

Publication list

Web of Science publication index Jan 2011: 114 items; 3241 citations since 1992,
H index 32, average citation per item 29

Peer-reviewed Journals (sorted chronologically)

1. Boetius, A., Lochte, K. (1994). Regulation of microbial enzymatic degradation of organic matter in deep-sea sediments. **Marine Ecology Progress Series** 104, 299-307
2. Boetius, A. (1995). Microbial hydrolytic enzyme activities in deep-sea sediments. **Helgoländer Meeresuntersuchungen** 49, 177-178
3. Boetius, A., Felbeck, H. (1995). Digestive enzymes in marine invertebrates from hydrothermal vents and other reducing environments. **Marine Biology** 122, 105-113
4. Boetius, A. and K. Lochte (1996) The effect of organic matter composition on hydrolytic potentials and growth of benthic bacteria in deep-sea sediments. **Marine Ecology Progress Series** 140, 235-250
5. Boetius, A., Scheibe, S., Tselepidis, A., Thiel, H. (1996). Microbial biomass and activities in deep-sea sediments of the Eastern Mediterranean: trenches are benthic hotspots. **Deep-Sea Research I** 43, 1439-1460
6. Boetius, A., Lochte, K. (1996) High proteolytic activities of deep-sea bacteria from oligotrophic polar sediments. In: Simon, M., Güde, H. (editors) Sixth International Workshop on Aquatic Microbial Ecology, **Archive of Hydrobiology** 48, 269-276
7. Boetius, A., Damm, E. (1998) Benthic oxygen uptake, hydrolytic potentials and microbial biomass at the Arctic continental slope. **Deep-Sea Research I** 45, 239-275

8. Pfannkuche, O., Boetius, A., Lochte, K., Lundgreen, U., Thiel, H. (1999) Responses of deep-sea benthos to unusual sedimentation patterns in the Northeast Atlantic in 1992. **Deep-Sea Research I** 46, 573-596
9. Boetius A., Lochte K. (2000) Regional variation of total microbial biomass in sediments of the deep Arabian Sea. **Deep-Sea Research II** 47, 149-168.
10. Christiansen, B., Boetius, A. (2000) Mass sedimentation of the swimming crab *Charybdis smithii* (Crustacea: Decapoda) in the deep Arabian Sea. **Deep Sea Research II** 47, 2673-2685.
11. Boetius, A., Ferdelmann, T., Lochte, K. (2000) Bacterial activity in sediments of the deep Arabian Sea in relation to vertical flux. **Deep Sea Research II** 47, 2835-2875.
12. Boetius, A., Springer, B., Petry, C. (2000) Microbial activity and particulate matter in the benthic nepheloid layer (BNL) of the deep Arabian Sea. **Deep Sea Research II** 47, 2687-2706.
13. Boetius, A., Ravensschlag, K., Schubert, C., Rickert, D., Widdel, F., Gieseke, A., Amann, R., Jørgensen, B.B., Witte, U., Pfannkuche, O. (2000) A marine microbial consortium apparently mediating anaerobic oxidation of methane. **Nature** 407, 623-626.
14. Nauhaus K, Boetius A, Krüger M, Widdel F (2002) In vitro demonstration of anaerobic oxidation of methane coupled to sulphate reduction in sediment from a marine gas hydrate area. **Environmental Microbiology** 4(5), 296-305
15. Smith KL, Baldwin RB, Karl DM, Boetius A (2002) Benthic community responses to pulses in pelagic food supply: North Pacific subtropical gyre. **Deep-Sea Research I** 49, 971-990

16. 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 BB, Widdel F, Peckmann J, Pimenov NV, Gulin MB (2002) Microbial Reefs in the Black Sea Fueled by Anaerobic Oxidation of Methane, **Science** 297, 1013-1015
17. Hensen C., Zabel M., Pfeifer K., Schwenk T., Kasten S., Riedinger N, Schulz A., Boetius A. (2003) Control of sulfate pore-water profiles by sedimentary events and the significance of anaerobic oxidation of methane for the burial of sulfur in marine sediments. **Geochimica et Cosmochimica Acta** 67, (14)
18. Elvert M, Boetius A, Knittel K, Jørgensen BB (2003). Characterization of specific membrane fatty acids as chemotaxonomic markers for sulfate-reducing bacteria of the genus *Desulfosarcina/Desulfococcus* involved in anaerobic oxidation of methane. **Geomicrobiology Journal** 20, 403-419
19. Knittel, K., Boetius, A., Lemke, A., Eilers, H., Lochte, K., Pfannkuche, O., Linke, P., and Amann, R. (2003) Activity, distribution, and diversity of sulfate reducers and other bacteria above gas hydrate (Cascadia Margin, OR). **Geomicrobiology Journal** 20, 269-294
20. Witte U., Wenzhöfer F., Sommer S., Boetius A., Heinz P., Pfannkuche O., Aberle N., Sand M., Cremer A., Abraham W.R., Jørgensen B.B. (2003) In situ experimental evidence of the fate of a phytodetritus pulse at the abyssal seafloor. **Nature** 424, 763-766
21. Treude, T, Boetius, A, Knittel, K, Wallmann, K, Jørgensen, BB (2003). Anaerobic oxidation of methane above gas hydrates at Hydrate Ridge, NE Pacific. **Marine Ecology Progress Series** 264:1-14
22. Kallmeyer, J and Boetius A. (2004) The effects of temperature and pressure on rates of sulfate reduction and anaerobic oxidation of methane in hydrothermal deep-sea sediments of Guaymas Basin. **Applied and**

