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- P-124 Compositional features of organic matter in Jurassic and Lower Cretaceous deposits located in the east of West Siberia
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- P-130 Bituminous mixtures of Hakemi Use (SE Turkey) from the Hassuna/Samarra period (6100-5950 BC): origin of bitumen
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- P-131 Interred with their bones: biomarkers in archaeological burials
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- P-132 Combined d13C - dD analysis of pentacyclic triterpenes and their derivatives
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- P-133 Can we estimate catchment-scale biomass production from sedimentary biomarkers? An attempt with miliacin in Late Bronze Age levels from Lake le Bourget (French Alps)
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- P-134 Biomarkers preserved in cave sediments and their use as indicators of environmental change in Trang An, Vietnam
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- P-135 Composition of aliphatic hydrocarbons in prehistoric rice paddy soils in China
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- P-136 Analysis of insoluble organic residues in graves by sequential thermal desorption/pyrolysis-gas chromatography-mass spectrometry
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- P-140 Effects of natural and artificial oxidation on dissolved organic matter: example of Boom Clay
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- P-142 Geochemical parameters assessment in sediments of Lake Coari (Amazon)
Tatiana Santos da Cunha, Francisco Fernando Lamego Simões Filho, Celso Marcelo Franklin Lapal, Maria de Lourdes Moreira, Luis Landau, Celeste Yara dos Santos Ciqueira
- P-143 Phenolic compounds in water leachates of Miocene lignites from the Konin Brown Coal Basin (Poland)
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- P-144 Organic compounds of geochemical origin in domestic furnaces coal ash (Upper Silesia, Poland)
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- P-145 Current level of the organic pollution in the Bílina river sediments (Czech Republic)
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- P-146 Alteration of aromatic hydrocarbons from the oil pollutions by aerobic biodegradation
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- P-150 Polycyclic aromatic hydrocarbons in surface sediments of the Jade Bay, North Sea, Germany
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- P-151 Cu(II) complexation with humic acid and humic-like ligands studied by Schubert's method
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- P-152 Stability of Cu(II) and Pb(II) salicylate complexes determined by modified Schubert's method
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- P-153 Differentiation of indoor and subsurface VOCs sources in residential air by CSIA for vapor intrusion management
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- P-154 Adaptation of TO-17 thermal desorption protocol for CSIA of volatiles in air
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- P-157 Can laterally advected intermediate nepheloid layers affect the efficiency of the biological pump? - a biomarker study of sub-surface alterations of marine snow aggregates off Cape Blanc, NW Africa
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- P-158 Unusual distribution of long-chain heterocyst glycolipids in an Icelandic hot spring
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- P-159 Archaeal and bacterial tetraether lipids in a oligotrophic and a eutrophic Swiss lake: Insights into their sources and GDGT-based proxies
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- P-160 Biomarker signatures of methane-oxidizing archaea and aerobic bacteria in seep carbonates reveal changing redox conditions at cold seeps from Alaminos Canyon, northern Gulf of Mexico
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- P-174 Distinct microbial inventories in terrestrial mud volcanoes of Northern Italy controlled by the source and composition of emitted fluids
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- P-175 Molecular and isotopic biosignatures in altered and unaltered hydrothermal precipitates of the southern Mid-Atlantic Ridge
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- P-176 Microbial consortium mediating carbon cycle in a subsurface and oligotrophic karst cave in China
