

Andrew Aplin

List of Publications by Year in descending order

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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	Methane Adsorption on Shale under Simulated Geological Temperature and Pressure Conditions. <i>Energy & Fuels</i> , 2013, 27, 3099-3109.	5.1	399
2	Seal bypass systems. <i>AAPG Bulletin</i> , 2007, 91, 1141-1166.	1.5	352
3	Mudstone diversity: Origin and implications for source, seal, and reservoir properties in petroleum systems. <i>AAPG Bulletin</i> , 2011, 95, 2031-2059.	1.5	345
4	High-Pressure Methane Adsorption and Characterization of Pores in Posidonia Shales and Isolated Kerogens. <i>Energy & Fuels</i> , 2014, 28, 2886-2901.	5.1	340
5	A permeability-porosity relationship for mudstones. <i>Marine and Petroleum Geology</i> , 2010, 27, 1692-1697.	3.3	236
6	Permeability and petrophysical properties of 30 natural mudstones. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	221
7	Changes in Type II Kerogen Density as a Function of Maturity: Evidence from the Kimmeridge Clay Formation. <i>Energy & Fuels</i> , 2005, 19, 2495-2499.	5.1	210
8	Influence of mechanical compaction and clay mineral diagenesis on the microfabric and pore-scale properties of deep-water Gulf of Mexico mudstones. <i>Clays and Clay Minerals</i> , 2006, 54, 500-514.	1.3	196
9	Compaction-driven evolution of porosity and permeability in natural mudstones: An experimental study. <i>Journal of Geophysical Research</i> , 1998, 103, 651-661.	3.3	195
10	Influence of lithology and compaction on the pore size distribution and modelled permeability of some mudstones from the Norwegian margin. <i>Marine and Petroleum Geology</i> , 1998, 15, 163-175.	3.3	154
11	First international inter-laboratory comparison of high-pressure CH ₄ , CO ₂ and C ₂ H ₆ sorption isotherms on carbonaceous shales. <i>International Journal of Coal Geology</i> , 2014, 132, 131-146.	5.0	132
12	Geochemistry of inorganic and organic sulphur in organic-rich sediments from the Peru Margin. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 3581-3595.	3.9	129
13	Ferromanganese oxide deposits from the Central Pacific Ocean, I. Encrustations from the Line Islands Archipelago. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 427-436.	3.9	124
14	Influence of clay fraction on pore-scale properties and hydraulic conductivity of experimentally compacted mudstones. <i>Journal of Geophysical Research</i> , 1999, 104, 29261-29274.	3.3	114
15	Definition and practical application of mudstone porosity-effective stress relationships. <i>Petroleum Geoscience</i> , 2004, 10, 153-162.	1.5	111
16	Experimental measurement of, and controls on, permeability and permeability anisotropy of caprocks from the CO ₂ storage project at the Krechba Field, Algeria. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	105
17	Evolution of porosity and pore types in organic-rich, calcareous, Lower Toarcian Posidonia Shale. <i>Marine and Petroleum Geology</i> , 2016, 75, 117-139.	3.3	104
18	Reservoir geochemistry: methods, applications and opportunities. <i>Geological Society Special Publication</i> , 1995, 86, 5-32.	1.3	98

