

# Maxim Lebedev

## List of Publications by Year in descending order

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270  
papers

8,968  
citations

34016

52  
h-index

53109

85  
g-index

279  
all docs

279  
docs citations

279  
times ranked

3808  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic wave attenuation and dispersion resulting from wave-induced flow in porous rocks " A review. <i>Geophysics</i> , 2010, 75, 75A147-75A164.	1.4	704
2	Wettability alteration of oil-wet carbonate by silica nanofluid. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 435-442.	5.0	332
3	Microstructure and Electrical Properties of Lead Zirconate Titanate (Pb(Zr <sub>52</sub> /Ti <sub>48</sub> )O <sub>3</sub> ) Thick Films Deposited by Aerosol Deposition Method. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 5397-5401.	0.8	313
4	Piezoelectric properties and poling effect of Pb(Zr, $\check{S}$ Ti)O <sub>3</sub> thick films prepared for microactuators by aerosol deposition. <i>Applied Physics Letters</i> , 2000, 77, 1710-1712.	1.5	208
5	CO <sub>2</sub> wettability of caprocks: Implications for structural storage capacity and containment security. <i>Geophysical Research Letters</i> , 2015, 42, 9279-9284.	1.5	192
6	Impact of pressure and temperature on CO <sub>2</sub> "brine" mica contact angles and CO <sub>2</sub> "brine" interfacial tension: Implications for carbon geo-sequestration. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 208-215.	5.0	190
7	Receding and advancing (CO <sub>2</sub> + brine + quartz) contact angles as a function of pressure, temperature, surface roughness, salt type and salinity. <i>Journal of Chemical Thermodynamics</i> , 2016, 93, 416-423.	1.0	174
8	Wettability of rock/CO <sub>2</sub> /brine and rock/oil/CO <sub>2</sub> -enriched-brine systems:Critical parametric analysis and future outlook. <i>Advances in Colloid and Interface Science</i> , 2019, 268, 91-113.	7.0	138
9	Multi-scale x-ray computed tomography analysis of coal microstructure and permeability changes as a function of effective stress. <i>International Journal of Coal Geology</i> , 2016, 165, 149-156.	1.9	130
10	Residual trapping of supercritical CO <sub>2</sub> in oil-wet sandstone. <i>Journal of Colloid and Interface Science</i> , 2016, 469, 63-68.	5.0	124
11	Influence of Carrier Gas Conditions on Electrical and Optical Properties of Pb(Zr, Ti)O <sub>3</sub> Thin Films Prepared by Aerosol Deposition Method. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 5528-5532.	0.8	116
12	Wettability of nanofluid-modified oil-wet calcite at reservoir conditions. <i>Fuel</i> , 2018, 211, 405-414.	3.4	116
13	Effect of temperature and SiO <sub>2</sub> nanoparticle size on wettability alteration of oil-wet calcite. <i>Fuel</i> , 2017, 206, 34-42.	3.4	115
14	Swelling-induced changes in coal microstructure due to supercritical CO <sub>2</sub> injection. <i>Geophysical Research Letters</i> , 2016, 43, 9077-9083.	1.5	111
15	CO <sub>2</sub> storage in carbonates: Wettability of calcite. <i>International Journal of Greenhouse Gas Control</i> , 2017, 62, 113-121.	2.3	108
16	Carbon geosequestration in limestone: Pore-scale dissolution and geomechanical weakening. <i>International Journal of Greenhouse Gas Control</i> , 2017, 66, 106-119.	2.3	108
17	Influence of shale"total organic content on CO <sub>2</sub> geo"storage potential. <i>Geophysical Research Letters</i> , 2017, 44, 8769-8775.	1.5	107
18	Wettability alteration of oil-wet limestone using surfactant-nanoparticle formulation. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 334-345.	5.0	106

