

Marta E Torres

List of Publications by Year in descending order

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106
papers

6,607
citations

66315

42
h-index

69214

77
g-index

108
all docs

108
docs citations

108
times ranked

4287
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas hydrate destabilization: enhanced dewatering, benthic material turnover and large methane plumes at the Cascadia convergent margin. <i>Earth and Planetary Science Letters</i> , 1999, 170, 1-15.	1.8	386
2	Authigenic carbonates from the Cascadia subduction zone and their relation to gas hydrate stability. <i>Geology</i> , 1998, 26, 647.	2.0	376
3	Barite fronts in continental margin sediments: a new look at barium remobilization in the zone of sulfate reduction and formation of heavy barites in diagenetic fronts. <i>Chemical Geology</i> , 1996, 127, 125-139.	1.4	366
4	Fluid and chemical fluxes in and out of sediments hosting methane hydrate deposits on Hydrate Ridge, OR, I: Hydrological provinces. <i>Earth and Planetary Science Letters</i> , 2002, 201, 525-540.	1.8	288
5	Three-dimensional distribution of gas hydrate beneath southern Hydrate Ridge: constraints from ODP Leg 204. <i>Earth and Planetary Science Letters</i> , 2004, 222, 845-862.	1.8	278
6	Gas hydrate growth, methane transport, and chloride enrichment at the southern summit of Hydrate Ridge, Cascadia margin off Oregon. <i>Earth and Planetary Science Letters</i> , 2004, 226, 225-241.	1.8	264
7	Methane Hydrates in Nature – Current Knowledge and Challenges. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 319-329.	1.0	226
8	Fluid and chemical flux in and out of sediments hosting methane hydrate deposits on Hydrate Ridge, OR, II: Hydrological processes. <i>Earth and Planetary Science Letters</i> , 2002, 201, 541-557.	1.8	186
9	Co-existence of gas hydrate, free gas, and brine within the regional gas hydrate stability zone at Hydrate Ridge (Oregon margin): evidence from prolonged degassing of a pressurized core. <i>Earth and Planetary Science Letters</i> , 2004, 222, 829-843.	1.8	173
10	Methane hydrate formation in turbidite sediments of northern Cascadia, IODP Expedition 311. <i>Earth and Planetary Science Letters</i> , 2008, 271, 170-180.	1.8	161
11	The stable carbon isotope biogeochemistry of acetate and other dissolved carbon species in deep seafloor sediments at the northern Cascadia Margin. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3323-3336.	1.6	161
12	Measurements of transience and downward fluid flow near episodic methane gas vents, Hydrate Ridge, Cascadia. <i>Geology</i> , 1999, 27, 1075.	2.0	152
13	Feeding methane vents and gas hydrate deposits at south Hydrate Ridge. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	146
14	Bromine and iodine in Peru margin sediments and pore fluids: Implications for fluid origins. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 4377-4389.	1.6	141
15	Formation of modern and Paleozoic stratiform barite at cold methane seeps on continental margins. <i>Geology</i> , 2003, 31, 897.	2.0	135
16	The effect of diagenesis and fluid migration on rare earth element distribution in pore fluids of the northern Cascadia accretionary margin. <i>Chemical Geology</i> , 2012, 291, 152-165.	1.4	129
17	Gas hydrate occurrence from pore water chlorinity and downhole logs in a transect across the northern Cascadia margin (Integrated Ocean Drilling Program Expedition 311). <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	118
18	Gas Hydrates in Marine Sediments: Lessons from Scientific Ocean Drilling. <i>Oceanography</i> , 2006, 19, 124-142.	0.5	113

