Andrew Aplin

List of Publications by Year
in descending order

74 papers	5,091 citations	117625 34 h-index	91884 69 g-index
80 all docs	80 docs citations	80 times ranked	3603 citing authors

#	Article	IF	Citations
1	Geomechanical characterisation of organic-rich calcareous shale using AFM and nanoindentation. Rock Mechanics and Rock Engineering, 2021, 54, 303-320.	5.4	40
2	Effect of Diagenesis on Geomechanical Properties of Organicâ€Rich Calcareous Shale: A Multiscale Investigation. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021365.	3.4	16
3	Microstructure and pore systems of shallow-buried fluvial mudstone caprocks in Zhanhua depression, east China inferred from SEM and MICP. Marine and Petroleum Geology, 2021, 132, 105189.	3.3	3
4	Assessment of the elastic response of shale using multiscale mechanical testing and homogenisation. E3S Web of Conferences, 2020, 205, 04013.	0.5	0
5	Sedimentation of the Kimmeridge Clay Formation in the Cleveland Basin (Yorkshire, UK). Minerals (Basel, Switzerland), 2020, 10, 977.	2.0	3
6	Vertical effective stress and temperature as controls of quartz cementation in sandstones: Evidence from North Sea Fulmar and Gulf of Mexico Wilcox sandstones. Marine and Petroleum Geology, 2020, 115, 104289.	3.3	8
7	Supercritical methane adsorption and storage in pores in shales and isolated kerogens. SN Applied Sciences, 2020, 2, 1.	2.9	21
8	Dynamic climate-driven controls on the deposition of the Kimmeridge Clay Formation in the Cleveland Basin, Yorkshire, UK. Climate of the Past, 2019, 15, 1581-1601.	3.4	9
9	A Diagenesis Model for Geomechanical Simulations: Formulation and Implications for Pore Pressure and Development of Geological Structures. Journal of Geophysical Research: Solid Earth, 2019, 124, 4452-4472.	3.4	17
10	Local to global controls on the deposition of organic-rich muds across the Late Jurassic Laurasian Seaway. Journal of the Geological Society, 2019, 176, 1143-1153.	2.1	7
11	Influence of Clay, Calcareous Microfossils, and Organic Matter on the Nature and Diagenetic Evolution of Pore Systems in Mudstones. Journal of Geophysical Research: Solid Earth, 2019, 124, 149-174.	3.4	21
12	Running INTERFERONce on immunotherapy. Pigment Cell and Melanoma Research, 2018, 31, 352-353.	3.3	0
13	Oxygen Isotope Microanalysis By Secondary Ion Mass Spectrometry Suggests Continuous 300-million-year History of Calcite Cementation and Dolomitization in the Devonian Bakken Formation. Journal of Sedimentary Research, 2018, 88, 91-104.	1.6	12
14	Vertical effective stress as a control on quartz cementation in sandstones. Marine and Petroleum Geology, 2018, 98, 640-652.	3.3	20
15	Numerical Simulation of Fracking in Shale Rocks: Current State and Future Approaches. Archives of Computational Methods in Engineering, 2017, 24, 281-317.	10.2	35
16	Hydromechanical Modeling of Stress, Pore Pressure, and Porosity Evolution in Foldâ€andâ€Thrust Belt Systems. Journal of Geophysical Research: Solid Earth, 2017, 122, 9383-9403.	3.4	24
17	Assessing the implications of tectonic compaction on pore pressure using a coupled geomechanical approach. Marine and Petroleum Geology, 2017, 79, 31-43.	3.3	35
18	Late diagenesis of illite-smectite in the Podhale Basin, southern Poland: Chemistry, morphology, and preferred orientation. , 2017, 13, 2137-2153.		6

