

Xinmin Ge

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

718
citations

623734

14
h-index

526287

27
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31
all docs

31
docs citations

31
times ranked

587
citing authors

#	ARTICLE	IF	CITATIONS
1	An unsupervised clustering method for nuclear magnetic resonance transverse relaxation spectrums based on the Gaussian mixture model and its application. <i>Petroleum Exploration and Development</i> , 2022, 49, 339-348.	7.0	5
2	NMR transverse relaxation of the clay-rich shale in inhomogeneous magnetic field: A numerical study. <i>Computers and Geosciences</i> , 2022, 166, 105174.	4.2	3
3	Rapid screening for hazelnut oil and high oleic sunflower oil in extra virgin olive oil using low field nuclear magnetic resonance relaxometry and machine learning. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 2389-2397.	3.5	20
4	Determining the transverse surface relaxivity of reservoir rocks: A critical review and perspective. <i>Marine and Petroleum Geology</i> , 2021, 126, 104934.	3.3	31
5	Numerical investigating the low field NMR response of representative pores at different pulse sequence parameters. <i>Computers and Geosciences</i> , 2021, 151, 104761.	4.2	4
6	Convolutional neural network based approach for classification of edible oils using low-field nuclear magnetic resonance. <i>Journal of Food Composition and Analysis</i> , 2020, 92, 103566.	3.9	20
7	Laboratory investigation of the relationship between static rock elastic parameters and low field nuclear magnetic resonance data. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 127, 104207.	5.8	11
8	A Practical Method to Compensate for the Effect of Echo Spacing on the Shale NMR T ₂ Spectrum. <i>Earth and Space Science</i> , 2019, 6, 1489-1497.	2.6	5
9	Pore size distribution and reservoir characterization: evaluation for the Eocene beach-bar sequence, Dongying Depression, China. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	3
10	Multifractal Analysis of Pore Structure of Tight Oil Reservoirs Using Low-Field NMR Measurements. , 2019, , 61-82.		2
11	Pore Structure Evaluation of Bioclastic Limestone Using NMR and HPMI Measurements. <i>Applied Magnetic Resonance</i> , 2019, 50, 29-45.	1.2	3
12	Predicting gas content in high-maturity marine shales using artificial intelligence based seismic multiple-attributes analysis: A case study from the lower Silurian Longmaxi Formation, Sichuan Basin, China. <i>Marine and Petroleum Geology</i> , 2019, 101, 180-194.	3.3	8
13	Laboratory Investigation Into the Formation and Dissociation Process of Gas Hydrate by Low Field NMR Technique. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3339-3346.	3.4	83
14	Investigating Influential Factors of the Gas Absorption Capacity in Shale Reservoirs Using Integrated Petrophysical, Mineralogical and Geochemical Experiments: A Case Study. <i>Energies</i> , 2018, 11, 3078.	3.1	12
15	A new workflow to improve the carbonate reservoir types discrimination combing the empirical model decomposition and energy entropy classification methods. <i>Interpretation</i> , 2018, 6, T555-T567.	1.1	1
16	Quantitative evaluation of the heterogeneity for tight sand based on the nuclear magnetic resonance imaging. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 38, 74-80.	4.4	13
17	A new method for rock brittleness evaluation in tight oil formation from conventional logs and petrophysical data. <i>Journal of Petroleum Science and Engineering</i> , 2017, 151, 169-182.	4.2	28
18	An adaptive method for determining an acquisition parameter t_0 in a modified CPMG sequence. <i>Journal of Magnetic Resonance</i> , 2017, 276, 51-59.	2.1	1

#	ARTICLE	IF	CITATIONS
19	The inversion of 2D NMR relaxometry data using L1 regularization. Journal of Magnetic Resonance, 2017, 275, 46-54.	2.1	38
20	An improved method for permeability estimation of the bioclastic limestone reservoir based on NMR data. Journal of Magnetic Resonance, 2017, 283, 96-109.	2.1	31
21	An improved pulse sequence and inversion algorithm of T_2 spectrum. Computer Physics Communications, 2017, 212, 82-89.	7.5	12
22	An improvement of the fractal theory and its application in pore structure evaluation and permeability estimation. Journal of Geophysical Research: Solid Earth, 2016, 121, 6333-6345.	3.4	32
23	Joint inversion of T_1 - T_2 spectrum combining the iterative truncated singular value decomposition and the parallel particle swarm optimization algorithms. Computer Physics Communications, 2016, 198, 59-70.	7.5	24
24	Determination of Total Organic Carbon (TOC) in tight reservoir using Empirical Mode Decomposition-Support Vector Regression (EMD-SVR): A case study from XX-1 Basin, Western China. ASEG Extended Abstracts, 2015, 2015, 1-10.	0.1	6
25	A hybrid method for geological and geophysical data with multi-peak distributions using the PSO-GRC algorithm. Journal of Geophysics and Engineering, 2015, 12, 283-291.	1.4	7
26	Pore structure characterization and classification using multifractal theory—An application in Santanghu basin of western China. Journal of Petroleum Science and Engineering, 2015, 127, 297-304.	4.2	131
27	Probing the influential factors of NMR T_1 - T_2 spectra in the characterization of the kerogen by numerical simulation. Journal of Magnetic Resonance, 2015, 260, 54-66.	2.1	17
28	Determination of nuclear magnetic resonance T_2 cutoff value based on multifractal theory—An application in sandstone with complex pore structure. Geophysics, 2015, 80, D11-D21.	2.6	107
29	Noise reduction of nuclear magnetic resonance (NMR) transversal data using improved wavelet transform and exponentially weighted moving average (EWMA). Journal of Magnetic Resonance, 2015, 251, 71-83.	2.1	28
30	Reservoir Pore Structure Classification Technology of Carbonate Rock Based on NMR T_2 Spectrum Decomposition. Applied Magnetic Resonance, 2014, 45, 155-167.	1.2	32