

# Yong Sun

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1594238/publications.pdf>

Version: 2024-02-01

54  
papers

2,215  
citations

218677

26  
h-index

223800

46  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1316  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Pore Structure in Coal: Pore Evolution after Cryogenic Freezing with Cyclic Liquid Nitrogen Injection and Its Implication on Coalbed Methane Extraction. <i>Energy &amp; Fuels</i> , 2016, 30, 6009-6020.                                   | 5.1 | 173       |
| 2  | Novel integrated techniques of drilling“slotting”separation-sealing for enhanced coal bed methane recovery in underground coal mines. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 960-973.                            | 4.4 | 155       |
| 3  | Changes to coal pores and fracture development by ultrasonic wave excitation using nuclear magnetic resonance. <i>Fuel</i> , 2016, 186, 571-578.  | 6.4 | 120       |
| 4  | The effect of pulse frequency on the fracture extension during hydraulic fracturing. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 21, 296-303.   | 4.4 | 116       |
| 5  | Changes in the pore structure of lignite after repeated cycles of liquid nitrogen freezing as determined by nitrogen adsorption and mercury intrusion. <i>Fuel</i> , 2020, 267, 117214.   | 6.4 | 107       |
| 6  | Fractal dimensions of low rank coal subjected to liquid nitrogen freeze-thaw based on nuclear magnetic resonance applied for coalbed methane recovery. <i>Powder Technology</i> , 2018, 325, 11-20.   | 4.2 | 101       |
| 7  | Experimental study on removing water blocking effect (WBE) from two aspects of the pore negative pressure and surfactants. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 31, 596-602.                                       | 4.4 | 93        |
| 8  | The characteristics and main influencing factors affecting coal and gas outbursts in Chinese Pingdingshan mining region. <i>Natural Hazards</i> , 2016, 82, 507-530.  | 3.4 | 90        |
| 9  | A new technique for preventing and controlling coal and gas outburst hazard with pulse hydraulic fracturing: a case study in Yuwu coal mine, China. <i>Natural Hazards</i> , 2015, 75, 2931-2946.   | 3.4 | 86        |
| 10 | Characterisation and evolution of the full size range of pores and fractures in rocks under freeze-thaw conditions using nuclear magnetic resonance and three-dimensional X-ray microscopy. <i>Engineering Geology</i> , 2020, 271, 105616. | 6.3 | 74        |
| 11 | Failure Mechanism of Coal after Cryogenic Freezing with Cyclic Liquid Nitrogen and Its Influences on Coalbed Methane Exploitation. <i>Energy &amp; Fuels</i> , 2016, 30, 8567-8578.   | 5.1 | 73        |
| 12 | Experimental study of pulsating water pressure propagation in CBM reservoirs during pulse hydraulic fracturing. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 25, 15-22.  | 4.4 | 71        |
| 13 | Coal Permeability Evolution and Gas Migration Under Non-equilibrium State. <i>Transport in Porous Media</i> , 2017, 118, 393-416.   | 2.6 | 63        |
| 14 | Effect of exercise-based cardiac rehabilitation on anxiety and depression in patients with myocardial infarction: A systematic review and meta-analysis. <i>Heart and Lung: Journal of Acute and Critical Care</i> , 2019, 48, 1-7.         | 1.6 | 61        |
| 15 | Fracturing mechanism of coal-like rock specimens under the effect of non-explosive expansion. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 103, 145-154.   | 5.8 | 59        |
| 16 | Feasibility investigation of cryogenic effect from liquid carbon dioxide multi cycle fracturing technology in coalbed methane recovery. <i>Fuel</i> , 2017, 206, 371-380.   | 6.4 | 55        |
