

2024

89. Doll M., Pape T., Römer M., Klügel A., Bohrmann G. (submitted) The Late Pleistocene-Holocene eruptive history of Sartori Mud Volcano in the Calabrian Arc, Mediterranean Sea.
88. Bohrmann G., Streuff K., Römer M., Knutsen S.-M., Smrzka D., Kleint J., Röhler A., Pape T., Sandst  N.R., Kleint C., Hansen C., dos Santos Ferreira C., Walter M., Macedo de Paula Santos G., Bach W. (2024) Discovery of the first hydrothermal field along the 500 km-long Knipovich Ridge offshore Svalbard (the J tul field). *Scientific Reports* 14, 10168. doi:10.1038/s41598-024-60802-3

2023

87. Doll M., R mer M., Pape T., K lling M., Kaul N.E., dos Santos Ferreira C., Bohrmann G. (2023). Recent and episodic activity of decoupled mud/fluid discharge at the Sartori Mud Volcano in the Calabrian Arc, Mediterranean Sea. In: Research Topic: From Cold Seeps to Hydrothermal Vents: Geology, Chemistry, Microbiology, and Ecology in Marine and Coastal Environments (Eds. Snyder G.T., Dup re S., Ruppel C., Ketzer M., Thurber A.R.). *Frontiers in Earth Science* 11, 1181380. doi:10.3389/feart.2023.1181380
86. Lin Y.-T., Rumble D., Young E. D., Labidi J., Tu T.-H., Chen J.-N., Pape T., Bohrmann G., Lin S., Lin L.-H., Wang P.-L. (2023). Diverse origins of gases from mud volcanoes and seeps in tectonically fragmented terrane. *Geochemistry, Geophysics, Geosystems* 24, e2022GC010791. doi:10.1029/2022GC010791
85. Marsset T., Pape T., Simplet L., Dennielou B., Ruffine L., Bohrmann G., R villon S. (2023). Plumbing systems and associated seafloor fluid seepages in deep-water Nigeria: Factors controlling their architecture and cyclic evolution. *Marine and Petroleum Geology* 153, 106273. doi:10.1016/j.marpetgeo.2023.106273.
84. Bohrmann G., Berndt C., Lin S., Tu T.-H., Lin A.T., Hsu H.-H., Lai M.-L., Chi W.-C., Deusner C., Elger J., Wallmann K., Freudenthal T., Mau S., Pape T., Tseng Y.-T., Yu P.-S., Fan L.-F. Chen J.-N., Chen S.-C., Chen T.-T., Wei K.-Y., SONNE SO266 shipboard scientific party (2023) Geological controls on the distribution of gas hydrates in the shallow parts of the gas hydrate stability zone – constraints from seafloor drilling off Taiwan. *Marine and Petroleum Geology* 153, 106253. doi:10.1016/j.marpetgeo.2023.106253.
83. Tseng Y., R mer, M., Lin S., Pape T., Berndt C., Chen T.-T., Paull C.K., Caress D.W., Bohrmann G. (2023) Yam Seep at Four-Way Closure Ridge – a prominent active gas seep system at the accretionary wedge SW offshore Taiwan. *International Journal of Earth Sciences* 112, 1043-1061. doi: 10.1007/s00531-022-02280-4

2022

82. Zabel M., Glud R., Sanei H., Elvert M., Pape T., Chuang P.-C., Okuma E., Gepr gs P., K lling M. (2022) High carbon mineralization rates in subseafloor hadal sediments - Result of frequent mass wasting. *Geochemistry, Geophysics, Geosystems* 23, e2022GC010502. doi: 10.1029/2022GC010502
81. Freudenthal T., Villinger H., Riedel M., Pape T. (2022) Heat flux estimation from borehole temperatures acquired during logging while tripping: a case study with the sea floor drill rig MARUM-MeBo. *Marine Geophysical Research* 34:37. doi: 10.1007/s11001-022-09500-1
80. Blumenberg M., Schl mer S., Reinhardt L., Scheeder G., Pape T., R mer M. (2022) Biomarker insights into a methane-enriched Holocene peat-setting from “Doggerland” (central North Sea). *The Holocene*. doi: 10.1177/09596836221106958
79. Pereira S.I., Diehl A., McDermott J.M., Pape T., Klose L., Strauss H., Bohrmann G., Bach W. (2022) Geochemistry of hydrothermal fluids from the E2-segment of the East Scotia Ridge: Magmatic input, reaction zone processes, fluid mixing regimes and bioenergetic landscapes. *Frontiers in Marine Science* 9, 765648. doi: 10.3389/fmars.2022.765648

