

Wancheng Zhu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	An improved grain-based numerical manifold method to simulate deformation, damage and fracturing of rocks at the grain size level. <i>Engineering Analysis With Boundary Elements</i> , 2022 , 134, 107-116	2.6	9
184	A review of experimental apparatus for supercritical CO ₂ fracturing of shale. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 208, 109515	4.4	5
183	Experimental and numerical evaluation on debonding of fully grouted rockbolt under pull-out loading. <i>International Journal of Coal Science and Technology</i> , 2022 , 9, 1	4.5	1
182	A prediction model for surface deformation caused by underground mining based on spatio-temporal associations. <i>Geomatics, Natural Hazards and Risk</i> , 2022 , 13, 94-122	3.6	0
181	One-pot hydrothermal synthesis of hierarchical porous manganese silicate microspheres as excellent Fenton-like catalysts for organic dyes degradation. <i>Nano Research</i> , 2022 , 15, 2977-2986	10	1
180	Influence of dynamic disturbance on rock creep from time, space and energy aspects. <i>Geomatics, Natural Hazards and Risk</i> , 2022 , 13, 1065-1086	3.6	
179	A plastic-damage approach to the excavation response of a circular opening in weak rock. <i>Tunnelling and Underground Space Technology</i> , 2022 , 126, 104538	5.7	0
178	Seawater intrusion into an underground water-sealed oil storage cavern: Effects of water curtain system, hydraulic conductivity and dispersivity. <i>Tunnelling and Underground Space Technology</i> , 2022 , 126, 104542	5.7	0
177	Effect of Lateral Stress on the Mechanical Properties of Rock Fracture and Its Implication on the Stability of Underground Oil Storage Caverns. <i>Journal of Marine Science and Engineering</i> , 2022 , 10, 677	2.4	
176	An experimental apparatus for supercritical CO ₂ fracturing of shale: System design and application tests. <i>Journal of Natural Gas Science and Engineering</i> , 2022 , 103, 104656	4.6	2
175	Full-field quantification of time-dependent and -independent deformation and fracturing of double-notch flawed rock using digital image correlation. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021 , 7,	3.8	3
174	The quality evaluation of the grout in rock bolts based on the stress wave propagation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 861, 042066	0.3	
173	Sliding and falling process of rock block in jointed roof under dynamic disturbance. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 861, 042067	0.3	
172	Quantifying the containment efficiency of underground water-sealed oil storage caverns: Method and case study. <i>Tunnelling and Underground Space Technology</i> , 2021 , 110, 103797	5.7	2
171	Characterization of Rock Joint Roughness from the Classified and Weighted Uphill Projection Parameters. <i>International Journal of Geomechanics</i> , 2021 , 21, 04021052	3.1	2
170	Rational design and facile hydrothermal-thermal conversion synthesis of hierarchical porous urchin-like Cu ₂ Si ₂ O ₅ (OH) ₃ ·xH ₂ O and CuO/SiO ₂ hollow microspheres for high efficiency catalytic reduction of nitroarenes and adsorption of organic dye. <i>Chemical Engineering Journal</i> , 2021 , 411, 128442	14.7	5
169	Research on the Enlargement of Stope Span Based on the Pre-stressed Expandable Pillar Support Technology. <i>Rock Mechanics and Rock Engineering</i> , 2021 , 54, 4663-4675	5.7	

168	Comparison in thermal stability and catalytic performance of H4PMo11VO40 heteropolyacid supported on mesoporous and macroporous silica materials. <i>Journal of Chemical Research</i> , 2021 , 45, 60-67	0.6	0
167	The sliding instability of rock roof block induced by vertical dynamic disturbance: An experimental study. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021 , 143, 104799	6	1