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19	Temporal and spatial evolution of a gas hydrate-bearing accretionary ridge on the Oregon continental margin. <i>Geology</i> , 1999, 27, 939.	2.0	111
20	Widespread methane seepage along the continental margin off Svalbard - from Bjørnøya to Kongsfjorden. <i>Scientific Reports</i> , 2017, 7, 42997.	1.6	100
21	Authigenic barites and fluxes of barium associated with fluid seeps in the Peru subduction zone. <i>Earth and Planetary Science Letters</i> , 1996, 144, 469-481.	1.8	97
22	Gas hydrate dissociation off Svalbard induced by isostatic rebound rather than global warming. <i>Nature Communications</i> , 2018, 9, 83.	5.8	97
23	Precise $\delta^{13}C$ analysis of dissolved inorganic carbon in natural waters using automated headspace sampling and continuous-flow mass spectrometry. <i>Limnology and Oceanography: Methods</i> , 2005, 3, 349-360.	1.0	94
24	Physical properties of sediment from the Mount Elbert Gas Hydrate Stratigraphic Test Well, Alaska North Slope. <i>Marine and Petroleum Geology</i> , 2011, 28, 361-380.	1.5	91
25	Fluid seepage along the San Clemente Fault scarp: basin-wide impact on barium cycling. <i>Earth and Planetary Science Letters</i> , 2002, 203, 181-194.	1.8	90
26	Rare earth element geochemistry in cold-seep pore waters of Hydrate Ridge, northeast Pacific Ocean. <i>Geo-Marine Letters</i> , 2013, 33, 369-379.	0.5	77
27	Gas hydrate occurrences and their relation to host sediment properties: Results from Second Ulleung Basin Gas Hydrate Drilling Expedition, East Sea. <i>Marine and Petroleum Geology</i> , 2013, 47, 21-29.	1.5	74
28	An integrated view of the methane system in the pockmarks at Vestnesa Ridge, 79°N. <i>Marine Geology</i> , 2017, 390, 282-300.	0.9	74
29	Fluid sources, fluid pathways and diagenetic reactions across an accretionary prism revealed by Sr and B geochemistry. <i>Earth and Planetary Science Letters</i> , 2005, 239, 106-121.	1.8	68
30	Silicate weathering in anoxic marine sediment as a requirement for authigenic carbonate burial. <i>Earth-Science Reviews</i> , 2020, 200, 102960.	4.0	65
31	Gas hydrate distribution and carbon sequestration through coupled microbial methanogenesis and silicate weathering in the Krishna-Godavari Basin, offshore India. <i>Marine and Petroleum Geology</i> , 2014, 58, 233-253.	1.5	64
32	Controls on calcium isotope fractionation in sedimentary porewaters. <i>Earth and Planetary Science Letters</i> , 2009, 279, 373-382.	1.8	62
33	Methane-derived authigenic carbonates from modern and paleoseeps on the Cascadia margin: Mechanisms of formation and diagenetic signals. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 390, 52-67.	1.0	60
34	Seepage from an arctic shallow marine gas hydrate reservoir is insensitive to momentary ocean warming. <i>Nature Communications</i> , 2017, 8, 15745.	5.8	59
35	Barium-isotopic constraints on the origin of post-Marinoan barites. <i>Earth and Planetary Science Letters</i> , 2019, 519, 234-244.	1.8	59
36	Understanding Himalayan erosion and the significance of the Nicobar Fan. <i>Earth and Planetary Science Letters</i> , 2017, 475, 134-142.	1.8	58

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37	Release of mineral-bound water prior to subduction tied to shallow seismogenic slip off Sumatra. <i>Science</i> , 2017, 356, 841-844.	6.0	57
38	Carbon cycling within the sulfate-methane-transition-zone in marine sediments from the Ulleung Basin. <i>Biogeochemistry</i> , 2013, 115, 129-148.	1.7	55
39	Pore fluid chemistry from the Second Gas Hydrate Drilling Expedition in the Ulleung Basin (UBGH2): Source, mechanisms and consequences of fluid freshening in the central part of the Ulleung Basin, East Sea. <i>Marine and Petroleum Geology</i> , 2013, 47, 99-112.	1.5	53
40	Influence of total organic carbon deposition on the inventory of gas hydrate in the Indian continental margins. <i>Marine and Petroleum Geology</i> , 2014, 58, 406-424.	1.5	51
41	Towards quantifying the reaction network around the sulfate-methane-transition-zone in the Ulleung Basin, East Sea, with a kinetic modeling approach. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 127-141.	1.6	44
42	Ethane enrichment and propane depletion in subsurface gases indicate gas hydrate occurrence in marine sediments at southern Hydrate Ridge offshore Oregon. <i>Organic Geochemistry</i> , 2004, 35, 1067-1080.	0.9	43
43	Gas origin and migration in the Ulleung Basin, East Sea: Results from the Second Ulleung Basin Gas Hydrate Drilling Expedition (UBGH2). <i>Marine and Petroleum Geology</i> , 2013, 47, 113-124.	1.5	42
44	Post depositional alteration of foraminiferal shells in cold seep settings: New insights from flow-through time-resolved analyses of biogenic and inorganic seep carbonates. <i>Earth and Planetary Science Letters</i> , 2010, 299, 10-22.	1.8	41
45	Anomalous porosity preservation and preferential accumulation of gas hydrate in the Andaman accretionary wedge, NGHP-01 site 17A. <i>Marine and Petroleum Geology</i> , 2014, 58, 99-116.	1.5	38
46	Controls on rare earth element distributions in ancient organic-rich sedimentary sequences: Role of post-depositional diagenesis of phosphorus phases. <i>Chemical Geology</i> , 2017, 466, 533-544.	1.4	38
47	Using the $^{87}\text{Sr}/^{86}\text{Sr}$ of modern and paleoseep carbonates from northern Cascadia to link modern fluid flow to the past. <i>Chemical Geology</i> , 2012, 334, 122-130.	1.4	37
48	Composition and origin of authigenic carbonates in the Krishna-Godavari and Mahanadi Basins, eastern continental margin of India. <i>Marine and Petroleum Geology</i> , 2014, 58, 438-460.	1.5	37
49	Marine silicate weathering in the anoxic sediment of the Ulleung Basin: Evidence and consequences. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3437-3453.	1.0	35
50	Real-time monitoring of calcification process by <i>Sporosarcina pasteurii</i> biofilm. <i>Analyst</i> , 2016, 141, 2887-2895.	1.7	34
51	Pore fluid geochemistry from the Mount Elbert Gas Hydrate Stratigraphic Test Well, Alaska North Slope. <i>Marine and Petroleum Geology</i> , 2011, 28, 332-342.	1.5	33
52	Seasonal methane accumulation and release from a gas emission site in the central North Sea. <i>Biogeosciences</i> , 2015, 12, 5261-5276.	1.3	32
53	Fluid Origins, Thermal Regimes, and Fluid and Solute Fluxes in the Forearc of Subduction Zones. <i>Developments in Marine Geology</i> , 2014, 7, 671-733.	0.4	31
54	Geochemical constraints on the temperature and timing of carbonate formation and lithification in the Nankai Trough, NanTroSEIZE transect. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 198, 92-114.	1.6	31

