Maxim Lebedev

List of Publications by Year
in descending order

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270	8,968	34105	53230
papers	citations	52 h-index	85 g-index

279	279	279	3808
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coal cleat network evolution through liquid nitrogen freeze-thaw cycling. Fuel, 2022, 314, 123069.	6.4	24
2	The Influence of CO2 Saturated Brine on Microstructure of Coal: Implications for Carbon Geo-Sequestration. Frontiers in Energy Research, 2022, 10, .	2.3	2
3	A New Approach To Calculate Gas Saturation in Shale Reservoirs. Energy & Fuels, 2022, 36, 1904-1915.	5.1	7
4	Experimental study of temperature change effect on distributed acoustic sensing continuous measurements. Geophysics, 2022, 87, D111-D122.	2.6	10
5	The dead volume effect on the elastic moduli measurements using the forcedâ€oscillation method. Geophysical Prospecting, 2022, 70, 547-557.	1.9	2
6	Coal fines migration: A holistic review of influencing factors. Advances in Colloid and Interface Science, 2022, 301, 102595.	14.7	22
7	Wettability of Shale/Oil/Brine Systems: A New Physicochemical and Imaging Approach. , 2022, , .		5
8	Hydrogen Flooding of a Coal Core: Effect on Coal Swelling. Geophysical Research Letters, 2022, 49, .	4.0	35
9	Hydrogen storage potential of coals as a function of pressure, temperature, and rank. Journal of Colloid and Interface Science, 2022, 620, 86-93.	9.4	47
10	The rock mechanical properties of lacustrine shales: Argillaceous shales versus silty laminae shales. Marine and Petroleum Geology, 2022, 141, 105707.	3.3	12
11	Fluidâ€“rock interactions and its implications on EOR: Critical analysis, experimental techniques and knowledge gaps. Energy Reports, 2022, 8, 6355-6395.	5.1	30
12	Initial and residual trapping of hydrogen and nitrogen in Fontainebleau sandstone using nuclear magnetic resonance core flooding. International Journal of Hydrogen Energy, 2022, 47, 22482-22494.	7.1	30
13	Micro-Cleat and Permeability Evolution of Anisotropic Coal During Directional CO2 Flooding: An In Situ Micro-CT Study. Natural Resources Research, 2022, 31, 2805-2818.	4.7	36
14	Elastic properties of a reservoir sandstone: a broadband interâ€laboratory benchmarking exercise. Geophysical Prospecting, 2021, 69, 404-418.	1.9	5
15	Seismic dispersion and attenuation in Mancos shale â€“ laboratory measurements. Geophysical Prospecting, 2021, 69, 568-585.	1.9	12
16	Interaction of low salinity surfactant nanofluids with carbonate surfaces and molecular level dynamics at fluid-fluid interface at ScCO2 loading. Journal of Colloid and Interface Science, 2021, 586, 315-325.	9.4	27
17	Modeling of Compaction Trends of Anisotropic Elastic Properties of Shales. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	8
18	X-ray tomography imaging of shale microstructures: A review in the context of multiscale correlative imaging. International Journal of Coal Geology, 2021, 233, 103641.	5.0	69