166	The effects of hydro-mechanical coupling on hydraulic properties of fractured rock mass in unidirectional and radial flow configurations. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021 , 7, 1	3.8	0
165	Failure in rock with intersecting rough joints under uniaxial compression. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021 , 146, 104832	6	1
164	Experimental study on creep of double-rock samples disturbed by dynamic impact. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021 , 146, 104895	6	2
163	Transition from linear to nonlinear flow in single rough fractures: effect of fracture roughness. <i>Hydrogeology Journal</i> , 2021 , 29, 1343-1353	3.1	5
162	Multi-fracture interactions during two-phase flow of oil and water in deformable tight sandstone oil reservoirs. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020 , 12, 821-849	5.3	8
161	Spalling of a one-dimensional viscoelastic bar induced by stress wave propagation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020 , 131, 104317	6	2
160	Characterization of early age behavior of cemented paste backfill through the magnitude and frequency spectrum of ultrasonic P-wave. <i>Construction and Building Materials</i> , 2020 , 249, 118733	6.7	26
159	Modification of rock stress factor in the stability graph method: a case study at the Alhada Lead-Zinc Mine in Inner Mongolia, China. <i>Bulletin of Engineering Geology and the Environment</i> , 2020 , 79, 3257-3269	4	2
158	Groundwater response to oil storage in large-scale rock caverns with a water curtain system: Site monitoring and statistical analysis. <i>Tunnelling and Underground Space Technology</i> , 2020 , 99, 103363	5.7	2
157	The Radiation Energy of AE Sources with Different Tensile Angles and Implication for the Rock Failure Process. <i>Pure and Applied Geophysics</i> , 2020 , 177, 3407-3419	2.2	6
156	Effect of water imbibition on uniaxial compression strength of sandstone. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020 , 127, 104200	6	30
155	Breast microcalcifications detection based on fusing features with DTCWT. <i>Journal of X-Ray Science and Technology</i> , 2020 , 28, 197-218	2.1	0
154	Analytical Modelling of LoadDisplacement Performance of Cable Bolts Incorporating Cracking Propagation. <i>Rock Mechanics and Rock Engineering</i> , 2020 , 53, 3471-3483	5.7	13
153	Temperature- and pressure-dependent gas diffusion in coal particles: Numerical model and experiments. <i>Fuel</i> , 2020 , 266, 117054	7.1	20
152	An Acoustic Emission Data-Driven Model to Simulate Rock Failure Process. <i>Rock Mechanics and Rock Engineering</i> , 2020 , 53, 1605-1621	5.7	11
151	Finite strain analysis of squeezing response in an elastic-brittle-plastic weak rocks considering the influence of axial stress. <i>Tunnelling and Underground Space Technology</i> , 2020 , 97, 103254	5.7	5

150	Hierarchical quasi waxberry-like Ba ₅ Si ₈ O ₂₁ microspheres: Facile green rotating hydrothermal synthesis, formation mechanism and high adsorption performance for Congo red. <i>Chemical Engineering Journal</i> , 2020 , 384, 123387	14.7	7
149	The effects of temperature and binder content on the behavior of frozen cemented tailings backfill at early ages. <i>Construction and Building Materials</i> , 2020 , 239, 117752	6.7	13
148	Re-profiling of a squeezing tunnel considering the post-peak behavior of rock mass. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020 , 125, 104153	6	5
147	Computer-Aided Diagnosis Based on Extreme Learning Machine: A Review. <i>IEEE Access</i> , 2020 , 8, 141657-141673	3.4	1673
146	Numerical Shear Tests on the Scale Effect of Rock Joints under CNL and CND Conditions. <i>Advances in Civil Engineering</i> , 2020 , 2020, 1-15	1.3	4
145	Effects of coupled sulphate and temperature on internal strain and strength evolution of cemented paste backfill at early age. <i>Construction and Building Materials</i> , 2020 , 230, 116937	6.7	13