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19	Geochemical and lithological controls on a potential shale reservoir: Carboniferous Holywell Shale, Wales. Marine and Petroleum Geology, 2016, 71, 198-210.	3.3	29
20	Stress and pore pressure histories in complex tectonic settings predicted with coupled geomechanical-fluid flow models. Marine and Petroleum Geology, 2016, 76, 464-477.	3.3	20
21	Evolution of porosity and pore types in organic-rich, calcareous, Lower Toarcian Posidonia Shale. Marine and Petroleum Geology, 2016, 75, 117-139.	3.3	104
22	Numerical evaluation of mean-field homogenisation methods for predicting shale elastic response. Computational Geosciences, 2016, 20, 1109-1122.	2.4	28
23	The impact of carbonate texture on the quantification of total porosity by image analysis. Computers and Geosciences, 2015, 85, 112-125.	4.2	30
24	First international inter-laboratory comparison of high-pressure CH 4 , CO 2 and C 2 H 6 sorption isotherms on carbonaceous shales. International Journal of Coal Geology, 2014, 132, 131-146.	5.0	132
25	High-Pressure Methane Adsorption and Characterization of Pores in Posidonia Shales and Isolated Kerogens. Energy & Fuels, 2014, 28, 2886-2901.	5.1	340
26	Quartz Cementation History of Sandstones Revealed By High-Resolution Sims Oxygen Isotope Analysis. Journal of Sedimentary Research, 2013, 83, 522-530.	1.6	45
27	Methane Adsorption on Shale under Simulated Geological Temperature and Pressure Conditions. Energy & Fuels, 2013, 27, 3099-3109.	5.1	399
28	Mercia Mudstone Formation caprock to carbon capture and storage sites: petrology and petrophysical characteristics. Journal of the Geological Society, 2013, 170, 119-132.	2.1	44
29	FIB-SEM and TEM Investigations of an Organic-rich Shale Maturation Series from the Lower Toarcian Posidonia Shale, Germany<subtitle>Nanoscale Pore System and Fluid-rock Interactions</subtitle>. , 2013, , .		25
30	Occurrence and behaviour of dissolved, nano-particulate and micro-particulate iron in waste waters and treatment systems: New insights from electrochemical analysis. Journal of Environmental Monitoring, 2012, 14, 1174.	2.1	3
31	Single- and two-phase fluid flow properties of cataclastic fault rocks in porous sandstone. Marine and Petroleum Geology, 2012, 29, 129-142.	3.3	28
32	The fabric of consolidation in Gulf of Mexico mudstones. Marine Geology, 2012, 295-298, 77-85.	2.1	47
33	Geochemical and stable isotopic constraints on the generation and passive treatment of acidic, Feâ€“SO4 rich waters. Science of the Total Environment, 2012, 420, 238-249.	8.0	12
34	Experimental measurement of, and controls on, permeability and permeability anisotropy of caprocks from the CO₂storage project at the Krechba Field, Algeria. Journal of Geophysical Research, 2011, 116, .	3.3	105
35	Mudstone diversity: Origin and implications for source, seal, and reservoir properties in petroleum systems. AAPG Bulletin, 2011, 95, 2031-2059.	1.5	345
36	Discussion in response to Knut BjÃ¸rlykke regarding JMPG_1376 "Open-System Chemical Behavior In Deep Wilcox Group Mudstones, Texas Gulf Coast, USA". Marine and Petroleum Geology, 2011, 28, 1383-1384.	3.3	9

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37	Voltammetric methods for the speciation of dissolved iron and determination of Fe-containing nanoparticles in mine-water discharge. Analytical Methods, 2011, 3, 927.	2.7	14
38	Performance of a passive treatment system for net-acidic coal mine drainage over five years of operation. Science of the Total Environment, 2010, 408, 4877-4885.	8.0	21
39	Fabric anisotropy induced by primary depositional variations in the silt: clay ratio in two fine-grained slope fan complexes: Texas Gulf Coast and northern North Sea. Sedimentary Geology, 2010, 226, 42-53.	2.1	55
40	A permeabilityâ€“porosity relationship for mudstones. Marine and Petroleum Geology, 2010, 27, 1692-1697.	3.3	236
41	Open-system chemical behavior in deep Wilcox Group mudstones, Texas Gulf Coast, USA. Marine and Petroleum Geology, 2010, 27, 1804-1818.	3.3	88
42	Redox geochemistry in organic-rich sediments of a constructed wetland treating colliery spoil leachate. Applied Geochemistry, 2009, 24, 44-51.	3.0	9
43	Diagenetic Reorientation of Phyllosilicate Minerals in Paleogene Mudstones of the Podhale Basin, Southern Poland. Clays and Clay Minerals, 2008, 56, 100-111.	1.3	74
44	Seal bypass systems. AAPG Bulletin, 2007, 91, 1141-1166.	1.5	352
45	Definition of a fault permeability predictor from outcrop studies of a faulted turbidite sequence, Taranaki, New Zealand. Geological Society Special Publication, 2007, 292, 235-258.	1.3	50
46	Permeability and petrophysical properties of 30 natural mudstones. Journal of Geophysical Research, 2007, 112, .	3.3	221
47	Influence of mechanical compaction and clay mineral diagenesis on the microfabric and pore-scale properties of deep-water Gulf of Mexico mudstones. Clays and Clay Minerals, 2006, 54, 500-514.	1.3	196
48	Biodegradation, gas destruction and methane generation in deep subsurface petroleum reservoirs: an overview. Petroleum Geology Conference Proceedings, 2005, 6, 633-639.	0.7	43
49	Mathematical models of the distribution of geotracers during oil migration and accumulation. Petroleum Geoscience, 2005, 11, 67-78.	1.5	9
50	Fabric development and the smectite to illite transition in Upper Cretaceous mudstones from the North Sea: an image Analysis Approach. Geological Society Special Publication, 2005, 249, 103-114.	1.3	10
51	Changes in Type II Kerogen Density as a Function of Maturity:â€‰ Evidence from the Kimmeridge Clay Formation. Energy & Fuels, 2005, 19, 2495-2499.	5.1	210
52	Definition and practical application of mudstone porosityâ€“effective stress relationships. Petroleum Geoscience, 2004, 10, 153-162.	1.5	111
53	Quantitative assessment of mudstone lithology using geophysical wireline logs and artificial neural networks. Petroleum Geoscience, 2004, 10, 141-151.	1.5	26
54	Influence of mechanical compaction and chemical diagenesis on the microfabric and fluid flow properties of Gulf of Mexico mudstones. Journal of Geochemical Exploration, 2003, 78-79, 449-451.	3.2	23

