Andreia P Plaza-Faverola

List of Publications by Year
in descending order

37 papers	1,348 citations	361413 20 h-index	345221 36 g-index
51 all docs	51 docs citations	51 times ranked	1239 citing authors

#	Article	IF	Citations
1	Massive blow-out craters formed by hydrate-controlled methane expulsion from the Arctic seafloor. Science, 2017, 356, 948-953.	12.6	177
2	Repeated fluid expulsion through sub-seabed chimneys offshore Norway in response to glacial cycles. Earth and Planetary Science Letters, 2011, 305, 297-308.	4.4	109
3	Role of tectonic stress in seepage evolution along the gas hydrateâ€charged Vestnesa Ridge, Fram Strait. Geophysical Research Letters, 2015, 42, 733-742.	4.0	95
4	Evolution of fluid expulsion and concentrated hydrate zones across the southern Hikurangi subduction margin, New Zealand: An analysis from depth migrated seismic data. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	74
5	Shallow methane hydrate system controls ongoing, downslope sediment transport in a lowâ€velocity active submarine landslide complex, <scp>H</scp>ikurangi <scp>M</scp>argin, <scp>N</scp>ew <scp>Z</scp>ealand. Geochemistry, Geophysics, Geosystems, 2014, 15, 4137-4156.	2.5	67
6	Thermal evolution of the New Zealand Hikurangi subduction margin: Impact on natural gas generation and methane hydrate formation â€“ A model study. Marine and Petroleum Geology, 2015, 63, 97-114.	3.3	60
7	A 160,000-year-old history of tectonically controlled methane seepage in the Arctic. Science Advances, 2019, 5, eaaw1450.	10.3	60
8	Evidence from threeâ€dimensional seismic tomography for a substantial accumulation of gas hydrate in a fluidâ€escape chimney in the Nyegga pockmark field, offshore Norway. Journal of Geophysical Research, 2010, 115, .	3.3	58
9	Fluid distributions inferred from P-wave velocity and reflection seismic amplitude anomalies beneath the Nyegga pockmark field of the mid-Norwegian margin. Marine and Petroleum Geology, 2010, 27, 46-60.	3.3	57
10	Abiotic methane from ultraslow-spreading ridges can charge Arctic gas hydrates. Geology, 2015, 43, 371-374.	4.4	52
11	Bottomâ€simulating reflector dynamics at Arctic thermogenic gas provinces: An example from Vestnesa Ridge, offshore west Svalbard. Journal of Geophysical Research: Solid Earth, 2017, 122, 4089-4105.	3.4	49
12	Removal of methane through hydrological, microbial, and geochemical processes in the shallow sediments of pockmarks along eastern Vestnesa Ridge (Svalbard). Limnology and Oceanography, 2016, 61, S324.	3.1	42
13	Regulation of ice stream flow through subglacial formation of gas hydrates. Nature Geoscience, 2016, 9, 370-374.	12.9	38
14	Impact of tides and sea-level on deep-sea Arctic methane emissions. Nature Communications, 2020, 11, 5087.	12.8	34
15	Submarine gas seepage in a mixed contractional and shear deformation regime: Cases from the Hikurangi obliqueâ€subduction margin. Geochemistry, Geophysics, Geosystems, 2014, 15, 416-433.	2.5	33
16	Correlation between tectonic stress regimes and methane seepage on the western Svalbard margin. Solid Earth, 2019, 10, 79-94.	2.8	33
17	Methane seepage at Vestnesa Ridge (NW Svalbard) since the Last Glacial Maximum. Quaternary Science Reviews, 2018, 193, 98-117.	3.0	32
18	Bivalve shell horizons in seafloor pockmarks of the last glacialâ€interglacial transition: a thousand years of methane emissions in the <scp>A</scp>rctic <scp>O</scp>cean. Geochemistry, Geophysics, Geosystems, 2015, 16, 4108-4129.	2.5	29

#	Article	IF	Citations
19	Modelling persistent methane seepage offshore western Svalbard since early Pleistocene. Marine and Petroleum Geology, 2018, 91, 800-811.	3.3	29
20	Splay fault branching from the <scp>H</scp>ikurangi subduction shear zone: Implications for slow slip and fluid flow. Geochemistry, Geophysics, Geosystems, 2016, 17, 5009-5023.	2.5	23
21	The free gas zone beneath gas hydrate bearing sediments and its link to fluid flow: 3-D seismic imaging offshore mid-Norway. Marine Geology, 2012, 291-294, 211-226.	2.1	22
22	Gas hydrate and free gas detection using seismic quality factor estimates from high-resolution P-cable 3D seismic data. Interpretation, 2016, 4, SA39-SA54.	1.1	20
23	3â€D Seismic Investigation of a Gas Hydrate and Fluid Flow System on an Active Midâ€Ocean Ridge; Svyatogor Ridge, Fram Strait. Geochemistry, Geophysics, Geosystems, 2018, 19, 2325-2341.	2.5	19
24	Gas migration through Opouawe Bank at the Hikurangi margin offshore New Zealand. Geo-Marine Letters, 2016, 36, 187-196.	1.1	18
25	Detection of Gas Hydrates in Faults Using Azimuthal Seismic Velocity Analysis, Vestnesa Ridge, Wâ€Svalbard Margin. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB017949.	3.4	18
26	Microseismicity Linked to Gas Migration and Leakage on the Western Svalbard Shelf. Geochemistry, Geophysics, Geosystems, 2017, 18, 4623-4645.	2.5	16
27	Repeatability of high-resolution 3D seismic data. Geophysics, 2019, 84, B75-B94.	2.6	14
28	Physical conditions and frictional properties in the source region of a slow-slip event. Nature Geoscience, 2021, 14, 334-340.	12.9	14
29	Crustal processes sustain Arctic abiotic gas hydrate and fluid flow systems. Scientific Reports, 2020, 10, 10679.	3.3	9
30	Interactions between deep formation fluid and gas hydrate dynamics inferred from pore fluid geochemistry at active pockmarks of the Vestnesa Ridge, west Svalbard margin. Marine and Petroleum Geology, 2021, 127, 104957.	3.3	9
31	A Continuous Seismostratigraphic Framework for the Western Svalbard-Barents Sea Margin Over the Last 2.7 Ma: Implications for the Late Cenozoic Glacial History of the Svalbard-Barents Sea Ice Sheet. Frontiers in Earth Science, 2021, 9, .	1.8	9
32	The Plio-Pleistocene seepage history off western Svalbard inferred from 3D petroleum systems modelling. Marine and Petroleum Geology, 2021, 128, 105023.	3.3	8
33	Glacially Induced Stress Across the Arctic From the Eemian Interglacial to the Presentâ€"Implications for Faulting and Methane Seepage. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	7
34	Evolution of contourite drifts in regions of slope failures at eastern Fram Strait. Arktos, 2019, 5, 105-120.	1.0	5
35	Origin and Periodic Behavior of Short Duration Signals Recorded by Seismometers at Vestnesa Ridge, an Active Seepage Site on the West-Svalbard Continental Margin. Frontiers in Earth Science, 2022, 10, .	1.8	4
36	Impact of Gas Saturation and Gas Column Height at the Base of the Gas Hydrate Stability Zone on Fracturing and Seepage at Vestnesa Ridge, West-Svalbard Margin. Energies, 2022, 15, 3156.	3.1	4

#	Article	IF	Citations
37	Gas Hydrate Related Bottom-Simulating Reflections Along the West-Svalbard Margin, Fram Strait. , 2022, , 225-235.		1