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- P-177 Rhizoliths in loess: evidence for the heterotrophic lifestyle of branched GDGT-producing bacteria
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- P-178 Diversity of microbial communities associated with low-temperature hydrothermal venting at the ultra-slow spreading Arctic Mid-Ocean Ridge
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- P-179 Tetraether membrane lipid distributions in lacustrine sediments: a study of 28 lakes in the Yangtze floodplain (SE China)
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- P-183 Characterization of dissolved organic matter in the hydrothermally altered sediment of the Guaymas Basin, Gulf of California
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- P-184 Have they lost their heads? Differential detection of archaeal IPLs and GDGTs
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- P-185 Biogeochemistry of sediments at ultra-deep burial depth recovered during IODP Expedition 317, Canterbury Basin, New Zealand
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- P-188 Impact of degradation on the lipid biomarkers of a Holocene peat sequence in the

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- P-189 Paleoenvironmental variations recorded by marine algal and terrestrial plant biomarkers in black shales deposited during the mid-Cretaceous Oceanic Anoxic Event 1b in the Vocontian Basin, SE France
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- P-190 Large scale cooling in Tertiary Central Europe as inferred by the MBT/CBT paleothermometer
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- P-191 Highly branched isoprenoid alkenes as proxies for variable sea ice conditions in the Southern Ocean
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- P-192 Climate variability in the Lake Victoria region (East Africa) since the Late Pleistocene as shown by molecular biomarkers
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- P-193 A new global calibration for GDGTs preserved in stalagmites
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- P-194 Palaeotemperatures and Palaeoenvironmental Changes during OAE 1a at Shatsky Rise
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- P-195 Molecular fossils and the late rise of eukaryotes and oxygenic photosynthesis
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- P-198 Reconstruction of sea surface temperature in the eastern Indian Ocean during the last 22000 years
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- P-199 Detection of environmental changes in the Minho River Estuary (NW Iberian Peninsula): a multi proxy approach
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- P-200 Palaeoenvironmental change reflected by carbon isotopes and palynology in the early Silurian of the Tanezzuft Formation, Libya
Mohamed Elkelani, Gert Jan Reichart, Jaap Sinninghe Damsté, Zwier Smeenk, Wolfram Kurschner, Henk Brinkhuis, Peter Nederlof
- P-201 Carbon and hydrogen isotope biomarker records of methane release and hydroclimatic variability from a thermokarst lake in the Alaskan Arctic
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- P-202 Terrestrial higher plant biomarkers in hyperpicnite-like sedimentary sequence in the Miocene Kawabata Formation, central Hokkaido, Japan: evidence for direct transport

of terrigenous matter by flood?
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- P-203 Biogeochemical processes in Holocene-Pleistocene sediments at <100 m depth recovered during IODP Expedition 317, Canterbury Basin, New Zealand
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- P-204 Are poriferan biomarkers preserved in the geological record? A study on sponge fossils and sponge-rich sediments of various ages
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- P-205 Lipid biomarker analysis of faeces from modern and ancient herbivores
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- P-206 Biomarker proxy-reconstructions of climatic and productivity patterns in the NE Mediterranean Sea during the Holocene
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- P-207 Biomarkers along a holocene sedimentary sequence from the Guadiana river estuarine area (Portugal/Spain border)
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- P-208 Alkenone producers during late Oligocene-early Miocene revisited
Julien Plancq, Vincent Grossi, Jorijntje Henderiks, Laurent Simon, Emanuela Mattioli
