

Rui Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

931
citations

623734

14
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839539

18
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18
docs citations

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times ranked

791
citing authors

#	ARTICLE	IF	CITATIONS
1	Pore characterization and its impact on methane adsorption capacity for organic-rich marine shales. <i>Fuel</i> , 2016, 181, 227-237.	6.4	219
2	Methane adsorption measurements and modeling for organic-rich marine shale samples. <i>Fuel</i> , 2016, 172, 301-309.	6.4	113
3	Experimental and theoretical characterization of methane and CO ₂ sorption hysteresis in coals based on Langmuir desorption. <i>International Journal of Coal Geology</i> , 2017, 171, 49-60.	5.0	83
4	Characterizations of pore, mineral and petrographic properties of marine shale using multiple techniques and their implications on gas storage capability for Sichuan Longmaxi gas shale field in China. <i>Fuel</i> , 2019, 241, 360-371.	6.4	83
5	Nanopore characterization of mine roof shales by SANS, nitrogen adsorption, and mercury intrusion: Impact on water adsorption/retention behavior. <i>International Journal of Coal Geology</i> , 2018, 200, 173-185.	5.0	75
6	Estimation and modeling of coal pore accessibility using small angle neutron scattering. <i>Fuel</i> , 2015, 161, 323-332.	6.4	67
7	Characterization of nano-to-micron sized respirable coal dust: Particle surface alteration and the health impact. <i>Journal of Hazardous Materials</i> , 2021, 413, 125447.	12.4	52
8	Fractal evolution under in situ pressure and sorption conditions for coal and shale. <i>Scientific Reports</i> , 2017, 7, 8971.	3.3	40
9	Investigation of Accessible Pore Structure Evolution under Pressurization and Adsorption for Coal and Shale Using Small-Angle Neutron Scattering. <i>Energy & Fuels</i> , 2019, 33, 837-847.	5.1	37
10	Discovering Inherent Characteristics of Polyethylenimine-Functionalized Porous Materials for CO ₂ Capture. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36515-36524.	8.0	31
11	The molecular model of Marcellus shale kerogen: Experimental characterization and structure reconstruction. <i>International Journal of Coal Geology</i> , 2021, 246, 103833.	5.0	29
12	Evaluation of Nanoscale Accessible Pore Structures for Improved Prediction of Gas Production Potential in Chinese Marine Shales. <i>Energy & Fuels</i> , 2018, 32, 12447-12461.	5.1	24
13	Characterizing Anisotropic Pore Structure and Its Impact on Gas Storage and Transport in Coalbed Methane and Shale Gas Reservoirs. <i>Energy & Fuels</i> , 2020, 34, 3161-3172.	5.1	24
14	Changes in pore structure of coal caused by coal-to-gas bioconversion. <i>Scientific Reports</i> , 2017, 7, 3840.	3.3	23
15	Pore-Scale Water Vapor Condensation Behaviors in Shales: An Experimental Study. <i>Transport in Porous Media</i> , 2020, 135, 713-734.	2.6	15
16	Comparative study of nanoscale pore structure of Lower Paleozoic marine shales in the Middle-Upper Yangtze area, China: Implications for gas production potential. <i>Geological Journal</i> , 2018, 53, 2413-2426.	1.3	9
17	Unraveling high-pressure gas storage mechanisms in shale nanopores through SANS. <i>Environmental Science: Nano</i> , 2021, 8, 2706-2717.	4.3	5
18	Investigating Hierarchical Gas Confinement in High-Rank Coal through Small-Angle Neutron Scattering. <i>Energy & Fuels</i> , 2021, 35, 13109-13123.	5.1	2