

Alex Hartwig

Publication List

Six publications with major impact for the work of GEOS4

- Hartwig, A., Rinna, J., Skeie, J. E., Løken, L. H., Hals, T. K., Ahokas, J., Overly, P. E., Lawson, M. & Renard, S. (2023) Prediction and post-well analysis of H₂S generation and drilling risks in the Barents Sea Paleozoic play. 84th EAGE Annual Conference & Exhibition, 2023, 1, 1-5. European Association of Geoscientists & Engineers. <https://doi.org/10.3997/2214-4609.2023101140>
- Ziegs, V., Pötz, S., Mangelsdorf, K., Horsfield, B., Hartwig, A., Rinna, J., & Skeie, J. E. (2021) Oil-Oil Correlation and Filling Modes of the Valhall Field in the Central Graben, North Sea. 82nd EAGE Annual Conference & Exhibition, 2021, 1, 1-5. European Association of Geoscientists & Engineers. <https://doi.org/10.3997/2214-4609.202011612>
- Koopmann, H., Franke, D., Schreckenberger, B., Schulz, H., Hartwig, A., Stollhofen, H. & di Primio, R. (2014) Segmentation and volcano-tectonic characteristics along the SW African continental margin, South Atlantic, as derived from multichannel seismic and potential field data. *Marine and Petroleum Geology*, 50, 22-39. <https://doi.org/10.1016/j.marpetgeo.2013.10.016>
- Maystrenko, Y., Scheck-Wenderoth, M., Hartwig, A., Anka, Z., Wafs, A. B., Hirsch, K. & Fishwick, S. (2013) Structural features of the Southwest African continental margin according to results of lithosphere-scale 3D gravity and thermal modelling. *Tectonophysics*, 604, 104-121. <https://doi.org/10.1016/j.tecto.2013.04.014>
- Hartwig, A, di Primio, R., Anka, Z. & Horsfield, B. (2012) Source rock characteristics and compositional kinetic models of Cretaceous organic rich black shales offshore southwestern Africa. *Organic Geochemistry*, 51, 17-34. <https://doi.org/10.1016/j.orggeochem.2012.07.008>
- Hartwig, A. & Schulz, H.-M. (2010) Applying classical shale gas evaluation concepts to Germany - Part I: The basin and slope deposits of the Stassfurt Carbonate (Ca₂, Zechstein, Upper Permian) in Brandenburg. *Chemie der Erde - Geochemistry*, 70, S3, 77-91. <https://doi.org/10.1016/j.chemer.2010.05.012>

Peer reviewed articles in the order of publication date

2023

- Hartwig, A., Rinna, J., Skeie, J. E., Løken, L. H., Hals, T. K., Ahokas, J., Overly, P. E., Lawson, M. & Renard, S. (2023) Prediction and post-well analysis of H₂S generation and drilling risks in the Barents Sea

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Paleozoic play. 84th EAGE Annual Conference & Exhibition, Vol. 2023, No. 1, 1-5. European Association of Geoscientists & Engineers. <https://doi.org/10.3997/2214-4609.2023101140>

2022

Han, Y, Noah, M., Lüders, V., Hartwig, A., Rinna, J., Skeie, J.E., Horsfield, B. & Mangelsdorf, K. (2022) Geochemical characteristics of inclusion oils from the Skarv field A segment and their implications for the oil charge and leakage history. *Marine and Petroleum Geology* 137, 105506. <https://doi.org/10.1016/j.marpetgeo.2021.105506>

2021

Ziegs, V., Pötz, S., Mangelsdorf, K., Horsfield, B., Hartwig, A., Rinna, J., & Skeie, J. E. (2021) Oil-Oil Correlation and Filling Modes of the Valhall Field in the Central Graben, North Sea. 82nd EAGE Annual Conference & Exhibition, Vol. 2021, No. 1, 1-5. European Association of Geoscientists & Engineers. <https://doi.org/10.3997/2214-4609.202011612>

2019

Mosesyan, M. A., Hartwig, A., Edin, K. M., Rabey, A. S. & Surguchev, L. M. (2019) The Barents Sea of the Norwegian Continental Shelf: drilling through carbonates, modelling, risk management and well planning. In *IOP Conference Series: Materials Science and Engineering*, 700, 1, 012048. <https://doi.org/10.1088/1757-899X/700/1/012048>

2018

Ziegs, V., Noah, M., Poetz, S., Horsfield, B., Hartwig, A., Rinna, J. & Skeie, J. E. (2018) Unravelling maturity- and migration-related carbazole and phenol distributions in Central Graben crude oils. *Marine and Petroleum Geology*, 94, 114-130. <https://doi.org/10.1016/j.marpetgeo.2018.03.039>

Ziegs, V., Poetz, S., Horsfield, B., Rinna, J., Hartwig, A. & Skeie, J. E. (2018) Deeper insights into oxygen-containing compounds of the Mandal Formation, Central Graben, Norway. *Energy & Fuels*, 32, 12, 12030-12048. <https://doi.org/10.1021/acs.energyfuels.8b01647>