144	Microseismic investigation of mining-induced brittle fault activation in a Chinese coal mine. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019 , 123, 104096	6	19
143	Current-density dependence of Li ₂ S/Li ₂ S ₂ growth in lithium sulfur batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 2976-2982	35.4	67
142	Analytical and Experimental Study of Cemented Backfill and Pillar Interactions. <i>International Journal of Geomechanics</i> , 2019 , 19, 04019080	3.1	6
141	Ultralong Ca ₂ B ₂ O ₅ ·H ₂ O nanowires: water-bath pretreated eco-friendly hydrothermal synthesis, optical and rare earth-doped photoluminescence properties. <i>CrystEngComm</i> , 2019 , 21, 2451-2463	3.3	
140	Facile and Green One-Pot Hydrothermal Formation of Hierarchical Porous Magnesium Silicate Microspheres as Excellent Adsorbents for Anionic Organic Dye Removal. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2945-2957	3.9	13
139	Synthesis of NiSiO(OH) Porous Microspheres as Support of Pd Catalyst for Hydrogenation Reaction. <i>Nanomaterials</i> , 2019 , 9,	5.4	11
138	Alteration of minerals and temporal evolution of solution in reactive flow through granitic rock fractures. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019 , 123, 104105	6	1
137	Facile hydrothermal synthesis of hierarchical porous priceite (Ca ₄ B ₁₀ O ₁₉ ·H ₂ O) microspheres as high-efficiency adsorbents for heavy metal ions removal. <i>CrystEngComm</i> , 2019 , 21, 7141-7154	3.3	5
136	Estimating the Joint Roughness Coefficient of Rock Joints from Translational Overlapping Statistical Parameters. <i>Rock Mechanics and Rock Engineering</i> , 2019 , 52, 753-769	5.7	11
135	Time-Frequency Distribution Analysis of the Stress Relaxation of Sandstones Affected by Dynamic Disturbance. <i>Experimental Techniques</i> , 2019 , 43, 415-428	1.4	2
134	Influence of Dynamic Disturbance on the Creep of Sandstone: An Experimental Study. <i>Rock Mechanics and Rock Engineering</i> , 2019 , 52, 1023-1039	5.7	23
133	Experimental and numerical analysis of fully grouted long rockbolt load-transfer behavior. <i>Tunnelling and Underground Space Technology</i> , 2019 , 85, 56-66	5.7	17

132	Facile hydrothermal-thermal conversion synthesis of CaSiO ₃ nanowires as promising structure and function integrated photoluminescent host candidate. <i>Chinese Chemical Letters</i> , 2019 , 30, 171-174	8.1	11
131	Estimation of the REV Size and Equivalent Permeability Coefficient of Fractured Rock Masses with an Emphasis on Comparing the Radial and Unidirectional Flow Configurations. <i>Rock Mechanics and Rock Engineering</i> , 2018 , 51, 1457-1471	5.7	25
130	Numerical simulation and interpretation of the grain size effect on rock strength. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2018 , 4, 157-173	3.8	24
129	Hierarchical porous MgBO ₂ (OH) microspheres: Hydrothermal synthesis, thermal decomposition, and application as adsorbents for Congo red removal. <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 1561-1569	3.2	2
128	Determining the Viscosity Coefficient for Viscoelastic Wave Propagation in Rock Bars. <i>Rock Mechanics and Rock Engineering</i> , 2018 , 51, 1347-1359	5.7	14
127	Heteropoly Acid Supported on Cu-Doped Three-Dimensionally Ordered Macroporous SiO ₂ as Efficient Catalyst for the Selective Oxidation of Methacrolein. <i>Catalysis Letters</i> , 2018 , 148, 660-670	2.8	6
126	Microcrack-based geomechanical modeling of rock-gas interaction during supercritical CO ₂ fracturing. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 164, 91-102	4.4	46
125	Hydrothermal synthesis of mesoporous Mg ₃ Si ₂ O ₅ (OH) ₄ microspheres as high-performance adsorbents for dye removal. <i>Chemical Engineering Journal</i> , 2018 , 334, 377-388	14.7	47