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19	Solid/CO <sub>2</sub> and solid/water interfacial tensions as a function of pressure, temperature, salinity and mineral type: Implications for CO <sub>2</sub> -wettability and CO <sub>2</sub> geo-storage. <i>International Journal of Greenhouse Gas Control</i> , 2016, 53, 263-273.	2.3	103
20	Pore-scale analysis of coal cleat network evolution through liquid nitrogen treatment: A Micro-Computed Tomography investigation. <i>International Journal of Coal Geology</i> , 2020, 219, 103370.	1.9	99
21	Swelling effect on coal micro structure and associated permeability reduction. <i>Fuel</i> , 2016, 182, 568-576.	3.4	97
22	Powder Preparation in Aerosol Deposition Method for Lead Zirconate Titanate Thick Films. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 6980-6984.	0.8	91
23	Organic acid concentration thresholds for ageing of carbonate minerals: Implications for CO <sub>2</sub> trapping/storage. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 88-94.	5.0	91
24	CO <sub>2</sub> -wettability of low to high rank coal seams: Implications for carbon sequestration and enhanced methane recovery. <i>Fuel</i> , 2016, 181, 680-689.	3.4	89
25	Wettability Alteration of Quartz Surface by Low-Salinity Surfactant Nanofluids at High-Pressure and High-Temperature Conditions. <i>Energy &amp; Fuels</i> , 2019, 33, 7062-7068.	2.5	89
26	Dependence of quartz wettability on fluid density. <i>Geophysical Research Letters</i> , 2016, 43, 3771-3776.	1.5	88
27	Stabilising nanofluids in saline environments. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 222-229.	5.0	88
28	CO <sub>2</sub> -wettability of sandstones exposed to traces of organic acids: Implications for CO <sub>2</sub> geo-storage. <i>International Journal of Greenhouse Gas Control</i> , 2019, 83, 61-68.	2.3	88
29	Nanoscale rock mechanical property changes in heterogeneous coal after water adsorption. <i>Fuel</i> , 2018, 218, 23-32.	3.4	85
30	Structural trapping capacity of oil-wet caprock as a function of pressure, temperature and salinity. <i>International Journal of Greenhouse Gas Control</i> , 2016, 50, 112-120.	2.3	84
31	Direct laboratory observation of patchy saturation and its effects on ultrasonic velocities. <i>The Leading Edge</i> , 2009, 28, 24-27.	0.4	83
32	Pore-scale analysis of formation damage in Bentheimer sandstone with in-situ NMR and micro-computed tomography experiments. <i>Journal of Petroleum Science and Engineering</i> , 2015, 129, 48-57.	2.1	79
33	Experimental determination of hydrate phase equilibrium for different gas mixtures containing methane, carbon dioxide and nitrogen with motor current measurements. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 38, 59-73.	2.1	79
34	Pore scale investigation of low salinity surfactant nanofluid injection into oil saturated sandstone via X-ray micro-tomography. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 370-380.	5.0	78
35	Nanoparticles influence on wetting behaviour of fractured limestone formation. <i>Journal of Petroleum Science and Engineering</i> , 2017, 149, 782-788.	2.1	77
36	Micro-scale fracturing mechanisms in coal induced by adsorption of supercritical CO <sub>2</sub> . <i>International Journal of Coal Geology</i> , 2017, 175, 40-50.	1.9	76

