

Yuan-ping Cheng

List of Publications by Year in descending order

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76
papers

5,070
citations

61984

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91884

69
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docs citations

76
times ranked

2097
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Molecular structure characterization of middle-high rank coal via XRD, Raman and FTIR spectroscopy: Implications for coalification. <i>Fuel</i> , 2019, 239, 559-572. | 6.4 | 257 |
| 2 | Environmental impact of coal mine methane emissions and responding strategies in China. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 157-166. | 4.6 | 234 |
| 3 | Gas diffusion in coal particles: A review of mathematical models and their applications. <i>Fuel</i> , 2019, 252, 77-100. | 6.4 | 214 |
| 4 | Reservoir properties of Chinese tectonic coal: A review. <i>Fuel</i> , 2020, 260, 116350. | 6.4 | 197 |
| 5 | A numerical model for outburst including the effect of adsorbed gas on coal deformation and mechanical properties. <i>Computers and Geotechnics</i> , 2013, 54, 222-231. | 4.7 | 159 |
| 6 | Role of the rapid gas desorption of coal powders in the development stage of outbursts. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 28, 491-501. | 4.4 | 145 |
| 7 | Influence of Coalification on the Pore Characteristics of Middle-High Rank Coal. <i>Energy & Fuels</i> , 2014, 28, 5729-5736. | 5.1 | 140 |
| 8 | A Mathematical Model of Coupled Gas Flow and Coal Deformation with Gas Diffusion and Klinkenberg Effects. <i>Rock Mechanics and Rock Engineering</i> , 2015, 48, 1163-1180. | 5.4 | 132 |
| 9 | Experimental investigation on the formation and transport mechanism of outburst coal-gas flow: Implications for the role of gas desorption in the development stage of outburst. <i>International Journal of Coal Geology</i> , 2018, 194, 45-58. | 5.0 | 128 |
| 10 | Experimental study of pore structure and fractal characteristics of pulverized intact coal and tectonic coal by low temperature nitrogen adsorption. <i>Powder Technology</i> , 2019, 350, 15-25. | 4.2 | 124 |
| 11 | A sequential approach to control gas for the extraction of multi-gassy coal seams from traditional gas well drainage to mining-induced stress relief. <i>Applied Energy</i> , 2014, 131, 67-78. | 10.1 | 111 |
| 12 | Experimental investigation on coal pore and fracture characteristics based on fractal theory. <i>Powder Technology</i> , 2019, 346, 341-349. | 4.2 | 108 |
| 13 | Gas outburst disasters and the mining technology of key protective seam in coal seam group in the Huainan coalfield. <i>Natural Hazards</i> , 2013, 67, 763-782. | 3.4 | 104 |
| 14 | Petrographic and geochemical effects of sill intrusions on coal and their implications for gas outbursts in the Wolonghu Mine, Huaibei Coalfield, China. <i>International Journal of Coal Geology</i> , 2011, 88, 55-66. | 5.0 | 100 |
| 15 | Experimental Investigation of Pore Structure Damage in Pulverized Coal: Implications for Methane Adsorption and Diffusion Characteristics. <i>Energy & Fuels</i> , 2016, 30, 10383-10395. | 5.1 | 99 |
| 16 | Experimental Study of Coal and Gas Outbursts Related to Gas-Enriched Areas. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3769-3781. | 5.4 | 99 |
| 17 | Effects of diffusion and suction negative pressure on coalbed methane extraction and a new measure to increase the methane utilization rate. <i>Fuel</i> , 2017, 197, 70-81. | 6.4 | 94 |
| 18 | Fracture failure analysis of hard-thick sandstone roof and its controlling effect on gas emission in underground ultra-thick coal extraction. <i>Engineering Failure Analysis</i> , 2015, 54, 150-162. | 4.0 | 89 |