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55	Seafloor sealing, doming, and collapse associated with gas seeps and authigenic carbonate structures at Venere mud volcano, Central Mediterranean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 137, 76-96.	0.6	31
56	Variations in Gas and Water Pulses at an Arctic Seep: Fluid Sources and Methane Transport. <i>Geophysical Research Letters</i> , 2018, 45, 4153-4162.	1.5	30
57	Inferences on gas transport based on molecular and isotopic signatures of gases at acoustic chimneys and background sites in the Ulleung Basin. <i>Organic Geochemistry</i> , 2012, 43, 26-38.	0.9	28
58	Crustal fluid and ash alteration impacts on the biosphere of Shikoku Basin sediments, Nankai Trough, Japan. <i>Geobiology</i> , 2015, 13, 562-580.	1.1	28
59	A kinetic-model approach to quantify the effect of mass transport deposits on pore water profiles in the Krishna-Godavari Basin, Bay of Bengal. <i>Marine and Petroleum Geology</i> , 2014, 58, 223-232.	1.5	25
60	Methane sources feeding cold seeps on the shelf and upper continental slope off central Oregon, USA. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	24
61	Carbon cycling fed by methane seepage at the shallow Cumberland Bay, South Georgia, sub-Antarctic. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1401-1418.	1.0	23
62	Reconstructing the history of fluid flow at cold seep sites from Ba/Ca ratios in vesicomid clam shells. <i>Limnology and Oceanography</i> , 2001, 46, 1701-1708.	1.6	22
63	Expedition 344 summary. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	22
64	Fracture-controlled fluid transport supports microbial methane-oxidizing communities at Vestnesa Ridge. <i>Biogeosciences</i> , 2019, 16, 2221-2232.	1.3	21
65	Origin and Transformation of Light Hydrocarbons Ascending at an Active Pockmark on Vestnesa Ridge, Arctic Ocean. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2018JB016679.	1.4	20
66	Expedition 372B/375 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	20
67	Contribution of cold seep barite to the barium geochemical budget of a marginal basin. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2008, 55, 801-811.	0.6	19
68	Expedition 362 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	19
69	Expedition 372B/375 methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	18
70	Site U1520. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	18
71	Sedimentation Controls on Methane-Hydrate Dynamics Across Glacial/Interglacial Stages: An Example From International Ocean Discovery Program Site U1517, Hikurangi Margin. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4906-4921.	1.0	17
72	Site U1518. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	16