| 17 | Multifractal analysis of coal pore structure based on NMR experiment: A new method for predicting T2 cutoff value. <i>Fuel</i> , 2021, 283, 119338.   | 6.4 | 52        |
| 18 | Factors controlling the mechanical properties degradation and permeability of coal subjected to liquid nitrogen freeze-thaw. <i>Scientific Reports</i> , 2017, 7, 3675.   | 3.3 | 50        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Experimental study on pore structure evolution of coal in macroscopic, mesoscopic, and microscopic scales during liquid nitrogen cyclic cold-shock fracturing. <i>Fuel</i> , 2021, 291, 120150.                                     | 6.4 | 47        |
| 20 | Experimental study on coal pore structure deterioration under freeze-thaw cycles. <i>Environmental Earth Sciences</i> , 2017, 76, 1.  | 2.7 | 46        |
| 21 | MicroRNA-223-3p modulates dendritic cell function and ameliorates experimental autoimmune myocarditis by targeting the NLRP3 inflammasome. <i>Molecular Immunology</i> , 2020, 117, 73-83.  | 2.2 | 43        |
| 22 | Evaluation research of the fracturing capacity of non-explosive expansion material applied to coal-seam roof rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 94, 103-111.                         | 5.8 | 40        |
| 23 | Advances in Liquid Nitrogen Fracturing for Unconventional Oil and Gas Development: A Review. <i>Energy &amp; Fuels</i> , 2022, 36, 2971-2992.   | 5.1 | 36        |
| 24 | An integrated technology for gas control and green mining in deep mines based on ultra-thin seam mining. <i>Environmental Earth Sciences</i> , 2017, 76, 1.   | 2.7 | 32        |
| 25 | Infrared thermal image and heat transfer characteristics of coal injected with liquid nitrogen under triaxial loading for coalbed methane recovery. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 1231-1242.  | 4.8 | 30        |
| 26 | A method for accurate characterisation of the pore structure of a coal mass based on two-dimensional nuclear magnetic resonance T1-T2. <i>Fuel</i> , 2020, 262, 116574.   | 6.4 | 30        |
| 27 | Influence factors analysis of a flexible gel sealing material for coal-bed methane drainage boreholes. <i>Environmental Earth Sciences</i> , 2016, 75, 1.   | 2.7 | 27        |
| 28 | The lncRNA ANRIL regulates endothelial dysfunction by targeting the let-7b/TGF $\alpha$ 2R1 signalling pathway. <i>Journal of Cellular Physiology</i> , 2021, 236, 2058-2069.   | 4.1 | 27        |
| 29 | Dynamic Breakage Characteristics of Shale with Different Bedding Angles under the Different Ambient Temperatures. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 3245-3261.   | 5.4 | 24        |
| 30 | Damage and Failure of Hot Dry Rock under Cyclic Liquid Nitrogen Cold Shock Treatment: A Non-destructive Ultrasonic Test Method. <i>Natural Resources Research</i> , 2022, 31, 261-279.  | 4.7 | 18        |
| 31 | Continuous sol-gel derived SiOC/HfO <sub>2</sub> fibers with high strength. <i>RSC Advances</i> , 2015, 5, 35026-35032.   | 3.6 | 17        |
| 32 | Metabolic reprogramming orchestrates CD4+ T-cell immunological status and restores cardiac dysfunction in autoimmune induced-dilated cardiomyopathy mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 135, 134-148. | 1.9 | 17        |
| 33 | Changes of Coal Molecular and Pore Structure under Ultrasonic Stimulation. <i>Energy &amp; Fuels</i> , 2021, 35, 9847-9859.   | 5.1 | 17        |
| 34 | Multifractal Analysis and Neural Network Prediction of Pore Structures in Coal Reservoirs Based on NMR T <sub>2</sub> Spectra. <i>Energy &amp; Fuels</i> , 2021, 35, 11306-11318.   | 5.1 | 17        |
| 35 | Evolution Law of Adsorption and Desorption Characteristics of CH <sub>4</sub> in Coal Masses during Coalbed Methane Extraction. <i>Energy &amp; Fuels</i> , 2018, 32, 10540-10548.  | 5.1 | 16        |