124	The Influence of Fracturing Fluids on Fracturing Processes: A Comparison Between Water, Oil and SC-CO ₂ . <i>Rock Mechanics and Rock Engineering</i> , 2018 , 51, 299-313	5.7	71
123	Damage analysis of rock mass coupling joints, water and microseismicity. <i>Tunnelling and Underground Space Technology</i> , 2018 , 71, 366-381	5.7	32
122	Facile room-temperature coprecipitation of uniform barium chlorapatite nanoassemblies as a host photoluminescent material. <i>Particuology</i> , 2018 , 37, 37-42	2.8	3
121	Three-Dimensional Numerical Investigation of Coupled Flow-Stress-Damage Failure Process in Heterogeneous Poroelastic Rocks. <i>Energies</i> , 2018 , 11, 1923	3.1	6
120	Numerical modelling of strata movement at footwall induced by underground mining. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018 , 108, 142-156	6	31
119	High aspect ratio Ca ₆ Si ₆ O ₁₇ (OH) ₂ nanowires: Green hydrothermal synthesis, formation mechanism, optical and photoluminescence properties. <i>Powder Technology</i> , 2018 , 335, 360-370	5.2	6
118	Elastoplastic Model for Transversely Isotropic Rocks. <i>International Journal of Geomechanics</i> , 2018 , 18, 04017149	3.1	8
117	Hydro-geochemical analysis of the interplay between the groundwater, host rock and water curtain system for an underground oil storage facility. <i>Tunnelling and Underground Space Technology</i> , 2018 , 71, 466-477	5.7	16
116	Impact of gas adsorption-induced coal damage on the evolution of coal permeability. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018 , 101, 89-97	6	34
115	Rock Stability Assessment Based on the Chronological Order of the Characteristic Acoustic Emission Phenomena. <i>Shock and Vibration</i> , 2018 , 2018, 1-10	1.1	3

114	A finite strain numerical procedure for a circular tunnel in strain-softening rock mass with large deformation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018 , 112, 266-280	6	28
113	Numerical Simulation on Damage and Failure Mechanism of Rock under Combined Multiple Strain Rates. <i>Shock and Vibration</i> , 2018 , 2018, 1-20	1.1	4
112	Influence of binder content on temperature and internal strain evolution of early age cemented tailings backfill. <i>Construction and Building Materials</i> , 2018 , 189, 585-593	6.7	28
111	Hydraulic properties of fractured rock mass with correlated fracture length and aperture in both radial and unidirectional flow configurations. <i>Computers and Geotechnics</i> , 2018 , 104, 167-184	4.4	16
110	Effect of Shaft Pillar Extraction on Stability of Main Shaft: A Case Study at Xincheng Gold Mine, China. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-16	1.1	1
109	Strain-Dependent Creep Behavior of Athabasca Oil Sand in Triaxial Compression. <i>International Journal of Geomechanics</i> , 2017 , 17, 04016027	3.1	13
108	Estimation of the joint roughness coefficient of rock joints by consideration of two-order asperity and its application in double-joint shear tests. <i>Engineering Geology</i> , 2017 , 220, 243-255	6	45
107	Assessing containment properties of underground oil storage caverns: methods and a case study. <i>Geosciences Journal</i> , 2017 , 21, 579-593	1.4	14
106	A Quinonoid-Imine-Enriched Nanostructured Polymer Mediator for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1606802	24	107
105	Numerical simulation on excavation-induced damage of rock under quasi-static unloading and dynamic disturbance. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	11
104	Constant Strain Rate Uniaxial Compression of Green Sandstone during SHPB Tests Driven by Pendulum Hammer. <i>Shock and Vibration</i> , 2017 , 2017, 1-12	1.1	2
103	Thermal Exfoliation of Layered Metal-Organic Frameworks into Ultrahydrophilic Graphene Stacks and Their Applications in Li-S Batteries. <i>Advanced Materials</i> , 2017 , 29, 1702829	24	115
