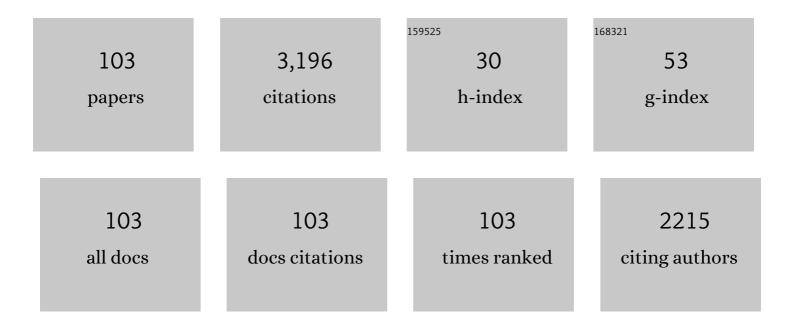
## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5288199/publications.pdf Version: 2024-02-01



FENC CAC

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Energy Dissipation and Release During Coal Failure Under Conventional Triaxial Compression. Rock<br>Mechanics and Rock Engineering, 2015, 48, 509-526.   | 2.6 | 251       |
| 2  | Exact travelling wave solutions for the local fractional two-dimensional Burgers-type equations.<br>Computers and Mathematics With Applications, 2017, 73, 203-210.  | 1.4 | 225       |
| 3  | A new computational approach for solving nonlinear local fractional PDEs. Journal of<br>Computational and Applied Mathematics, 2018, 339, 285-296.   | 1.1 | 184       |
| 4  | A new fractional derivative involving the normalized sinc function without singular kernel.<br>European Physical Journal: Special Topics, 2017, 226, 3567-3575.  | 1.2 | 100       |
| 5  | Evaluation of coal damage and cracking characteristics due to liquid nitrogen cooling on the basis of the energy evolution laws. Journal of Natural Gas Science and Engineering, 2016, 29, 30-36.                                  | 2.1 | 95        |
| 6  | A new technology for solving diffusion and heat equations. Thermal Science, 2017, 21, 133-140.   | 0.5 | 91        |
| 7  | Fundamental solutions of the general fractionalâ€order diffusion equations. Mathematical Methods in the Applied Sciences, 2018, 41, 9312-9320.   | 1.2 | 84        |
| 8  | Theoretical and experimental validation of mining-enhanced permeability for simultaneous exploitation of coal and gas. Environmental Earth Sciences, 2015, 73, 5951-5962.  | 1.3 | 83        |
| 9  | Experimental investigation on the energy evolution of dry and water-saturated red sandstones.<br>International Journal of Mining Science and Technology, 2015, 25, 383-388.  | 4.6 | 82        |
| 10 | Experimental investigation on the nonlinear characteristics of energy evolution and failure<br>characteristics of coal under different gas pressures. Bulletin of Engineering Geology and the<br>Environment, 2022, 81, 1.         | 1.6 | 82        |
| 11 | Effect of damage evolution of coal on permeability variation and analysis of gas outburst hazard with coal mining. Natural Hazards, 2015, 79, 999-1013.  | 1.6 | 70        |
| 12 | Laboratory In Situ CT Observation of the Evolution of 3D Fracture Networks in Coal Subjected to<br>Confining Pressures and Axial Compressive Loads: A Novel Approach. Rock Mechanics and Rock<br>Engineering, 2018, 51, 3361-3375. | 2.6 | 70        |
| 13 | Effect of liquid nitrogen cooling on mechanical characteristics and fracture morphology of layer<br>coal under Brazilian splitting test. International Journal of Rock Mechanics and Minings Sciences,<br>2022, 151, 105026.       | 2.6 | 69        |
| 14 | Theoretical and technological exploration of deep in situ fluidized coal mining. Frontiers in Energy, 2019, 13, 603-611.   | 1.2 | 65        |
| 15 | 3D Multi-scale Reconstruction of Fractured Shale and Influence of Fracture Morphology on Shale<br>Gas Flow. Natural Resources Research, 2021, 30, 2463-2481.   | 2.2 | 65        |
| 16 | Thermo-mechanical coupling damage constitutive model of rock based on the Hoek–Brown strength<br>criterion. International Journal of Damage Mechanics, 2018, 27, 1213-1230.  | 2.4 | 61        |
| 17 | Thermal damage constitutive model for rock considering damage threshold and residual strength.<br>Journal of Central South University, 2018, 25, 2523-2536.  | 1.2 | 60        |
| 18 | Research on the energy evolution characteristics and the failure intensity of rocks. International<br>Journal of Mining Science and Technology, 2020, 30, 705-713.   | 4.6 | 57        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | An experimental investigation on the mechanism of fluid flow through single rough fracture of rock.<br>Science China Technological Sciences, 2013, 56, 2070-2080.   | 2.0 | 56        |