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19	Shale Wettability: Data Sets, Challenges, and Outlook. Energy & Fuels, 2021, 35, 2965-2980.	5.1	76
20	A Laboratory Forced-Oscillation Apparatus for Measurements of Elastic and Anelastic Properties of Rocks at Seismic Frequencies. Frontiers in Earth Science, 2021, 9, .	1.8	7
21	Effect of humic acid on CO2-wettability in sandstone formation. Journal of Colloid and Interface Science, 2021, 588, 315-325.	9.4	63
22	Influence of pore structural properties on gas hydrate saturation and permeability: A coupled pore-scale modelling and X-ray computed tomography method. Journal of Natural Gas Science and Engineering, 2021, 88, 103805.	4.4	31
23	Investigating the mechanism of microbiologically influenced corrosion of carbon steel using X-ray micro-computed tomography. Journal of Materials Science, 2021, 56, 13337-13371.	3.7	6
24	Experimental Study on Petrophysical Properties as a Tool to Identify Pore Fluids in Tight-Rock Reservoirs. Frontiers in Earth Science, 2021, 9, .	1.8	6
25	Simulating Coal Permeability Change as a Function of Effective Stress Using a Microscale Digital Rock Model. Energy & Fuels, 2021, 35, 8756-8762.	5.1	14
26	Rock/Fluid/Polymer Interaction Mechanisms: Implications for Water Shut-off Treatment. Energy & Fuels, 2021, 35, 12809-12827.	5.1	9
27	Bulk moduli of sandstones subjected to isotropic stress: Simultaneous static and dynamic experimental study. Journal of Applied Geophysics, 2021, 191, 104344.	2.1	2
28	A novel approach to determine the Biotâ€™s coefficient using X-ray computed tomography. Bulletin of Engineering Geology and the Environment, 2021, 80, 7865-7877.	3.5	3
29	Laboratory measurements with DAS: A fast and sensitive tool to obtain elastic properties at seismic frequencies. The Leading Edge, 2021, 40, 655-661.	0.7	3
30	Highâ€Precision Tracking of Sandstone Deformation From Microâ€CT Images. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022283.	3.4	0
31	Pore scale investigation of hydrogen injection in sandstone via X-ray micro-tomography. International Journal of Hydrogen Energy, 2021, 46, 34822-34829.	7.1	52
32	Neutron scattering: A subsurface application review. Earth-Science Reviews, 2021, 221, 103755.	9.1	26
33	Liquid nitrogen fracturing efficiency as a function of coal rank: A multi-scale tomographic study. Journal of Natural Gas Science and Engineering, 2021, 95, 104177.	4.4	52
34	Influence of gas hydrate saturation and pore habits on gas relative permeability in gas hydrate-bearing sediments: Theory, experiment and case study. Journal of Natural Gas Science and Engineering, 2021, 95, 104171.	4.4	19
35	Effect of pore fluid on ultrasonic S-wave attenuation in partially saturated tight rocks. International Journal of Rock Mechanics and Minings Sciences, 2021, 147, 104910.	5.8	6
36	Integral effects of initial fluids configuration and wettability alteration on remaining saturation: characterization with X-ray micro-computed tomography. Fuel, 2021, 306, 121717.	6.4	8

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37	Fluidâ€“Fluid Interfacial Effects in Multiphase Flow during Carbonated Waterflooding in Sandstone: Application of X-ray Microcomputed Tomography and Molecular Dynamics. ACS Applied Materials & Interfaces, 2021, 13, 5731-5740.	8.0	7
38	Simultaneous experimental study of dynamic and static Youngâ€™s moduli in sandstones. Exploration Geophysics, 2021, 52, 601-611.	1.1	3
39	Nano-mechanical Properties and Pore-Scale Characterization of Different Rank Coals. Natural Resources Research, 2020, 29, 1787-1800.	4.7	17
40	Experimental investigation of carbonate wettability as a function of mineralogical and thermo-physical conditions. Fuel, 2020, 264, 116846.	6.4	49
41	A solid/fluid substitution scheme constrained by pore-scale numerical simulations. Geophysical Journal International, 2020, 220, 1804-1812.	2.4	3
42	Pore-scale analysis of coal cleat network evolution through liquid nitrogen treatment: A Micro-Computed Tomography investigation. International Journal of Coal Geology, 2020, 219, 103370.	5.0	99
43	Pore scale investigation of low salinity surfactant nanofluid injection into oil saturated sandstone via X-ray micro-tomography. Journal of Colloid and Interface Science, 2020, 562, 370-380.	9.4	78
44	Carbonate rock mechanical response to CO2 flooding evaluated by a combined X-ray computed tomography â€“ DEM method. Journal of Natural Gas Science and Engineering, 2020, 84, 103675.	4.4	21
45	Elastic Moduli of Arenites From Microtomographic Images: A Practical Digital Rock Physics Workflow. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020422.	3.4	6
46	In Situ Wettability Investigation of Aging of Sandstone Surface in Alkane via X-ray Microtomography. Energies, 2020, 13, 5594.	3.1	6
47	Ultrasonic characterization of anisotropic rocks: Impact of transducersâ€™ size and geometry on data interpretation. Geophysics, 2020, 85, C99-C105.	2.6	2
48	A novel hybrid method for gas hydrate filling modes identification via digital rock. Marine and Petroleum Geology, 2020, 115, 104255.	3.3	46
49	The effects of stress and fluid on the anisotropy of reservoir rock: case study of a sandstone from the harvey 3 CCS site, Western Australia. Exploration Geophysics, 2020, 51, 434-445.	1.1	0
50	Geochemical controls on wettability alteration at pore-scale during low salinity water flooding in sandstone using X-ray micro computed tomography. Fuel, 2020, 271, 117675.	6.4	36
51	Coal fracturing through liquid nitrogen treatment: a micro-computed tomography study. APPEA Journal, 2020, 60, 67.	0.2	25
52	An Optimized Digital Rock Physics Workflow for Elastic Moduli Estimation of Sandstones with Dispersed Clay. , 2020, , .		1
53	The overestimated elastic moduli from digital rock images: Computational reasons. , 2020, , .		0
54	Elastic properties of sands, Part 1: Micro computed tomography image analysis of grain shapes and their relationship with microstructure. Geophysical Prospecting, 2019, 67, 723-744.	1.9	6