78. Lalk E., Pape T., Gruen D.S., Kaul N., Karolewski J.S., Bohrmann G., Ono S. (2022) Clumped methane isotopologue-based temperature estimates for sources of methane in marine gas hydrates and associated vent gases. *Geochimica et Cosmochimica Acta*, 327, 276-297. doi: 10.1016/j.gca.2022.04.013.

2021

77. Hsu C.-W., Marcon Y., Römer M., Pape T., Klaucke I., Loher M., Wintersteller P., MacDonald I.R., dos Santos Ferreira C., Bohrmann G. (2021) Heterogeneous hydrocarbon seepage at Mictlan asphalt knoll of the southern Gulf of Mexico. *Marine and Petroleum Geology* 132, 105185. doi: 10.1016/j.marpetgeo.2021.105185
76. Riedel M., Bialas J., Villinger H., Pape T., Haeckel M., Bohrmann G. (2021) Heat flow measurements at the Danube deep-sea fan, western Black Sea. In: Marine Heat Flow Measurements (Eds. Kaul N., Martinez-Frias J.). *Geosciences* 11(6), 240. doi: 10.3390/geosciences11060240
75. Schnakenberg A., Aromokeye D.A., Kulkarni A.C., Maier L., Wunder L.C., Richter-Heitmann T., Pape T., Pop Ristova P., Bühring S., Dohrmann I., Bohrmann G., Kasten S., Friedrich M.W. (2021) Electron acceptor availability shapes anaerobically methane oxidizing archaea (ANME) communities in South Georgia sediments. *Frontiers in Microbiology* 12, 617280. doi: 10.3389/fmicb.2021.617280
74. Riedel M., Freudenthal T., Bialas J., Papenberg C., Haeckel M., Bergenthal M., Pape T., Bohrmann G. (2021) In-situ borehole temperature measurements confirm dynamics of the gas hydrate stability zone at the upper Danube deep sea fan, Black Sea. *Earth and Planetary Science Letters* 563, 116869. doi: 10.1016/j.epsl.2021.116869
73. Pape T., Blumenberg M., Reitz A., Scheeder G., Schmidt M., Haeckel M., Blinova V.N., Ivanov M.K., Sahling H., Wallmann K., Bohrmann G. (2021) Oil and gas seepage offshore Georgia (Black Sea) – Geochemical evidences for a Paleogene-Neogene hydrocarbon source rock. In: Black Sea Gas Hydrates (Eds. Haeckel M., Bohrmann G., Schwabenberg K., Kuhs W., Wallmann K.). *Marine and Petroleum Geology* 128, 104995, doi: 10.1016/j.marpetgeo.2021.104995
72. Hong W.-L., Pape T., Schmidt C., Yao H., Wallmann K., Plaza-Faverola A.A., Rae J.W., Lepland A., Bünz S., Bohrmann G. (2021) 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* 127, 104957. doi: 10.1016/j.marpetgeo.2021.104957

2020

71. Riedel M., Villinger H., Freudenthal T., Pape T., Bünz S., Bohrmann G. (2020) Thermal characterization of pockmarks across Vestnesa and Svyatogor Ridges, offshore Svalbard. *Journal of Geophysical Research: Solid Earth* 125. doi:10.1029/2020JB019468
70. Pape T., Ruffine L., Hong W.-L., Sultan N., Riboulot V., Peters C.A., Kölling M., Zabel M., Garziglia S., Bohrmann G. (2020) Shallow gas hydrate accumulations at a Nigerian deepwater pockmark – Quantities and dynamics. *Journal of Geophysical Research: Solid Earth* 125. e2019JB018283. doi: org/10.1029/2019JB018283
69. Pape T., Haeckel M., Riedel M., Kölling M., Schmidt M., Wallmann K., Bohrmann G. (2020) Formation pathways of light hydrocarbons in deep sediments of the Danube deep-sea fan, Western Black Sea. In: Black Sea Gas Hydrates (Eds. Haeckel M., Bohrmann G., Schwabenberg K., Kuhs W., Wallmann K.). *Marine and Petroleum Geology* 122, 104627. doi: 10.1016/j.marpetgeo.2020.104627
68. Luo M., Torres M., Hong W.-L., Pape T., Fronzek J., Kutterolf S., Mountjoy J., Orpin A., Henkel S., Huhn K., Chen D., Kasten S. (2020) Impact of iron release by volcanic ash alteration on carbon cycling in sediments of the northern Hikurangi margin. *Earth and Planetary Science Letters* 541, 116288. doi: 10.1016/j.epsl.2020.116288

