Wancheng Zhu

List of Publications by Citations

185 papers	6,082 citations	42 h-index	72 g-index
198 ext. papers	7,143 ext. citations	5.5 avg, IF	6.08 L-index

#	Paper	IF	Citations
185	Graphene/single-walled carbon nanotube hybrids: one-step catalytic growth and applications for high-rate Li-S batteries. *ACS Nano*, **2012**, 6, 10759-69	16.7	462
184	Micromechanical Model for Simulating the Fracture Process of Rock. *Rock Mechanics and Rock Engineering*, **2004**, 37, 25-56	5.7	238
183	Entrapment of sulfur in hierarchical porous graphene for lithium–sulfur batteries with high rate performance from −40 to 60 °C. *Nano Energy*, **2013**, 2, 314-321	17.1	204
182	Numerical simulation of Brazilian disk rock failure under static and dynamic loading. *International Journal of Rock Mechanics and Minings Sciences*, **2006**, 43, 236-252	6	163
181	Catalytic self-limited assembly at hard templates: a mesoscale approach to graphene nanoshells for lithium-sulfur batteries. *ACS Nano*, **2014**, 8, 11280-9	16.7	156
180	Interconnected carbon nanotube/graphene nanosphere scaffolds as free-standing paper electrode for high-rate and ultra-stable lithium–sulfur batteries. *Nano Energy*, **2015**, 11, 746-755	17.1	154
179	Numerical simulation on rockburst of underground opening triggered by dynamic disturbance. *Tunnelling and Underground Space Technology*, **2010**, 25, 587-599	5.7	145
178	Numerical investigation of coal and gas outbursts in underground collieries. *International Journal of Rock Mechanics and Minings Sciences*, **2006**, 43, 905-919	6	141
177	Aligned sulfur-coated carbon nanotubes with a polyethylene glycol barrier at one end for use as a high efficiency sulfur cathode. *Carbon*, **2013**, 58, 99-106	10.4	131
176	A model of coal–gas interaction under variable temperatures. *International Journal of Coal Geology*, **2011**, 86, 213-221	5.5	125
175	Thermal Exfoliation of Layered Metal-Organic Frameworks into Ultrahydrophilic Graphene Stacks and Their Applications in Li-S Batteries. *Advanced Materials*, **2017**, 29, 1702829	24	115
174	Simulation of progressive fracturing processes around underground excavations under biaxial compression. *Tunnelling and Underground Space Technology*, **2005**, 20, 231-247	5.7	114
173	3D Mesoporous Graphene: CVD Self-Assembly on Porous Oxide Templates and Applications in High-Stable Li-S Batteries. *Small*, **2015**, 11, 5243-52	11	110
172	A Quinonoid-Imine-Enriched Nanostructured Polymer Mediator for Lithium-Sulfur Batteries. *Advanced Materials*, **2017**, 29, 1606802	24	107
171	Numerical analysis of slope stability based on the gravity increase method. *Computers and Geotechnics*, **2009**, 36, 1246-1258	4.4	107
170	Numerical modeling on destress blasting in coal seam for enhancing gas drainage. *International Journal of Rock Mechanics and Minings Sciences*, **2013**, 59, 179-190	6	98
169	Analysis of coupled gas flow and deformation process with desorption and Klinkenberg effects in coal seams. *International Journal of Rock Mechanics and Minings Sciences*, **2007**, 44, 971-980	6	95

168	A coupled flow-stress-damage model for groundwater outbursts from an underlying aquifer into mining excavations. *International Journal of Rock Mechanics and Minings Sciences*, **2007**, 44, 87-97	6	83
167	Three-dimensional aluminum foam/carbon nanotube scaffolds as long- and short-range electron pathways with improved sulfur loading for high energy density lithium–sulfur batteries. *Journal of Power Sources*, **2014**, 261, 264-270	8.9	79
166	Numerical simulation on shear fracture process of concrete using mesoscopic mechanical model. *Construction and Building Materials*, **2002**, 16, 453-463	6.7	77