2014

Koopmann, H., Franke, D., Schreckenberger, B., Schulz, H., Hartwig, A., Stollhofen, H. & di Primio, R. (2014) Segmentation and volcano-tectonic characteristics along the SW African continental margin,

South Atlantic, as derived from multichannel seismic and potential field data. *Marine and Petroleum Geology*, 50, 22-39. <https://doi.org/10.1016/j.marpetgeo.2013.10.016>

2013

Maystrenko, Y., Scheck-Wenderoth, M., Hartwig, A., Anka, Z., Wafs, A. B., Hirsch, K. & Fishwick, S. (2013) Structural features of the Southwest African continental margin according to results of lithosphere-scale 3D gravity and thermal modelling. *Tectonophysics*, 604, 104-121. <https://doi.org/10.1016/j.tecto.2013.04.014>

2012

Hartwig, A., Anka, Z. & di Primio, R. (2012) Evidence of a widespread paleo-pockmarked field in the Orange Basin: An indication of an early Eocene massive fluid escape event offshore South Africa. *Marine Geology*, 332-334, 222-234. <https://doi.org/10.1016/j.margeo.2012.07.012>

Hartwig, A., di Primio, R., Anka, Z. & Horsfield, B. (2012) Source rock characteristics and compositional kinetic models of Cretaceous organic rich black shales offshore southwestern Africa. *Organic Geochemistry*, 51, 17-34. <https://doi.org/10.1016/j.orggeochem.2012.07.008>

2010

Hartwig, A. & Schulz, H.-M. (2010) Applying classical shale gas evaluation concepts to Germany - Part I: The basin and slope deposits of the Stassfurt Carbonate (Ca₂, Zechstein, Upper Permian) in Brandenburg. *Chemie der Erde - Geochemistry*, 70, S3, 77-91. <https://doi.org/10.1016/j.chemer.2010.05.012>

Oral and poster presentations in the order of publication date

2023

Hartwig, A., Rinna, J., Skeie, J. E., Løken, L. H., Hals, T. K., Ahokas, J., Overly, P. E., Lawson, M. & Renard, S. (2023) Prediction and post-well analysis of H₂S generation and drilling risks in the Barents Sea Paleozoic play. 84th EAGE Annual Conference & Exhibition, Vol. 2023, No. 1, 1-5. European Association of Geoscientists & Engineers. <https://doi.org/10.3997/2214-4609.2023101140>

2022

Hartwig, A., Rinna, J., Skeie, J. E., Hege, L. & Overli, P. (2022) H₂S prediction in a Barents Sea frontier setting - Risking scheme and challenges. FORCE Petroleum System Conference, Stavanger (Oral presentation)

Schmid, D., Iyer, K. & Hartwig, A. (2022) The right maturity model for the Norwegian North Sea, FORCE Petroleum System Conference, Stavanger (Oral presentation)

2021

Laigle, J-M, Roller, E. & Hartwig, A. (2021) Sensitivity analysis of Plio-Pleistocene glacial erosion timing and magnitude on the Maloy Slope, North Sea, using an AI-based basin simulator. DIGEX 2021, Oslo (Oral presentation)

Stoddart, D., Mosser, L., Hartwig, A. & Aursand, P. (2021) TOC prediction using machine learning - a case study from offshore Norway. Second EAGE Workshop on Machine Learning (2021, 1, 1-2). European Association of Geoscientists & Engineers (Oral presentation) <https://doi.org/10.3997/2214-4609.202132016>

Ziegs, V., Pötz, S., Mangelsdorf, K., Horsfield, B., Hartwig, A., Rinna, J., & Skeie, J. E. (2021) Oil-Oil Correlation and Filling Modes of the Valhall Field in the Central Graben, North Sea. 82nd EAGE Annual Conference & Exhibition, 2021, 1, 1-5. European Association of Geoscientists & Engineers. (Oral presentation) <https://doi.org/10.3997/2214-4609.202011612>

2019

Ziegs, V., Pötz, S., Mahlstedt, N., Horsfield, B., Hartwig, A., Rinna, J. & Skeie, J. E. (2019) Using polar NSO compounds to improve our understanding of reservoir geochemistry—A case study from Valhall, Norway. 29th International Meeting on Organic Geochemistry (IMOG), Gothenburg, Sweden. (Oral presentation) <https://doi.org/10.3997/2214-4609.201902787>

2018

Ahokas, J., Hartwig, A., Kjosnes, O., Overli, P. E., Vassmyr, S., Skeie, J. E. & Kristensen, J. B. (2018) Paleozoic Carbonate Play in the Norwegian Barents Sea Shelf. 80th EAGE Conference and Exhibition 2018, 2018, 1 - 5. European Association of Geoscientists & Engineers (Oral presentation) <https://doi.org/10.3997/2214-4609.201801085>