- P-209 A comparison of methane emission and oxidation histories on the Amazon and Congo fans over the last 200 kyr
Luke Handley, Helen Talbot, Kate Osborne, Thomas Wagner (Newcastle upon Tyne, United Kingdom)
- P-210 The preservation of vascular plant biomolecules in a 155 million years old sedimentary deposit: case of the Flogidarry Shale Member (Isle of Skye, Scotland)
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- P-211 Paleocene-Eocene Thermal Maximum impacts on terrestrial environments. Insights from the organic matter evolution in the Vasterival section (Dieppe-Hampshire Basin, France)
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- P-212 Constraining stable carbon and hydrogen isotope excursions of fire events from controlled burning experiments and applications to the Triassic-Jurassic extinction event
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- P-213 Biomarker proxies indicate silicic acid transport from the Southern Ocean to southeastern Australia during interglacials
Raquel Lopes dos Santos, Daniel Wilkins, Patrick De Deckker, Stefan Schouten
- P-214 Crenarchaeotal tetraether index of TEX₈₆ as an indicator of subsurface temperatures in the South China Sea
Guodong Jia, Jie Zhang, Jianfang Chen
- P-215 Distributions of long-chain diols in surface sediments from the North Pacific: possible revised diatom biomarker paleothermometry

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- P-216 A Pleistocene-Holocene transgressive sediment sequence in the southern North Sea coast area seen from a biomarker perspective
Jürgen Köster, Fenja Müntinga, Jürgen Rullkötter
- P-217 The Vinylguaiacol/Indole or VGI ("Veggie") ratio: assessing relative contributions of terrestrial and aquatic organic matter to sediments
Michael Krüge, Kevin Olsen, Jaroslaw Slusarczyk, Elaine Gomez
- P-218 Rainfall variability over NW Africa during the last glacial-interglacial cycle: a δD record of the last 120 ka
Rony R. Kuechler, Lydie Dupont, Britta Beckmann, Enno Schefuß
- P-219 The age and palaeoenvironmental conditions spanning the Permian/Triassic boundary in the northern onshore Perth Basin by using biomarker distributions and stable isotopes (C, H)
Mojgan Ladjavardi, Kliti Grice, Chris Boreham, Dianne Edwards, Ian Metcalfe, Roger Summons
- P-220 A multiproxy high-resolution approach for the reconstruction of sea surface temperatures of the last 500 years at the southern Italian shelf
Arne Leider, Anna-Lena Grauel, Kai-Uwe Hinrichs, Stefano M. Bernasconi, Gerard J.M. Versteegh
- P-221 Differences in distribution of core lipids amongst intact polar tetraether lipids and its implications for the TEX₈₆ paleothermometer
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- P-225 The change of land plant derived n-alkane characteristics in ocean margin sediments in relation to the distance from the continent
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- P-226 Seasonal variations and characters of terrestrial particulate organic matter in exterior rivers in Southeast China: inferred from bulk properties and lignin phenols
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- P-227 Terrestrial organic matter in the sediments of the German Bight - estimate of relative proportions using the BIT index in comparison to other proxies
Anna Böll, Barbara Scholz-Böttcher, Jörn Logemann, Jürgen Rullkötter
- P-228 Soil organic matter in drylands: insights into selective degradation?
Arnoud Boom, Andrew S Carr, Zoë Roberts, Alex Cumming, Brian M Chase, Michael E Meadows, Matthew Britton
- P-229 Geochemical peculiarities of composition and structure of heterocyclic components in bitumen extracts of organic matter of lacustrine recent sediments
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- P-230 Characterization and dating of soil humic material in holocene progradational sequence, N. Santa Catarina Littoral, Brasil
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- P-231 Bacteriohopanepolyol content of pasture soils in NE England
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- P-233 Branched GDGTs in the Yenisei river catchment; the trans-Siberian CBT/MBT signature of river and lake particulate matter
Cindy De Jonge, Alina Stadnitskaia, Georgy Charkashov, Andrei Fedotov, Alexander Vasiliev, Jaap S. Sinninghe Damsté
- P-234 Constraining the sources of dissolved and particulate organic carbon to the Arctic Ocean using full-depth dual carbon isotope profiles of DIC, DOC, and POC
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- P-236 Distribution and fate of lignin in dissolved organic matter in world's large river systems