165	Numerical simulation on rock failure under combined static and dynamic loading during SHPB tests. *International Journal of Impact Engineering*, **2012**, 49, 142-157	4	73
164	Cathode materials based on carbon nanotubes for high-energy-density lithium–sulfur batteries. *Carbon*, **2014**, 75, 161-168	10.4	72
163	The Influence of Fracturing Fluids on Fracturing Processes: A Comparison Between Water, Oil and SC-CO2. *Rock Mechanics and Rock Engineering*, **2018**, 51, 299-313	5.7	71
162	Numerical simulation of the failure mechanism of circular tunnels in transversely isotropic rock masses. *Tunnelling and Underground Space Technology*, **2012**, 32, 231-244	5.7	69
161	Template growth of porous graphene microspheres on layered double oxide catalysts and their applications in lithium–sulfur batteries. *Carbon*, **2015**, 92, 96-105	10.4	68
160	Fatigue Behavior of Granite Subjected to Cyclic Loading Under Triaxial Compression Condition. *Rock Mechanics and Rock Engineering*, **2013**, 46, 1603-1615	5.7	68
159	Composite Cathodes Containing SWCNT@S Coaxial Nanocables: Facile Synthesis, Surface Modification, and Enhanced Performance for Li-Ion Storage. *Particle and Particle Systems Characterization*, **2013**, 30, 158-165	3.1	68
158	Determination of tensile strength and fracture toughness of concrete using notched 3-p-b specimens. *Engineering Fracture Mechanics*, **2016**, 160, 67-77	4.2	68
157	Current-density dependence of Li2S/Li2S2 growth in lithium–sulfur batteries. *Energy and Environmental Science*, **2019**, 12, 2976-2982	35.4	67
156	2D numerical simulation on excavation damaged zone induced by dynamic stress redistribution. *Tunnelling and Underground Space Technology*, **2014**, 43, 315-326	5.7	67
155	Fracture spacing in layered materials: A new explanation based on two-dimensional failure process modeling. *Numerische Mathematik*, **2008**, 308, 49-72	5.3	65
154	Influence of the geometry of partially-spanning joints on mechanical properties of rock in uniaxial compression. *Engineering Geology*, **2013**, 167, 134-147	6	58
153	High-pressure air blasting experiments on concrete and implications for enhanced coal gas drainage. *Journal of Natural Gas Science and Engineering*, **2016**, 36, 1253-1263	4.6	55
152	Analytical and Numerical Study on the Pillar Rockbursts Mechanism. *Rock Mechanics and Rock Engineering*, **2006**, 39, 445-467	5.7	53
151	Simulating excavation damaged zone around a circular opening under hydromechanical conditions. *International Journal of Rock Mechanics and Minings Sciences*, **2008**, 45, 815-830	6	52

150	Discrete element analysis of hydro-mechanical behavior of a pilot underground crude oil storage facility in granite in China. *Tunnelling and Underground Space Technology*, **2014**, 40, 75-84	5.7	49
149	Calendering of free-standing electrode for lithium-sulfur batteries with high volumetric energy density. *Carbon*, **2017**, 111, 493-501	10.4	48
148	Hydrothermal synthesis of mesoporous Mg3Si2O5(OH)4 microspheres as high-performance adsorbents for dye removal. *Chemical Engineering Journal*, **2018**, 334, 377-388	14.7	47
147	Microcrack-based geomechanical modeling of rock-gas interaction during supercritical CO2 fracturing. *Journal of Petroleum Science and Engineering*, **2018**, 164, 91-102	4.4	46
146	Estimation of the joint roughness coefficient of rock joints by consideration of two-order asperity and its application in double-joint shear tests. *Engineering Geology*, **2017**, 220, 243-255	6	45
145	Effects of local rock heterogeneities on the hydromechanics of fractured rocks using a digital-image-based technique. *International Journal of Rock Mechanics and Minings Sciences*, **2006**, 43, 1182-1199	6	45