102	Alteration of Mesoscopic Properties and Mechanical Behavior of Sandstone Due to Hydro-Physical and Hydro-Chemical Effects. <i>Rock Mechanics and Rock Engineering</i> , 2017 , 50, 255-267	5.7	29
101	Calendering of free-standing electrode for lithium-sulfur batteries with high volumetric energy density. <i>Carbon</i> , 2017 , 111, 493-501	10.4	48
100	Mining Method Selection and Optimization for Hanging-Wall Ore-Body at Yanqianshan Iron Mine, China. <i>Geotechnical and Geological Engineering</i> , 2017 , 35, 225-241	1.5	5
99	Reconsidering Secondary Compressibility of Soil. <i>International Journal of Civil Engineering</i> , 2017 , 15, 411-418	4.8	7
98	Mesoscale Modeling of Spallation Failure in Fiber-Reinforced Concrete Slab due to Impact Loading. <i>International Journal of Geomechanics</i> , 2016 , 16,	3.1	2
97	Hierarchical porous Ca(BO ₂) ₂ microspheres: Hydrothermal/thermal conversion synthesis and their applications in heavy metal ions adsorption and solvent-free oxidation of benzyl alcohol. <i>Chemical Engineering Journal</i> , 2016 , 283, 1273-1284	14.7	21

96	Experimental and Numerical Study on Stress Relaxation of Sandstones Disturbed by Dynamic Loading. <i>Rock Mechanics and Rock Engineering</i> , 2016 , 49, 3963-3982	5.7	16
95	Hierarchical EBaB2O4 hollow microspheres: surfactant-assisted hydrothermal formation, phase conversion, optical properties and application as adsorbents. <i>RSC Advances</i> , 2016 , 6, 64383-64393	3.7	6
94	High-pressure air blasting experiments on concrete and implications for enhanced coal gas drainage. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 36, 1253-1263	4.6	55
93	Strain-Dependent and Stress-Dependent Creep Model for a Till Subject to Triaxial Compression. <i>International Journal of Geomechanics</i> , 2016 , 16, 04015084	3.1	17
92	Controllable hydrothermal synthesis of star-shaped Sr3Fe2(OH)12 assemblies and their thermal decomposition and magnetic properties. <i>Particuology</i> , 2016 , 24, 210-215	2.8	5
91	Composition, Structural Evolution and the Related Property Variations in Preparation of Mixed Cesium/Ammonium Acidic Salts of Heteropolyacids. <i>Catalysts</i> , 2016 , 6, 187	4	3
90	A Coupled Thermal-Hydrological-Mechanical Damage Model and Its Numerical Simulations of Damage Evolution in APSE. <i>Materials</i> , 2016 , 9,	3.5	15
89	Theoretical predictions of viscosity of methane under confined conditions. <i>Chinese Journal of Chemical Engineering</i> , 2016 , 24, 904-908	3.2	
88	Numerical Modeling of Jointed Rock Under Compressive Loading Using X-ray Computerized Tomography. <i>Rock Mechanics and Rock Engineering</i> , 2016 , 49, 877-891	5.7	23
87	Determination of tensile strength and fracture toughness of concrete using notched 3-p-b specimens. <i>Engineering Fracture Mechanics</i> , 2016 , 160, 67-77	4.2	68
86	Risk Assessment for Stability and Containment Property of an Underground Oil Storage Facility in Construction Phase Using Fuzzy Comprehensive Evaluation Method. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2016 , 2, 04016009	1.7	3
85	Numerical simulation of excavation damaged zone under coupled thermal-mechanical conditions with varying mechanical parameters. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015 , 75, 169-181	6	30
84	Design and test aspects of a water curtain system for underground oil storage caverns in China. <i>Tunnelling and Underground Space Technology</i> , 2015 , 48, 20-34	5.7	36
83	Mechanism of zonal disintegration around deep underground excavations under triaxial stress □ Insight from numerical test. <i>Tunnelling and Underground Space Technology</i> , 2015 , 48, 1-10	5.7	22
82	Assessment of Hydro-Mechanical Behavior of a Granite Rock Mass for a Pilot Underground Crude Oil Storage Facility in China. <i>Rock Mechanics and Rock Engineering</i> , 2015 , 48, 2459-2472	5.7	31