Hartz, E. H., Medvedev, S., Schmid, D., Faleide, J. I., Iyer, K., Scheirer, A. H. & Hartwig, A. (2018) Geodynamic gamechangers in petroleum system models. 80th EAGE Conference and Exhibition 2018, 2018, 1 - 5. European Association of Geoscientists & Engineers (Oral presentation) <https://doi.org/10.3997/2214-4609.201801042>

- Mosesyan, M. A., Alexander, H., Edin, K. M., Surguchev, L. M. & Rabey, A. (2018) The Barents Sea of the Norwegian Continental Shelf: Drilling through Carbonates if Hydrogen Sulphide is Present: Modelling. Risk Management. Well Planning. First EAGE/IPEN Conference on Sulfur Risk Management in Exploration and Production, Sep 2018, cp-565-00013. European Association of Geoscientists & Engineers. (Oral presentation) <https://doi.org/10.3997/2214-4609.201802766>
- Rinna, J., Ulas, M., van Graas, G., Hartwig, A. & Skeie, J. E. (2018) Direct and Online Offshore Surface Geochemical Analysis: A Viable RISKING Tool? 80th EAGE Conference and Exhibition 2018, 2018, 1 - 5. European Association of Geoscientists & Engineers (Oral presentation) <https://doi.org/10.3997/2214-4609.201801592>

2014

- Hartwig, A., Jacobi, D. J., Perfefa, P. J. & Walters, G. M. (2014) Improved Prediction of Source Rock Maturity in Liquid-rich Unconventional Plays with 3D Basin Modeling. 76th EAGE Conference and Exhibition 2014, 2014, 1 - 5. Amsterdam, Netherlands (Extended Abstract, Oral presentation) <https://doi.org/10.3997/2214-4609.20140686>

2012

- Hartwig, A., Anka, Z., di Primio, R. & Albrecht, T. (2012) 3D Petroleum System Modeling of the Orange Basin, Offshore South Africa, AAPG 2012, Long Beach, CA, USA. (Abstract, Oral presentation)
- Hartwig, A., di Primio, R. & Anka, Z. (2012) 3D Petroleum System Modeling of the Orange Basin, offshore South Africa. SAMPLE SPP Colloquium 2012, Tutzingen, Germany. (Abstract, Poster)
- Koopmann, H., Hartwig, A., Schulz, H., Schreckenberger, B. & Franke, D. (2012) New findings on the aspect of margin segmentation along the South African margin. EGU General Assembly 2012. Vienna, Austria. (Abstract, Poster)

2011

- Hartwig, A., Anka, Z., di Primio, R. & Albrecht, T. (2011) Wide-spread pockmarked surface: evidence for a Paleogene massive fluid escape event in the Orange Basin, South Africa. SAMPLE SPP Colloquium 2012. Potsdam, Germany. (Abstract, Poster)
- Hartwig, A., Anka, Z., di Primio, R. & Albrecht, T. (2011) Wide-spread pockmarked surface: evidence for a Paleogene massive fluid escape event in the Orange Basin, South Africa. EGU 2011. Vienna, Austria. (Abstract, Oral presentation)
- Hartwig, A. & di Primio, R. (2011) Source rock characteristics of organic-rich black shales offshore southwestern Africa. IMOG 2011, Interlaken, Switzerland. (Abstract, Poster)

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Maystrenko, Y. P., Scheck-Wenderoth, M., Hartwig, A., Anka, Z., Wafs, A. B. & Hirsch, K. (2011) 3D structural model of the West African continental margin. EGU 2011. Vienna, Austria. (Abstract, Poster)
<https://meetingorganizer.copernicus.org/EGU2011/EGU2011-5583.pdf>

2010

Hartwig, A., Boyd, D., Kuhlmann, G., Adams, S., Campher, C., Anka, Z., di Primio, R. & Albrecht, T. (2010) Characterization of Hydrocarbon Generation and Migration Dynamics Based on Seismic Interpretation and Basin Modeling: an Integrated Study of the Orange Basin, South Africa. AAPG ICE Calgary. Calgary, Canada. (Abstract, Poster)
https://www.searchanddiscovery.com/abstracts/pdf/2010/intl/abstracts/ndx_hartwig.pdf

Hartwig, A., Boyd, D., Kuhlmann, G., Adams, S., Campher, C., Anka, Z., di Primio, R., Albrecht, T. & Singh, V. (2010) Modeling hydrocarbon generation and migration dynamics of the Orange Basin, South Africa. SAMPLE SPP Colloquium 2010. Kiel, Germany. (Abstract, Poster)

2009

Hartwig, A., Könitzer, S., Schulz, H.-M. & Horsfield, B. (2009) Investigations of the shale gas potential in NE Germany. EGU2009-8849. EGU 2009, Vienna, Austria. (Abstract, Poster)