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55	Water retention effects on elastic properties of Opalinus shale. Geophysical Prospecting, 2019, 67, 984-996.	1.9	18
56	Research note: the effect of strain amplitude produced by ultrasonic waves on its velocity. Geophysical Prospecting, 2019, 67, 715-722.	1.9	10
57	A triple porosity scheme for fluid/solid substitution: theory and experiment. Geophysical Prospecting, 2019, 67, 888-899.	1.9	9
58	Residual Trapping of CO₂ in an Oilâ€Filled, Oilâ€Wet Sandstone Core: Results of Threeâ€Phase Poreâ€Scale Imaging. Geophysical Research Letters, 2019, 46, 11146-11154.	4.0	53
59	X-ray micro-computed tomography and ultrasonic velocity analysis of fractured shale as a function of effective stress. Marine and Petroleum Geology, 2019, 110, 472-482.	3.3	23
60	Wettability Alteration of Quartz Surface by Low-Salinity Surfactant Nanofluids at High-Pressure and High-Temperature Conditions. Energy & Fuels, 2019, 33, 7062-7068.	5.1	89
61	CO 2 â€Saturated Brine Injection Into Unconsolidated Sandstone: Implications for Carbon Geosequestration. Journal of Geophysical Research: Solid Earth, 2019, 124, 10823-10838.	3.4	10
62	Wave-velocity dispersion and rock microstructure. Journal of Petroleum Science and Engineering, 2019, 183, 106466.	4.2	31
63	The effect of wave amplitude on S-wave velocity in porous media: an experimental study by Laser Doppler Interferometry. Exploration Geophysics, 2019, 50, 683-691.	1.1	6
64	Simulation and experimental measurements of internal magnetic field gradients and NMR transverse relaxation times (T2) in sandstone rocks. Journal of Petroleum Science and Engineering, 2019, 175, 985-997.	4.2	49
65	Xâ€ray microâ€computed tomography analysis of accumulated corrosion products in deepâ€water shipwrecks. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1977-1998.	1.5	6
66	A Seismicâ€Frequency Laboratory Study of Solid Substitution in Bentheim Sandstone. Journal of Geophysical Research: Solid Earth, 2019, 124, 5492-5499.	3.4	4
67	Laboratory ultrasonic measurements: Shear transducers for compressional waves. The Leading Edge, 2019, 38, 392-399.	0.7	7
68	Wettability of rock/CO2/brine and rock/oil/CO2-enriched-brine systems:Critical parametric analysis and future outlook. Advances in Colloid and Interface Science, 2019, 268, 91-113.	14.7	138
69	CO2-wettability of sandstones exposed to traces of organic acids: Implications for CO2 geo-storage. International Journal of Greenhouse Gas Control, 2019, 83, 61-68.	4.6	88
70	Elastic properties of sands, Part 2: Implementation of contactâ€based model to determine the elasticity of the grains from ultrasonic measurements. Geophysical Prospecting, 2019, 67, 745-760.	1.9	4
71	Assessing mineral composition and permeability of a shale seal. ASEG Extended Abstracts, 2019, 2019, 1-5.	0.1	0
72	Electrical formation factor of clean sand from laboratory measurements and digital rock physics. Solid Earth, 2019, 10, 1505-1517.	2.8	10

