling. Acta Geotechnica, 2009, 4, 149-149.	2.9	0
82	Numerical simulation of coal cleat effects on ultrasonic wave induced mechanical vibration enhancing permeability. , 2019, , .		0
83	Simulation of Effects of Incident Angles and Frequencies of Ultrasonic Waves on Wave Energy Propagation and Variation of Cleat Width Induced by Ultrasonic Waves. Pure and Applied Geophysics, 2021, 178, 1281-1296.	0.8	0
84	An Elastoplastic Model Considering Sand Crushing. Lecture Notes in Computer Science, 2007, , 1146-1150.	1.0	0
85	Theoretical research of pressure propagation in pulsating hydraulic fracturing for coal permeability enhancement. International Journal of Oil, Gas and Coal Technology, 2018, 17, 91.	0.1	0