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55	Determination of stable carbon (Î´13C) isotope systematics foralkylphenols and light aromatic hydrocarbons (BTEX) in petroleum formation waters and co-produced oils. Journal of Geochemical Exploration, 2003, 78-79, 465-467.	3.2	6
56	Role of colloids and fine particles in the transport of metals in rivers draining carbonate and silicate terrains. Limnology and Oceanography, 2001, 46, 331-344.	3.1	41
57	Confocal microscopy of fluid inclusions reveals fluid-pressure histories of sediments and an unexpected origin of gas condensate. Geology, 2000, 28, 1047.	4.4	13
58	Permeability and fluid flow in natural mudstones. Geological Society Special Publication, 1999, 158, 23-43.	1.3	89
59	Influence of clay fraction on pore-scale properties and hydraulic conductivity of experimentally compacted mudstones. Journal of Geophysical Research, 1999, 104, 29261-29274.	3.3	114
60	Some new developments for modelling the geological compaction of fine-grained sediments: introduction. Marine and Petroleum Geology, 1998, 15, 105-108.	3.3	7
61	Influence of lithology and compaction on the pore size distribution and modelled permeability of some mudstones from the Norwegian margin. Marine and Petroleum Geology, 1998, 15, 163-175.	3.3	154
62	Compaction-driven evolution of porosity and permeability in natural mudstones: An experimental study. Journal of Geophysical Research, 1998, 103, 651-661.	3.3	195
63	A method for the disaggregation of mudstones. Sedimentology, 1997, 44, 559-562.	3.1	19
64	Assessment of Î² the compression coefficient of mudstones and its relationship with detailed lithology. Marine and Petroleum Geology, 1995, 12, 955-963.	3.3	97
65	Reservoir geochemistry: methods, applications and opportunities. Geological Society Special Publication, 1995, 86, 5-32.	1.3	98
66	Sour gas and water chemistry of the Bridport Sands reservoir, Wytch Farm, UK. Geological Society Special Publication, 1995, 86, 303-314.	1.3	12
67	Oxygen isotopic indications of the mechanisms of silica transport and quartz cementation in deeply buried sandstones. Geology, 1994, 22, 847.	4.4	20
68	A lamina-scale geochemical and sedimentological study of sediments from the Peru Margin (Site 680,) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.3	10
69	Geochemistry of inorganic and organic sulphur in organic-rich sediments from the Peru Margin. Geochimica Et Cosmochimica Acta, 1991, 55, 3581-3595.	3.9	129
70	143Nd/144Nd in Pacific ferromanganese encrustations and nodules. Earth and Planetary Science Letters, 1986, 81, 7-14.	4.4	44
71	Ferromanganese oxide deposits from the Central Pacific Ocean, I. Encrustations from the Line Islands Archipelago. Geochimica Et Cosmochimica Acta, 1985, 49, 427-436.	3.9	124
72	Ferromanganese oxide deposits from the Central Pacific Ocean, II. Nodules and associated sediments. Geochimica Et Cosmochimica Acta, 1985, 49, 437-451.	3.9	92

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73	Rare earth element geochemistry of Central Pacific ferromanganese encrustations. Earth and Planetary Science Letters, 1984, 71, 13-22.	4.4	54
74	Mineralogy of marine sediment systems. , 0, , 123-175.		1