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73	Organic acid concentration thresholds for ageing of carbonate minerals: Implications for CO2 trapping/storage. Journal of Colloid and Interface Science, 2019, 534, 88-94.	9.4	91
74	In-situ X-ray micro-computed tomography imaging of the microstructural changes in water-bearing medium rank coal by supercritical CO2 flooding. International Journal of Coal Geology, 2019, 203, 28-35.	5.0	43
75	Carbon Dioxide/Brine, Nitrogen/Brine, and Oil/Brine Wettability of Montmorillonite, Illite, and Kaolinite at Elevated Pressure and Temperature. Energy & Fuels, 2019, 33, 441-448.	5.1	61
76	A Laboratory Study of the Effect of Boundary Conditions on the Elastic Moduli Measurements. , 2019, , .		3
77	Porosity estimation in kerogen-bearing shale gas reservoirs. Journal of Natural Gas Science and Engineering, 2018, 52, 575-581.	4.4	37
78	Carbon dioxide/brine wettability of porous sandstone versus solid quartz: An experimental and theoretical investigation. Journal of Colloid and Interface Science, 2018, 524, 188-194.	9.4	49
79	Morphological evaluation of heterogeneous oolitic limestone under pressure and fluid flow using X-ray microtomography. Journal of Applied Geophysics, 2018, 150, 172-181.	2.1	21
80	Characterization of nanoscale rockmechanical properties and microstructures of a Chinese sub-bituminous coal. Journal of Natural Gas Science and Engineering, 2018, 52, 106-116.	4.4	42
81	Nanoscale rock mechanical property changes in heterogeneous coal after water adsorption. Fuel, 2018, 218, 23-32.	6.4	85
82	High pressure-elevated temperature x-ray micro-computed tomography for subsurface applications. Advances in Colloid and Interface Science, 2018, 256, 393-410.	14.7	52
83	Compaction trends of full stiffness tensor and fluid permeability in artificial shales. Geophysical Journal International, 2018, 212, 1687-1693.	2.4	14
84	On the interpretation of ultrasonic laboratory measurements in anisotropic media. Geophysics, 2018, 83, C173-C178.	2.6	6
85	Prediction of Hydrate Phase Equilibrium Conditions for Different Gas Mixtures. , 2018, , .		1
86	Wettability of nanofluid-modified oil-wet calcite at reservoir conditions. Fuel, 2018, 211, 405-414.	6.4	116
87	Ultrasonic velocity measurements on thin rock samples: Experiment and numerical modeling. Geophysics, 2018, 83, MR47-MR56.	2.6	17
88	Microstructural Effects on Mechanical Properties of Shaly Sandstone. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	3.0	43
89	Nanoscale geomechanical properties of Western Australian coal. Journal of Petroleum Science and Engineering, 2018, 162, 736-746.	4.2	40
90	Optimum Image Resolution of a micro-CT image to characterize shape descriptors of unconsolidated sand. ASEG Extended Abstracts, 2018, 2018, 1-8.	0.1	0

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91	The impact of water saturation on the elastic anisotropy dispersion in the Wellington shale at seismic frequencies. ASEG Extended Abstracts, 2018, 2018, 1-5.	0.1	0
92	Compressional wave velocity of hydrate-bearing bentheimer sediments with varying pore fillings. International Journal of Hydrogen Energy, 2018, 43, 23193-23200.	7.1	36
93	CO2 saturated brine injected into fractured shale: An X-ray micro-tomography in-situ analysis at reservoir conditions. Energy Procedia, 2018, 154, 125-130.	1.8	3
94	Experimental Study of Supercritical CO2 Injected into Water Saturated Medium Rank Coal by X-ray MicroCT. Energy Procedia, 2018, 154, 131-138.	1.8	5
95	The CO2CRC Otway shallow CO2 controlled release experiment: Preparation for Phase 2. Energy Procedia, 2018, 154, 145-150.	1.8	7
96	Reactive Flow in Unconsolidated Sandstone: Application to Carbon Geosequestration. , 2018, , .		1
97	Low Salinity Surfactant Nanofluids For Enhanced CO2 Storage Application At High Pressure And Temperature. , 2018, , .		16
98	Pore Scale Analysis the Formation Dissolution with Capillary Trapping Change for CO2 Injected into Carbonate Reservoir. , 2018, , .		1
99	Experimental pore-scale analysis of carbon dioxide hydrate in sandstone via X-Ray micro-computed tomography. International Journal of Greenhouse Gas Control, 2018, 79, 73-82.	4.6	47
100	Coupled measurements of hydraulic permeability and full stiffness tensor compaction trends in artificial shales. ASEG Extended Abstracts, 2018, 2018, 1-7.	0.1	0
101	Sorptionâ€Induced Deformation and Elastic Weakening of Bentheim Sandstone. Journal of Geophysical Research: Solid Earth, 2018, 123, 8589-8601.	3.4	29
102	Estimation of grain elasticity properties from ultrasonic measurements on dry granular pack. Geophysical Prospecting, 2018, 66, 1726-1736.	1.9	3
103	Experimental and Theoretical Study of Water Retention Effects on Elastic Properties of Opalinus Shale. ASEG Extended Abstracts, 2018, 2018, 1-8.	0.1	0
104	Effect of Amplitude on Wave Propagation. ASEG Extended Abstracts, 2018, 2018, 1-5.	0.1	0
105	The Elastic Moduli Change After Carbon Dioxide Flooding Into Limestone: An Experimental Study. , 2018, , .		0
106	Forward and inversion modelling of the ultrasonic wave in a homogeneous medium using P-wave transducers. ASEG Extended Abstracts, 2018, 2018, 1-7.	0.1	0
107	Estimation of elastic anisotropy from three-component ultrasonic measurements using laser Doppler interferometry. Exploration Geophysics, 2018, 49, 744-750.	1.1	0
108	A Realistic Look at Nanostructured Material as an Innovative Approach for Enhanced Oil Recovery Process Upgrading. , 2018, , .		5