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37	A new method for TOC estimation in tight shale gas reservoirs. <i>International Journal of Coal Geology</i> , 2017, 179, 269-277.	1.9	76
38	Shale Wettability: Data Sets, Challenges, and Outlook. <i>Energy &amp; Fuels</i> , 2021, 35, 2965-2980.	2.5	76
39	Actuation Properties of Lead Zirconate Titanate Thick Films Structured on Si Membrane by the Aerosol Deposition Method. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 5600-5603.	0.8	72
40	X-ray tomography imaging of shale microstructures: A review in the context of multiscale correlative imaging. <i>International Journal of Coal Geology</i> , 2021, 233, 103641.	1.9	69
41	Simple self-selective method of velocity measurement for particles in impact-based deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000, 18, 563-566.	0.9	67
42	Effect of CT image size and resolution on the accuracy of rock property estimates. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3635-3647.	1.4	65
43	Effects of annealing and poling conditions on piezoelectric properties of Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> thick films formed by aerosol deposition method. <i>Journal of Crystal Growth</i> , 2002, 235, 415-420.	0.7	63
44	Influence of surface chemistry on interfacial properties of low to high rank coal seams. <i>Fuel</i> , 2017, 194, 211-221.	3.4	63
45	Effect of humic acid on CO <sub>2</sub> -wettability in sandstone formation. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 315-325.	5.0	63
46	Carbon Dioxide/Brine, Nitrogen/Brine, and Oil/Brine Wettability of Montmorillonite, Illite, and Kaolinite at Elevated Pressure and Temperature. <i>Energy &amp; Fuels</i> , 2019, 33, 441-448.	2.5	61
47	High-Speed Optical Microscanner Driven with Resonance of Lam Waves Using Pb(Zr,Ti)O <sub>3</sub> Thick Films Formed by Aerosol Deposition. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 7072-7077.	0.8	60
48	N <sub>2</sub> +CO <sub>2</sub> +NaCl brine interfacial tensions and contact angles on quartz at CO <sub>2</sub> storage site conditions in the Gippsland basin, Victoria/Australia. <i>Journal of Petroleum Science and Engineering</i> , 2015, 129, 58-62.	2.1	60
49	A laboratory study of low-frequency wave dispersion and attenuation in water-saturated sandstones. <i>The Leading Edge</i> , 2014, 33, 616-622.	0.4	58
50	Permeability Evolution in Sandstone Due to CO <sub>2</sub> Injection. <i>Energy &amp; Fuels</i> , 2017, 31, 12390-12398.	2.5	55
51	Residual Trapping of CO <sub>2</sub> in an Oil-Filled, Oil-Wet Sandstone Core: Results of Three-Phase Pore-Scale Imaging. <i>Geophysical Research Letters</i> , 2019, 46, 11146-11154.	1.5	53
52	Influence of Wettability on Residual Gas Trapping and Enhanced Oil Recovery in Three-Phase Flow: A Pore-Scale Analysis by Use of Microcomputed Tomography. <i>SPE Journal</i> , 2016, 21, 1916-1929.	1.7	52
53	Effect of the Temperature on CO <sub>2</sub> /Brine/Dolomite Wettability: Hydrophilic versus Hydrophobic Surfaces. <i>Energy &amp; Fuels</i> , 2017, 31, 6329-6333.	2.5	52
54	High pressure-elevated temperature x-ray micro-computed tomography for subsurface applications. <i>Advances in Colloid and Interface Science</i> , 2018, 256, 393-410.	7.0	52

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55	Pore scale investigation of hydrogen injection in sandstone via X-ray micro-tomography. International Journal of Hydrogen Energy, 2021, 46, 34822-34829.	3.8	52
56	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.	2.1	52
57	Wettability of nano-treated calcite/CO <sub>2</sub> /brine systems: Implication for enhanced CO <sub>2</sub> storage potential. International Journal of Greenhouse Gas Control, 2017, 66, 97-105.	2.3	50
58	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.	5.0	49
59	Simulation and experimental measurements of internal magnetic field gradients and NMR transverse relaxation times (T <sub>2</sub> ) in sandstone rocks. Journal of Petroleum Science and Engineering, 2019, 175, 985-997.	2.1	49
60	Experimental investigation of carbonate wettability as a function of mineralogical and thermo-physical conditions. Fuel, 2020, 264, 116846.	3.4	49
61	Analysis of high-resolution X-ray computed tomography images of Bentheim sandstone under elevated confining pressures. Geophysical Prospecting, 2016, 64, 848-859.	1.0	48
62	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.	2.3	48
63	Quantifying the effect of capillarity on attenuation and dispersion in patchy-saturated rocks. Geophysics, 2014, 79, WB35-WB50.	1.4	47
64	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.	2.3	47
65	Hydrogen storage potential of coals as a function of pressure, temperature, and rank. Journal of Colloid and Interface Science, 2022, 620, 86-93.	5.0	47
66	A novel hybrid method for gas hydrate filling modes identification via digital rock. Marine and Petroleum Geology, 2020, 115, 104255.	1.5	46
67	An experimental study of solid matrix weakening in water-saturated Savonnières limestone. Geophysical Prospecting, 2014, 62, 1253-1265.	1.0	45
68	Magnetic properties of Sm-Fe-N thick film magnets prepared by the aerosol deposition method. IEEE Transactions on Magnetics, 2003, 39, 2986-2988.	1.2	44
69	Computational elastic up-scaling of sandstone on the basis of X-ray micro-tomographic images. Geophysical Prospecting, 2013, 61, 287-301.	1.0	44
70	Microstructural Effects on Mechanical Properties of Shaly Sandstone. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	43
71	In-situ X-ray micro-computed tomography imaging of the microstructural changes in water-bearing medium rank coal by supercritical CO <sub>2</sub> flooding. International Journal of Coal Geology, 2019, 203, 28-35.	1.9	43
72	Characterization of nanoscale rockmechanical properties and microstructures of a Chinese sub-bituminous coal. Journal of Natural Gas Science and Engineering, 2018, 52, 106-116.	2.1	42