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|----|---|-----|-----------|
| 19 | Numerical assessment of the effect of equilibration time on coal permeability evolution characteristics. <i>Fuel</i> , 2015, 140, 81-89. | 6.4 | 86 |
| 20 | A novel in-seam borehole hydraulic flushing gas extraction technology in the heading face: Enhanced permeability mechanism, gas flow characteristics, and application. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 46, 498-514. | 4.4 | 86 |
| 21 | Mechanical failure mechanisms and forms of normal and deformed coal combination containing gas: Model development and analysis. <i>Engineering Failure Analysis</i> , 2017, 80, 241-252. | 4.0 | 86 |
| 22 | Safety line method for the prediction of deep coal-seam gas pressure and its application in coal mines. <i>Safety Science</i> , 2012, 50, 523-529. | 4.9 | 81 |
| 23 | Experimental study on the effect of moisture on low-rank coal adsorption characteristics. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 24, 245-251. | 4.4 | 81 |
| 24 | Modeling and experiments for transient diffusion coefficients in the desorption of methane through coal powders. <i>International Journal of Heat and Mass Transfer</i> , 2017, 110, 845-854. | 4.8 | 81 |
| 25 | Addressing the CO ₂ emissions of the world's largest coal producer and consumer: Lessons from the Haishiwang Coalfield, China. <i>Energy</i> , 2015, 80, 400-413. | 8.8 | 80 |
| 26 | Effects of Supercritical CO ₂ Fluids on Pore Morphology of Coal: Implications for CO ₂ Geological Sequestration. <i>Energy & Fuels</i> , 2017, 31, 4731-4741. | 5.1 | 80 |
| 27 | New insights into the CH ₄ adsorption capacity of coal based on microscopic pore properties. <i>Fuel</i> , 2020, 262, 116675. | 6.4 | 78 |
| 28 | Characteristics of microscopic pore structure and fractal dimension of bituminous coal by cyclic gas adsorption/desorption: An experimental study. <i>Fuel</i> , 2018, 232, 495-505. | 6.4 | 77 |
| 29 | The effect of small micropores on methane adsorption of coals from Northern China. <i>Adsorption</i> , 2013, 19, 83-90. | 3.0 | 73 |
| 30 | Drainage and utilization of Chinese coal mine methane with a coal-methane co-exploitation model: Analysis and projections. <i>Resources Policy</i> , 2012, 37, 315-321. | 9.6 | 71 |
| 31 | Safety technologies for the excavation of coal and gas outburst-prone coal seams in deep shafts. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013, 57, 24-33. | 5.8 | 69 |
| 32 | Impact of inherent moisture on the methane adsorption characteristics of coals with various degrees of metamorphism. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 55, 312-320. | 4.4 | 67 |
| 33 | Apparent and True Diffusion Coefficients of Methane in Coal and Their Relationships with Methane Desorption Capacity. <i>Energy & Fuels</i> , 2017, 31, 2643-2651. | 5.1 | 66 |
| 34 | An analysis of the gas-solid plug flow formation: New insights into the coal failure process during coal and gas outbursts. <i>Powder Technology</i> , 2017, 305, 39-47. | 4.2 | 66 |
| 35 | Evaluation of the remote lower protective seam mining for coal mine gas control: A typical case study from the Zhuxianzhuang Coal Mine, Huaibei Coalfield, China. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 44-55. | 4.4 | 62 |
| 36 | Characteristics of gas disaster in the Huaibei coalfield and its control and development technologies. <i>Natural Hazards</i> , 2014, 71, 85-107. | 3.4 | 58 |