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109	Effect of supercritical CO₂ on carbonates: SavonniÃ¨res sample case study. Geophysical Prospecting, 2017, 65, 251-265.	1.9	18
110	Influence of surface chemistry on interfacial properties of low to high rank coal seams. Fuel, 2017, 194, 211-221.	6.4	63
111	Electrochemical investigation of the effect of temperature, salinity and salt type on brine/mineral interfacial properties. International Journal of Greenhouse Gas Control, 2017, 59, 136-147.	4.6	48
112	Micro-scale fracturing mechanisms in coal induced by adsorption of supercritical CO 2. International Journal of Coal Geology, 2017, 175, 40-50.	5.0	76
113	Effect of CT image size and resolution on the accuracy of rock property estimates. Journal of Geophysical Research: Solid Earth, 2017, 122, 3635-3647.	3.4	65
114	CO2 storage in carbonates: Wettability of calcite. International Journal of Greenhouse Gas Control, 2017, 62, 113-121.	4.6	108
115	Effect of the Temperature on CO₂/Brine/Dolomite Wettability: Hydrophilic versus Hydrophobic Surfaces. Energy & Fuels, 2017, 31, 6329-6333.	5.1	52
116	Wettability alteration of oil-wet limestone using surfactant-nanoparticle formulation. Journal of Colloid and Interface Science, 2017, 504, 334-345.	9.4	106
117	CO 2 geo-storage capacity enhancement via nanofluid priming. International Journal of Greenhouse Gas Control, 2017, 63, 20-25.	4.6	39
118	Experimental determination of hydrate phase equilibrium for different gas mixtures containing methane, carbon dioxide and nitrogen with motor current measurements. Journal of Natural Gas Science and Engineering, 2017, 38, 59-73.	4.4	79
119	Wettability of nano-treated calcite/CO 2 /brine systems: Implication for enhanced CO 2 storage potential. International Journal of Greenhouse Gas Control, 2017, 66, 97-105.	4.6	50
120	Carbon geosequestration in limestone: Pore-scale dissolution and geomechanical weakening. International Journal of Greenhouse Gas Control, 2017, 66, 106-119.	4.6	108
121	Permeability Evolution in Sandstone Due to CO₂ Injection. Energy & Fuels, 2017, 31, 12390-12398.	5.1	55
122	Impact of Solid Surface Energy on Wettability of CO2-brine-Mineral Systems as a Function of Pressure, Temperature and Salinity. Energy Procedia, 2017, 114, 4832-4842.	1.8	17
123	Residual Trapping of Supercritical CO2: Direct Pore-scale Observation Using a Low Cost Pressure Cell for Micro Computer Tomography. Energy Procedia, 2017, 114, 4967-4974.	1.8	22
124	Influence of Rock Microstructure on its Electrical Properties: An Analysis Using X-ray Microcomputed Tomography. Energy Procedia, 2017, 114, 5023-5031.	1.8	10
125	Coal Wettability After CO₂ Injection. Energy & Fuels, 2017, 31, 12376-12382.	5.1	27
126	Stabilising nanofluids in saline environments. Journal of Colloid and Interface Science, 2017, 508, 222-229.	9.4	88