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- P-237 Nature of C29 sterols in the high-molecular weight dissolved organic matter (HMW-DOM) from a freshwater lake
Kazuo Fukushima, Koji Takahashi, Yasuko Yoshiyama, Yoshito Chikaraishi
- P-238 Rhizoliths at the Nussloch loess profile (SW Germany) - assessment of source vegetation using stable isotopes and n-alkane molecular proxies
Martina Gocke, Guido Wiesenberg
- P-239 Differentiation of organic matter in soil, loess and rhizoliths at the Nussloch sedimentary sequence via n-alkane molecular proxies
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- P-240 Evidence for transport mechanisms of soil derived branched GDGTs
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- P-242 Changes of Rock-Eval HI, OI, and C-isotope ratios during decay of soil organic matter in a temperate climate environment (Villiers, Switzerland)
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- P-243 Organic matter composition and degradation in Siberian permafrost soils
Silke Höfle, Pascal Boeckx, Dries Roobroeck, Gesine Mollenhauer, Janet Rethemeyer
- P-244 Identification and distribution of intact branched tetraether lipids in peat and soils
Francien Peterse, Ellen Hopmans, Stefan Schouten, Anhelique Mets, Irene Rijpstra, Jaap Sinninghe Damsté
- P-245 Effects of in situ artificially increased temperature on the distribution of branched GDGTs in a French peatbog
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- P-246 Carbon isotopes and lipid biomarker investigation of sources, transport and degradation

of terrestrial organic matter in the SE Laptev Sea
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- P-247 Carbon capture by soil chemoautotrophs
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- P-248 Comparison of soil organic matter tracers (branched GDGTs and soil-specific BHPs): a study of the NW Mediterranean shelf-slope region
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- P-249 Habitat adaptation by compositional changes of cuticular needle waxes for the Norway spruce (observation platform Eifel National Parc)
Gina Kuippers, Ulrich Mann, Jan Schwarzbauer
- P-250 Biomarker distribution along a pedosequence recording a transition from pasture to conifer forest (Massif Central, France)
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- P-251 Long-term, low temperature simulation of early diagenetic alterations of organic matter from conifers: Terpenoids in the aromatic hydrocarbon fraction
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- P-256 Late stage gas generation in source rocks and gas shales
Nicolaj Mahlstedt, Brian Horsfield
- P-257 The components and carbon isotopic compositions of inorganic hydrocarbon gases with different carbon origins synthesized in gold tube closed-system
Jingkui Mi, Shuichang Zhang, Kun He
- P-258 Worldwide distribution and significance of secondary microbial methane formed during petroleum biodegradation in conventional reservoirs
Alexei Milkov
- P-259 Stable carbon isotopes of coal-derived alkane gases in China
Jinxing Dai, Yunyan Ni, Xiaoqi Wu, Shipeng Huang, Fengrong Liao
- P-260 Geochemical characteristics of biogenic gases in China
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- P-261 Natural gas generation, migration and accumulation in the Jonah Field area, Green River Basin, Wyoming: implications from chemical and isotopic compositions of gaseous compounds in the Cretaceous Lance and Mesaverde formations
Qilin Xiao, Paul Philp, Nicholas Harris, Jon Allen

- P-262 Minsterry of the organic matter component during biogenic gas formation: based on the quaternary of Qaidam basin
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- P-263 A comparison of pressure effect on gas generation from mudstone kerogen and coal of Yacheng Formation, Qiongdongnan Basin, South China Sea: implications from pyrolysis in a dry and closed system
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- P-264 Natural gas geochemistry of the southern offshore Brazilian Basins
Eugenio V Santos Neto, Jose R Cerqueira, Alain Prinzhofer
- P-265 Analysis of dissolved gases from drilling mud samples for geochemical and isotope mud gas logging
Philipp Weniger, Stefan Schlömer, Bernhard M. Krooss
- P-266 Geochemical and isotopic characterization of coal-related gas from the SE Upper Silesian Basin, Czech Republic
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- P-269 Distribution of alkylbenzenes in oils from deposits of different geological ages