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73	Mineral changes in cement-sandstone matrices induced by biocementation. <i>International Journal of Greenhouse Gas Control</i> , 2016, 49, 312-322.	2.3	15
74	Impact of iron release by volcanic ash alteration on carbon cycling in sediments of the northern Hikurangi margin. <i>Earth and Planetary Science Letters</i> , 2020, 541, 116288.	1.8	15
75	Gas hydrate transect across Northern Cascadia Margin. <i>Eos</i> , 2006, 87, 325.	0.1	14
76	Site U1517. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	14
77	Methane Hydrate Formation in Ulleung Basin Under Conditions of Variable Salinity: Reduced Model and Experiments. <i>Transport in Porous Media</i> , 2016, 114, 1-27.	1.2	13
78	Reply to comment on: "Gas hydrate growth, methane transport and chloride enrichment at the southern summit of Hydrate Ridge, Cascadia Margin off Oregon". <i>Earth and Planetary Science Letters</i> , 2005, 239, 168-175.	1.8	12
79	Expedition 362 methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	12
80	Depressurization experiment of pressure cores from the central Ulleung Basin, East Sea: Insights into gas chemistry. <i>Organic Geochemistry</i> , 2013, 62, 86-95.	0.9	11
81	Microbial distributions detected by an oligonucleotide microarray across geochemical zones associated with methane in marine sediments from the Ulleung Basin. <i>Marine and Petroleum Geology</i> , 2013, 47, 147-154.	1.5	11
82	Site U1519. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	11
83	Towards a global quantification of volcanogenic aluminosilicate alteration rates through the mass balance of strontium in marine sediments. <i>Chemical Geology</i> , 2020, 550, 119743.	1.4	10
84	Data report: strontium isotope analyses of pore fluids from the CRISP-A transect drilled during Expeditions 334 and 344. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	10
85	Constraining the Age and Evolution of the Tuaheni Landslide Complex, Hikurangi Margin, New Zealand, Using Pore-Water Geochemistry and Numerical Modeling. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087243.	1.5	9
86	Distinct methane-dependent biogeochemical states in Arctic seafloor gas hydrate mounds. <i>Nature Communications</i> , 2021, 12, 6296.	5.8	9
87	Site U1480. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	8
88	Interplay of Subduction Tectonics, Sedimentation, and Carbon Cycling. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4939-4955.	1.0	7
89	Adaptive modeling of methane hydrates. <i>Procedia Computer Science</i> , 2010, 1, 709-717.	1.2	6
90	Isolating Detrital and Diagenetic Signals in Magnetic Susceptibility Records From Methane-Bearing Marine Sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009867.	1.0	6

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91	Expedition 372A summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	6
92	Deep-Sourced Fluids From a Convergent Margin Host Distinct Subseafloor Microbial Communities That Change Upon Mud Flow Expulsion. <i>Frontiers in Microbiology</i> , 2019, 10, 1436.	1.5	5
93	Microbial communities from Arctic marine sediments respond slowly to methane addition during <i>in situ</i> enrichments. <i>Environmental Microbiology</i> , 2020, 22, 1829-1846.	1.8	5
94	Empirically assessing the potential release of rare earth elements from black shale under simulated hydraulic fracturing conditions. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 50, 259-268.	2.1	4
95	A Pulse of Meteoric Subsurface Fluid Discharging Into the Chukchi Sea During the Early Holocene Thermal Maximum (EHTM). <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009750.	1.0	4
96	Site U1481. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	4
97	Data report: 87Sr/86Sr in pore fluids from Expedition 362. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	4
98	Mid-slope Site U1380. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	4
99	Authigenic Clays Versus Carbonate Formation as Products of Marine Silicate Weathering in the Input Sequence to the Sumatra Subduction Zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	3
100	Expedition 372A methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	2
101	Formation of modern and Paleozoic stratiform barite at cold methane seeps on continental margins: Comment and Reply. <i>Geology</i> , 2004, 32, e64-e65.	2.0	1
102	Reply to Comments by N. Sultan on "Sedimentation Controls on Methane Hydrate Dynamics Across Glacial/Interglacial Stages: An Example From International Ocean Discovery Program Site U1517, Hikurangi Margin". <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009005.	1.0	1
103	Data report: isotopic and elemental analyses of pore fluids and carbonates from Sites U1378 and U1380 drilled during CRISP-A Expeditions 334 and 344 in the middle slope offshore Costa Rica. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	1
104	Relationships between Gas Hydrate Occurrence Types and Sediment Characteristics in the Ulleung Basin, East Sea. <i>Economic and Environmental Geology</i> , 2012, 45, 397-406.	0.2	1
105	Data report: pore water and solid-phase trace element distribution in sediments from IODP Expedition 334 Sites U1378 and U1379. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	0
106	Data report: 87Sr/86Sr in pore fluids from IODP Expeditions 372 and 375, Hikurangi margin.. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0