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127	A two-scale geostatistical approach for elastic properties estimation. , 2017, , .		0
128	Influence of Miscible CO2 Flooding on Wettability and Asphaltene Precipitation in Indiana Lime Stone. , 2017, , .		20
129	Wettability Alteration of Carbonate Rocks via Nanoparticle-Anionic Surfactant Flooding at Reservoirs Conditions. , 2017, , .		17
130	Seismic Effects of Viscoelastic Pore Fill on Double-Porosity Rocks. , 2017, , .		1
131	A new method for TOC estimation in tight shale gas reservoirs. International Journal of Coal Geology, 2017, 179, 269-277.	5.0	76
132	Effect of temperature and SiO2 nanoparticle size on wettability alteration of oil-wet calcite. Fuel, 2017, 206, 34-42.	6.4	115
133	Nanoparticles influence on wetting behaviour of fractured limestone formation. Journal of Petroleum Science and Engineering, 2017, 149, 782-788.	4.2	77
134	Influence of shaleâ€total organic content on CO₂ geoâ€storage potential. Geophysical Research Letters, 2017, 44, 8769-8775.	4.0	107
135	Compaction Trends of Permeability in Artificial Shales Measured Using Pressure-oscillation Technique. , 2017, , .		0
136	The Effect of Constriction in Hydraulic Fracturing. Springer Series in Geomechanics and Geoengineering, 2017, , 613-619.	0.1	3
137	Effect of Grain Shapes in Coordination Number from Micro-CT Image Analysis of an Unconsolidated Sand. , 2017, , .		1
138	Ultrasonic Velocities of Unconsolidated Sand: Evaluating the Microstructure and Contact Based Models. , 2017, , .		1
139	The coupling of elastic properties and hydraulic permeability in artificial shales. , 2017, , .		0
140	3D pore scale analysis of limestone matrix dissolution in CO2 EOR and geosequestration. , 2017, , .		0
141	True-Triaxial-cell set up to estimate the stress induced anisotropy: Uniformity study. ASEG Extended Abstracts, 2016, 2016, 1-4.	0.1	0
142	Inverting Dynamic Elastic Moduli of a Granular Pack to Get Shear Modulus of the Grain. ASEG Extended Abstracts, 2016, 2016, 1-5.	0.1	1
143	Digital carbonate rock physics. Solid Earth, 2016, 7, 1185-1197.	2.8	30
144	Analysis of highâ€resolution Xâ€ray computed tomography images of Bentheim sandstone under elevated confining pressures. Geophysical Prospecting, 2016, 64, 848-859.	1.9	48

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145	Ultrasonic measurements on thin samples: numerical modelling. ASEG Extended Abstracts, 2016, 2016, 1-5.	0.1	0
146	A laboratory study of the elastic anisotropy in the Mancos Shale at seismic frequencies. , 2016, , .		5
147	Ultrasonic measurements on thin samples: Experiment and numerical modeling. , 2016, , .		0
148	Swellingâ€induced changes in coal microstructure due to supercritical CO₂ injection. Geophysical Research Letters, 2016, 43, 9077-9083.	4.0	111
149	Compaction of quartz-kaolinite mixtures: The influence of the pore fluid composition on the development of their microstructure and elastic anisotropy. Marine and Petroleum Geology, 2016, 78, 426-438.	3.3	23
150	Impact of fines and rock wettability on reservoir formation damage. Geophysical Prospecting, 2016, 64, 860-874.	1.9	28
151	Laboratory measurements of the effect of fluid saturation on elastic properties of carbonates at seismic frequencies. Geophysical Prospecting, 2016, 64, 799-809.	1.9	39
152	Dependence of quartz wettability on fluid density. Geophysical Research Letters, 2016, 43, 3771-3776.	4.0	88
153	Multi-scale x-ray computed tomography analysis of coal microstructure and permeability changes as a function of effective stress. International Journal of Coal Geology, 2016, 165, 149-156.	5.0	130
154	Solid/CO 2 and solid/water interfacial tensions as a function of pressure, temperature, salinity and mineral type: Implications for CO 2 -wettability and CO 2 geo-storage. International Journal of Greenhouse Gas Control, 2016, 53, 263-273.	4.6	103
155	CO2 Wettability of Shales and Coals as a Function of Pressure, Temperature and Rank: Implications for CO2 Sequestration and Enhanced Methane Recovery. , 2016, , .		9
156	Validation of the laboratory measurements at seismic frequencies using the Kramersâ€Kronig relationship. Geophysical Research Letters, 2016, 43, 4986-4991.	4.0	40
157	Change in Geomechanical Properties of Limestone Due to Supercritical CO2 Injection. , 2016, , .		11
158	Elastic anisotropy of the Wellington shale at seismic frequencies: Laboratory measurements. , 2016, , .		2
159	Swelling effect on coal micro structure and associated permeability reduction. Fuel, 2016, 182, 568-576.	6.4	97
160	Influence of Wettability on Residual Gas Trapping and Enhanced Oil Recovery in Three-Phase Flow: A Pore-Scale Analysis by Use of Microcomputed Tomography. SPE Journal, 2016, 21, 1916-1929.	3.1	52
161	CO2-wettability of low to high rank coal seams: Implications for carbon sequestration and enhanced methane recovery. Fuel, 2016, 181, 680-689.	6.4	89
162	Structural trapping capacity of oil-wet caprock as a function of pressure, temperature and salinity. International Journal of Greenhouse Gas Control, 2016, 50, 112-120.	4.6	84

