

Gangwei Fan

List of Publications by Year in descending order

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55
papers

890
citations

567281

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57
all docs

57
docs citations

57
times ranked

617
citing authors

#	ARTICLE	IF	CITATIONS
1	Aquifer protection during longwall mining of shallow coal seams: A case study in the Shendong Coalfield of China. <i>International Journal of Coal Geology</i> , 2011, 86, 190-196.	5.0	137
2	Field trials of aquifer protection in longwall mining of shallow coal seams in China. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2010, 47, 908-914.	5.8	73
3	Reduction and utilization of coal mine waste rock in China: A case study in Tiefsa coalfield. <i>Resources, Conservation and Recycling</i> , 2014, 83, 24-33.	10.8	57
4	Prediction of water resource carrying capacity by the analytic hierarchy process-fuzzy discrimination method in a mining area. <i>Ecological Indicators</i> , 2019, 96, 647-655.	6.3	52
5	Pillar size optimization design of isolated island panel gob-side entry driving in deep inclined coal seam—case study of Pingmei No. 6 coal seam. <i>Journal of Geophysics and Engineering</i> , 2018, 15, 816-828.	1.4	48
6	Mechanisms of Aquifer Protection in Underground Coal Mining. <i>Mine Water and the Environment</i> , 2015, 34, 95-104.	2.0	43
7	Harmony of large-scale underground mining and surface ecological environment protection in desert district - a case study in Shendong mining area, northwest of China. <i>Procedia Earth and Planetary Science</i> , 2009, 1, 1114-1120.	0.6	38
8	Optimal injection timing and gas mixture proportion for enhancing coalbed methane recovery. <i>Energy</i> , 2021, 222, 119880.	8.8	34
9	Mechanism of mining-induced slope movement for gullies overlaying shallow coal seams. <i>Journal of Mountain Science</i> , 2013, 10, 388-397.	2.0	28
10	Characteristics and stability of slope movement response to underground mining of shallow coal seams away from gullies. <i>International Journal of Mining Science and Technology</i> , 2012, 22, 47-50.	10.3	23
11	Assessment and Prevention of Water and Sand Inrush Associated with Coal Mining Under a Water-filled Buried Gully: A Case Study. <i>Mine Water and the Environment</i> , 2018, 37, 565-576.	2.0	20
12	Physical simulation research on evolution laws of clay aquifuge stability during slice mining. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	19
13	Study on material properties and similar material proportion of weakly cemented water-resisting strata. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	17
14	Numerical simulation analysis by solid-liquid coupling with 3DEC of dynamic water cracks in overlying strata. <i>Mining Science and Technology</i> , 2008, 18, 347-352.	0.8	15
15	Determination of the Height of the Water-Conducting Fractured Zone in Difficult Geological Structures: A Case Study in Zhao Gu No. 1 Coal Seam. <i>Sustainability</i> , 2017, 9, 1077.	3.2	15
16	Impacts of longwall mining speeds on permeability of weakly cemented strata and subsurface watertable: a case study. <i>Geomatics, Natural Hazards and Risk</i> , 2021, 12, 3063-3088.	4.3	15
17	Stabilization of Gob-Side Entry with an Artificial Side for Sustaining Mining Work. <i>Sustainability</i> , 2016, 8, 627.	3.2	14
18	Inorganic Cement Grouting for Reinforcing Triangular Zone of Highly Gassy Coal Face with Large Mining Height. <i>Energies</i> , 2018, 11, 2549.	3.1	14

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19	Experimental Study on the Permeability of Weakly Cemented Rock under Different Stress States in Triaxial Compression Tests. <i>Geofluids</i> , 2018, 2018, 1-9.	0.7	14
20	Non-Darcy thermal-hydraulic-mechanical damage model for enhancing coalbed methane extraction. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 93, 104048.	4.4	14
21	Effect of mining parameters on surface deformation and coal pillar stability under customized shortwall mining of deep extra-thick coal seams. <i>Energy Reports</i> , 2021, 7, 2138-2154.	5.1	14
22	Dual-hazard control mechanism of burst-prone and spontaneous combustion coalface considering effect of retreat speed. <i>Energy Reports</i> , 2021, 7, 278-288.	5.1	13
23	Experimental study on the influence of hydro-chemical erosion on morphology parameters and shear properties of limestone fractures. <i>Acta Geotechnica</i> , 2021, 16, 3867-3880.	5.7	12
24	Evaluation of eco-environmental quality for the coal-mining region using multi-source data. <i>Scientific Reports</i> , 2022, 12, 6623.	3.3	12
25	Structural effect of a soft-hard backfill wall in a gob-side roadway. <i>Mining Science and Technology</i> , 2011, 21, 313-318.	0.3	11
26	Technology of groundwater reservoir construction in goafs of shallow coalfields. <i>Mining Science and Technology</i> , 2009, 19, 730-735.	0.3	10
27	Aquifer-protective mining technique and its application in shallowly buried coal seams in Northwest of China. <i>Procedia Earth and Planetary Science</i> , 2009, 1, 60-67.	0.6	10
28	Underground pressure characteristics analysis in back-gully mining of shallow coal seam under a bedrock gully slope. <i>Mining Science and Technology</i> , 2011, 21, 23-27.	0.3	10
29	Mechanism of Roof Shock in Longwall Coal Mining under Surface Gully. <i>Shock and Vibration</i> , 2015, 2015, 1-8.	0.6	9
30	Prediction of top-coal caving and drawing characteristics by the analytic hierarchy process-fuzzy discrimination method in extra-thick coal seams. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017, 33, 2533-2545.	1.4	9
31	Representation of mining permeability and borehole layout optimization for efficient methane drainage. <i>Energy Reports</i> , 2021, 7, 3911-3921.	5.1	9
32	An Index of Aquiclude Destabilization for Mining-Induced Roof Water Inrush Forecasting: A Case Study. <i>Water (Switzerland)</i> , 2019, 11, 2170.	2.7	8
33	Laws and mechanisms of slope movement due to shallowly buried coal seam mining under ground gully. <i>Science in China Series A: Mathematics</i> , 2009, 15, 346-350.	0.2	7
34	Impact of Mine Panel Size on Hydraulic Permeability of Weakly Cemented Strata. <i>Sustainability</i> , 2020, 12, 2396.	3.2	7
35	Permeability and Energy Evolution Characteristics of Heterogeneous Coal and Rock Mass. <i>Natural Resources Research</i> , 2021, 30, 4493-4514.	4.7	6
36	The support stability mechanism in dip direction of fully mechanised working face with big dip angle considering the strike angle. <i>International Journal of Oil, Gas and Coal Technology</i> , 2015, 9, 61.	0.2	5