| 36 | Investigation of non-isothermal effect of cyclic carbon dioxide on the petrography of coals for coal mine methane recovery. <i>Fuel</i> , 2021, 290, 120085.  | 6.4 | 16        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Coal pore characteristics at different freezing temperatures under conditions of freezing–thawing cycles. <i>Environmental Earth Sciences</i> , 2018, 77, 1.   | 2.7 | 15        |
| 38 | The performance of soundless cracking agents for weakening rock roof under different notch angles. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.  | 1.3 | 12        |
| 39 | Experimental Study on the Effect of Coal Particle Size on the Mechanics, Pore Structure, and Permeability of Coal-like Materials for Low-Rank Coalbed Methane Reservoir Simulation. <i>Energy &amp; Fuels</i> , 2021, 35, 17566-17579. | 5.1 | 12        |
| 40 | Evaluation of Compressibility of Multiscale Pore–Fractures in Fractured Low-Rank Coals by Low-Field Nuclear Magnetic Resonance. <i>Energy &amp; Fuels</i> , 2021, 35, 13133-13143.   | 5.1 | 10        |
| 41 | Deformation and fracture behavior of strong–weak coupling structure and its application in coal roadway instability prevention. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 203-221.               | 3.4 | 10        |
| 42 | Experimental Study on the Noise Characteristics Regarding Axial Auxiliary Fans and the Noise Reduction Performance of Mufflers. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 4817-4826.                              | 1.1 | 9         |
| 43 | The attenuation of ultrasonic waves in coal: the significance in increasing their propagation distance. <i>Natural Hazards</i> , 2017, 89, 57-77.  | 3.4 | 9         |
| 44 | Protosappanin A protects against experimental autoimmune myocarditis, and induces metabolically reprogrammed tolerogenic DCs. <i>Pharmacological Research</i> , 2019, 146, 104269.   | 7.1 | 8         |
| 45 | Light tunneling effect tuned by a meta-interface with electromagnetically-induced-transparency-like properties. <i>Applied Physics Letters</i> , 2013, 102, .  | 3.3 | 7         |
| 46 | Dynamic mechanical behavior and damage constitutive model of shales with different bedding under compressive impact loading. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.  | 1.3 | 7         |
| 47 | Broadband electromagnetically induced transparency in metamaterials based on hybridization bandgap. <i>AIP Advances</i> , 2020, 10, .  | 1.3 | 6         |
| 48 | Methotrexate Therapy Promotes Cell Coverage and Stability in in-Stent Neointima. <i>Cardiovascular Drugs and Therapy</i> , 2021, 35, 915-925.  | 2.6 | 3         |
| 49 | Brittleness Evolution of Different Rank Coals under the Effects of Cyclic Liquid CO <sub>2</sub> during the Coalbed Methane Recovery Process. <i>Energy &amp; Fuels</i> , 2021, 35, 17651-17662.                                       | 5.1 | 3         |
| 50 | Opposing Propagation Characteristics of Methane-Air Deflagrations in an End-to-End Pipe. <i>International Journal of Spray and Combustion Dynamics</i> , 2014, 6, 67-86.   | 1.0 | 2         |
| 51 | Preparation and Properties of Aluminum Boron Composite. <i>Materials Science Forum</i> , 2016, 849, 775-780.   | 0.3 | 1         |
| 52 | Meta-interface enhanced light tunneling effect and related electromagnetic diode action. <i>Journal of Applied Physics</i> , 2019, 126, .  | 2.5 | 1         |
| 53 | Effects of Proportion of Anhydrous CaCl <sub>2</sub> on the Expansion Properties of Soundless Cracking Agents. <i>Energy &amp; Fuels</i> , 0, , .  | 5.1 | 1         |
| 54 | Data for characterization of the pore wetting process of equal-sized granular coals. <i>Data in Brief</i> , 2022, 41, 107887.  | 1.0 | 0         |