144	Ionothermal confined self-organization for hierarchical porous magnesium borate superstructures as highly efficient adsorbents for dye removal. *Journal of Materials Chemistry A*, **2014**, 2, 19167-19179	13	44
143	Finite element analysis of the hydro-mechanical behavior of an underground crude oil storage facility in granite subject to cyclic loading during operation. *International Journal of Rock Mechanics and Minings Sciences*, **2015**, 73, 70-81	6	42
142	Hierarchical Carbon Nanotube/Carbon Black Scaffolds as Short- and Long-Range Electron Pathways with Superior Li-Ion Storage Performance. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 200-206	8.3	42
141	Robust growth of herringbone carbon nanofibers on layered double hydroxide derived catalysts and their applications as anodes for Li-ion batteries. *Carbon*, **2013**, 62, 393-404	10.4	42
140	Design and test aspects of a water curtain system for underground oil storage caverns in China. *Tunnelling and Underground Space Technology*, **2015**, 48, 20-34	5.7	36
139	Impact of Gas Adsorption Induced Coal Matrix Damage on the Evolution of Coal Permeability. *Rock Mechanics and Rock Engineering*, **2013**, 46, 1353-1366	5.7	36
138	Successive effect of rolling up, oriented attachment and Ostwald ripening on the hydrothermal formation of szaibelyite MgBO2(OH) nanowhiskers. *CrystEngComm*, **2009**, 11, 1910	3.3	35
137	Impact of gas adsorption-induced coal damage on the evolution of coal permeability. *International Journal of Rock Mechanics and Minings Sciences*, **2018**, 101, 89-97	6	34
136	Microseismicity Induced by Fault Activation During the Fracture Process of a Crown Pillar. *Rock Mechanics and Rock Engineering*, **2015**, 48, 1673-1682	5.7	33
135	Flux-Assisted Thermal Conversion Route to Pore-Free High Crystallinity Magnesium Borate Nanowhiskers at a Relatively Low Temperature. *Crystal Growth and Design*, **2008**, 8, 2938-2945	3.5	33
134	Damage analysis of rock mass coupling joints, water and microseismicity. *Tunnelling and Underground Space Technology*, **2018**, 71, 366-381	5.7	32
133	Hematite nanorods with tunable porous structure: Facile hydrothermal-calcination route synthesis, optical and photocatalytic properties. *Powder Technology*, **2014**, 266, 113-119	5.2	32

132	Assessment of Hydro-Mechanical Behavior of a Granite Rock Mass for a Pilot Underground Crude Oil Storage Facility in China. *Rock Mechanics and Rock Engineering*, **2015**, 48, 2459-2472	5.7	31
131	Numerical modelling of strata movement at footwall induced by underground mining. *International Journal of Rock Mechanics and Minings Sciences*, **2018**, 108, 142-156	6	31
130	Hydrothermal evolution, optical and electrochemical properties of hierarchical porous hematite nanoarchitectures. *Nanoscale Research Letters*, **2013**, 8, 2	5	31
129	Numerical simulation of excavation damaged zone under coupled thermal-mechanical conditions with varying mechanical parameters. *International Journal of Rock Mechanics and Minings Sciences*, **2015**, 75, 169-181	6	30
128	Effect of water imbibition on uniaxial compression strength of sandstone. *International Journal of Rock Mechanics and Minings Sciences*, **2020**, 127, 104200	6	30
127	Monodisperse porous pod-like hematite: Hydrothermal formation, optical absorbance, and magnetic properties. *Materials Letters*, **2011**, 65, 1003-1006	3.3	30
126	Finite element analysis of long-term surface settlement above a shallow tunnel in soft ground. *Tunnelling and Underground Space Technology*, **2012**, 30, 85-92	5.7	29
