

PCraig Craig Smalley

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,927
citations

279778

23
h-index

243610

44
g-index

53
all docs

53
docs citations

53
times ranked

1234
citing authors

#	ARTICLE	IF	CITATIONS
1	H ₂ S-producing reactions in deep carbonate gas reservoirs: Khuff Formation, Abu Dhabi. <i>Chemical Geology</i> , 1996, 133, 157-171.	3.3	310
2	The Influence of Rock Fabric and Mineralogy on Thermochemical Sulfate Reduction: Khuff Formation, Abu Dhabi. <i>Journal of Sedimentary Research</i> , 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. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3925-3931.	3.9	137
4	Can oil emplacement prevent quartz cementation in sandstones?. <i>Petroleum Geoscience</i> , 1998, 4, 129-137.	1.5	125
5	Time-capsule concretions: Unlocking burial diagenetic processes in the Mancos Shale using carbonate clumped isotopes. <i>Earth and Planetary Science Letters</i> , 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 CO ₂ in deep crustal LILE-depletion. <i>Journal of Metamorphic Geology</i> , 1986, 4, 143-160.	3.4	69
7	Sulfur cycle in buried evaporites. <i>Geology</i> , 1997, 25, 643.	4.4	67
8	Evidence for reduced quartz-cementation rates in oil-filled sandstones. <i>Geology</i> , 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. <i>Geology</i> , 1994, 22, 431.	4.4	62
10	Quartz Cement in the Fontainebleau Sandstone, Paris Basin, France: Crystallography and Implications for Mechanisms of Cement Growth. <i>Journal of Sedimentary Research</i> , 2006, 76, 244-256.	1.6	57
11	Reservoir Compartmentalization Assessed With Fluid Compositional Data. <i>SPE Reservoir Engineering</i> , 1994, 9, 175-180.	0.5	51
12	Rare earth, Th/Hf/Ta and large-ion lithophile element variations in metabasites from the Proterozoic amphibolite-granulite transition zone at Arendal, south Norway. <i>Earth and Planetary Science Letters</i> , 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. <i>Sedimentary Geology</i> , 1989, 65, 211-221.	2.1	44
14	Early Identification of Reservoir Compartmentalization by Combining a Range of Conventional and Novel Data Types. <i>SPE Formation Evaluation</i> , 1996, 11, 163-169.	0.5	42
15	Part 4: Compositional variations of North Sea formation waters. <i>Geological Society Memoir</i> , 1994, 15, 119-208.	1.7	41
16	Spatial ⁸⁷ Sr/ ⁸⁶ Sr variations in formation water and calcite from the Ekofisk chalk oil field: implications for reservoir connectivity and fluid composition. <i>Applied Geochemistry</i> , 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. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1899-1911.	3.9	37
18	Intracrystalline carbon and oxygen isotope variations in calcite revealed by laser microsampling. <i>Geology</i> , 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. <i>Geology</i> , 1988, 16, 354.	4.4	29
20	The rate of pressure dissipation from abnormally pressured compartments. <i>AAPG Bulletin</i> , 2005, 89, 61-80.	1.5	29
21	⁸⁷ Sr/ ⁸⁶ Sr 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. <i>Applied Geochemistry</i> , 1988, 3, 591-600.	3.0	28
22	Handling risk and uncertainty in petroleum exploration and asset management: An overview. <i>AAPG Bulletin</i> , 2008, 92, 1251-1261.	1.5	27
23	Strontium isotopes as indicators of the dissolving phase in a carbonate aquifer: implications for ¹⁴ C dating of groundwater. <i>Journal of Hydrology</i> , 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. <i>Journal of Sedimentary Research</i> , 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. <i>Sedimentology</i> , 1987, 34, 795-806.	3.1	23
26	Carbon and oxygen isotopes in Pennsylvanian biogenic and abiogenic aragonite (Otero County, New Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.9	22
27	The relative importance of buffering and brine inputs in controlling the abundance of Na and Ca in sedimentary formation waters. <i>Marine and Petroleum Geology</i> , 2011, 28, 1242-1251.	3.3	19