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73	Experimental estimation of velocities and anisotropy of a series of Swedish crystalline rocks and ores. <i>Geophysical Prospecting</i> , 2013, 61, 153-167.	1.0	41
74	An experimental study of acoustic responses on the injection of supercritical CO <sub>2</sub> into sandstones from the Otway Basin. <i>Geophysics</i> , 2013, 78, D293-D306.	1.4	40
75	Validation of the laboratory measurements at seismic frequencies using the Kramersâ€Kronig relationship. <i>Geophysical Research Letters</i> , 2016, 43, 4986-4991.	1.5	40
76	Nanoscale geomechanical properties of Western Australian coal. <i>Journal of Petroleum Science and Engineering</i> , 2018, 162, 736-746.	2.1	40
77	Laboratory measurements of the effect of fluid saturation on elastic properties of carbonates at seismic frequencies. <i>Geophysical Prospecting</i> , 2016, 64, 799-809.	1.0	39
78	CO <sub>2</sub> geo-storage capacity enhancement via nanofluid priming. <i>International Journal of Greenhouse Gas Control</i> , 2017, 63, 20-25.	2.3	39
79	Porosity estimation in kerogen-bearing shale gas reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 52, 575-581.	2.1	37
80	Substrate heating effects on hardness of an -Al <sub>2</sub> O <sub>3</sub> thick film formed by aerosol deposition method. <i>Journal of Crystal Growth</i> , 2005, 275, e1301-e1306.	0.7	36
81	Compressional wave velocity of hydrate-bearing bentheimer sediments with varying pore fillings. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 23193-23200.	3.8	36
82	Geochemical controls on wettability alteration at pore-scale during low salinity water flooding in sandstone using X-ray micro computed tomography. <i>Fuel</i> , 2020, 271, 117675.	3.4	36
83	Micro-Cleat and Permeability Evolution of Anisotropic Coal During Directional CO <sub>2</sub> Flooding: An In Situ Micro-CT Study. <i>Natural Resources Research</i> , 2022, 31, 2805-2818.	2.2	36
84	Effect of Thickness on the Piezoelectric Properties of Lead Zirconate Titanate Films Fabricated by Aerosol Deposition Method. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 6669-6673.	0.8	35
85	Hydrogen Flooding of a Coal Core: Effect on Coal Swelling. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	35
86	Measurements of the elastic and anelastic properties of sandstone flooded with supercritical CO <sub>2</sub> . <i>Geophysical Prospecting</i> , 2014, 62, 1266-1277.	1.0	33
87	Wave-velocity dispersion and rock microstructure. <i>Journal of Petroleum Science and Engineering</i> , 2019, 183, 106466.	2.1	31
88	Influence of pore structural properties on gas hydrate saturation and permeability: A coupled pore-scale modelling and X-ray computed tomography method. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 88, 103805.	2.1	31
89	Cubic Aluminum Nitride Transformed Under Reduced Pressure Using Aerosol Deposition Method. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1067-1069.	1.9	30
90	Digital carbonate rock physics. <i>Solid Earth</i> , 2016, 7, 1185-1197.	1.2	30

