

Guang Xu

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,588
citations

236612

25
h-index

315357

38
g-index

59
all docs

59
docs citations

59
times ranked

1035
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Surfactant-aided coal dust suppression: A review of evaluation methods and influencing factors. <i>Science of the Total Environment</i> , 2018, 639, 1060-1076. | 3.9 | 151 |
| 2 | Numerical study of gas–solid two-phase flow in a coal roadway after blasting. <i>Advanced Powder Technology</i> , 2016, 27, 1607-1617. | 2.0 | 99 |
| 3 | A coupled electromagnetic irradiation, heat and mass transfer model for microwave heating and its numerical simulation on coal. <i>Fuel Processing Technology</i> , 2018, 177, 237-245. | 3.7 | 79 |
| 4 | Characterization of coal particles wettability in surfactant solution by using four laboratory static tests. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 567, 304-312. | 2.3 | 76 |
| 5 | Minimizing DPM pollution in an underground mine by optimizing auxiliary ventilation systems using CFD. <i>Tunnelling and Underground Space Technology</i> , 2019, 87, 112-121. | 3.0 | 72 |
| 6 | Modeling the load of SARS-CoV-2 virus in human expelled particles during coughing and speaking. <i>PLoS ONE</i> , 2020, 15, e0241539. | 1.1 | 63 |
| 7 | Improving coal permeability using microwave heating technology—A review. <i>Fuel</i> , 2020, 266, 117022. | 3.4 | 60 |
| 8 | Computational fluid dynamics applied to mining engineering: a review. <i>International Journal of Mining, Reclamation and Environment</i> , 2017, 31, 251-275. | 1.2 | 54 |
| 9 | Evaluation of the coal dust suppression efficiency of different surfactants: A factorial experiment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 595, 124686. | 2.3 | 51 |
| 10 | Factors influencing the filtration performance of homemade face masks. <i>Journal of Occupational and Environmental Hygiene</i> , 2021, 18, 128-138. | 0.4 | 44 |
| 11 | A review of the health effects and exposure-responsible relationship of diesel particulate matter for underground mines. <i>International Journal of Mining Science and Technology</i> , 2017, 27, 831-838. | 4.6 | 40 |
| 12 | Evaluation of SDBS surfactant on coal wetting performance with static methods: Preliminary laboratory tests. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 2140-2150. | 1.2 | 38 |
| 13 | Research and application of non-traditional chemical stabilizers on bauxite residue (red sand) dust control, a review. <i>Science of the Total Environment</i> , 2018, 616-617, 1552-1565. | 3.9 | 38 |
| 14 | Development of a remote analysis method for underground ventilation systems using tracer gas and CFD in a simplified laboratory apparatus. <i>Tunnelling and Underground Space Technology</i> , 2013, 33, 1-11. | 3.0 | 37 |
| 15 | Remote characterization of ventilation systems using tracer gas and CFD in an underground mine. <i>Safety Science</i> , 2015, 74, 140-149. | 2.6 | 37 |
| 16 | Numerical study of diesel particulate matter distribution in an underground mine isolated zone. <i>Powder Technology</i> , 2018, 339, 947-957. | 2.1 | 36 |
| 17 | Comparison of underground mine DPM simulation using discrete phase and continuous phase models. <i>Chemical Engineering Research and Design</i> , 2019, 127, 45-55. | 2.7 | 36 |
| 18 | Experimental study on effective microwave heating/fracturing of coal with various dielectric property and water saturation. <i>Fuel Processing Technology</i> , 2020, 202, 106378. | 3.7 | 36 |