Environmental Microbiology 70, 2:1231-1233

23. Joye, SB, Boetius, A, Orcutt, BN, JP Montoya, Schulz, HN, Erickson, MJ, Lugo S. (2004) The anaerobic oxidation of methane and sulfate reduction in sediments from Gulf of Mexico cold seeps. **Chemical Geology** 205, 219-238
24. Orcutt, BN, Boetius, A, Lugo, S., MacDonald, IR, Samarkin, VA. (2004) Life at the Edge of Methane Ice: Microbial Cycling of Carbon and Sulfur in Gulf of Mexico Gas Hydrates. **Chemical Geology** 205, 239-251
25. Boetius A., Suess E. (2004) Hydrate Ridge: A natural laboratory for the study of microbial life fueled by methane from near-surface gas hydrates. **Chemical Geology** 205, 291-310
26. Knittel, K., Lösekann, T., Boetius, A., Kort, R., and Amann, R. 2005. Diversity and distribution of methanotrophic archaea at cold seeps. **Applied and Environmental Microbiology** 71: 467-479.
27. Nauhaus K, Treude T, Boetius A, Krüger M. (2005) Environmental regulation of the anaerobic oxidation of methane: a comparison of ANME-I and ANME-II communities. **Environmental Microbiology** 7(1), 98-106
28. Wild C, Rasheed M, Jantzen C, Cook P, Struck U, Huettel M, Boetius A (2005) Benthic metabolism and degradation of natural particulate organic matter in carbonate and silicate reef sands of the Northern Red Sea. **Mar Ecol Prog Ser**, 298, 69-78
29. Krüger M, Treude T, Wolters H, Nauhaus K, Boetius A (2005) Microbial methane turnover in different marine habitats. **Palaeogeography, Palaeoclimatology, Palaeoecology** 227: 6-17
30. Orcutt B, Joye SB, Boetius A, Elvert M, Samarkin V (2005). Molecular biogeochemistry of sulfate reduction, methanogenesis and the anaerobic

- oxidation of methane at Gulf of Mexico cold seeps. *Geochimica et Cosmochimica Acta*, 69, 4267-4281.
31. Treude T, Knittel K, Blumenberg M, Seifert R, Boetius A (2005) Subsurface microbial methanotrophic mats in the Black Sea. *AEM* 71: 6375-6378
32. Tarpgaard I, Boetius A and Finster K (2005) *Desulfobacter psychrotolerans* sp. nov., a new psychrotolerant sulfate-reducing bacterium and descriptions of its physiological response to temperature changes. *Antonie van Leeuwenhoek* DOI 10.1007/s10482-005-9014-1
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35. de Beer, D., Sauter, E., Niemann, H., Witte, U. & Boetius, A. 2006. In situ fluxes and zonation of microbial activity in surface sediments of the Håkon Mosby Mud Volcano. *Limnology and Oceanography* 51(3): 1315-1331.
36. Sauter, E., Muyakshin S.I., Charlou J.L., Schlüter M, Boetius A, Jerosch K, Damm E, Foucher JP, Klages M (2006) Methane discharge from a deep-sea submarine mud volcano into the upper water column by gas hydrate-coated methane bubbles. *Earth and Planetary Science Letters* 243: 354-365.
37. Inagaki F, Kuypers MM, Tsunogai U, Ishibashi J, Nakamura K, Treude T, Ohkubo S, Nakaseama M, Gena K, Chiba H, Hirayama H, Nunoura T, Takai K, Jørgensen BB, Horikoshi K, Boetius A (2006) Microbial community in a sediment-hosted CO₂ lake of the southern Okinawa Trough hydrothermal system. *PNAS* 103 (38), 13899-13900