125	Alteration of Mesoscopic Properties and Mechanical Behavior of Sandstone Due to Hydro-Physical and Hydro-Chemical Effects. *Rock Mechanics and Rock Engineering*, **2017**, 50, 255-267	5.7	29
124	Morphology preservation and crystallinity improvement in the thermal conversion of the hydrothermal synthesized MgBO2(OH) nanowhiskers to Mg2B2O5 nanowhiskers. *Journal of Crystal Growth*, **2008**, 310, 4262-4267	1.6	29
123	The role of pore pressure during hydraulic fracturing and implications for groundwater outbursts in mining and tunnelling. *Hydrogeology Journal*, **2011**, 19, 995-1008	3.1	28
122	A finite strain numerical procedure for a circular tunnel in strain-softening rock mass with large deformation. *International Journal of Rock Mechanics and Minings Sciences*, **2018**, 112, 266-280	6	28
121	Influence of binder content on temperature and internal strain evolution of early age cemented tailings backfill. *Construction and Building Materials*, **2018**, 189, 585-593	6.7	28
120	Characterization of early age behavior of cemented paste backfill through the magnitude and frequency spectrum of ultrasonic P-wave. *Construction and Building Materials*, **2020**, 249, 118733	6.7	26
119	(Ni,Mg)3Si2O5(OH)4 solid-solution nanotubes supported by sub-0.06 wt % palladium as a robust high-efficiency catalyst for Suzuki-Miyaura cross-coupling reactions. *Inorganic Chemistry*, **2012**, 51, 6020-31	5.1	26
118	Estimation of the REV Size and Equivalent Permeability Coefficient of Fractured Rock Masses with an Emphasis on Comparing the Radial and Unidirectional Flow Configurations. *Rock Mechanics and Rock Engineering*, **2018**, 51, 1457-1471	5.7	25
117	Hydrothermal mass production of MgBO2(OH) nanowhiskers and subsequent thermal conversion to Mg2B2O5 nanorods for biaxially oriented polypropylene resins reinforcement. *Powder Technology*, **2010**, 203, 265-271	5.2	25
116	Numerical simulation and interpretation of the grain size effect on rock strength. *Geomechanics and Geophysics for Geo-Energy and Geo-Resources*, **2018**, 4, 157-173	3.8	24
115	Flux and surfactant directed facile thermal conversion synthesis of hierarchical porous MgO for efficient adsorption and catalytic growth of carbon nanotubes. *CrystEngComm*, **2014**, 16, 308-318	3.3	24

114	Finite element analysis of width effect in interface debonding of FRP plate bonded to concrete. *Finite Elements in Analysis and Design*, **2015**, 93, 30-41	2.2	23
113	Hydrothermal–thermal conversion synthesis of hierarchical porous MgO microrods as efficient adsorbents for lead(II) and chromium(VI) removal. *RSC Advances*, **2014**, 4, 30542-30550	3.7	23
112	Tracer transport in a fractured chalk: X-ray CT characterization and digital-image-based (DIB) simulation. *Transport in Porous Media*, **2007**, 70, 25-42	3.1	23
111	Numerical approach to particle breakage under different loading conditions. *Powder Technology*, **2004**, 143-144, 130-143	5.2	23
110	Numerical Modeling of Jointed Rock Under Compressive Loading Using X-ray Computerized Tomography. *Rock Mechanics and Rock Engineering*, **2016**, 49, 877-891	5.7	23
109	Influence of Dynamic Disturbance on the Creep of Sandstone: An Experimental Study. *Rock Mechanics and Rock Engineering*, **2019**, 52, 1023-1039	5.7	23
108	Mechanism of zonal disintegration around deep underground excavations under triaxial stress – Insight from numerical test. *Tunnelling and Underground Space Technology*, **2015**, 48, 1-10	5.7	22
107	H2SO4-assisted hydrothermal preparation of γ-AlOOH nanorods. *Materials Letters*, **2008**, 62, 2939-2942	3.3	22
106	Numerical Modelling of the Effect of Rock Heterogeneity on Dynamic Tensile Strength. *Rock Mechanics and Rock Engineering*, **2008**, 41, 771-779	5.7	22