| 20 | A Multi-Parameter Optimization Model for the Evaluation of Shale Gas Recovery Enhancement.<br>Energies, 2018, 11, 654.  | 1.6 | 55        |
| 21 | Quantitative visualization and characteristics of gas flow in 3D pore-fracture system of tight rock<br>based on Lattice Boltzmann simulation. Journal of Natural Gas Science and Engineering, 2021, 89,<br>103867.  | 2.1 | 55        |
| 22 | Influence of Temperature on the Microstructure Deterioration of Sandstone. Energies, 2018, 11, 1753.  | 1.6 | 53        |
| 23 | Strength, Deformability and X-ray Micro-CT Observations of Deeply Buried Marble Under Different<br>Confining Pressures. Rock Mechanics and Rock Engineering, 2016, 49, 4227-4244.   | 2.6 | 50        |
| 24 | Fractional Maxwell fluid with fractional derivative without singular kernel. Thermal Science, 2016, 20, 871-877.  | 0.5 | 50        |
| 25 | Effect of the layer orientation on mechanics and energy evolution characteristics of shales under uniaxial loading. International Journal of Mining Science and Technology, 2016, 26, 857-862.  | 4.6 | 49        |
| 26 | A FRACTAL PERSPECTIVE ON FRACTURE INITIATION AND PROPAGATION OF RESERVOIR ROCKS UNDER WATER AND NITROGEN FRACTURING. Fractals, 2021, 29, .  | 1.8 | 45        |
| 27 | CT Identification and Fractal Characterization of 3â€D Propagation and Distribution of<br>Hydrofracturing Cracks in Lowâ€Permeability Heterogeneous Rocks. Journal of Geophysical Research:<br>Solid Earth, 2018, 123, 2156-2173.   | 1.4 | 42        |
| 28 | Flow Consistency Between Non-Darcy Flow in Fracture Network and Nonlinear Diffusion in Matrix to<br>Gas Production Rate in Fractured Shale Gas Reservoirs. Transport in Porous Media, 2016, 111, 97-121.  | 1.2 | 41        |
| 29 | Effect of liquid nitrogen freeze–thaw cycle on fracture toughness and energy release rate of saturated sandstone. Engineering Fracture Mechanics, 2021, 258, 108066.  | 2.0 | 37        |
| 30 | Numerical analysis of the effect of natural microcracks on the supercritical CO <sub>2</sub><br>fracturing crack network of shale rock based on bonded particle models. International Journal for<br>Numerical and Analytical Methods in Geomechanics, 2017, 41, 1992-2013. | 1.7 | 31        |
| 31 | The effect of liquid nitrogen cooling on coal cracking and mechanical properties. Energy Exploration and Exploitation, 2018, 36, 1609-1628.   | 1.1 | 30        |
| 32 | EXACT TRAVELING-WAVE SOLUTIONS FOR ONE-DIMENSIONAL MODIFIED KORTEWEG–DE VRIES EQUATION DEFINED ON CANTOR SETS. Fractals, 2019, 27, 1940010.   | 1.8 | 30        |
| 33 | Study on the surface crack propagation mechanism of coal and sandstone subjected to cryogenic cooling with liquid nitrogen. Journal of Natural Gas Science and Engineering, 2020, 81, 103436.   | 2.1 | 30        |
| 34 | Impact of Water Film Evaporation on Gas Transport Property in Fractured Wet Coal Seams. Transport in Porous Media, 2016, 113, 357-382.  | 1.2 | 29        |
| 35 | A Fully Coupled Numerical Model for Microwave Heating Enhanced Shale Gas Recovery. Energies, 2018, 11, 1608.  | 1.6 | 29        |
| 36 | Experimental study on coal permeability and cracking characteristics under LN2 freeze-thaw cycles.<br>Journal of Natural Gas Science and Engineering, 2020, 83, 103526.   | 2.1 | 29        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Identification of Coal and Gas Outburst-Hazardous Zones by Electric Potential Inversion During<br>Mining Process in Deep Coal Seam. Rock Mechanics and Rock Engineering, 2022, 55, 3439-3450.   | 2.6 | 29        |
| 38 | Numerical Analysis of Hydrofracturing Behaviors and Mechanisms of Heterogeneous Reservoir<br>Glutenite, Using the Continuumâ€Based Discrete Element Method While Considering Hydromechanical<br>Coupling and Leakâ€Off Effects. Journal of Geophysical Research: Solid Earth, 2018, 123, 3621-3644. | 1.4 | 28        |
| 39 | General fractional calculus in non-singular power-law kernel applied to model anomalous diffusion phenomena in heat transfer problems. Thermal Science, 2017, 21, 11-18.  | 0.5 | 28        |