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37	Disaster Control of Roof Falling in Deep Coal Mine Roadway Subjected to High Abutment Pressure. <i>Geofluids</i> , 2021, 2021, 1-17.	0.7	5
38	Influence of Stress and Crack Patterns on the Sensitive Characteristics of Fissure Sandstone Permeability under Hydromechanical Coupling. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 641.	2.5	4
39	Triaxial test on the response of mechanical property of frozen body in unconsolidated aquifer to mining-induced stress. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, 1.	3.5	4
40	Mining-induced variation in water levels in unconsolidated aquifers and mechanisms of water preservation in mines. <i>Mining Science and Technology</i> , 2010, 20, 814-819.	0.3	3
41	Applicable conditions for a classification system of aquifer-protective mining in shallow coal seams. <i>Mining Science and Technology</i> , 2011, 21, 381-387.	0.3	3
42	Fracture Propagation and Hydraulic Properties of a Coal Floor Subjected to Thick-Seam Longwalling above a Highly Confined Aquifer. <i>Geofluids</i> , 2021, 2021, 1-12.	0.7	3
43	Suitable layout of gate roads related to slice mining in an ultra-thick unstable coal seam. <i>Mining Science and Technology</i> , 2011, 21, 563-566.	0.3	2
44	Feasibility study on fully mechanized large mining height long wall top-coal caving mining in ultra-thick (20~30 m), parting-rich coal seams: A case study of the Laosangou mining field in China. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-24.	2.3	2
45	Impacts of Underground Coal Mining on the Roots of Xeromorphic Plant: A Case Study. <i>Environmental Engineering Science</i> , 2021, 38, 500-512.	1.6	2
46	Aquiclude Stability Evaluation and Significance Analysis of Influencing Factors of Close-Distance Coal Seams: A Case Study of the Yili No. 4 Coal Mine in Xinjiang, China. <i>Geofluids</i> , 2021, 2021, 1-17.	0.7	2
47	A New Repeated Mining Method With Preexisting Damage Zones Filled for Ultra-Thick Coal Seam Extraction – Case Study. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	2
48	Numerical Simulation of Crack Initiation and Propagation Evolution Law of Hydraulic Fracturing Holes in Coal Seams Considering Permeability Anisotropy and Damage. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 494.	2.0	2
49	Coupling Influence of Inclination Angle and Moisture Content on Mechanical Properties and Microcrack Fracture of Coal Specimens. <i>Lithosphere</i> , 2022, 2021, .	1.4	2
50	Experimental Investigation on Post-Peak Permeability Evolution Law of Saturated Sandstone under Various Cyclic Loading–Unloading and Confining Pressure. <i>Water (Switzerland)</i> , 2022, 14, 1773.	2.7	2
51	Design of comprehensive test system for detecting overlying strata mining-induced fractures on surface with radon gas. <i>Mining Science and Technology</i> , 2011, 21, 823-827.	0.3	1
52	Fracture Zonation for Overlying Strata in Underground Mining of Shallow Coal Seam. <i>Advanced Materials Research</i> , 2012, 594-597, 2607-2611.	0.3	1
53	Mechanism of Secondary Breakage in the Overlying Strata during Repetitious Mining of an Ultrathick Coal Seam in Design Stage. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-10.	0.7	1
54	Clean Mining Technology of Waste Not Discharged From Coal Mine. <i>Advanced Materials Research</i> , 2012, 524-527, 552-556.	0.3	0

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55	A Coal Bump Risk Assessment and Prediction Model Based on Multiparameter Indices. Geofluids, 2022, 2022, 1-10.	0.7	0