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|----|--|-----|-----------|
| 19 | The development of an optimized evaluation system for improving coal dust suppression efficiency using aqueous solution sprays. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 602, 125104. | 2.3 | 35 |
| 20 | Time Effect of Water Injection on the Mechanical Properties of Coal and Its Application in Rockburst Prevention in Mining. <i>Energies</i> , 2017, 10, 1783. | 1.6 | 32 |
| 21 | The development of microstructure of coal by microwave irradiation stimulation. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 66, 86-95. | 2.1 | 31 |
| 22 | Numerical study on DPM dispersion and distribution in an underground development face based on dynamic mesh. <i>International Journal of Mining Science and Technology</i> , 2020, 30, 471-475. | 4.6 | 31 |
| 23 | Comparison of the coal dust suppression performance of surfactants using static test and dynamic test. <i>Journal of Cleaner Production</i> , 2021, 328, 129633. | 4.6 | 30 |
| 24 | Experimental investigation on variation of physical properties of coal samples subjected to microwave irradiation. <i>Journal of Applied Geophysics</i> , 2018, 150, 118-125. | 0.9 | 27 |
| 25 | Calibration of Mine Ventilation Network Models Using the Non-Linear Optimization Algorithm. <i>Energies</i> , 2018, 11, 31. | 1.6 | 26 |
| 26 | Improving coal powder wettability using electrolyte assisted surfactant solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 613, 126042. | 2.3 | 26 |
| 27 | Effects of Freezing and Thawing Cycle on Mechanical Properties and Stability of Soft Rock Slope. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-10. | 1.0 | 20 |
| 28 | Study on Safety Control of Composite Roof in Deep Roadway Based on Energy Balance Theory. <i>Sustainability</i> , 2019, 11, 3688. | 1.6 | 19 |
| 29 | Effect of polymer stabilizers' viscosity on red sand structure strength and dust pollution resistance. <i>Powder Technology</i> , 2019, 352, 117-125. | 2.1 | 19 |
| 30 | Evolution of Shale Microstructure under Microwave Irradiation Stimulation. <i>Energy & Fuels</i> , 2018, 32, 11467-11476. | 2.5 | 18 |
| 31 | Effect of synthetic and natural polymers on reducing bauxite residue dust pollution. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 556-565. | 1.2 | 18 |
| 32 | Numerical investigation of diesel particulate matter dispersion in an underground development face during key mining activities. <i>Advanced Powder Technology</i> , 2020, 31, 3882-3896. | 2.0 | 18 |
| 33 | Changes on methane concentration after CO ₂ injection in a longwall gob: A case study. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 29, 550-558. | 2.1 | 17 |
| 34 | Effective utilization of tracer gas in characterization of underground mine ventilation networks. <i>Chemical Engineering Research and Design</i> , 2016, 99, 1-10. | 2.7 | 16 |
| 35 | Evolution Law of Adsorption and Desorption Characteristics of CH ₄ in Coal Masses during Coalbed Methane Extraction. <i>Energy & Fuels</i> , 2018, 32, 10540-10548. | 2.5 | 16 |
| 36 | Lignosulfonate Treating Bauxite Residue Dust Pollution: Enhancement of Mechanical Properties and Wind Erosion Behavior. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1. | 1.1 | 16 |