105	Hydrothermal Synthesis and Characterization of Magnesium Borate Hydroxide Nanowhiskers. *Chemistry Letters*, **2006**, 35, 1158-1159	1.7	22
104	Hierarchical porous Ca(BO2)2 microspheres: Hydrothermal–thermal conversion synthesis and their applications in heavy metal ions adsorption and solvent-free oxidation of benzyl alcohol. *Chemical Engineering Journal*, **2016**, 283, 1273-1284	14.7	21
103	Soft-template self-assembly of hierarchical mesoporous SrCO3 by low-temperature hydrothermal route and their application as adsorbents for methylene blue and heavy metal ions. *Powder Technology*, **2012**, 226, 165-172	5.2	20
102	Benchmark assessment of coal permeability models on the accuracy of permeability prediction. *Fuel*, **2014**, 132, 194-203	7.1	20
101	Green co-precipitation byproduct-assisted thermal conversion route to submicron Mg2B2O5 whiskers. *CrystEngComm*, **2011**, 13, 1654-1663	3.3	20
100	Temperature- and pressure-dependent gas diffusion in coal particles: Numerical model and experiments. *Fuel*, **2020**, 266, 117054	7.1	20
99	Microseismic investigation of mining-induced brittle fault activation in a Chinese coal mine. *International Journal of Rock Mechanics and Minings Sciences*, **2019**, 123, 104096	6	19
98	Hierarchical mesoporous SrCO3 submicron spheres derived from reaction-limited aggregation induced rod-to-dumbbell-to-sphere self-assembly. *CrystEngComm*, **2010**, 12, 1795	3.3	19
97	Hierarchical Laminar Superstructures of Rhombic Priceite (Ca4B10O19·7H2O): Facile Hydrothermal Synthesis, Shape Evolution, Optical, and Thermal Decomposition Properties. *Crystal Growth and Design*, **2011**, 11, 2935-2941	3.5	19

96	Numerical study on the influence of mesomechanical properties on macroscopic fracture of concrete. *Structural Engineering and Mechanics*, **2005**, 19, 519-533		19
95	N-Methyl-2-pyrrolidone-assisted solvothermal synthesis of nanosize orthorhombic lithium iron phosphate with improved Li-storage performance. *Journal of Materials Chemistry*, **2012**, 22, 18908		18
94	Strain-Dependent and Stress-Dependent Creep Model for a Till Subject to Triaxial Compression. *International Journal of Geomechanics*, **2016**, 16, 04015084	3.1	17
93	Short belt-like Ca2B2O5□H2O nanostructures: Hydrothermal formation, FT-IR, thermal decomposition, and optical properties. *Journal of Crystal Growth*, **2011**, 332, 81-86	1.6	17
92	Hydrothermal Formation of the Head-to-Head Coalesced Szaibelyite MgBO(2)(OH) Nanowires. *Nanoscale Research Letters*, **2009**, 4, 724-731	5	17
91	Experimental and numerical analysis of fully grouted long rockbolt load-transfer behavior. *Tunnelling and Underground Space Technology*, **2019**, 85, 56-66	5.7	17
90	Highly dispersed Mn2O3 microspheres: Facile solvothermal synthesis and their application as Li-ion battery anodes. *Particuology*, **2015**, 22, 89-94	2.8	16
89	Experimental and Numerical Study on Stress Relaxation of Sandstones Disturbed by Dynamic Loading. *Rock Mechanics and Rock Engineering*, **2016**, 49, 3963-3982	5.7	16
88	Hydro-geochemical analysis of the interplay between the groundwater, host rock and water curtain system for an underground oil storage facility. *Tunnelling and Underground Space Technology*, **2018**, 71, 466-477	5.7	16
87	Hydraulic properties of fractured rock mass with correlated fracture length and aperture in both radial and unidirectional flow configurations. *Computers and Geotechnics*, **2018**, 104, 167-184	4.4	16
86	A Coupled Thermal-Hydrological-Mechanical Damage Model and Its Numerical Simulations of Damage Evolution in APSE. *Materials*, **2016**, 9,	3.5	15
85	Assessing containment properties of underground oil storage caverns: methods and a case study. *Geosciences Journal*, **2017**, 21, 579-593	1.4	14