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163	Geo-Mechanical Weakening of Limestone Due to Supercritical CO2 Injection. , 2016, , .		15
164	Velocityâ€saturation relation in partially saturated rocks: Modelling the effect of injection rate changes. Geophysical Prospecting, 2016, 64, 1054-1066.	1.9	8
165	Residual trapping of supercritical CO2 in oil-wet sandstone. Journal of Colloid and Interface Science, 2016, 469, 63-68.	9.4	124
166	Effect of asperities on stress dependency of elastic properties of cracked rocks. International Journal of Engineering Science, 2016, 98, 116-125.	5.0	21
167	Receding and advancing (CO 2 + brine + quartz) contact angles as a function of pressure, temperature, surface roughness, salt type and salinity. Journal of Chemical Thermodynamics, 2016, 93, 416-423.	2.0	174
168	Wettability alteration of oil-wet carbonate by silica nanofluid. Journal of Colloid and Interface Science, 2016, 461, 435-442.	9.4	332
169	Impact of pressure and temperature on CO 2 â€“brineâ€“mica contact angles and CO 2 â€“brine interfacial tension: Implications for carbon geo-sequestration. Journal of Colloid and Interface Science, 2016, 462, 208-215.	9.4	190
170	Coal microstructure changes due to water absorption and CO2 injection. APPEA Journal, 2016, 56, 593.	0.2	8
171	Generalized squirt theory for an arbitrary viscoelastic pore fill and partial saturation. , 2016, , .		0
172	Stress-dependence of elastic properties of rock containing finite cracks with contacting surfaces. , 2015, , .		1
173	A laboratory study of attenuation and dispersion effects in glycerol-saturated Berea sandstone at seismic frequencies. , 2015, , .		17
174	CO₂ wettability of caprocks: Implications for structural storage capacity and containment security. Geophysical Research Letters, 2015, 42, 9279-9284.	4.0	192
175	Joint inversion of P-, and S-wave travel times for characterisation of anisotropic materials using laser Doppler interferometry measurements. ASEG Extended Abstracts, 2015, 2015, 1-4.	0.1	1
176	Feasibility of CO₂ plume detection using 4D seismic: CO2CRC Otway Project case study â€” Part 1: Rock-physics modeling. Geophysics, 2015, 80, B95-B104.	2.6	24
177	Changes in microstructure and mineralogy of organic-rich shales caused by heating. ASEG Extended Abstracts, 2015, 2015, 1-4.	0.1	3
178	Changes in elastic properties of artificial shales due to compaction. ASEG Extended Abstracts, 2015, 2015, 1-4.	0.1	0
179	Heterogeneities in the elastic properties of microporous carbonate rocks at the microscale from nanoindentation tests. , 2015, , .		6
180	N2+CO2+NaCl brine interfacial tensions and contact angles on quartz at CO2 storage site conditions in the Gippsland basin, Victoria/Australia. Journal of Petroleum Science and Engineering, 2015, 129, 58-62.	4.2	60

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181	Acoustics of Partially Saturated Rocks: Theory and Experiments. , 2015, , 45-75.		1
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