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39. Niemann H, Lösekann T, de Beer D, Elvert M, Nadalig T, Knittel K, Amann R, Sauter EJ, Schlüter M, Klages M, Foucher JP, Boetius A (2006) Novel microbial communities of the Haakon Mosby mud volcano and their role as methane sink. *Nature*, (443) 854-858
40. Nauhaus K., Albrecht M., Elvert M., Boetius A., Widdel F. (2007) In Vitro cell growth of marine archaeal-bacterial consortia by anaerobic oxidation of methane with sulphate. *Environmental Microbiology*, 9(1), 187–196
41. Treude T, Orphan V, Knittel K, Gieseke A, Boetius A (2007) Consumption of methane and CO₂ by methanotrophic microbial mats from gas seeps of the anoxic Black Sea. *Applied and Environmental Microbiology* 73(7), 2271-2283
42. Lösekann T, Knittel K, Nadalig T, Fuchs B, Niemann H, Boetius A and Amann R (2007) Diversity and Abundance of Aerobic and Anaerobic Methane Oxidizers at the Haakon Mosby Mud Volcano, Barents Sea. *Applied and Environmental Microbiology*, AEM 73(10), 3348-3362
43. Preisler A., DeBeer D., Lichtschlag A., Larvik G. Boetius A., Joergensen B, (2007) Biological and chemical sulfide oxidation in a *Beggiatoa* inhabited sediment. *ISME Journal* 1-13
44. Dupré, S. et al., 2007. Seafloor geological studies above active gas chimneys off Egypt (Central Nile Deep Sea Fan). *Deep Sea Research Part I: Oceanographic Research Papers*, 54: 1146-1172.

45. Jørgensen BB, Boetius A, 2007. Feast and famine – microbial life in the deep-sea bed. *Nature Microbiology Reviews*, 5, 770-781
46. Omoregie EO, Mastalerz V, de Lange G, Straub KL, Kappler A, Røy H, Stadnitskaia A, Foucher JP, Boetius AB (2008). Biogeochemistry and Community Composition of Iron- and Sulfur-Precipitating Microbial Mats at the Chefren Mud Volcano (Nile Deep Sea Fan, Eastern Mediterranean). *Appl Environ Microbiol* 74 (10): 3198–3215
47. Orcutt, B., V. Samarkin, A. Boetius, S. Joye. (2008). On the relationship between methane production and oxidation by anaerobic methanotrophic communities from cold seeps of the Gulf of Mexico. *Environmental Microbiology* 10(5), 1108–1117
48. Wegener G, Niemann H, Elvert M, Hinrichs K-U, Boetius A (2008) Assimilation of methane and inorganic carbon by microbial communities mediating the anaerobic oxidation of methane. *Environ Microbiol* 10 (9), 2287–2298
49. Rossel, P.E., Lipp, J.S., Fredricks, H.F., Arnds, J.A., Boetius, A., Elvert, M., Hinrichs, K.-U., 2008. Intact polar lipids of anaerobic methanotrophic archaea and associated bacteria. *Organic Geochemistry*,
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51. Lösekann T, Robador A, Niemann H, Knittel K, Boetius A, Dubilier N. 2008. Endosymbioses between bacteria and deep-sea siboglinid tubeworms from an Arctic cold seep (Haakon Mosby Mud Volcano, Barents Sea). *Environ. Microbiol.* 10.1111/j.1462-2920.2008.01712.x

52. Dupré, S., Buffet, G., Mascle, J., Foucher, J.-P., Gauger, S., Boetius, A., Marfia, C., the AsterX AUV Team, the Quest ROV Team and the BIONIL Scientific Party, 2008. High-resolution mapping of large gas emitting mud volcanoes on the Egyptian continental margin (Nile Deep Sea Fan) by AUV surveys. *Marine Geophysical Researches*, 29: 275-290. doi:10.1007/s11001-009-9063-3
53. Foucher, JP; Westbrook, GK; Boetius, A; Ceramicola, S; Dupre, S; Mascle, J; Mienert, J; Pfannkuche, O; Pierre, C; Praeg, D (2009) Structure and Drivers of Cold Seep Ecosystems, *OCEANOGRAPHY* 22 (1): 92-109 Sp. Iss. SI MAR
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55. Boetius, A; Wenzhofer, F (2009) In Situ Technologies for Studying Deep-Sea Hotspot Ecosystems, *OCEANOGRAPHY* 22 (1): 177-177 Sp. Iss. SI MAR
56. Weaver, PPE; Boetius, A; Danovaro, R; Freiwald, A; Gunn, V; Heussner, S; Morato, T; Schewe, I; van den Hove, S (2009) The Future of Integrated Deep-Sea Research in Europe: The HERMIONE Project; *OCEANOGRAPHY* 22 (1): 178-191 Sp. Iss. SI MAR
57. Schöttner S, Hoffmann F, Wild C, Rapp HT, Boetius A, Ramette A (2009) Inter- and intra-habitat bacterial diversity associated with cold-water corals. *ISME* 3 (6): 756-759
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and community structure in subtidal sands. ISME