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19	Assessment of $\hat{\nu}^2$ the compression coefficient of mudstones and its relationship with detailed lithology. <i>Marine and Petroleum Geology</i> , 1995, 12, 955-963.	3.3	97
20	Ferromanganese oxide deposits from the Central Pacific Ocean, II. Nodules and associated sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 437-451.	3.9	92
21	Permeability and fluid flow in natural mudstones. <i>Geological Society Special Publication</i> , 1999, 158, 23-43.	1.3	89
22	Open-system chemical behavior in deep Wilcox Group mudstones, Texas Gulf Coast, USA. <i>Marine and Petroleum Geology</i> , 2010, 27, 1804-1818.	3.3	88
23	Diagenetic Reorientation of Phyllosilicate Minerals in Paleogene Mudstones of the Podhale Basin, Southern Poland. <i>Clays and Clay Minerals</i> , 2008, 56, 100-111.	1.3	74
24	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. <i>Sedimentary Geology</i> , 2010, 226, 42-53.	2.1	55
25	Rare earth element geochemistry of Central Pacific ferromanganese encrustations. <i>Earth and Planetary Science Letters</i> , 1984, 71, 13-22.	4.4	54
26	Definition of a fault permeability predictor from outcrop studies of a faulted turbidite sequence, Taranaki, New Zealand. <i>Geological Society Special Publication</i> , 2007, 292, 235-258.	1.3	50
27	The fabric of consolidation in Gulf of Mexico mudstones. <i>Marine Geology</i> , 2012, 295-298, 77-85.	2.1	47
28	Quartz Cementation History of Sandstones Revealed By High-Resolution Sims Oxygen Isotope Analysis. <i>Journal of Sedimentary Research</i> , 2013, 83, 522-530.	1.6	45
29	$^{143}\text{Nd}/^{144}\text{Nd}$ in Pacific ferromanganese encrustations and nodules. <i>Earth and Planetary Science Letters</i> , 1986, 81, 7-14.	4.4	44
30	Mercia Mudstone Formation caprock to carbon capture and storage sites: petrology and petrophysical characteristics. <i>Journal of the Geological Society</i> , 2013, 170, 119-132.	2.1	44
31	Biodegradation, gas destruction and methane generation in deep subsurface petroleum reservoirs: an overview. <i>Petroleum Geology Conference Proceedings</i> , 2005, 6, 633-639.	0.7	43
32	Role of colloids and fine particles in the transport of metals in rivers draining carbonate and silicate terrains. <i>Limnology and Oceanography</i> , 2001, 46, 331-344.	3.1	41
33	Geomechanical characterisation of organic-rich calcareous shale using AFM and nanoindentation. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 303-320.	5.4	40
34	Numerical Simulation of Fracking in Shale Rocks: Current State and Future Approaches. <i>Archives of Computational Methods in Engineering</i> , 2017, 24, 281-317.	10.2	35
35	Assessing the implications of tectonic compaction on pore pressure using a coupled geomechanical approach. <i>Marine and Petroleum Geology</i> , 2017, 79, 31-43.	3.3	35
36	The impact of carbonate texture on the quantification of total porosity by image analysis. <i>Computers and Geosciences</i> , 2015, 85, 112-125.	4.2	30