| 40 | Visualization method for stress-field evolution during rapid crack propagation using 3D printing and photoelastic testing techniques. Scientific Reports, 2018, 8, 4353.  | 1.6 | 27        |
| 41 | Deformation, Permeability and Acoustic Emission Characteristics of Coal Masses under<br>Mining-Induced Stress Paths. Energies, 2018, 11, 2233.  | 1.6 | 26        |
| 42 | Effect of Gas Pressure on Rock Burst Proneness Indexes and Energy Dissipation of Coal Samples.<br>Geotechnical and Geological Engineering, 2016, 34, 1737-1748.   | 0.8 | 25        |
| 43 | New mathematical models in anomalous viscoelasticity from the derivative with respect to another function view point. Thermal Science, 2019, 23, 1555-1561.   | 0.5 | 23        |
| 44 | CO2 permeability of fractured coal subject to confining pressures and elevated temperature:<br>Experiments and modeling. Science China Technological Sciences, 2016, 59, 1931-1942.   | 2.0 | 21        |
| 45 | Shale gas transport mechanisms in inorganic and organic pores based on lattice Boltzmann simulation. Energy Reports, 2020, 6, 2641-2650.  | 2.5 | 20        |
| 46 | ANALYSIS OF PERMEABILITY EVOLUTION CHARACTERISTICS BASED ON DUAL FRACTAL COUPLING MODEL FOR COAL SEAM. Fractals, 2020, 28, 2050133.   | 1.8 | 19        |
| 47 | Experimental Study on the Damage and Cracking Characteristics of Bedded Coal Subjected to Liquid Nitrogen Cooling. Rock Mechanics and Rock Engineering, 2021, 54, 5731-5744.  | 2.6 | 19        |
| 48 | Exact traveling-wave solutions for linear and nonlinear heat-transfer equations. Thermal Science, 2017, 21, 2307-2311.  | 0.5 | 19        |
| 49 | Exact Travelling Wave Solutions for Local Fractional Partial Differential Equations in Mathematical Physics. Advances in Dynamics, Patterns, Cognition, 2019, , 175-191.  | 0.2 | 18        |
| 50 | The Interface Behavior of Multiple Piezoelectric Films Attaching to a Finite-Thickness Gradient<br>Substrate. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .  | 1.1 | 17        |
| 51 | Effect of pore pressure distribution on fracture behavior of sandstone in nitrogen fracturing.<br>Energy Exploration and Exploitation, 2017, 35, 609-626.   | 1.1 | 16        |
| 52 | Numerical Study of Fracture Network Evolution during Nitrogen Fracturing Processes in Shale<br>Reservoirs. Energies, 2018, 11, 2503.  | 1.6 | 16        |
| 53 | Influence of Liquid Nitrogen Cooling State on Mechanical Properties and Fracture Characteristics of Coal. Rock Mechanics and Rock Engineering, 2022, 55, 3817-3836.   | 2.6 | 16        |
| 54 | Lattice-Boltzmann simulation of microscale CH4 flow in porous rock subject to force-induced deformation. Science Bulletin, 2014, 59, 3292-3303.   | 1.7 | 15        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Simulation and visualization of the displacement between CO2 and formation fluids at pore-scale<br>levels and its application to the recovery of shale gas. International Journal of Coal Science and<br>Technology, 2016, 3, 351-369.        | 2.7 | 15        |
| 56 | A fully coupling coal–gas model associated with inertia and slip effects for CBM migration.<br>Environmental Earth Sciences, 2016, 75, 1.   | 1.3 | 15        |
| 57 | Changes in mechanical properties and fracture behaviors of heated marble subjected to liquid nitrogen cooling. Engineering Fracture Mechanics, 2022, 261, 108256.   | 2.0 | 14        |
| 58 | A Study on the Structure of Rock Engineering Coatings Based on Complex Network Theory. Coatings, 2020, 10, 1152.  | 1.2 | 13        |
| 59 | Cohesive energy measurement of van der Waals heterostructures by the shaft loaded blister test.<br>Extreme Mechanics Letters, 2020, 41, 100987.   | 2.0 | 13        |
| 60 | A Two-Phase Flowback Model for Multiscale Diffusion and Flow in Fractured Shale Gas Reservoirs.<br>Geofluids, 2018, 2018, 1-15.   | 0.3 | 12        |
| 61 | Experimental Investigation of Perceptual Characteristics of Functional Cemented Backfilling<br>Materials in Coal Mines. Minerals (Basel, Switzerland), 2019, 9, 55.   | 0.8 | 12        |