67. Zander T., Haeckel M., Klaucke I., Bialas J., Klaeschen D., Papenberg C., Pape T., Berndt C., Bohrmann G. (2020) New insights into geology and geochemistry of the Kerch seep area in the Black Sea. In: Black Sea Gas Hydrates (Eds. Haeckel M., Bohrmann G., Schwalenberg K., Kuhs W., Wallmann K.). *Marine and Petroleum Geology* 113, 104162. doi: 10.1016/j.marpetgeo.2019.104162
66. Pape T., Bünz S., Hong W.-L., Torres M.E., Riedel M., Panieri G., Lepland A., Hsu C.-W., Wintersteller P., Wallmann K., Schmidt C., Yao H., Bohrmann G. (2020) Origin and transformation of light hydrocarbons ascending at an active pockmark on Vestnesa Ridge, Arctic Ocean. *Journal of Geophysical Research: Solid Earth* 125, e2018JB016679. doi: 10.1029/2018JB016679

2019

65. Hsu C.-W., MacDonald I.R., Römer M., Pape T., Sahling H., Wintersteller P., Bohrmann G. (2019) Characteristics and hydrocarbon seepage at the Challenger Knoll in the Sigsbee Basin, Gulf of Mexico. *Geo-Marine Letters* 39(5), 391-399. doi: 10.1007/s00367-019-00595-x
64. Römer M., Hsu C.-W., Loher M., MacDonald I., dos Santos Ferreira C., Pape T., Mau S., Bohrmann G., Sahling H. (2019) Amount and fate of gas and oil discharged at 3400 m water depth from a natural seep site in the Southern Gulf of Mexico Journal. *Frontiers in Marine Science* 6 (700). doi: 10.3389/fmars.2019.00700
63. Laso-Pérez R., Hahn C., van Vliet D., Tegetmeyer H., Schubotz F., Smit N., Pape T., Sahling H., Bohrmann G., Boetius A., Knittel K., Wegener G. (2019) Anaerobic degradation of non-methane alkanes by "Candidatus Methanoliparia" in hydrocarbon seeps of the Gulf of Mexico. *mBio* 10 (4). doi: 10.1128/mBio.01814-19
62. Klasek S.A., Torres M.E., Loher M., Bohrmann G., Pape T., Colwell F.S. (2019) Deep-sourced fluids from a convergent margin host distinct subseafloor microbial communities that change upon mud flow expulsion. *Frontiers in Microbiology* 10 (1436). doi: 10.3389/fmicb.2019.01436
61. Wu T., Sahling H., Feseker T., Rendle-Bühring R., Wei J., Wintersteller P., Marcon Y., Pape T., Römer M., Bohrmann G. (2019) Morphology and activity of the Helgoland Mud Volcano in the Sorokin Trough, northern Black Sea. *Marine and Petroleum Geology* 99, 227-236. doi: 10.1016/j.marpetgeo.2018.10.017