Galina Pevneva, Anatoly Golovko
- P-270 Aromatic hydrocarbons in oils occurring in Lake Baikal
Galina Pevneva, Natalya Voronetskaya, Anatoly Golovko, Vladimir Kashirtsev
- P-271 Terrestrial-derived biomarkers from Carboniferous coal deposits at Dunbar (East Lothian, Scotland): palaeobotanical and palaeoenvironmental significance
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- P-272 Distribution of regular acyclic isoprenoidal alkanes in crude oils of SE Hungary
Csanád Sajgó, József Fekete, Balázs Badics
- P-273 Preservation of β -carotane in sediments from the Lopare basin, Bosnia and Herzegovina
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- P-274 Pr/Ph ratio in the Bazhenov formation rock samples (Western Siberia)
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- P-275 Aromatic hydrocarbons in oils from Cambrian and Precambrian deposits (East Siberia, Russia)
Alexandra Akhmedova, Olga Serebrennikova, Olga Shiganova
- P-276 Effects of biomarker biodegradation on tar sands of the Pirambóia Formation, Paraná Basin, Brazil
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- P-277 Statistical analysis of diamondoid and biomarker from Brazilian Basin oil samples

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- P-278 Short-chain steranes and isophopanes in Miocene source rocks from hyperthermal basin (Banat Depression, S.E. Pannonian Basin, Serbia)
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- P-279 Characterization of biomarkers occluded inside oil and coal asphaltenes
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- P-280 Biomarker hydrocarbons in schungites (Lower Proterozoic, Karelia)
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- P-281 The significance of novel A-norsteranes and perylene in Devonian reefs and crude oils
Svenja Tulipani, Kliti Grice, Paul Greenwood, Robert Lockhart, Muhammad Asif, Kenneth Williford, Arndt Schimmelmann
- P-282 Land plant markers in Gippsland Basin oils, Australia
Herbert Volk, Manzur Ahmed, Se Gong, Chris Boreham, Peter Tingate, Dianne Edwards
- P-283 Correlation between composition of naphthoenes and their saturated analogues in oils from different geological age deposits
Natalya Voronetskaya, Galina Pevneva, Anatoly Golovko
- P-284 Nitrogen compounds in organic matter of rocks from upper Jurassic deposits of Western Siberia
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- P-286 Comparison of natural gases in Middle Cambrian reservoir with hydrous pyrolysis gases from Lower Palaeozoic source rocks from the Polish, Lithuanian and Estonian parts of Baltic Basin
Maciej Kotarba, Michael Lewan
- P-287 The Hydrocarbon Occurrence and Play-forming Genetic Relationships of the Deep Palaeocene in Jiyang Depression, East China
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- P-288 Re/Os fractionation during generation and evolution of hydrocarbons
Fatima Mahdaoui, Laurie Reisberg, Raymond Michels, Yann Hautevelle, Yannick Poirier, Jean-Pierre Houzay
- P-289 Correlation of crude oils reservoired in the Polish Carpathian oilfields (the Silesian and Skole Units)
Irena Matyasik, Wojciech Bielen, Marek Janiga, Leszek Jankowski
- P-290 On the problem of preservation of hydrocarbons (HC) and organic matter (OM) at high pressures (HP) and temperatures (HT) (experimental data)
Vasily Melenevskiy, Yury Palyanov, Alexander Sokol, Vladislav Maly

- P-291 Geochemical parameters for unraveling mixtures. Examples from the South Atlantic continental margins and the giant north-central West Siberian gas fields
John Moldowan, David Zinniker, Zhaoqian Liu, Alla Rovenskaya-Nemchenko, Jeremy Dahl, Tatyana Nemchenko
- P-292 A geochemical assessment of subsalt tar zones in the Gulf of Mexico
Erica Morais
- P-293 Hydrocarbon biomarkers in the bottom sediments of the hydrothermal fields Ashadze-1 and 2 (MAR, 13°N)
Inna Morgunova, Vera Petrova, Ivan Litvinenko, Georgiy Cherkashev
- P-294 Petroleum generation and expulsion zones in Maturín subbasin: evaluation of paleoenvironmental and lithologic variations of cretaceous source rocks responsible for oil charges accumulated in Carabobo Area, Orinoco Oil Belt- Eastern Venezuelan Basin
Wendy Murillo, Carolina Olivares (Los Teques, Venezuela)
- P-295 Using diamondoids to unravel alteration processes
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- P-296 Geochemical record of ancient sediments from the Potwar Basin Pakistan, inferred by biomarker and stable isotopic signatures