81	Template growth of porous graphene microspheres on layered double oxide catalysts and their applications in lithium-sulfur batteries. <i>Carbon</i> , 2015 , 92, 96-105	10.4	68
80	Microseismicity Induced by Fault Activation During the Fracture Process of a Crown Pillar. <i>Rock Mechanics and Rock Engineering</i> , 2015 , 48, 1673-1682	5.7	33
79	Highly dispersed Mn2O3 microspheres: Facile solvothermal synthesis and their application as Li-ion battery anodes. <i>Particuology</i> , 2015 , 22, 89-94	2.8	16

78	Hierarchical Ba ₂ (B ₅ O ₉)Cl(H ₂ O) _{0.5} microspheres: surfactant-assisted facile hydrothermal synthesis, Tb ³⁺ doping and photoluminescence properties. <i>CrystEngComm</i> , 2015 , 17, 7856-7865	3.3	11
77	Interconnected carbon nanotube/graphene nanosphere scaffolds as free-standing paper electrode for high-rate and ultra-stable lithium-sulfur batteries. <i>Nano Energy</i> , 2015 , 11, 746-755	17.1	154
76	Finite element analysis of the hydro-mechanical behavior of an underground crude oil storage facility in granite subject to cyclic loading during operation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015 , 73, 70-81	6	42
75	Finite element analysis of width effect in interface debonding of FRP plate bonded to concrete. <i>Finite Elements in Analysis and Design</i> , 2015 , 93, 30-41	2.2	23
74	3D Mesoporous Graphene: CVD Self-Assembly on Porous Oxide Templates and Applications in High-Stable Li-S Batteries. <i>Small</i> , 2015 , 11, 5243-52	11	110
73	A new evaluation method for site selection of large underground water-sealed petroleum storage depots. <i>Science China Technological Sciences</i> , 2015 , 58, 967-978	3.5	11
72	Cathode materials based on carbon nanotubes for high-energy-density lithium-sulfur batteries. <i>Carbon</i> , 2014 , 75, 161-168	10.4	72
71	Discrete element analysis of hydro-mechanical behavior of a pilot underground crude oil storage facility in granite in China. <i>Tunnelling and Underground Space Technology</i> , 2014 , 40, 75-84	5.7	49
70	Flux and surfactant directed facile thermal conversion synthesis of hierarchical porous MgO for efficient adsorption and catalytic growth of carbon nanotubes. <i>CrystEngComm</i> , 2014 , 16, 308-318	3.3	24
69	Ionothermal confined self-organization for hierarchical porous magnesium borate superstructures as highly efficient adsorbents for dye removal. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19167-19179	13	44
68	Hematite nanorods with tunable porous structure: Facile hydrothermal-calcination route synthesis, optical and photocatalytic properties. <i>Powder Technology</i> , 2014 , 266, 113-119	5.2	32
67	Hydrothermal-thermal conversion synthesis of hierarchical porous MgO microrods as efficient adsorbents for lead(II) and chromium(VI) removal. <i>RSC Advances</i> , 2014 , 4, 30542-30550	3.7	23
66	2D numerical simulation on excavation damaged zone induced by dynamic stress redistribution. <i>Tunnelling and Underground Space Technology</i> , 2014 , 43, 315-326	5.7	67
65	Hierarchical Carbon Nanotube/Carbon Black Scaffolds as Short- and Long-Range Electron Pathways with Superior Li-Ion Storage Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 200-206	8.3	42
64	Green, Noncorrosive, Easy Scale-Up Hydrothermal-Thermal Conversion: A Feasible Solution to Mass Production of Magnesium Borate Nanowhiskers. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 836-845	8.3	14
63	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. <i>Journal of Power Sources</i> , 2014 , 261, 264-270	8.9	79
62	Catalytic self-limited assembly at hard templates: a mesoscale approach to graphene nanoshells for lithium-sulfur batteries. <i>ACS Nano</i> , 2014 , 8, 11280-9	16.7	156