2018

60. Loher M., Marcon Y., Pape T., Römer M., Wintersteller P., dos Santos Ferreira C., Praeg D., Torres M., Sahling H., Bohrmann G. (2018) Seafloor sealing, doming, and collapse associated with gas seeps and authigenic carbonate structures at Venere mud volcano, Central Mediterranean. *Deep-Sea Research (Part I)* 137, 76-96. doi: 10.1016/j.dsr.2018.04.006
59. Loher M., Pape T., Marcon Y., Römer M., Wintersteller P., Praeg D., Torres M., Sahling H., Bohrmann G. (2018) Venere mud volcano – The active mud and gas expulsion site on the Calabrian accretionary prism (Ionian Sea). *Scientific Reports* 8, 6275. doi: 10.1038/s41598-018-24689-1
58. Riedel M., Wallmann K., Berndt C., Pape T., Freudenthal T., Bergenthal M., Bünz S., Bohrmann G. (2018) In situ temperature measurements at the Svalbard continental margin: implications for gas hydrate dynamics. *Geochemistry, Geophysics, Geosystems*, 19. doi: 10.1002/2017GC007288
57. Wallmann K., Riedel M., Hong W.L., Patton H., Hubbard A., Pape T., Hsu C.W., Schmidt C., Johnson J.E., Torres M.E., Andreassen K., Berndt C., Bohrmann G. (2018) Gas hydrate dissociation off Svalbard induced by isostatic rebound rather than global warming. *Nature Communications* 9:83. doi: 10.1038/s41467-017-02550
56. Blumenberg M., Pape T., Seifert R., Bohrmann G., Schlömer S. (2018) Can hydrocarbons entrapped in seep carbonates serve as gas geochemistry recorder? *Geo-Marine Letters* 38 (2), 121-129. doi: 10.1007/s00367-017-0522-6

2017

55. Pape T., Hohnberg H.-J., Wunsch D., Anders E., Freudenthal T., Huhn K., Bohrmann G. (2017) Design and deployment of autoclave pressure vessels for the portable deep-sea drill rig MeBo (Meeresboden-Bohrgerät), *Scientific Drilling*, 23, 29-37. doi: 10.5194/sd-23-29-2017
54. Rubin-Blum M., Antony C.P., Borowski C., Sayavedra L., Pape T., Sahling H., Bohrmann G., Kleiner M., Redmond M.C., Valentine D.L., Dubilier N. (2017) Short-chain alkanes fuel mussel and sponge *Cycloclasticus* symbionts from deep-sea gas and oil seeps. *Nature Microbiology* 2, 17093. doi: 10.1038/nmicrobiol.2017.93
53. Wenau S., Spiess V., Pape T., Fekete N. (2017) Controlling mechanisms of giant deep water pockmarks in the Lower Congo Basin. *Marine and Petroleum Geology*, 83, 140-157. doi: 10.1016/j.marpetgeo.2017.02.030
52. Mau S., Römer M., Torres M.E., Bussmann I., Pape T., Damm E., Geprägs P., Wintersteller P., Hsu C.-W., Loher M., Bohrmann G. (2017) Widespread methane seepage along the continental margin off Svalbard - from Bjørnøya to Kongsfjorden. *Scientific Reports* 7, 42997. doi: 10.1038/srep42997
51. de Prunelé A., Ruffine L., Riboulot V., Peters C.A., Croguennec C., Guyader V., Pape T., Bollinger C., Bayon G., Caprais J.-C., Germain Y., Donval J.-P., Marsset T., Bohrmann G., Géli L., Rabiu A., Lescanne M., Cauquil E., Sultan N. (2017) Focused hydrocarbon-migration in shallow sediments of a pockmark cluster in the Niger Delta (Off Nigeria). *Geochemistry, Geophysics, Geosystems*, 18, 93-112. doi:10.1002/2016GC006554

2016

50. Sahling H., Rubin Blum M., Borowski C., Escobar-Briones E., Gaytán-Caballero A., Hsu C.-W., Loher M., MacDonald I., Marcon Y., Pape T., Römer M., Schubotz F., Smrzka D., Wegener G., Bohrmann G. (2016) Massive asphalt deposits, oil seepage, and gas venting support abundant chemosynthetic communities at the Campeche Knolls, southern Gulf of Mexico. *Biogeosciences* 13(15). 4491-4512. doi: 10.5194/bg-13-4491-2016