84	Determining the Viscosity Coefficient for Viscoelastic Wave Propagation in Rock Bars. *Rock Mechanics and Rock Engineering*, **2018**, 51, 1347-1359	5.7	14
83	Green, Noncorrosive, Easy Scale-Up Hydrothermal□hermal Conversion: A Feasible Solution to Mass Production of Magnesium Borate Nanowhiskers. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 836-845	8.3	14
82	Strain-Dependent Creep Behavior of Athabasca Oil Sand in Triaxial Compression. *International Journal of Geomechanics*, **2017**, 17, 04016027	3.1	13
81	Facile and Green One-Pot Hydrothermal Formation of Hierarchical Porous Magnesium Silicate Microspheres as Excellent Adsorbents for Anionic Organic Dye Removal. *Industrial & Engineering Chemistry Research*, **2019**, 58, 2945-2957	3.9	13
80	Analytical Modelling of Load□Displacement Performance of Cable Bolts Incorporating Cracking Propagation. *Rock Mechanics and Rock Engineering*, **2020**, 53, 3471-3483	5.7	13
79	The effects of temperature and binder content on the behavior of frozen cemented tailings backfill at early ages. *Construction and Building Materials*, **2020**, 239, 117752	6.7	13

78	Effects of coupled sulphate and temperature on internal strain and strength evolution of cemented paste backfill at early age. *Construction and Building Materials*, **2020**, 230, 116937	6.7	13
77	Numerical simulation on excavation-induced damage of rock under quasi-static unloading and dynamic disturbance. *Environmental Earth Sciences*, **2017**, 76, 1	2.9	11
76	Hierarchical Ba2(B5O9)Cl□(H2O)0.5 microspheres: surfactant-assisted facile hydrothermal synthesis, Tb3+ doping and photoluminescence properties. *CrystEngComm*, **2015**, 17, 7856-7865	3.3	11
75	Synthesis of NiSiO(OH) Porous Microspheres as Support of Pd Catalyst for Hydrogenation Reaction. *Nanomaterials*, **2019**, 9,	5.4	11
74	A new evaluation method for site selection of large underground water-sealed petroleum storage depots. *Science China Technological Sciences*, **2015**, 58, 967-978	3.5	11
73	Impact of rock microstructures on failure processes - Numerical study based on DIP technique. *Geomechanics and Engineering*, **2014**, 7, 375-401		11
72	An Acoustic Emission Data-Driven Model to Simulate Rock Failure Process. *Rock Mechanics and Rock Engineering*, **2020**, 53, 1605-1621	5.7	11
71	Estimating the Joint Roughness Coefficient of Rock Joints from Translational Overlapping Statistical Parameters. *Rock Mechanics and Rock Engineering*, **2019**, 52, 753-769	5.7	11
70	Facile hydrothermal-thermal conversion synthesis of CaSiO3 nanowires as promising structure and function integrated photoluminescent host candidate. *Chinese Chemical Letters*, **2019**, 30, 171-174	8.1	11
69	Repair the Pores and Preserve the Morphology: Formation of High Crystallinity 1D Nanostructures via the Thermal Conversion Route. *Crystal Growth and Design*, **2011**, 11, 709-718	3.5	10
68	An improved grain-based numerical manifold method to simulate deformation, damage and fracturing of rocks at the grain size level. *Engineering Analysis With Boundary Elements*, **2022**, 134, 107-116	2.6	9
67	Multi-fracture interactions during two-phase flow of oil and water in deformable tight sandstone oil reservoirs. *Journal of Rock Mechanics and Geotechnical Engineering*, **2020**, 12, 821-849	5.3	8
66	Facile thermal conversion route synthesis, characterization, and optical properties of rod-like micron nickel borate. *Powder Technology*, **2012**, 222, 160-166	5.2	8
65	Elastoplastic Model for Transversely Isotropic Rocks. *International Journal of Geomechanics*, **2018**, 18, 04017149	3.1	8