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|----|--|------|-----------|
| 37 | A new method for accurate and rapid measurement of underground coal seam gas content. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 1388-1398. | 4.4 | 58 |
| 38 | The controlling effect of thick-hard igneous rock on pressure relief gas drainage and dynamic disasters in outburst coal seams. <i>Natural Hazards</i> , 2013, 66, 1221-1241. | 3.4 | 57 |
| 39 | Effect of Adsorption Contact Time on Coking Coal Particle Desorption Characteristics. <i>Energy & Fuels</i> , 2014, 28, 2287-2296. | 5.1 | 54 |
| 40 | A new effective method and new materials for high sealing performance of cross-measure CMM drainage boreholes. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 21, 805-813. | 4.4 | 49 |
| 41 | Effect of bedding structural diversity of coal on permeability evolution and gas disasters control with coal mining. <i>Natural Hazards</i> , 2014, 73, 531-546. | 3.4 | 49 |
| 42 | Unsteady-State Diffusion of Gas in Coals and Its Relationship with Coal Pore Structure. <i>Energy & Fuels</i> , 2016, 30, 7014-7024. | 5.1 | 49 |
| 43 | Effect of particle size and adsorption equilibrium time on pore structure characterization in low pressure N ₂ adsorption of coal: An experimental study. <i>Advanced Powder Technology</i> , 2020, 31, 4275-4281. | 4.1 | 49 |
| 44 | The effect of sedimentary redbeds on coalbed methane occurrence in the Xutuan and Zhaoji Coal Mines, Huaibei Coalfield, China. <i>International Journal of Coal Geology</i> , 2015, 137, 111-123. | 5.0 | 45 |
| 45 | Investigation of the formation mechanism of coal spallation through the cross-coupling relations of multiple physical processes. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 105, 133-144. | 5.8 | 45 |
| 46 | Master role conversion between diffusion and seepage on coalbed methane production: Implications for adjusting suction pressure on extraction borehole. <i>Fuel</i> , 2018, 223, 373-384. | 6.4 | 45 |
| 47 | The impact of faults on the occurrence of coal bed methane in Renlou coal mine, Huaibei coalfield, China. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 17, 151-158. | 4.4 | 43 |
| 48 | Application of in-seam directional drilling technology for gas drainage with benefits to gas outburst control and greenhouse gas reductions in Daning coal mine, China. <i>Natural Hazards</i> , 2014, 73, 1419-1437. | 3.4 | 43 |
| 49 | Asynchronous difference in dynamic characteristics of adsorption swelling and mechanical compression of coal: Modeling and experiments. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 135, 104498. | 5.8 | 43 |
| 50 | Effects of coal pore structure on methane-coal sorption hysteresis: An experimental investigation based on fractal analysis and hysteresis evaluation. <i>Fuel</i> , 2020, 269, 117438. | 6.4 | 42 |
| 51 | Gas desorption characteristics of the high-rank intact coal and fractured coal. <i>International Journal of Mining Science and Technology</i> , 2015, 25, 819-825. | 10.3 | 40 |
| 52 | Influence of matrix size and pore damage path on the size dependence of gas adsorption capacity of coal. <i>Fuel</i> , 2021, 283, 119289. | 6.4 | 32 |
| 53 | Coupled disaster-causing mechanisms of strata pressure behavior and abnormal gas emissions in underground coal extraction. <i>Environmental Earth Sciences</i> , 2015, 74, 6717-6735. | 2.7 | 31 |
| 54 | Experimental study on the effect of inherent moisture on hard coal adsorption-desorption characteristics. <i>Adsorption</i> , 2017, 23, 723-742. | 3.0 | 31 |