2015

49. Wenau S., Spiess V., Pape T., Fekete N. (2015) Cold seeps at the salt front in the Lower Congo Basin II: The impact of spatial and temporal evolution of salt-tectonics on hydrocarbon seepage. *Marine and Petroleum Geology*, 67, 894-908. doi: 10.1016/j.marpetgeo.2014.09.021
48. Wenau S., Spiess V., Pape T., Fekete N. (2015) Cold seeps at the salt front in the Lower Congo Basin I: Current methane accumulation and active seepage. *Marine and Petroleum Geology*, 67, 880-893. doi: 10.1016/j.marpetgeo.2014.07.032
47. Himmler T., Birgel D., Bayon G., Pape T., Ge L., Bohrmann G., Peckmann J. (2015) Formation of seep carbonates along the makran convergent margin, northern Arabian sea and a molecular and isotopic approach to constrain the carbon isotopic composition of parent methane. *Chemical Geology*, 415. 102-117. doi: 10.1016/J.chemgeo.2015.09.016
46. Wei J., Pape T., Sultan N., Coliat J.L., Himmler T., Ruffine L., de Prunelé A., Dennielou B., Garziglia S., Marsset T., Peters C.A., Rabiu A., Bohrmann G. (2015) Gas hydrate distributions in sediments of pockmarks from the Nigerian margin – Results and interpretation from shallow drilling. *Marine and Petroleum Geology*, 59. 359-370. doi: 10.1016/j.marpetgeo.2014.09.013

2014

45. Sahling H., Römer M., Pape T., Bergès B., dos Santos Fereira C., Boelmann J., Geprägs P., Tomczyk M., Nowald N., Dimmler W., Schroedter L., Glockzin M., Bohrmann G. (2014) Gas emissions at the continental margin west of Svalbard: mapping, sampling, and quantification. *Biogeosciences*, 11(21), 6029-6046. doi: 10.5194/bg-11-6029-2014

44. Pape T., Geprägs P., Hammerschmidt S., Wintersteller P., Wei J., Fleischmann T., Bohrmann G., Kopf A.J. (2014) Hydrocarbon seepage and its sources at mud volcanoes of the Kumano forearc basin, Nankai Trough subduction zone. *Geochemistry, Geophysics, Geosystems*, 15(6). 2180-2194. doi: 10.1002/2013GC005057
43. Römer M., Torres M., Kasten S., Kuhn G., Graham A.G.C., Mau S., Little C.T.S., Linse K., Pape T., Geprägs P., Fischer D., Wintersteller P., Marcon Y., Rethemeyer J., Bohrmann G. (2014) First evidence of widespread active methane seepage in the Southern Ocean, off the sub-Antarctic island of South Georgia. *Earth and Planetary Science Letters*, 403. 166-177. doi: 10.1016/j.epsl.2014.06.036
42. Sultan N., Bohrmann G., Ruffine L., Pape T., Riboulot V., Coliat J.L., De Prunelé A., Dennielou B., Garziglia S., Himmller T., Marsset T., Peters C.A., Rabiu A., Wei J. (2014) Pockmark formation and evolution in deep water Nigeria: Rapid hydrate growth versus slow hydrate dissolution. *Journal of Geophysical Research: Solid Earth*, 119. doi: 10.1002/2013JB010546
41. Körber J.-H., Sahling H., Pape T., dos Santos Ferreira C., MacDonald I., Bohrmann G. (2014) Natural oil seepage at Kobuleti Ridge, eastern Black Sea, *Marine and Petroleum Geology*, 50, 68-82. doi: 10.1016/j.marpetgeo.2013.11.007.
40. Römer M., Sahling H., Pape T., dos Santos Ferreira C., Wenzhöfer F., Boetius A., Bohrmann G. (2014) Methane fluxes and carbonate deposits at a cold seep area of the Central Nile Deep Sea Fan, Eastern Mediterranean Sea, *Marine Geology*, 347, 27-42, <http://dx.doi.org/10.1016/j.margeo.2013.10.011>.

2013

39. Fischer D., Mogollón J.M., Strasser M., Pape T., Bohrmann G., Fekete N., Spiess V., Kasten S. (2013) Subduction zone earthquake as potential trigger of submarine hydrocarbon seepage. *Nature Geoscience* 6, 647–651. doi: 10.1038/ngeo1886