64	Reconsidering Secondary Compressibility of Soil. *International Journal of Civil Engineering*, **2017**, 15, 411-418	1.9	7
63	Hierarchical quasi waxberry-like Ba5Si8O21 microspheres: Facile green rotating hydrothermal synthesis, formation mechanism and high adsorption performance for Congo red. *Chemical Engineering Journal*, **2020**, 384, 123387	14.7	7
62	Analytical and Experimental Study of Cemented Backfill and Pillar Interactions. *International Journal of Geomechanics*, **2019**, 19, 04019080	3.1	6
61	The Radiation Energy of AE Sources with Different Tensile Angles and Implication for the Rock Failure Process. *Pure and Applied Geophysics*, **2020**, 177, 3407-3419	2.2	6

60	Heteropoly Acid Supported on Cu-Doped Three-Dimensionally Ordered Macroporous SiO2 as Efficient Catalyst for the Selective Oxidation of Methacrolein. *Catalysis Letters*, **2018**, 148, 660-670	2.8	6
59	Hierarchical □BaB2O4 hollow microspheres: surfactant-assisted hydrothermal formation, phase conversion, optical properties and application as adsorbents. *RSC Advances*, **2016**, 6, 64383-64393	3.7	6
58	Three-Dimensional Numerical Investigation of Coupled Flow-Stress-Damage Failure Process in Heterogeneous Poroelastic Rocks. *Energies*, **2018**, 11, 1923	3.1	6
57	High aspect ratio Ca6Si6O17(OH)2 nanowires: Green hydrothermal synthesis, formation mechanism, optical and photoluminescence properties. *Powder Technology*, **2018**, 335, 360-370	5.2	6
56	Controllable hydrothermal synthesis of star-shaped Sr3Fe2(OH)12 assemblies and their thermal decomposition and magnetic properties. *Particuology*, **2016**, 24, 210-215	2.8	5
55	Mining Method Selection and Optimization for Hanging-Wall Ore-Body at Yanqianshan Iron Mine, China. *Geotechnical and Geological Engineering*, **2017**, 35, 225-241	1.5	5
54	Hierarchical strontium carbonate submicron spheres self-assembled under hydrothermal conditions. *Crystal Research and Technology*, **2010**, 45, 845-850	1.3	5
53	Finite strain analysis of squeezing response in an elastic-brittle-plastic weak rocks considering the influence of axial stress. *Tunnelling and Underground Space Technology*, **2020**, 97, 103254	5.7	5
52	Re-profiling of a squeezing tunnel considering the post-peak behavior of rock mass. *International Journal of Rock Mechanics and Minings Sciences*, **2020**, 125, 104153	6	5
51	Rational design and facile hydrothermal-thermal conversion synthesis of hierarchical porous urchin-like Cu2□Si2O5(OH)3□xH2O and CuO/SiO2 hollow microspheres for high efficiency catalytic reduction of nitroarenes and adsorption of organic dye. *Chemical Engineering Journal*, **2021**, 411, 128442	14.7	5
50	Facile hydrothermal synthesis of hierarchical porous priceite (Ca4B10O19□7H2O) microspheres as high-efficiency adsorbents for heavy metal ions removal. *CrystEngComm*, **2019**, 21, 7141-7154	3.3	5
49	A review of experimental apparatus for supercritical CO2 fracturing of shale. *Journal of Petroleum Science and Engineering*, **2022**, 208, 109515	4.4	5
48	Transition from linear to nonlinear flow in single rough fractures: effect of fracture roughness. *Hydrogeology Journal*, **2021**, 29, 1343-1353	3.1	5
47	A numerical study of the effect of loading conditions on the dynamic failure of rock. *International Journal of Rock Mechanics and Minings Sciences*, **2004**, 41, 348-353	6	4
46	Numerical Shear Tests on the Scale Effect of Rock Joints under CNL and CND Conditions. *Advances in Civil Engineering*, **2020**, 2020, 1-15	1.3	4
45	Numerical Simulation on Damage and Failure Mechanism of Rock under Combined Multiple Strain Rates. *Shock and Vibration*, **2018**, 2018, 1-20	1.1	4
