PCraig Craig Smalley

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	H2S-producing reactions in deep carbonate gas reservoirs: Khuff Formation, Abu Dhabi. Chemical Geology, 1996, 133, 157-171.	3.3	310
2	The Influence of Rock Fabric and Mineralogy on Thermochemical Sulfate Reduction: Khuff Formation, Abu Dhabi. Journal of Sedimentary Research, 2000, 70, 1210-1221.	1.6	154
3	The effects of thermochemical sulfate reduction upon formation water salinity and oxygen isotopes in carbonate gas reservoirs. Geochimica Et Cosmochimica Acta, 1996, 60, 3925-3931.	3.9	137
4	Can oil emplacement prevent quartz cementation in sandstones?. Petroleum Geoscience, 1998, 4, 129-137.	1.5	125
5	Time-capsule concretions: Unlocking burial diagenetic processes in the Mancos Shale using carbonate clumped isotopes. Earth and Planetary Science Letters, 2014, 394, 30-37.	4.4	102
6	P?T conditions for the Arendal granulites, southern Norway: implications for the roles of P, T and CO2in deep crustal LILE-depletion. Journal of Metamorphic Geology, 1986, 4, 143-160.	3.4	69
7	Sulfur cycle in buried evaporites. Geology, 1997, 25, 643.	4.4	67
8	Evidence for reduced quartz-cementation rates in oil-filled sandstones. Geology, 2001, 29, 915.	4.4	66
9	Seawater Sr isotope variations through time: A procedure for constructing a reference curve to date and correlate marine sedimentary rocks. Geology, 1994, 22, 431.	4.4	62
10	Quartz Cement in the Fontainebleau Sandstone, Paris Basin, France: Crystallography and Implications for Mechanisms of Cement Growth. Journal of Sedimentary Research, 2006, 76, 244-256.	1.6	57
11	Reservoir Compartmentalization Assessed With Fluid Compositional Data. SPE Reservoir Engineering, 1994, 9, 175-180.	0.5	51
12	Rare earth, ThHfTa and large-ion lithophile element variations in metabasites from the Proterozoic amphibolite-granulite transition zone at Arendal, south Norway. Earth and Planetary Science Letters, 1983, 63, 446-458.	4.4	47
13	The laser microprobe and its application to the study of C and O isotopes in calcite and aragonite. Sedimentary Geology, 1989, 65, 211-221.	2.1	44
14	Early Identification of Reservoir Compartmentalization by Combining a Range of Conventional and Novel Data Types. SPE Formation Evaluation, 1996, 11, 163-169.	0.5	42
15	Part 4: Compositional variations of North Sea formation waters. Geological Society Memoir, 1994, 15, 119-208.	1.7	41
16	Spatial 87Sr/86Sr variations in formation water and calcite from the Ekofisk chalk oil field: implications for reservoir connectivity and fluid composition. Applied Geochemistry, 1992, 7, 341-350.	3.0	37
17	A U-Pb study of the Morkheia Complex and associated gneisses, southern Norway: Implications for disturbed Rb-Sr systems and for the temporal evolution of Mesoproterozoic magmatism in Laurentia. Geochimica Et Cosmochimica Acta, 1994, 58, 1899-1911.	3.9	37
18	Intracrystalline carbon and oxygen isotope variations in calcite revealed by laser microsampling. Geology, 1990, 18, 809.	4.4	30