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62. Huguen, C., J.-P. Foucher, J. Mascle, H. Ondréas, M. Thouement, S. Gontharet, A. Stadnitskaia, C. Pierre, G. Bayon, L. Loncke, A. Boetius, I. Bouloubassi, G. De Lange, J.-C. Caprais, Y. Fouquet, M. Woodside J., S. Dupré and the NAUTINIL Scientific Party. 2009. Menes caldera, a highly active site of brine seepage in the Eastern Mediterranean Sea: "In situ" observations from the NAUTINIL expedition (2003). *Marine Geology*. 261:138-152.
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70. Lichtschlag, A, Felden J, Brüchert, V, Boetius, A, deBeer D (2010) Geochemical processes and chemosynthetic primary production in different thiotrophic mats of the Håkon Mosby Mud Volcano (Barents Sea). *Limnology and Oceanography* 55/2: 931-949
71. Girnth AC, Grünke S, Lichtschlag A, Felden J, Knittel K, Wenzhöfer F, deBeer D, Boetius A (2010) A novel, mat-forming Thiomargarita population associated with a sulfidic fluid flow from a deep-sea mud

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74. Santillano D et al. (2010) Development of a *dsrA*-based Fingerprinting Strategy to Enable High-throughput Analysis of Sulfate-Reducing Microbial Guilds. *AEM* 76 (15), 5308–5311
75. Lichtschlag A, Felden J, Wenzhöfer F, Schubotz F, Ertefai T, Boetius A, deBeer D (2010) Methane and sulfide fluxes in permanent anoxia: in situ studies at the Dvurechenskii mud volcano (Sorokin Trough, Black Sea) *Geochimica Cosmochimica Acta* 74, 5002-5018
76. Orcutt BN, Samantha BJ, Kleindienst S, Knittel K, Ramette A, Reitz A, Samarkin V, Treude T, and Boetius A (2010) Impact of natural oil and higher hydrocarbons on microbial diversity, distribution and activity in Gulf of Mexico cold seep sediments. *Deep-Sea Research II*, 57:2008–2021
77. Wei C-L, Rowe GT, Escobar-Briones E, Boetius A, Soltwedel T, et al. (2010) Global Patterns and Predictions of Seafloor Biomass Using Random Forests. *PLoS ONE* 5(12): e15323. doi:10.1371/journal.pone.0015323
78. Schubert CJ, Vazquez F, Lösekann T, Knittel K, Tonolla M, Boetius A (2011) Evidence for anaerobic oxidation of methane in sediments of a

freshwater system (Lago di Cadagno) FEMSEC DOI:10.1111/j.1574-6941.2010.01036.x

Manuscripts in press/accepted/in review

Rossel P, Elvert M, Ramette A, Boetius A, Hinrichs KU, 2010. Factors controlling the distribution of anaerobic methanotrophic communities in marine environments: Evidence from intact polar membrane lipids. GCA, in press

Knittel K, Boetius A. (2011). Anaerobic oxidation of methane. In: Thiel V, Reitner J. (eds). Encyclopedia of Geobiology. Springer, Berlin Heidelberg New York (in press)

Gruenke, S. et al. (accepted) Niche differentiation among mat-forming, sulfide-oxidizing bacteria at cold seeps of the Nile Deep Sea Fan (Eastern Mediterranean Sea). Geobiology

Ritt B et al. (in review) Diversity and distribution of cold-seep fauna associated with mud volcanoes and pockmarks in the Nile Deep-Sea Fan. Mar. Biol.

Schöttner et al. (in review) Bacterial diversity dynamics in permeable carbonate and silicate coral reef sands from the Red Sea. Environmental Microbiology. ID EMI-2010-1140

Book Chapters (peer-reviewed)

1. Lochte, K., Boetius, A., Petry, C. (2000) Microbial food webs under severe nutrient limitations: life in the deep sea. In: Bell, C.R., Brylinsky, M., Johnson-Green, P. (eds.) Microbial Biosystems: New Frontiers. Proceedings of the 8th International Symposium on Microbial Ecology. Atlantic Canada Society for Microbial Ecology, Halifax, Canada. pp. 95-102.

