

Shengyu Yang

Publication List

Three publications with major impact for the work of GEOS4

Yang, S., Horsfield, B., Mangelsdorf, K., Primio, R.D., Rinna, J., Hartwig, A., Martín-Monge, A., Antonio Tocco, R. & Elias, R., Pristine Biomarker Compositions Recovered from Biodegraded Oil Samples Using Mssv-Hy. *Marine and Petroleum Geology*, 106713, <https://doi.org/10.1016/j.marpetgeo.2024.106713>

Yang, S.Y., Horsfield, B., Mangelsdorf, K., Rinna, J., Hartwig, A., di Primio, R., Martin-Monge, A., Tocco, R.A. & Elias, R. (2022) Corroborative insights into genetically related kerogen, asphaltenes and hydrocarbons using free and bound biomarkers. *International Journal of Coal Geology*, 261, 104080. <https://doi.org/10.1016/j.coal.2022.104080>

Yang, S., Horsfield, B., Karger, C., Perssen, F., Wu, L. & Mangelsdorf, K. (2021) Release of bound biomarkers using microscale sealed vessel catalytic hydrogenation. *Energy & Fuels*, 35, 14499-14509. <https://doi.org/10.1021/acs.energyfuels.1c01244>

Publications in the order of publication date

2024

Yang, S., Horsfield, B., Mangelsdorf, K., Primio, R.D., Rinna, J., Hartwig, A., Martín-Monge, A., Antonio Tocco, R. & Elias, R., Pristine Biomarker Compositions Recovered from Biodegraded Oil Samples Using Mssv-Hy. *Marine and Petroleum Geology*, 106713, <https://doi.org/10.1016/j.marpetgeo.2024.106713>

2023

Waples, D.W. & Yang, S. (2023) A method for assigning pre-exponential factors for kerogen kinetics, calibrated with Easy% RoDL, and comparison with EASY% Ro. *Advances in Geo-Energy Research*, 7, 1-6. <https://doi.org/10.46690/ager.2023.01.01>

2022

- Yang, S.Y., Horsfield, B., Mangelsdorf, K., Rinna, J., Hartwig, A., di Primio, R., Martin-Monge, A., Tocco, R.A., & Elias, R. (2022) Corroborative insights into genetically related kerogen, asphaltenes and hydrocarbons using free and bound biomarkers. *International Journal of Coal Geology*, 261, 104080. <https://doi.org/10.1016/j.coal.2022.104080>
- Poetz, S., Liu, Y., Magnall, J.M., Vieth-Hillebrand, A., Yang, S., Göthel, M., Gleeson, S.A. & Schulz, H.-M. (2022) Signals of low grade organic matter alteration in the Upper Permian Kupferschiefer (Spremberg area, Eastern Germany) – A by-product of copper mineralization? *Organic Geochemistry*, 169. <https://doi.org/10.1016/j.orggeochem.2022.104421>
- Yue, H., Vieth-Hillebrand, A., Yang, S., Schulz, H.-M., Horsfield, B. & Poetz, S. (2022) The retention of precursor biotic signatures in the organonitrogen and organooxygen compounds of immature fine-grained sedimentary rocks. *International Journal of Coal Geology*, 259. <https://doi.org/10.1016/j.coal.2022.104039>

2021

- Yang, S., Horsfield, B., Karger, C., Perssen, F., Wu, L. & Mangelsdorf, K. (2021) Release of bound biomarkers using microscale sealed vessel catalytic hydrogenation. *Energy & Fuels*, 35, 14499-14509. <https://doi.org/10.1021/acs.energyfuels.1c01244>
- Yang, S., Qiao, H., Cheng, B. & Hu, Q. (2021) Solvent extraction efficiency of an Eocene-aged organic-rich lacustrine shale. *Marine and Petroleum Geology*, 126, 1-4. <https://doi.org/10.1016/j.marpetgeo.2021.104941>
- Schulz, H.M., Yang, S.Y., Schovsbo, N.H., Rybacki, E., Ghanizadeh, A., Bernard, S., Mahlstedt, N., Kruger, M., Amann-Hildebrandt, A., Krooss, B.M., Meier, T. & Reinicke, A. (2021) The Furongian to Lower Ordovician Alum Shale Formation in conventional and unconventional petroleum systems in the Baltic Basin-A review. *Earth-Sci Rev*, 218. <https://doi.org/10.1016/j.earscirev.2021.103674>

2020

- Yang, S. & Horsfield, B. (2020) Critical review of the uncertainty of Tmax in revealing the thermal maturity of organic matter in sedimentary rocks. *International Journal of Coal Geology*, 225. <https://doi.org/10.1016/j.coal.2020.103500>
- Yang, S., Schulz, H.-M., Horsfield, B., Schovsbo, N.H., Grice, K. & Zhang, J. (2020) Geological alteration of organic macromolecules by irradiation: Implication for organic matter occurrence on Mars. *Geology*, 48, 713-717. <https://doi.org/10.1130/G47171.1>

2019

- Yang, S. & Schulz, H.-M. (2019) Factors controlling the petroleum generation characteristics of Palaeogene source rocks in the Austrian Molasse Basin as revealed by principal component analysis biplots. *Marine and Petroleum Geology*, 99, 323-336. <https://doi.org/10.1016/j.marpetgeo.2018.10.024>
- Yang, S., Schulz, H.-M., Schovsbo, N. & Mayanna, S. (2019) The organic geochemistry of "Kolm", a unique analogue for the understanding of molecular changes after significant uranium irradiation. *International Journal of Coal Geology*, 209, 89-93. <https://doi.org/10.1016/j.coal.2019.05.004>
- Zhang, Y., Horsfield, B., Hou, D., Noah, M. & Yang, S. (2019) Impact of hydrothermal activity on organic matter quantity and quality during deposition in the Permian Dalong Formation, Southern China. *Marine and Petroleum Geology*, 110, 901-911. <https://doi.org/10.1016/j.marpetgeo.2019.08.049>

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- Yang, S., Schulz, H.-M., Horsfield, B., Schovsbo, N., Noah, M., Panova, E., Rothe, H. & Hahne, K. (2018) On the changing petroleum generation properties of Alum Shale over geological time caused by uranium irradiation. *Geochim. Cosmochim. Acta*, 229, 20-35. <https://doi.org/10.1016/j.gca.2018.02.049>

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- Yang, S., Schulz, H.-M., Schovsbo, N.H. & Bojesen-Koefoed, J.A. (2017) Oil-source-rock correlation of the Lower Paleozoic petroleum system in the Baltic Basin (northern Europe). *AAPG Bulletin*, 101, 1971-1993. <https://doi.org/10.1306/02071716194>

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- Yang, S. & Horsfield, B. (2016) Some Predicted Effects of Mineral on the Generation of Petroleum in Nature. *Energy & Fuels*, 30, 6677-6687. <https://doi.org/10.1021/acs.energyfuels.6b00934>
- Yang, S., Horsfield, B., Mahlstedt, N., Stephenson, M. & Konitzer, S. (2016) On the primary and secondary petroleum generating characteristics of the Bowland Shale, northern England. *Journal of the Geological Society*, 173, 292-305. <https://doi.org/10.1144/jgs2015-056>