| 62 | An Energy Preservation Index for Evaluating the Rockburst Potential Based on Energy Evolution.<br>Energies, 2020, 13, 3636.   | 1.6 | 11        |
| 63 | Researches on Damage Evolution and Acoustic Emission Characteristics of Rocks. Advances in Civil Engineering, 2018, 2018, 1-7.  | 0.4 | 10        |
| 64 | ESTIMATION OF THE FRACTAL DIMENSION OF WEIERSTRASS–MANDELBROT FUNCTION BASED ON CUCKOO<br>SEARCH METHODS. Fractals, 2017, 25, 1750065.  | 1.8 | 9         |
| 65 | Non-Darcy interfacial dynamics of air-water two-phase flow in rough fractures under drainage conditions. Scientific Reports, 2017, 7, 4570.   | 1.6 | 9         |
| 66 | Differences in Petrophysical and Mechanical Properties Between Low- and Middle-Rank Coal Subjected<br>to Liquid Nitrogen Cooling in Coalbed Methane Mining. Journal of Energy Resources Technology,<br>Transactions of the ASME, 2022, 144, . | 1.4 | 9         |
| 67 | Three-dimensional numerical reconstruction method for irregular structures of granular geomaterials. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2018, 4, 327-341.  | 1.3 | 8         |
| 68 | Wrinkling and failure behavior of single-layer MoS2 sheets under in-plane shear. Physical Chemistry<br>Chemical Physics, 2019, 21, 19115-19125.   | 1.3 | 8         |
| 69 | Researches on the Constitutive Models of Artificial Frozen Silt in Underground Engineering.<br>Advances in Materials Science and Engineering, 2014, 2014, 1-8.  | 1.0 | 7         |
| 70 | Numerical Analysis of Heat and Gas Transfer Characteristics during Heat Injection Processes Based on<br>a Thermo-Hydro-Mechanical Model. Energies, 2018, 11, 1722.  | 1.6 | 7         |
| 71 | Finite Deformation Analysis on Sandstone Subjected to Thermo-Hydro-Mechanical (T-H-M) Coupling.<br>Rock Mechanics and Rock Engineering, 2015, 48, 159-177.  | 2.6 | 6         |
| 72 | Analytical Solution of Tunnel Surrounding Rock for Stress and Displacement Based on Lade–Duncan<br>Criterion. Advances in Civil Engineering, 2018, 2018, 1-7.   | 0.4 | 6         |

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Experiment Study on Topological Characteristics of Sandstone Coating by Micro CT. Coatings, 2020, 10, 1143.  | 1.2 | 6         |
| 74 | A FRACTAL PERSPECTIVE ON STRUCTURAL DAMAGE AND FRACTURE CHARACTERISTICS OF COAL SUBJECTED TO LIQUID NITROGEN COOLING AT LABORATORY-SCALE. Fractals, 2022, 30, .  | 1.8 | 6         |
| 75 | Theoretical and Numerical Simulation of the Mining-Enhanced Permeability Model of Damaged Coal<br>Seam. Geotechnical and Geological Engineering, 2016, 34, 1425-1433.  | 0.8 | 5         |
| 76 | Numerical simulation on the flow field characteristics and impact capability of liquid nitrogen jet.<br>Energy Exploration and Exploitation, 2018, 36, 989-1005.   | 1.1 | 5         |
| 77 | Anomalous Advection-Dispersion Equations within General Fractional-Order Derivatives: Models and Series Solutions. Entropy, 2018, 20, 78.  | 1.1 | 5         |
| 78 | Study on Coal Seam Damage Caused by Liquid Nitrogen Under Different Ground Temperature<br>Conditions. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .                                 | 1.4 | 5         |
| 79 | An Experimental Study on Triaxial Compression Tests and Cone Penetration Tests in Planetary Regolith<br>Simulant under Low Gravity Fields. Journal of Testing and Evaluation, 2019, 47, 1677-1700.                   | 0.4 | 5         |
| 80 | Effect of liquid nitrogen thermal shock on structure damage and brittleness properties of<br>high-temperature marble. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2022, 8, 1.                      | 1.3 | 5         |
| 81 | Numerical Evaluation on Stress and Permeability Evolution of Overlying Coal Seams for Gas Drainage and Gas Disaster Elimination in Protective Layer Mining. Mining, Metallurgy and Exploration, 2022, 39, 1027-1043. | 0.4 | 5         |