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19	Sr isotopic evidence for discrete saline components in stratified ground waters from crystalline bedrock, Outokumpu, Finland. Geology, 1988, 16, 354.	4.4	29
20	The rate of pressure dissipation from abnormally pressured compartments. AAPG Bulletin, 2005, 89, 61-80.	1.5	29
21	87Sr/86Sr in waters from the Lincolnshire Limestone aquifer, England, and the potential of natural strontium isotopes as a tracer for a secondary recovery seawater injection process in oilfields. Applied Geochemistry, 1988, 3, 591-600.	3.0	28
22	Handling risk and uncertainty in petroleum exploration and asset management: An overview. AAPG Bulletin, 2008, 92, 1251-1261.	1.5	27
23	Strontium isotopes as indicators of the dissolving phase in a carbonate aquifer: implications for 14C dating of groundwater. Journal of Hydrology, 1994, 154, 301-321.	5.4	24
24	The Effect of Oil Saturation On the Mechanism of Compaction In Granular Materials: Higher Oil Saturations Lead To More Grain Fracturing and Less Pressure Solution. Journal of Sedimentary Research, 2012, 82, 571-584.	1.6	24
25	The strontium isotopic composition and origin of burial cements in the Lincolnshire Limestone (Bajocian) of central Lincolnshire, England. Sedimentology, 1987, 34, 795-806.	3.1	23
26	Carbon and oxygen isotopes in Pennsylvanian biogenic and abiogenic aragonite (Otero County, New) Tj ETQq	0 0 0 ₃ gBT /0	Dverlock 10 T
27	The relative importance of buffering and brine inputs in controlling the abundance of Na and Ca in sedimentary formation waters. Marine and Petroleum Geology, 2011, 28, 1242-1251.	3.3	19
28	The Longyearbyen CO 2 Lab: Fluid communication in reservoir and caprock. International Journal of Greenhouse Gas Control, 2017, 63, 59-76.	4.6	19
29	LASSIE (laser ablation sampler for stable isotope extraction) applied to carbonate minerals. Chemical Geology: Isotope Geoscience Section, 1992, 101, 43-52.	0.6	18
30	Rates of reservoir fluid mixing: implications for interpretation of fluid data. Geological Society Special Publication, 2004, 237, 99-113.	1.3	18
31	Reservoir compartmentalization: get it before it gets you. Geological Society Special Publication, 2010, 347, 25-41.	1.3	18
32	Rapid fluid-rock interaction in oilfield reservoirs. Geology, 2007, 35, 1143.	4.4	17
33	Subaerial exposure unconformities on the Vercors carbonate platform (SE France) and their sequence stratigraphic significance. Geological Society Special Publication, 1996, 104, 295-319.	1.3	16
34	Diagenesis of the Machard Field (British North Sea) chalk; evidence for decoupling of diagenesis in fractures and the host rock. Journal of Sedimentary Research, 1995, 65, 105-111.	1.6	13
35	Geochronology and paleothermometry of Neogene sediments from the VÃ,ring Plateau using Sr, C and O isotopes. Earth and Planetary Science Letters, 1986, 78, 368-378.	4.4	12
36	Reservoir Technical Limits: A Framework for Maximizing Recovery From Oil Fields. SPE Reservoir Evaluation and Engineering, 2009, 12, 610-629.	1.8	12

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37	Rb-Sr Systematics of a Gardar-Age Layered Alkaline Monzonite Suite in Southern Norway. Journal of Geology, 1988, 96, 17-29.	1.4	10
38	Compositional heterogeneities in oilfield formation waters: identifying them, using them. Geological Society Special Publication, 1995, 86, 59-69.	1.3	9
39	New Tools Target Oil-Quality Sweetspots in Viscous-Oil Accumulations. SPE Reservoir Engineering, 1997, 12, 157-162.	0.5	9
40	Predicting Vertical Flow Barriers Using Tracer Diffusion in Partially Saturated, Layered Porous Media. Transport in Porous Media, 2014, 105, 255-276.	2.6	8
41	Prediction of large-scale communication in the SmÃ,rbukk fields from strontium fingerprinting. Petroleum Geology Conference Proceedings, 1993, 4, 1421-1432.	0.7	6
42	The chemical composition of North Sea formation waters: a review of their heterogeneity and potential applications. Petroleum Geology Conference Proceedings, 1993, 4, 1347-1352.	0.7	6
43	North Sea formation waters: implications for diagenesis and production chemistry. Marine and Petroleum Geology, 1994, 11, 2-4.	3.3	6
44	RbSr dating of fluid migration in hydrocarbon source rocks. Chemical Geology: Isotope Geoscience Section, 1987, 65, 223-233.	0.6	5
45	REE, Th, Hf, Ta in Bamble gabbros (southern Norway) and their amphibolitized equivalents: implications for gabbro tectonic setting. Precambrian Research, 1991, 53, 233-242.	2.7	5
46	Appraisal of reservoir compartmentalization using fluid mixing time-scales: Horn Mountain Field, Gulf of Mexico. Petroleum Geoscience, 2012, 18, 305-314.	1.5	5
47	Resetting of Rbâ^'Sr whole-rock isochrons during Sveconorwegian low-grade events in the Gjerstad augen gneiss, Telemark, southern Norway. Chemical Geology, 1983, 41, 269-282.	3.3	3
48	Part 2: SPWLA Water Resistivity (R _w) Atlas. Geological Society Memoir, 1994, 15, 79-103.	1.7	2
49	Part 1: Compendium of North Sea Oil and gas fields. Geological Society Memoir, 1994, 15, 3-77.	1.7	2
50	A practical approach for applying Bayesian logic to determine the probabilities of subsurface scenarios: Example from an offshore oilfield. AAPG Bulletin, 2018, 102, 429-445.	1.5	2
51	Event-based risk management for subsurface risks: An approach to protect value generation from oil and gas fields. AAPG Bulletin, 2017, 101, 1473-1486.	1.5	1
52	Patterns of water 87Sr/86Sr variations in oil-, gas- and water-saturated rocks: Implications for fluid communication processes, distances and timescales. Marine and Petroleum Geology, 2020, 122, 104678.	3.3	1
53	Integrated study of water Sr isotopes and carbonate Sr–C–O isotopes reveals long-lived fluid compartments in the Langfjellet oil discovery, Norwegian North Sea. Marine and Petroleum Geology, 2021, 127, 104958.	3.3	1