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|----|---|-----|-----------|
| 55 | The evolution of permeability and gas composition during remote protective longwall mining and stress-relief gas drainage: a case study of the underground Haishiwan Coal Mine. <i>Geosciences Journal</i> , 2014, 18, 427-437. | 1.2 | 30 |
| 56 | Gas transport through coal particles: Matrix-flux controlled or fracture-flux controlled?. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 76, 103216. | 4.4 | 27 |
| 57 | Thermal effects of magmatic sills on coal seam metamorphism and gas occurrence. <i>Bulletin of Volcanology</i> , 2014, 76, 1. | 3.0 | 26 |
| 58 | Influence of tectonic evolution on pore structure and fractal characteristics of coal by low pressure gas adsorption. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 87, 103788. | 4.4 | 26 |
| 59 | Experimental investigation on the mechanical characteristics of gas-bearing coal considering the impact of moisture. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1. | 1.3 | 24 |
| 60 | Investigation of the fractal characteristics of adsorption pores and their impact on the methane adsorption capacity of various rank coals via N_2 and H_2O adsorption methods. <i>Energy Science and Engineering</i> , 2020, 8, 3228-3243. | 4.0 | 23 |
| 61 | Effect of Pulverization on the Microporous and Ultramicroporous Structures of Coal Using Low-Pressure CO_2 Adsorption. <i>Energy & Fuels</i> , 2019, 33, 10611-10621. | 5.1 | 20 |
| 62 | Experimental study on influence of adsorption equilibrium time on methane adsorption isotherm and Langmuir parameter. <i>Advanced Powder Technology</i> , 2021, 32, 4110-4119. | 4.1 | 20 |
| 63 | Experimental study on methane adsorption and time-dependent dynamic diffusion coefficient of intact and tectonic coals: Implications for CO_2 -enhanced coalbed methane projects. <i>Chemical Engineering Research and Design</i> , 2021, 156, 568-580. | 5.6 | 20 |
| 64 | Evolution of gas transport pattern with the variation of coal particle size: Kinetic model and experiments. <i>Powder Technology</i> , 2020, 367, 336-346. | 4.2 | 18 |
| 65 | Gas desorption index of drill cuttings affected by magmatic sills for predicting outbursts in coal seams. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1. | 1.3 | 17 |
| 66 | Numerical assessment of the influences of coal permeability and gas pressure inhomogeneous distributions on gas drainage optimization. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 45, 797-811. | 4.4 | 17 |
| 67 | Hydraulic flushing in soft coal sublayer: Gas extraction enhancement mechanism and field application. <i>Energy Science and Engineering</i> , 2019, 7, 1970-1993. | 4.0 | 16 |
| 68 | Calculation of gas concentration-dependent diffusion coefficient in coal particles: Influencing mechanism of gas pressure and desorption time on diffusion behavior. <i>Fuel</i> , 2022, 320, 123973. | 6.4 | 16 |
| 69 | A Langmuir-like desorption model for reflecting the inhomogeneous pore structure of coal and its experimental verification. <i>RSC Advances</i> , 2015, 5, 2434-2440. | 3.6 | 15 |
| 70 | Effects of equilibrium time and adsorption models on the characterization of coal pore structures based on statistical analysis of adsorption equilibrium and disequilibrium data. <i>Fuel</i> , 2020, 281, 118770. | 6.4 | 15 |
| 71 | Effects of Igneous Intrusions on Coal Pore Structure, Methane Desorption and Diffusion within Coal, and Gas Occurrence. <i>Environmental and Engineering Geoscience</i> , 2017, 23, 191-207. | 0.9 | 15 |
| 72 | Evaluation of coal swelling-controlled CO_2 diffusion processes. , 2014, 4, 131-139. | | 10 |

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|----|---|-----|-----------|
| 73 | Pulverization characteristics of coal affected by magmatic intrusion and analysis of the abnormal gas desorption index on drill cuttings. <i>Adsorption Science and Technology</i> , 2018, 36, 805-829. | 3.2 | 8 |
| 74 | Effects of pore morphology and moisture on CBM-related sorption-induced coal deformation: An experimental investigation. <i>Energy Science and Engineering</i> , 2021, 9, 1180-1201. | 4.0 | 8 |
| 75 | Threshold pressure gradient for helium seepage in coal and its application to equivalent seepage channel characterization. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104231. | 4.4 | 8 |
| 76 | Thermal Evolution Characteristics of the Pore Structure in Coal and Its Dominant Factor Conversion. <i>Energy & Fuels</i> , 2021, 35, 13712-13721. | 5.1 | 4 |