Shahid Nadeem, Kliti Grice, Fazeelat Tahira
- P-297 Significance of aromatic biomarkers to characterize the petroleum of the Southern Indus Basin, Pakistan
Shagufta Nasir, Kliti Grice, Tahira Fazeelat
- P-298 Petroleum generation in siliceous deposits of Sakhalin Island (Russia)
Nikolay Oblasov, Ivan Goncharov, Vadim Samoylenko, Svetlana Fadeeva
- P-299 Drilling conditions making wells unsuitable for fluid inclusion studies
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- P-300 The alteration of oil during formation of the low-temperature MVT Zn-Pb sulfide ore deposit at Tres Marias, Chihuahua, Mexico
Christian Ostertag-Henning, Frank Melcher, Bernhardt Saini-Eidukat
- P-301 Biomarker distributions and $\delta^{13}\text{C}$ values of individual n-alkanes of source rocks, crude oils and oil components from reservoir rocks of Tarim Basin, China
Changchun Pan, Shuang Yu, Jinji Wang, Xiaodong Jin, Lanlan Jiang, Dayong Liu, Xiuxiang Lü, Jianzhong Qin, Yixiong Qian, Yong Ding, Honghan chen
- P-302 Carbonaceous rocks of the Neoproterozoic (Vendian) Khatyspyt Formation as a possible source of oils in the northeastern Siberian Platform
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- P-303 Evaluation of petroleum systems in the area Carúpano Basin, offshore Venezuela, through basin modeling 3D
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- P-304 Decision-tree chemometrics of biomarker and isotope data identifies multiple petroleum systems in the San Joaquin Basin, California
Kenneth Peters, L. Scott Ramos, Leslie Magoon, Paul Lillis, John Zumberge
- P-305 Geochemical Indices of Hydrocarbon Systems of Early Generation
Svetlana Punanova, Tatyana Vinogradova

- P-306 Evaluation of surface geochemistry and data mining in Brazilian sedimentary basins
Jean R. Heckmann, Débora A. Azevedo, Luiz Landau
- P-307 Basin Modelling of the Hammerfest Basin and Loppa High (Southwestern Barents Sea); investigating the leakage of hydrocarbons in a glacially influenced marine environment
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- P-308 Evidence of hydrocarbon generation through decarboxylation reactions: qualitative and quantitative analyses by FTICR-MS
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- P-316 The occurrence of crude oil in the coal-bearing strata of Hulin Basin and its hydrocarbon potential analysis, north-eastern China
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- P-317 Laboratory simulation of vertical hydrocarbon microseepage from the reservoir to the surface using a 3-D model
Guojian Wang, Tongjing Cheng, Ming Fan, Li Lu
- P-318 Kinetic study of primary cracking gases from a marine kerogen by stepwise open system and its implications
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- P-320 Geochemical evaluation of sources rocks from Ain Regada Region, Northern Algeria
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- P-321 Hydrocarbon potential of Maikopian source rocks within Black Sea petroleum basin
Dmitry Nadezhkin
- P-322 Carbonaceous rocks of the Lower and Middle Cambrian Inican Formation in the southeastern Siberian platform
Igor Korovnikov, Tatyana Parfenova, Victorya Eder
- P-323 Paleoenvironment signnificance of geochemical characteristics of the carboniferous source rocks in eastern part of the Junggar Basin
Wen Qi, Jianguo Pan, Peng Wang, Kunjun Tan
- P-324 Occurrence of organic matter effect hydrocarbon generation and expulsion in South China
Jianzhong Qin, Baojian Shen, Xiaodong Fu
- P-325 Origin of abnormal sonic response in the shale interval of northern songliao basin, China
Huo Qiuli, Zeng Huasen, Fu Li, Ren Zhigao, Fan Qinghua, Zhang Xiaochang
- P-326 Source rock investigations on Palaeozoic and Mesozoic sediments of the Central Congo Basin, Democratic Republic of Congo
Ralf Littke, Victoria Sachse, Damien Delvaux, Jan Schwarzbauer
- P-327 Organic geochemistry and organic petrology of Lower Jurassic source rocks from Ait Moussa, Middle Atlas, Morocco
Victoria Sachse, Detlev Leythaeuser, Jan Schwarzbauer, Ralf Littke
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Nadia al Sandouk, Christoph Hartkopf-Fröder, Stephan Kaufhold, Jan Schwarzbauer
- P-329 Characterising the depositional environments of the massive lacustrine source rocks of Nenjiang Formation in Songliao Basin, China
Zhiguang Song, Qin Yin, Sibbo Wang
- P-330 Hydrous pyrolysis experiments: new insights about generation, saturation and petroleum expulsion through organic petrographic evidences.