2. Hinrichs KU, Boetius AB (2002) The anaerobic oxidation of methane: new insights in microbial ecology and biogeochemistry. In Ocean Margin Systems. Wefer, G., Billett, D., Hebbeln, D., Jørgensen, B.B., Schlüter, M., and van Weering, T. (eds), Heidelberg: Springer-Verlag, p. 457-477
3. Boetius A., B.B. Jørgensen, R. Amann, J.P. Henriot, K.-U. Hinrichs, K. Lochte, B.J. MacGregor and G. Voordouw (2002) Microbial Systems in Sedimentary Environments of Continental Margins, In Ocean Margin Systems. Wefer, G., Billett, D., Hebbeln, D., Jørgensen, B.B., Schlüter, M., and van Weering, T. (eds), Heidelberg: Springer-Verlag, p. 479-495
4. Niemann H., Boetius A. (2010) Mud Volcanoes. In: Timm K (Ed.) Handbook of Hydrocarbon and Lipid Microbiology, Springer, Part 3 Transfer from the Geosphere to Biosphere, 205-214
5. Knittel K., Boetius A. (2010). Anaerobic Methane Oxidizers. In: Timm K (Ed.) Handbook of Hydrocarbon and Lipid Microbiology, Springer, Part 19 The Microbes (6): 2194-2202
6. Boetius A. Knittel K. (2010). Habitats of anaerobic methane oxidizers. In: Timm K Handbook of Hydrocarbon and Lipid Microbiology, Springer, Part 21 Microbial Communities Based on Hydrocarbons, Oils and Fats: Natural Habitats. 2193-2199
7. Boetius A, Wenzhöfer F (2010) Methods for the study of cold seep ecosystems. In: Timm K Handbook of Hydrocarbon and Lipid Microbiology, Springer, Part 31 Experimental Protocols and Appendices, 3443-3451
8. Amaral-Zettler L, Artigas LF, Baross J, Bharathi PAL, Boetius A, Chandramohan D, Herndl G, Kogure K, Neal P, Pedrós-Alió C, Ramette A, Schouten S, Stal L, Thessen A, de Leeuw J, Sogin ML (2010) A Global Census of Marine Microbes. In 'Life in the World's Oceans' (Ed. AD McIntyre), Blackwell Publishing

Book Chapters and Journals (not reviewed)

- Boetius A (2010) Vorbild Anglerfisch - Warum Frauen selten an die Spitze kommen, ist kaum untersucht. Tagesspiegel POSITIONEN, 6.10.10
- Boetius A (2010) Winzige Helfer gegen die Pest. DFG *forschung* 3/10: 4-9
- Boetius A, Bienhold C, Schöttner S, Ufkes J, Ramette A (2009) Fingerabdrücke mikrobieller Gemeinschaften im Meer. *Biospektrum* 7: 726-729
- Boetius, A; Joye, S (2009) Thriving in Salt. *SCIENCE* 324 (5934): 1523-1525
- Boetius A, Holler T, Knittel K, Felden J, Wenzhöfer F (2008) The Seabed as Natural Laboratory: Lessons From Uncultivated Methanotrophs. *Microbiol Monogr*, doi:10.1007/7171_2008_15 1. Springer-Verlag Berlin Heidelberg
- Boetius, A., Priede I.G., Mevel C. 2007. Infrastructure and critical technology. In: *The Deep Sea Frontier – Science Challenges for a sustainable future*. ISBN 978-92-79-05266-8. European Communities
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- Boetius A (2005) Microfauna – macrofauna interaction in the seafloor: lessons from the tubeworm. *PLOS Biology*, Vol 3(3) 0375-0378
- Grahl, C., Boetius, A., Nöthig, E.-M. (1999) Pelagic-benthic coupling in the Laptev Sea affected by sea ice. In: Kassens, H., H.A. Bauch, I. Dmitrenko, H. Eicken, H.-W. Hubberten, M. Melles, J. Thiede and L. Timokhov (eds.) *Land-Ocean Systems in the Siberian Arctic: Dynamics and History*. Springer-Verlag, Berlin, 1998, 143-152
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- Ramette A, Tiedje JM, Boetius A (2009) Impact of space, time and complex

environments on microbial communities. *Clinical Microbiology and Infection*
15(s1):60-62

Weaver P, Billet DM, Boetius A, Danovaro R, Freiwald A, Sibuet M (2004)
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