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91	Fluid-rock interactions and its implications on EOR: Critical analysis, experimental techniques and knowledge gaps. Energy Reports, 2022, 8, 6355-6395.	2.5	30
92	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.	3.8	30
93	Permeability evolution in sandstone due to injection of CO <sub>2</sub> -saturated brine or supercritical CO <sub>2</sub> at reservoir conditions. Energy Procedia, 2014, 63, 3051-3059.	1.8	29
94	Sorption-induced Deformation and Elastic Weakening of Bentheim Sandstone. Journal of Geophysical Research: Solid Earth, 2018, 123, 8589-8601.	1.4	29
95	Forced imbibition into a limestone: measuring P-wave velocity and water saturation dependence on injection rate. Geophysical Prospecting, 2014, 62, 1126-1142.	1.0	28
96	Impact of fines and rock wettability on reservoir formation damage. Geophysical Prospecting, 2016, 64, 860-874.	1.0	28
97	Coal Wettability After CO <sub>2</sub> Injection. Energy & Fuels, 2017, 31, 12376-12382.	2.5	27
98	Interaction of low salinity surfactant nanofluids with carbonate surfaces and molecular level dynamics at fluid-fluid interface at ScCO <sub>2</sub> loading. Journal of Colloid and Interface Science, 2021, 586, 315-325.	5.0	27
99	Neutron scattering: A subsurface application review. Earth-Science Reviews, 2021, 221, 103755.	4.0	26
100	Coal fracturing through liquid nitrogen treatment: a micro-computed tomography study. APPEA Journal, 2020, 60, 67.	0.4	25
101	Feasibility of CO <sub>2</sub> plume detection using 4D seismic: CO <sub>2</sub> CRC Otway Project case study "Part 1: Rock-physics modeling. Geophysics, 2015, 80, B95-B104.	1.4	24
102	Coal cleat network evolution through liquid nitrogen freeze-thaw cycling. Fuel, 2022, 314, 123069.	3.4	24
103	What Thickness of the Piezoelectric Layer with High Breakdown Voltage is Required for the Microactuator?. Japanese Journal of Applied Physics, 2002, 41, 3344-3347.	0.8	23
104	Title is missing!. Materia Japan, 2002, 41, 459-466.	0.1	23
105	Elastic anisotropy estimation from laboratory measurements of velocity and polarization of quasi-P-waves using laser interferometry. Geophysics, 2011, 76, WA83-WA89.	1.4	23
106	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.	1.5	23
107	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.	1.5	23
108	Residual Trapping of Supercritical CO <sub>2</sub> : Direct Pore-scale Observation Using a Low Cost Pressure Cell for Micro Computer Tomography. Energy Procedia, 2017, 114, 4967-4974.	1.8	22

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109	Coal fines migration: A holistic review of influencing factors. <i>Advances in Colloid and Interface Science</i> , 2022, 301, 102595.	7.0	22
110	Electro-Optical Properties of (Pb, La)(Zr, Ti)O <sub>3</sub> Films Prepared by Aerosol Deposition Method. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 5960-5962.	0.8	21
111	Theoretical and Experimental Investigation of Propagation of Guide Waves in Cylindrical Pipe Filled with Fluid. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 4573-4576.	0.8	21
112	Optically transparent, dense $\alpha$ -Al <sub>2</sub> O <sub>3</sub> thick films deposited on glass at room temperature. <i>Current Applied Physics</i> , 2008, 8, 233-236.	1.1	21
113	Effect of asperities on stress dependency of elastic properties of cracked rocks. <i>International Journal of Engineering Science</i> , 2016, 98, 116-125.	2.7	21
114	Morphological evaluation of heterogeneous oolitic limestone under pressure and fluid flow using X-ray microtomography. <i>Journal of Applied Geophysics</i> , 2018, 150, 172-181.	0.9	21
115	Carbonate rock mechanical response to CO <sub>2</sub> flooding evaluated by a combined X-ray computed tomography and DEM method. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 84, 103675.	2.1	21
116	NiZnCu Ferrite Thick Film with Nano Scale Crystallites Formed by the Aerosol Deposition Method. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1621-1624.	1.9	20
117	Influence of Miscible CO <sub>2</sub> Flooding on Wettability and Asphaltene Precipitation in Indiana Lime Stone. , 2017, , .		20
118	Aerosol Deposition Method for Preparation of Lead Zirconate Titanate Thick Layer at Low Temperature and Improvement of Electrical Properties by Irradiation of Fast Atom Beam and Plasma. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 5931-5935.	0.8	19
119	A Laboratory Study of the Elastic and Anelastic Properties of the Sandstone Flooded with Supercritical CO <sub>2</sub> at Seismic Frequencies. <i>Energy Procedia</i> , 2014, 63, 4289-4296.	1.8	19
120	Influence of gas hydrate saturation and pore habits on gas relative permeability in gas hydrate-bearing sediments: Theory, experiment and case study. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 95, 104171.	2.1	19
121	Effect of supercritical CO <sub>2</sub> on carbonates: Savonnières sample case study. <i>Geophysical Prospecting</i> , 2017, 65, 251-265.	1.0	18
122	Water retention effects on elastic properties of Opalinus shale. <i>Geophysical Prospecting</i> , 2019, 67, 984-996.	1.0	18
123	A laboratory study of attenuation and dispersion effects in glycerol-saturated Berea sandstone at seismic frequencies. , 2015, , .		17
124	Impact of Solid Surface Energy on Wettability of CO <sub>2</sub> -brine-Mineral Systems as a Function of Pressure, Temperature and Salinity. <i>Energy Procedia</i> , 2017, 114, 4832-4842.	1.8	17
125	Wettability Alteration of Carbonate Rocks via Nanoparticle-Anionic Surfactant Flooding at Reservoirs Conditions. , 2017, , .		17
126	Ultrasonic velocity measurements on thin rock samples: Experiment and numerical modeling. <i>Geophysics</i> , 2018, 83, MR47-MR56.	1.4	17