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37	Geochemical and lithological controls on a potential shale reservoir: Carboniferous Holywell Shale, Wales. <i>Marine and Petroleum Geology</i> , 2016, 71, 198-210.	3.3	29
38	Single- and two-phase fluid flow properties of cataclastic fault rocks in porous sandstone. <i>Marine and Petroleum Geology</i> , 2012, 29, 129-142.	3.3	28
39	Numerical evaluation of mean-field homogenisation methods for predicting shale elastic response. <i>Computational Geosciences</i> , 2016, 20, 1109-1122.	2.4	28
40	Quantitative assessment of mudstone lithology using geophysical wireline logs and artificial neural networks. <i>Petroleum Geoscience</i> , 2004, 10, 141-151.	1.5	26
41	FIB-SEM and TEM Investigations of an Organic-rich Shale Maturation Series from the Lower Toarcian Posidonia Shale, Germany_{title>>Nanoscale Pore System and Fluid-rock Interactions}, , 2013, , .		25
42	Hydromechanical Modeling of Stress, Pore Pressure, and Porosity Evolution in Fold&Thrust Belt Systems. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9383-9403.	3.4	24
43	Influence of mechanical compaction and chemical diagenesis on the microfabric and fluid flow properties of Gulf of Mexico mudstones. <i>Journal of Geochemical Exploration</i> , 2003, 78-79, 449-451.	3.2	23
44	Performance of a passive treatment system for net-acidic coal mine drainage over five years of operation. <i>Science of the Total Environment</i> , 2010, 408, 4877-4885.	8.0	21
45	Influence of Clay, Calcareous Microfossils, and Organic Matter on the Nature and Diagenetic Evolution of Pore Systems in Mudstones. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 149-174.	3.4	21
46	Supercritical methane adsorption and storage in pores in shales and isolated kerogens. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	21
47	Oxygen isotopic indications of the mechanisms of silica transport and quartz cementation in deeply buried sandstones. <i>Geology</i> , 1994, 22, 847.	4.4	20
48	Stress and pore pressure histories in complex tectonic settings predicted with coupled geomechanical-fluid flow models. <i>Marine and Petroleum Geology</i> , 2016, 76, 464-477.	3.3	20
49	Vertical effective stress as a control on quartz cementation in sandstones. <i>Marine and Petroleum Geology</i> , 2018, 98, 640-652.	3.3	20
50	A method for the disaggregation of mudstones. <i>Sedimentology</i> , 1997, 44, 559-562.	3.1	19
51	A Diagenesis Model for Geomechanical Simulations: Formulation and Implications for Pore Pressure and Development of Geological Structures. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4452-4472.	3.4	17
52	Effect of Diagenesis on Geomechanical Properties of Organic&Rich Calcareous Shale: A Multiscale Investigation. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021365.	3.4	16
53	Voltammetric methods for the speciation of dissolved iron and determination of Fe-containing nanoparticles in mine-water discharge. <i>Analytical Methods</i> , 2011, 3, 927.	2.7	14
54	Confocal microscopy of fluid inclusions reveals fluid-pressure histories of sediments and an unexpected origin of gas condensate. <i>Geology</i> , 2000, 28, 1047.	4.4	13

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55	Sour gas and water chemistry of the Bridport Sands reservoir, Wytch Farm, UK. Geological Society Special Publication, 1995, 86, 303-314.	1.3	12
56	Geochemical and stable isotopic constraints on the generation and passive treatment of acidic, Fe ²⁺ -SO ₄ rich waters. Science of the Total Environment, 2012, 420, 238-249.	8.0	12
57	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
58	A lamina-scale geochemical and sedimentological study of sediments from the Peru Margin (Site 680), Tj ETQq0 0 0 rrgBT /Overlock 10 T	1.3	10
59	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
60	Mathematical models of the distribution of geotracers during oil migration and accumulation. Petroleum Geoscience, 2005, 11, 67-78.	1.5	9
61	Redox geochemistry in organic-rich sediments of a constructed wetland treating colliery spoil leachate. Applied Geochemistry, 2009, 24, 44-51.	3.0	9
62	Discussion in response to Knut BjÅrlykke 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
63	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
64	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
65	Some new developments for modelling the geological compaction of fine-grained sediments: introduction. Marine and Petroleum Geology, 1998, 15, 105-108.	3.3	7
66	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
67	Determination of stable carbon (¹³ C) isotope systematics for alkylphenols 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
68	Late diagenesis of illite-smectite in the Podhale Basin, southern Poland: Chemistry, morphology, and preferred orientation. , 2017, 13, 2137-2153.		6
69	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
70	Sedimentation of the Kimmeridge Clay Formation in the Cleveland Basin (Yorkshire, UK). Minerals (Basel, Switzerland), 2020, 10, 977.	2.0	3
71	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
72	Mineralogy of marine sediment systems. , 0, , 123-175.		1

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73	Running INTERFERONce on immunotherapy. Pigment Cell and Melanoma Research, 2018, 31, 352-353.	3.3	0
74	Assessment of the elastic response of shale using multiscale mechanical testing and homogenisation. E3S Web of Conferences, 2020, 205, 04013.	0.5	0