2012

38. Pierre C., Blanc-Valleron M.-M., Demange J., Boudouma O., Foucher J.-P., Pape T., Himmller T., Fekete N., Spiess V. (2012) Authigenic carbonates from active methane seeps offshore South-West Africa. *Geo-Marine Letters* 32, 501-513. doi: 10.1007/s00367-012-0295-x
37. Klapp S.A., Enzmann F., Walz P., Huthwelker T., Tuckermann J., Schwarz J.-O., Pape T., Peltzer E.T., Mokso R., Wangner D., Marone F., Kersten M., Bohrmann G., Kuhs W.F., Stampaoni M., Brewer P.G. (2012) Microstructure characteristics during hydrate formation and dissociation revealed by X-ray tomographic microscopy. *Geo-Marine Letters* 32, 555-562. doi: 10.1007/s00367-012-0276-0
36. Römer M., Sahling H., Pape T., Bohrmann G., Spiess V. (2012) Quantification of gas bubble emissions from submarine hydrocarbon seeps at the Makran continental margin (offshore Pakistan). *Journal of Geophysical Research*. C10015. doi: 10.1029/2011JC007424
35. Römer M., Sahling H., Pape T., Bahr A., Feseker T., Bohrmann G. (2012) Geological control and quantity of gas bubbles emanating from a high-flux seep area in the Black Sea – The Kerch seep area. *Marine Geology* 309-312, 57-74. doi: 10.1016/j.margeo.2012.07.005
34. Henkel S., Nöthen K., Franke C., Bogus K., Robin E., Bahr A., Blumenberg M., Pape T., Seifert R., März C., de Lange G.J., Kasten S. (2012) Diagenetic barium cycling in Black Sea sediments – A case study for anoxic marine environments. *Geochimica et Cosmochimica Acta* 88, 88-105. doi: 10.1016/j.gca.2012.04.021

2011

33. Pape T., Feseker T., Kasten S., Fischer D., Bohrmann G. (2011) Distribution and abundance of gas hydrates in surface deposits of the Håkon Mosby Mud Volcano, SW Barents Sea. *Geochemistry, Geophysics, Geosystems*. 12, Q09009. doi: 10.1029/2011GC003575
32. Petersen J.M., Zielinski F.U., Pape T., Seifert R., Moraru C.L., Amann R., Hourdez S., Girguis P.R., Barbe V., Pelletier E., Fink D., Borowski C., Bach W., Dubilier N. (2011) Hydrogen is an energy source for hydrothermal vent symbioses. *Nature*, 476, 176-180. doi: 10.1038/nature10325
31. Pape T., Bahr A., Klapp S.A., Abegg F., Bohrmann G. (2011) High-intensity gas seepage causes rafting of shallow gas hydrates in the southeastern Black Sea. *Earth and Planetary Science Letters*, 307, 35-46. doi: 10.1016/j.epsl.2011.04.030
30. Reitz A., Pape T., Schmidt M., Haeckel M., Scholz F., Aloisi G., Liebetrau V., Wallmann K., Berner U., Weise S.M. (2011) Sources of fluids and gases expelled at cold seeps offshore Georgia, eastern Black Sea. *Geochimica et Cosmochimica Acta*, 75 (11), 3250-3268. doi: 10.1016/j.gca.2011.03.018

2010

29. Bahr A., Pape T., Abegg F., Bohrmann G., van Weering T., Ivanov M.K. (2010) Authigenic carbonates from the eastern Black Sea as an archive for shallow gas hydrate dynamics - Results from the combination of CT imaging with mineralogical and stable isotope analyses. *Marine and Petroleum Geology*, 27, 1819-1829. doi: 10.1016/j.marpetgeo.2010.08.005
28. Klapp S.A., Murshed M.M., Pape T., Klein H., Bohrmann G., Brewer P.G., Kuhs W. (2010) Mixed gas hydrate structures at the Chapopote Asphalt Volcano, southern Gulf of Mexico. *Earth and Planetary Science Letters*. 299, 207-217. doi: 10.1016/j.epsl.2010.09.001
27. Marbler H., Koschinsky A., Pape T., Seifert R., Weber S., Baker E.T., de Carvalho L.M., Schmidt K. (2010) Geochemical and physical structure of the hydrothermal plume at the ultramafic hosted Logatchev hydrothermal field at 14°45' on the Mid Atlantic Ridge. *Marine Geology*. 271, 187-197. doi: 10.1016/j.margeo.2010.01.012
26. Pape T., Kasten S., Zabel M., Bahr A., Abegg F., Hohnberg H.-J., Bohrmann G. (2010) Gas hydrates in shallow deposits of the Amsterdam mud volcano, Anaximander Mountains, Northeastern Mediterranean Sea. *Geo-Marine Letters*. 30, 187-206. doi: 10.1007/s00367-010-0197-8
25. Pape T., Bahr A., Rettemeyer J., Kessler J.D., Sahling H., Hinrichs K.-U., Klapp S.A., Reeburgh W.S., Bohrmann G. (2010) Molecular and isotopic partitioning of low-molecular weight hydrocarbons during migration and gas hydrate precipitation in deposits of a high-flux seepage site. *Chemical Geology* 269, 350-363. doi: 10.1016/j.chemgeo.2009.10.009
24. Klapp S.A., Bohrmann G., Kuhs W.F., Murshed M.M., Pape T., Klein H., Techmer K.S., Heeschen K.U., Abegg F., (2010) Microstructures of structure I and II gas hydrates from the Gulf of Mexico. *Marine and Petroleum Geology*. 27, 116-125. doi: 10.1016/j.marpetgeo.2009.03.004