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127	Nano-mechanical Properties and Pore-Scale Characterization of Different Rank Coals. <i>Natural Resources Research</i> , 2020, 29, 1787-1800.	2.2	17
128	Low Salinity Surfactant Nanofluids For Enhanced CO2 Storage Application At High Pressure And Temperature. , 2018, , .		16
129	Geo-Mechanical Weakening of Limestone Due to Supercritical CO2 Injection. , 2016, , .		15
130	A low-frequency laboratory apparatus for measuring elastic and anelastic properties of rocks. , 2011, , .		14
131	Compaction trends of full stiffness tensor and fluid permeability in artificial shales. <i>Geophysical Journal International</i> , 2018, 212, 1687-1693.	1.0	14
132	Simulating Coal Permeability Change as a Function of Effective Stress Using a Microscale Digital Rock Model. <i>Energy &amp; Fuels</i> , 2021, 35, 8756-8762.	2.5	14
133	Patterning Properties of PZT Thick Films Made by Aerosol Deposition. <i>Ferroelectrics</i> , 2002, 270, 117-122.	0.3	13
134	Theoretical Investigation of Guide Wave Flowmeter. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 4521.	0.8	12
135	Research note: Laboratory study of the influence of changing the injection rate on the geometry of the fluid front and on P-wave ultrasonic velocities in sandstone. <i>Geophysical Prospecting</i> , 2012, 60, 572-580.	1.0	12
136	Seismic dispersion and attenuation in Mancos shale " laboratory measurements. <i>Geophysical Prospecting</i> , 2021, 69, 568-585.	1.0	12
137	The rock mechanical properties of lacustrine shales: Argillaceous shales versus silty laminae shales. <i>Marine and Petroleum Geology</i> , 2022, 141, 105707.	1.5	12
138	Aerosol Deposition Method (Adm) For Nano-Crystal Ceramics Coating Without Firing. <i>Materials Research Society Symposia Proceedings</i> , 2003, 778, 8101/W7.10.1.	0.1	11
139	Change in Geomechanical Properties of Limestone Due to Supercritical CO2 Injection. , 2016, , .		11
140	Magnetic properties and microstructures of the aerosol-deposited permanent magnet films. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1881-E1882.	1.0	10
141	Influence of Rock Microstructure on its Electrical Properties: An Analysis Using X-ray Microcomputed Tomography. <i>Energy Procedia</i> , 2017, 114, 5023-5031.	1.8	10
142	Research note: the effect of strain amplitude produced by ultrasonic waves on its velocity. <i>Geophysical Prospecting</i> , 2019, 67, 715-722.	1.0	10
143	CO 2 "Saturated Brine Injection Into Unconsolidated Sandstone: Implications for Carbon Geosequestration. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 10823-10838.	1.4	10
144	Electrical formation factor of clean sand from laboratory measurements and digital rock physics. <i>Solid Earth</i> , 2019, 10, 1505-1517.	1.2	10

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145	Experimental study of temperature change effect on distributed acoustic sensing continuous measurements. <i>Geophysics</i> , 2022, 87, D111-D122.	1.4	10
146	Growth rate, microstructure and conformality as a function of vapor exposure for zirconia thin films by pulsed-pressure MOCVD. <i>Surface and Coatings Technology</i> , 2007, 201, 8908-8913.	2.2	9
147	Acoustic Response of Reservoir Sandstones during Injection of Supercritical CO <sub>2</sub> . <i>Energy Procedia</i> , 2014, 63, 4281-4288.	1.8	9
148	CO <sub>2</sub> Wettability of Shales and Coals as a Function of Pressure, Temperature and Rank: Implications for CO <sub>2</sub> Sequestration and Enhanced Methane Recovery. , 2016, , .		9
149	A triple porosity scheme for fluid/solid substitution: theory and experiment. <i>Geophysical Prospecting</i> , 2019, 67, 888-899.	1.0	9
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