| 82 | Analytical Solution for Shale Gas Productivity of a Multiple-Fractured Horizontal Well Based on a<br>Diffusion Model. Arabian Journal for Science and Engineering, 2018, 43, 2563-2579.                              | 1.7 | 4         |
| 83 | A Dual Fractal Poroelastic Model for Characterizing Fluid Flow in Fractured Coal Masses. Geofluids, 2020, 2020, 1-13.  | 0.3 | 4         |
| 84 | Influence of Various Control Factors on Fracture Toughness and Fracture Energy of Sandstone<br>Subjected to Liquid Nitrogen Cooling. Energy & Fuels, 2022, 36, 397-406.  | 2.5 | 4         |
| 85 | Effect of Different Cooling Treatments on the Tensile Properties and Fracture Modes of Granite<br>Heated at Different Temperatures. Natural Resources Research, 2022, 31, 817-833.                                   | 2.2 | 4         |
| 86 | Effect of Confining Pressure on Mechanical and Energy Conversion Properties of Gas-Containing Coal under Loads. Geofluids, 2022, 2022, 1-23.   | 0.3 | 4         |
| 87 | A New Analysis Model for Potential Contamination of a Shallow Aquifer from a<br>Hydraulically-Fractured Shale. Energies, 2018, 11, 3010.   | 1.6 | 3         |
| 88 | On Linear and Nonlinear Electric Circuits: A Local Fractional Calculus Approach. , 2018, , 329-355.  |     | 3         |
| 89 | The mechanical properties and fractal characteristics of the coal under temperature-gas-confining pressure. Thermal Science, 2019, 23, 789-798.  | 0.5 | 3         |
| 90 | Variations in Stress Thresholds for Heated Granite Subjected to Rapid Cooling under Different<br>Confining Pressures. Natural Resources Research, 2022, 31, 2653-2671.   | 2.2 | 3         |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | A Comparative Study on Fracture Characteristics of the Red Sandstone under Water and Nitrogen Gas<br>Fracturing. Advances in Civil Engineering, 2018, 2018, 1-15. | 0.4 | 2         |
| 92  | Numerical Simulations on the Front Motion of Water Permeation into Anisotropic Porous Media.<br>Geofluids, 2019, 2019, 1-13.                                      | 0.3 | 2         |
| 93  | A Complex Network Model for Analysis of Fractured Rock Permeability. Advances in Civil Engineering, 2020, 2020, 1-10.   | 0.4 | 2         |
| 94  | Quantitatively Deciphering Paleostrain From Digital Outcrops Model and its Application in the<br>Eastern Tian Shan, China. Tectonics, 2020, 39, e2019TC005999.    | 1.3 | 2         |
| 95  | A MULTI-FIELD COUPLED SEEPAGE MODEL FOR COAL SEAM WITH FRACTURES OF POWER LAW LENGTH DISTRIBUTIONS. Fractals, 2021, 29, 2150140.                                  | 1.8 | 2         |
| 96  | Migration of the Industrial Wastewater in Fractured Rock Masses Based on the<br>Thermal-Hydraulic-Mechanical Coupled Model. Geofluids, 2021, 2021, 1-13.          | 0.3 | 2         |
| 97  | Mass flow rate prediction of shale gas considering gas diffusion and water film evaporation.<br>Numerical Heat Transfer, Part B: Fundamentals, 2019, 76, 285-310. | 0.6 | 1         |
| 98  | Analytical Solutions for Gas-Water Two-Phase Flow in Multiseam Coalbed Methane Production.<br>Geofluids, 2021, 2021, 1-15.  | 0.3 | 1         |
| 99  | Characteristics of Stress, Crack Evolution, and Energy Conversion of Gas-Containing Coal under<br>Different Gas Pressures. Geofluids, 2021, 2021, 1-18.           | 0.3 | 1         |
| 100 | Analytical and Numerical Study of the Ground Pressure of the Work Face Crossing the Fault.<br>Advances in Materials Science and Engineering, 2021, 2021, 1-15.    | 1.0 | 1         |
| 101 | Constraints of Pore-Bulk Strain Ratio and Interference Time on the Evolution of Coal Permeability during CO2 Injection. Geofluids, 2021, 2021, 1-16.              | 0.3 | 0         |
| 102 | A Complex Network Approach for Quantitative Characterization and Robustness Analysis of Sandstone Pore Network Structure. Geofluids, 2021, 2021, 1-10.            | 0.3 | 0         |
| 103 | Energy evolution of coal subjected to thermo-gas-mechanical coupling. Thermal Science, 2019, 23, 685-692.   | 0.5 | 0         |