

# Zetian Zhang

## List of Publications by Year in descending order

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44  
papers

986  
citations

430874

18  
h-index

434195

31  
g-index

44  
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44  
docs citations

44  
times ranked

675  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deformation Damage and Energy Evolution Characteristics of Coal at Different Depths. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 1491-1503.	5.4	106
2	Acoustic Emission Characteristics and Damage Evolution of Coal at Different Depths Under Triaxial Compression. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 2063-2076.	5.4	86
3	Theoretical and experimental validation of mining-enhanced permeability for simultaneous exploitation of coal and gas. <i>Environmental Earth Sciences</i> , 2015, 73, 5951-5962.	2.7	83
4	Mining-Induced Coal Permeability Change Under Different Mining Layouts. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3753-3768.	5.4	75
5	Effect of thermal cycling-dependent cracks on physical and mechanical properties of granite for enhanced geothermal system. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 134, 104476.	5.8	54
6	The relationships among stress, effective porosity and permeability of coal considering the distribution of natural fractures: theoretical and experimental analyses. <i>Environmental Earth Sciences</i> , 2015, 73, 5997-6007.	2.7	47
7	Energy Evolution of Coal at Different Depths Under Unloading Conditions. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 4637-4649.	5.4	44
8	Urethane-Functionalized Graphene Oxide for Improving Compatibility and Thermal Conductivity of Waterborne Polyurethane Composites. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 7146-7155.	3.7	43
9	An anisotropic coal permeability model that considers mining-induced stress evolution, microfracture propagation and gas sorption-desorption effects. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 46, 664-679.	4.4	41
10	Size and spatial fractal distributions of coal fracture networks under different mining-induced stress conditions. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 132, 104364.	5.8	37
11	Long-term mechanical and acoustic emission characteristics of creep in deeply buried jinning marble considering excavation disturbance. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 139, 104603.	5.8	37
12	3D reconstruction method and connectivity rules of fracture networks generated under different mining layouts. <i>International Journal of Mining Science and Technology</i> , 2013, 23, 863-871.	10.3	33
13	The Stress Sensitivity and Porosity Sensitivity of Coal Permeability at Different Depths: A Case Study in the Pingdingshan Mining Area. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 1539-1563.	5.4	30
14	Numerical simulation of spatial distributions of mining-induced stress and fracture fields for three coal mining layouts. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2018, 10, 907-913.	8.1	27
15	Cellulose nanocrystals reinforced gelatin/bioactive glass nanocomposite scaffolds for potential application in bone regeneration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 984-998.	3.5	24
16	Characterization of Anisotropic Fracture Properties of Silurian Longmaxi Shale. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 665-678.	5.4	24
17	Anisotropy of the effective porosity and stress sensitivity of coal permeability considering natural fractures. <i>Energy Reports</i> , 2021, 7, 3898-3910.	5.1	23
18	Biomass/polyhedral oligomeric silsesquioxane nanocomposites: Advances in preparation strategies and performances. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49641.	2.6	20

#	ARTICLE	IF	CITATIONS
19	Acoustic Emission Characteristics and Damage Evolution of Rock under Different Loading Modes. <i>Energies</i> , 2020, 13, 3649.	3.1	18
20	Current Advances in the Roles of Doped Bioactive Metal in Biodegradable Polymer Composite Scaffolds for Bone Repair: A Mini Review. <i>Advanced Engineering Materials</i> , 2022, 24, .	3.5	17
21	Failure Behavior and Damage Characteristics of Coal at Different Depths under Triaxial Unloading Based on Acoustic Emission. <i>Energies</i> , 2020, 13, 4451.	3.1	12
22	Inversion Method of Initial In Situ Stress Field Based on BP Neural Network and Applying Loads to Unit Body. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-15.	0.7	10
23	The Effect of Bedding Structure on Mechanical Property of Coal. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-7.	1.8	9
24	Permeability evolution of unloaded coal samples at different loading rates. <i>Thermal Science</i> , 2014, 18, 1497-1504.	1.1	9
25	Preparation of renewable gallic acid-based self-healing waterborne polyurethane with dynamic phenol-carbamate network: toward superior mechanical properties and shape memory function. <i>Journal of Materials Science</i> , 2022, 57, 5679-5696.	3.7	9
26	Mechanical Behavior and Permeability Evolution of Coal under Different Mining-Induced Stress Conditions and Gas Pressures. <i>Energies</i> , 2020, 13, 2677.	3.1	8
27	Action of silicic acid derived from sodium silicate precursor toward improving performances of porous gelatin membrane. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48912.	2.6	7
28	Mining-induced mechanical response of coal and rock at different depths: a case study in the Pingdingshan Mining Area. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	1.3	7
29	Comparison and evaluation of in vitro degradation behaviors of organosilicone-modified gelatin hybrids. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 89, 370-379.	2.4	6
30	Enhancing thermal and mechanical properties of gelatin-based nanocomposite with aqueous dispersible multiple epoxy polyhedral oligomeric silsesquioxanes. <i>Journal of Materials Science</i> , 2021, 56, 8528-8543.	3.7	6
31	Numerical approach to the top coal caving process under different coal seam thicknesses. <i>Thermal Science</i> , 2015, 19, 1423-1428.	1.1	6
32	Characteristics Evolution of Multiscale Structures in Deep Coal under Liquid Nitrogen Freeze-Thaw Cycles. <i>Geofluids</i> , 2021, 2021, 1-9.	0.7	6
33	Porous organosilicone modified gelatin hybrids with controllable and homogeneous in vitro degradation behaviors for potential application as skin regeneration scaffold. <i>Polymer International</i> , 2019, 68, 1411-1419.	3.1	3
34	An Experimental Study on the Mechanical Properties of High-Temperature Granite under Natural Cooling and Water Cooling. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-11.	1.8	3
35	A Multiscale Simulation Method and Its Application to Determine the Mechanical Behavior of Heterogeneous Geomaterials. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-12.	1.8	2
36	Acoustic Emission Characteristics of Coal Samples under Different Stress Paths Corresponding to Different Mining Layouts. <i>Energies</i> , 2020, 13, 3295.	3.1	2

#	ARTICLE	IF	CITATIONS
37	Parametric Study of the Borehole Drilling in Jointed Rock Mass. <i>Geofluids</i> , 2021, 2021, 1-14.	0.7	2
38	Coal permeability and crack distribution characteristics in unloading confining pressure experiments under different water pressures. <i>Thermal Science</i> , 2017, 21, 241-249.	1.1	2
39	Migration of the Industrial Wastewater in Fractured Rock Masses Based on the Thermal-Hydraulic-Mechanical Coupled Model. <i>Geofluids</i> , 2021, 2021, 1-13.	0.7	2
40	Analysis of gas migration patterns in fractured coal rocks under actual mining conditions. <i>Thermal Science</i> , 2017, 21, 275-284.	1.1	2
41	Influence of the weight ratio of polydimethylsiloxane modified gelatin to silicone rubber on the potential performance of asymmetric bilayer membranes as wound dressings. <i>Polymer International</i> , 2019, 68, 1739-1747.	3.1	1
42	The Ultrasonic P-Wave Velocity-Stress Relationship and Energy Evolution of Sandstone under Uniaxial Loading-Unloading Conditions. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-11.	1.8	1
43	A new theoretical model for guiding the gas extraction in coal mines. <i>Thermal Science</i> , 2017, 21, 293-300.	1.1	1
44	Long-term creep behavior of deep-buried marble under different confining pressures. <i>Thermal Science</i> , 2019, 23, 653-660.	1.1	1