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|----|--|-----|-----------|
| 37 | Numerical study of coal dust behaviors and experimental investigation on coal dust suppression efficiency of surfactant solution by using wind tunnel tests. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2021, 43, 2173-2188. | 1.2 | 14 |
| 38 | Influence of bubble approach velocity on liquid film drainage between a bubble and a spherical particle. <i>Powder Technology</i> , 2018, 338, 140-144. | 2.1 | 11 |
| 39 | Measurement and simulation study on effective drainage radius of borehole along coal seam. <i>Energy Exploration and Exploitation</i> , 2019, 37, 1657-1679. | 1.1 | 10 |
| 40 | Study on the Effect of Iron-Based Deoxidizing Inhibitors for Coal Spontaneous Combustion Prevention. <i>Energies</i> , 2018, 11, 789. | 1.6 | 9 |
| 41 | Permeability Evolution and Particle Size Distribution of Saturated Crushed Sandstone under Compression. <i>Geofluids</i> , 2018, 2018, 1-12. | 0.3 | 9 |
| 42 | Computational Fluid Dynamic Simulation of Inhaled Radon Dilution by Auxiliary Ventilation in a Stone-Coal Mine Laneway and Dosage Assessment of Miners. <i>Processes</i> , 2019, 7, 515. | 1.3 | 9 |
| 43 | Investigation of agglomerating and wetting behaviour during coal dust suppression via the synergistic application of hydrocarbon and short-chain-fluorocarbon surfactants in the presence of electrolytes. <i>Powder Technology</i> , 2022, 404, 117518. | 2.1 | 8 |
| 44 | Characterization of red sand dust pollution control performance via static and dynamic laboratorial experiments when applying polymer stabilizers. <i>Environmental Science and Pollution Research</i> , 2021, 28, 34937-34952. | 2.7 | 7 |
| 45 | Microscopic Diffusion Characteristics of Linear Alkylbenzene Sulfonates on the Surface of Anthracite: The Influence of Different Attachment Sites of Benzene Ring in the Backbone. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1045. | 0.8 | 7 |
| 46 | Physical chemical characterization of thermally and aqueous solution treated maize stalk stem ash and its potential use in a cementing system. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 930-941. | 1.2 | 5 |
| 47 | Influence of the Branched Structure of Polyoxyethylene Units in Nonionic Surfactants on the Wettability of Anthracite: A Combined Modeling and Experimental Study. <i>Adsorption Science and Technology</i> , 2022, 2022, . | 1.5 | 5 |
| 48 | Influence of leakage of air hole on flow and heat transfer in recuperator. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 3931-3947. | 1.2 | 4 |
| 49 | Treatment of bauxite residue dust pollution by improving structural stability via application of synthetic and natural polymers. <i>Journal of Central South University</i> , 2019, 26, 440-448. | 1.2 | 4 |
| 50 | Study on Adsorption Characteristics of Sulfonate Gemini Surfactant on Lignite Surface. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1401. | 0.8 | 4 |
| 51 | Experimental evaluation of the surfactant adsorptions performance on coal particles with different properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 648, 129408. | 2.3 | 4 |
| 52 | Impact of Coalbed Incidence Angle on Methane Enrichment Zone in Longwall Gob. <i>Minerals (Basel)</i> , 2021, 11, 1401. | 0.8 | 3 |
| 53 | Reduction of Airborne Bauxite Residue Dust Pollution by Enhancing the Structural Stability via the Application of Non-traditional Stabilizers. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1. | 1.1 | 3 |
| 54 | Effects of Loading Rate on Gas Seepage and Temperature in Coal and Its Potential for Coal-Gas Disaster Early-Warning. <i>Energies</i> , 2017, 10, 1246. | 1.6 | 2 |

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|----|---|-----|-----------|
| 55 | A mine main fans switchover system with lower air flow volatility based on improved particle swarm optimization algorithm. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401982928. | 0.8 | 2 |
| 56 | Laboratory studies on remote method to assess the damage in underground mines after an emergency. <i>Chemical Engineering Research and Design</i> , 2021, 148, 1337-1345. | 2.7 | 2 |
| 57 | Wettability alteration process at pore-scale during engineered waterflooding using computational fluid dynamics. <i>Modeling Earth Systems and Environment</i> , 2022, 8, 4219-4227. | 1.9 | 2 |
| 58 | Focus Energy Determination of Mining Microseisms Using Residual Seismic Wave Attenuation in Deep Coal Mining. <i>Shock and Vibration</i> , 2018, 2018, 1-13. | 0.3 | 1 |
| 59 | Effect of Synergistic Aging on Bauxite Residue Dust Reduction Performance via the Application of Colloids, an Orthogonal Design-Based Study. <i>Polymers</i> , 2021, 13, 1986. | 2.0 | 1 |