2009

23. Feseker T., Pape T., Wallmann K., Klapp S.A., Schmidt-Schierhorn F., Bohrmann G. (2009) The thermal structure of the Dvurechenskii mud volcano and its implications for gas hydrate stability and eruption dynamics. *Marine and Petroleum Geology* 26, 1812-1823. doi: 10.1016/j.marpetgeo.2009.01.021
22. Sahling H., Bohrmann G., Artemov Y.G., Bahr A., Brüning M., Klapp S.A., Klaucke I., Kozlova E., Nikolovska A., Pape T., Reitz A., Wallmann K. (2009) Vodyanitskii Mud Volcano, Sorokin Trough, Black Sea: Geological characterization and quantification of gas bubble streams. *Marine and Petroleum Geology* 1799-1811.

21. Niemann H., Fischer D., Graffe D., Knittel K., Montiel A., Heilmayer O., Nöthen K., Pape T., Kasten S., Bohrmann G., Boetius A., Gutt J. (2009) Biogeochemistry of a low-activity cold seep in the Larsen B area, western Weddell Sea, Antarctica. *Biogeosciences* 6(11), 2383-2395.

20. Bahr A., Pape T., Bohrmann G., Mazzini A., Haeckel M., Reitz A., Ivanov M. (2009) Authigenic carbonate precipitates from the NE Black Sea: a mineralogical, geochemical, and lipid biomarker study. *International Journal of Earth Sciences* 98, 677-695.

2008

19. Abegg F., Hohnberg H.-J., Pape T., Bohrmann G., Freitag, J. (2008) Development and application of pressure core sampling systems for the investigation of gas and gas hydrate bearing sediments. *Deep Sea Research Part I: Oceanographic Research Papers* 55, 1590-1599.

18. Kaesler I., Graeber I., Borchert M.S., Pape T., Dieckmann R., von Döhren H., Nielsen P., Lurz R., Michaelis W., Szewzyk U. (2008) *Spongiispira norvegica* gen. nov., sp. nov., a novel marine bacterium isolated from the boreal sponge *Isops phlegraei*. *International Journal of Systematic and Evolutionary Microbiology* 58, 1815-1820.

17. Pape T., Blumenberg M., Seifert R., Bohrmann G., Michaelis W. (2008) Marine methane biogeochemistry of the Black Sea: A review. In: *Links between geological processes, microbial activities & evolution of life* (eds. Y. Dilek, H. Furnes, K. Muehlenbachs). Springer 281-311

16. Graeber I., Kaesler I., Borchert M.S., Dieckmann R., Pape T., Lurz R., Nielsen P., von Döhren H., Michaelis W., Szewzyk U. (2008) *Spongiibacter marinus* gen. nov., sp. nov., a novel halophilic marine bacterium isolated from the boreal sponge *Haliclona* sp.1. *International Journal of Systematic and Evolutionary Microbiology* 58, 585-590.

15. Wieland A., Pape T., Klock J.-H., Michaelis W. (2008) Carbon pools and isotopic trends in a hypersaline cyanobacterial mat. *Geobiology* 6, 171-186.