28	The Longyearbyen CO ₂ Lab: Fluid communication in reservoir and caprock. <i>International Journal of Greenhouse Gas Control</i> , 2017, 63, 59-76.	4.6	19
29	LASSIE (laser ablation sampler for stable isotope extraction) applied to carbonate minerals. <i>Chemical Geology: Isotope Geoscience Section</i> , 1992, 101, 43-52.	0.6	18
30	Rates of reservoir fluid mixing: implications for interpretation of fluid data. <i>Geological Society Special Publication</i> , 2004, 237, 99-113.	1.3	18
31	Reservoir compartmentalization: get it before it gets you. <i>Geological Society Special Publication</i> , 2010, 347, 25-41.	1.3	18
32	Rapid fluid-rock interaction in oilfield reservoirs. <i>Geology</i> , 2007, 35, 1143.	4.4	17
33	Subaerial exposure unconformities on the Vercors carbonate platform (SE France) and their sequence stratigraphic significance. <i>Geological Society Special Publication</i> , 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. <i>Journal of Sedimentary Research</i> , 1995, 65, 105-111.	1.6	13
35	Geochronology and paleothermometry of Neogene sediments from the VÄring Plateau using Sr, C and O isotopes. <i>Earth and Planetary Science Letters</i> , 1986, 78, 368-378.	4.4	12
36	Reservoir Technical Limits: A Framework for Maximizing Recovery From Oil Fields. <i>SPE Reservoir Evaluation and Engineering</i> , 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. <i>Journal of Geology</i> , 1988, 96, 17-29.	1.4	10
38	Compositional heterogeneities in oilfield formation waters: identifying them, using them. <i>Geological Society Special Publication</i> , 1995, 86, 59-69.	1.3	9
39	New Tools Target Oil-Quality Sweetspots in Viscous-Oil Accumulations. <i>SPE Reservoir Engineering</i> , 1997, 12, 157-162.	0.5	9
40	Predicting Vertical Flow Barriers Using Tracer Diffusion in Partially Saturated, Layered Porous Media. <i>Transport in Porous Media</i> , 2014, 105, 255-276.	2.6	8
41	Prediction of large-scale communication in the Smårbukk fields from strontium fingerprinting. <i>Petroleum Geology Conference Proceedings</i> , 1993, 4, 1421-1432.	0.7	6
42	The chemical composition of North Sea formation waters: a review of their heterogeneity and potential applications. <i>Petroleum Geology Conference Proceedings</i> , 1993, 4, 1347-1352.	0.7	6
43	North Sea formation waters: implications for diagenesis and production chemistry. <i>Marine and Petroleum Geology</i> , 1994, 11, 2-4.	3.3	6
44	RbSr dating of fluid migration in hydrocarbon source rocks. <i>Chemical Geology: Isotope Geoscience Section</i> , 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. <i>Precambrian Research</i> , 1991, 53, 233-242.	2.7	5
46	Appraisal of reservoir compartmentalization using fluid mixing time-scales: Horn Mountain Field, Gulf of Mexico. <i>Petroleum Geoscience</i> , 2012, 18, 305-314.	1.5	5
47	Resetting of Rb-Sr whole-rock isochrons during Sveconorwegian low-grade events in the Gjerstad augen gneiss, Telemark, southern Norway. <i>Chemical Geology</i> , 1983, 41, 269-282.	3.3	3
48	Part 2: SPWLA Water Resistivity (R_w) Atlas. <i>Geological Society Memoir</i> , 1994, 15, 79-103.	1.7	2
49	Part 1: Compendium of North Sea Oil and gas fields. <i>Geological Society Memoir</i> , 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. <i>AAPG Bulletin</i> , 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. <i>AAPG Bulletin</i> , 2017, 101, 1473-1486.	1.5	1
52	Patterns of water $^{87}\text{Sr}/^{86}\text{Sr}$ variations in oil-, gas- and water-saturated rocks: Implications for fluid communication processes, distances and timescales. <i>Marine and Petroleum Geology</i> , 2020, 122, 104678.	3.3	1
53	Integrated study of water Sr isotopes and carbonate ^{18}O isotopes reveals long-lived fluid compartments in the Langfjellet oil discovery, Norwegian North Sea. <i>Marine and Petroleum Geology</i> , 2021, 127, 104958.	3.3	1