61	Benchmark assessment of coal permeability models on the accuracy of permeability prediction. <i>Fuel</i> , 2014 , 132, 194-203	7.1	20

60	Impact of rock microstructures on failure processes - Numerical study based on DIP technique. <i>Geomechanics and Engineering</i> , 2014 , 7, 375-401		11
59	Impact of Gas Adsorption Induced Coal Matrix Damage on the Evolution of Coal Permeability. <i>Rock Mechanics and Rock Engineering</i> , 2013 , 46, 1353-1366	5.7	36
58	Fatigue Behavior of Granite Subjected to Cyclic Loading Under Triaxial Compression Condition. <i>Rock Mechanics and Rock Engineering</i> , 2013 , 46, 1603-1615	5.7	68
57	Influence of the geometry of partially-spanning joints on mechanical properties of rock in uniaxial compression. <i>Engineering Geology</i> , 2013 , 167, 134-147	6	58
56	Aligned sulfur-coated carbon nanotubes with a polyethylene glycol barrier at one end for use as a high efficiency sulfur cathode. <i>Carbon</i> , 2013 , 58, 99-106	10.4	131
55	Numerical modeling on destress blasting in coal seam for enhancing gas drainage. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013 , 59, 179-190	6	98
54	Robust growth of herringbone carbon nanofibers on layered double hydroxide derived catalysts and their applications as anodes for Li-ion batteries. <i>Carbon</i> , 2013 , 62, 393-404	10.4	42
53	Hydrothermal evolution, optical and electrochemical properties of hierarchical porous hematite nanoarchitectures. <i>Nanoscale Research Letters</i> , 2013 , 8, 2	5	31
52	Entrapment of sulfur in hierarchical porous graphene for lithium-sulfur batteries with high rate performance from 40 to 60°C. <i>Nano Energy</i> , 2013 , 2, 314-321	17.1	204
51	Composite Cathodes Containing SWCNT@S Coaxial Nanocables: Facile Synthesis, Surface Modification, and Enhanced Performance for Li-Ion Storage. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 158-165	3.1	68
50	Low-Dimensional Inorganic Nanofunctional Materials: Design, Assembly, and Application for Chemical Engineering (I). <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-2	3.2	
49	Finite element analysis of long-term surface settlement above a shallow tunnel in soft ground. <i>Tunnelling and Underground Space Technology</i> , 2012 , 30, 85-92	5.7	29
48	Facile thermal conversion route synthesis, characterization, and optical properties of rod-like micron nickel borate. <i>Powder Technology</i> , 2012 , 222, 160-166	5.2	8
47	Soft-template self-assembly of hierarchical mesoporous SrCO ₃ by low-temperature hydrothermal route and their application as adsorbents for methylene blue and heavy metal ions. <i>Powder Technology</i> , 2012 , 226, 165-172	5.2	20
46	Graphene/single-walled carbon nanotube hybrids: one-step catalytic growth and applications for high-rate Li-S batteries. <i>ACS Nano</i> , 2012 , 6, 10759-69	16.7	462
45	(Ni,Mg) ₃ Si ₂ O ₅ (OH) ₄ solid-solution nanotubes supported by sub-0.06 wt % palladium as a robust high-efficiency catalyst for Suzuki-Miyaura cross-coupling reactions. <i>Inorganic Chemistry</i> , 2012 , 51, 6020-31	5.1	26
44	Numerical simulation of the failure mechanism of circular tunnels in transversely isotropic rock masses. <i>Tunnelling and Underground Space Technology</i> , 2012 , 32, 231-244	5.7	69
43	N-Methyl-2-pyrrolidone-assisted solvothermal synthesis of nanosize orthorhombic lithium iron phosphate with improved Li-storage performance. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18908		18

42	Numerical simulation on rock failure under combined static and dynamic loading during SHPB tests. <i>International Journal of Impact Engineering</i> , 2012 , 49, 142-157	4	73
41	Short belt-like Ca ₂ B ₂ O ₅ ·H ₂ O nanostructures: Hydrothermal formation, FT-IR, thermal decomposition, and optical properties. <i>Journal of Crystal Growth</i> , 2011 , 332, 81-86	1.6	17
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