2007

14. Borchert M.S., Nielsen P., Graeber I., Kaesler I., Szewzyk U., Pape T., Antranikian G., Schaefer T. (2007) *Bacillus plakortidis* sp. nov., and *Bacillus murimartini* sp. nov., novel alkalitolerant members of rRNA group 6. *International Journal of Systematic and Evolutionary Microbiology* 57, 2888-2893.

13. Perner M., Kuever J., Seifert R., Pape T., Koschinsky A., Schmidt K., Strauss H., Imhoff J.F. (2007) The influence of ultramafic rocks on microbial communities at the Logatchev hydrothermal field, located 15°N on the Mid-Atlantic Ridge. *FEMS Microbiology Ecology* 61, 97-109.

2006

12. Blumenberg M., Krüger M., Nauhaus K., Talbot H.M., Oppermann B.I., Seifert R., Pape T., Michaelis W. (2006) Biosynthesis of hopanoids by sulfate-reducing bacteria (genus *Desulfovibrio*). *Environmental Microbiology* 8(7), 1220-1227.

11. Pape T., Hoffmann F., Queric N.-V., v. Juterzenka K., Reitner J., Michaelis W. (2006) Dense populations of Archaea associated with the hadromerid demosponge *Tentorium semisuberites* from Arctic deep-waters. *Polar Biology* 29(8), 662-667.

2005

10. Pape T., Blumenberg M., Seifert R., Gulin S.B., Egorov V.N., Michaelis W. (2005) Lipid geochemistry of methane-derived Black Sea carbonates. 'Geobiology of ancient and modern methane-seeps' (Eds. J. Peckmann and J.L. Goedert), *Palaeogeography, Palaeoclimatology, Palaeoecology* Special Issue 227, 31-47.

9. Blumenberg M., Seifert R., Nauhaus K., Pape T., Michaelis W. (2005) In vitro study of lipid biosynthesis in an anaerobically methane-oxidizing microbial mat. *Applied and Environmental Microbiology* 71, 4345-4351.

8. Hoffmann F., Larsen O., Thiel V., Rapp H.T., Pape T., Michaelis W., Reitner J. (2005) An anaerobic world in sponges. *Geomicrobiology Journal* 20, 1-10.

2004

7. Pape T., Blumenberg M., Thiel V., Michaelis W. (2003 (2004)) Biphytanes as biomarkers for sponge associated Archaea. In: *Sponge Science in the New Millennium* (Eds. M. Pansini, R. Pronzato, G. Bavestrello, R. Manconi), *Bollettino dei Musei e degli Istituti biologici dell'Università di Genova* 68, 509-515.

6. Hoffmann F., Rapp H.T., Pape T., Peters H., Reitner J. (2004) Sedimentary inclusions in the deep-water sponge *Geodia barretti* (Geodiidae, Demospongiae) from the Korsfjord, Western Norway. *Sarsia*, 89 (4), 245-252.

5. Blumenberg M., Seifert R., Reitner J., Pape T., Michaelis W. (2004) Membrane lipid patterns typify distinct anaerobic methanotrophic consortia. *Proceedings of the National Academy of Sciences of the United States of America*, 101 (30), 11111-11116.

2003

4. Thiel V., Blumenberg M., Pape T., Seifert R., Michaelis W. (2003) Unexpected occurrence of hopanoids at gas seeps in the Black Sea. *Organic Geochemistry*, 34, 81-87.

2002

3. Michaelis W., Seifert R., Nauhaus K., Treude T., Thiel V., Blumenberg M., Knittel K., Gieseke A., Peterknecht K., Pape T., Boetius A., Amann R., Jørgensen B.B., Widdel F., Peckmann J., Pimenov N.V., Gulin M.B. (2002) Microbial reefs in the Black Sea fueled by anaerobic oxidation of methane. *Science*, 297 (5583), 1013-1015.

2. Blumenberg M., Thiel V., Pape T., Michaelis W., (2002) The steroids of hexactinellid sponges. *Naturwissenschaften*, 89, 415-419.

1. Thiel V., Blumenberg M., Hefter J., Pape T., Pomponi S.A., Reed J., Reitner J., Wörheide G., Michaelis W. (2002) A chemical view of the most ancient metazoa - biomarker chemotaxonomy of hexactinellid sponges. *Naturwissenschaften*, 89, 60-66.