44	Facile room-temperature coprecipitation of uniform barium chlorapatite nanoassemblies as a host photoluminescent material. *Particuology*, **2018**, 37, 37-42	2.8	3
43	Efficient synthesis of orthorhombic lithium borate hydroxide micro-rods and their thermal conversion to lithium borate. *Powder Technology*, **2011**, 210, 67-72	5.2	3

42	Mesomechanical model for concrete. Part I: model development. *Magazine of Concrete Research*, **2004**, 56, 313-330	2	3
41	Full-field quantification of time-dependent and -independent deformation and fracturing of double-notch flawed rock using digital image correlation. *Geomechanics and Geophysics for Geo-Energy and Geo-Resources*, **2021**, 7,	3.8	3
40	Composition, Structural Evolution and the Related Property Variations in Preparation of Mixed Cesium/Ammonium Acidic Salts of Heteropolyacids. *Catalysts*, **2016**, 6, 187	4	3
39	Risk Assessment for Stability and Containment Property of an Underground Oil Storage Facility in Construction Phase Using Fuzzy Comprehensive Evaluation Method. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, **2016**, 2, 04016009	1.7	3
38	Rock Stability Assessment Based on the Chronological Order of the Characteristic Acoustic Emission Phenomena. *Shock and Vibration*, **2018**, 2018, 1-10	1.1	3
37	Mesoscale Modeling of Spallation Failure in Fiber-Reinforced Concrete Slab due to Impact Loading. *International Journal of Geomechanics*, **2016**, 16,	3.1	2
36	Spalling of a one-dimensional viscoelastic bar induced by stress wave propagation. *International Journal of Rock Mechanics and Minings Sciences*, **2020**, 131, 104317	6	2
35	Modification of rock stress factor in the stability graph method: a case study at the Alhada Lead-Zinc Mine in Inner Mongolia, China. *Bulletin of Engineering Geology and the Environment*, **2020**, 79, 3257-3269	4	2
34	Groundwater response to oil storage in large-scale rock caverns with a water curtain system: Site monitoring and statistical analysis. *Tunnelling and Underground Space Technology*, **2020**, 99, 103363	5.7	2
33	Constant Strain Rate Uniaxial Compression of Green Sandstone during SHPB Tests Driven by Pendulum Hammer. *Shock and Vibration*, **2017**, 2017, 1-12	1.1	2
32	Hierarchical porous MgBO 2 (OH) microspheres: Hydrothermal synthesis, thermal decomposition, and application as adsorbents for Congo red removal. *Chinese Journal of Chemical Engineering*, **2018** , 26, 1561-1569	3.2	2
31	Computer-Aided Diagnosis Based on Extreme Learning Machine: A Review. *IEEE Access*, **2020**, 8, 141657-141673	3.5	2
30	Quantifying the containment efficiency of underground water-sealed oil storage caverns: Method and case study. *Tunnelling and Underground Space Technology*, **2021**, 110, 103797	5.7	2
29	Characterization of Rock Joint Roughness from the Classified and Weighted Uphill Projection Parameters. *International Journal of Geomechanics*, **2021**, 21, 04021052	3.1	2
28	Time-Frequency Distribution Analysis of the Stress Relaxation of Sandstones Affected by Dynamic Disturbance. *Experimental Techniques*, **2019**, 43, 415-428	1.4	2
27	Experimental study on creep of double-rock samples disturbed by dynamic impact. *International Journal of Rock Mechanics and Minings Sciences*, **2021**, 146, 104895	6	2
26	An experimental apparatus for supercritical CO2 fracturing of shale: System design and application tests. *Journal of Natural Gas Science and Engineering*, **2022**, 103, 104656	4.6	2
25	Alteration of minerals and temporal evolution of solution in reactive flow through granitic rock fractures. *International Journal of Rock Mechanics and Minings Sciences*, **2019**, 123, 104105	6	1

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