Igor Souza, Carla Araujo, Taissa Menezes, Luiz Felipe Coutinho, Eugênio Santos Neto, Regina Binotto, André Spigolon, Giovani Cioccarei, Michael Lewan, Noélia Rondon, João Mendonça Filho
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Berna Yavuz Pehlivanlı, Ali Sari, Şukru Koc

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Valentina Danilova, Alexey Kontorovich
- P-336 Mechanistic model of the thermal evolution of n- and iso-alkanes (C1-C32) in oils
Valérie Burkle-Vitzthum, Roda Bounaceur, Paul-Marie Marquaire, François Montel, Luc Fusetti
- P-337 Application of electrospray ionization fourier transform ion cyclotron resonance mass spectrometry on formation mechanism of high acidity oils
Cheng Dingsheng, Dou Lirong, Shi Quan, Hou Dujie
- P-338 Examples of the relationship between reservoir character and hydrocarbon signatures measured at the surface
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- P-339 Geochemical characterization of asphaltenes and maltenes in organic solid deposits
Eric Lehne, Kentaro Indo, Fenglou Zou, Jose Zacharia, Kamran Akbarzadeh, John Ratulowski
- P-340 Atypical fluids in offshore shallow buried reservoirs
Denis Levaché, Christine Lafaurie, Yannick Poirier, Gérard Ségalini
- P-341 Simulation studies on the adsorption/occlusion phenomena inside the macromolecular structures of asphaltenes
Jing Zhao, Zewen Liao, Patrice Creux, Anna Chrostowka, Alain Graciaa
- P-342 Chemometric analysis of crude oil composition and fluid properties
Andreas Linde Tomren, Tanja Barth, Kjetil Folgerø, Johan Carlson
- P-343 Effective diffusivities of CO₂ and associated noble gases in impermeable shale caprocks of an EOR-CO₂ field
Caroline Magnier, Alain Prinzhofer, Eric Flauraud, Sophie Giannesini
- P-344 Can mud gas tell us a bigger story?
Daniel McKinney, Heidi Albrecht
- P-345 Oil Fingerprinting associated with Well Temperature Profiles as an Alternative Production Logging Tool
Alain Noyau, Dominique Andre, Jan Mersmann, Francois Dabat
- P-346 Diamondoids, a tool in the geochemical studies to identify compartmentalized reservoirs
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- P-347 Strategies for the assessment of fluid mixing in petroleum systems
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Paul Sutton, Steven Rowland, Ben Smith
- P-349 Fluid pressure evolution and gas preservation of the Puguang Gasfield, Sichuan Basin, China

Xiao Xianming, Liu Dehan, Tian Hui

- P-350 Geochemical comparison of oil samples and core extracts from Yanchang Formation in Ordos Basin, China
Weiwei Yang, Guangdi Liu
- P-351 The releasing of covalently-bound biomarkers via hydrolysis for the bitumen-source correlation of Majiang paleo-reservoir
Fang Yunxin, Geng Ansong, Liao Yuhong, Wu Liangliang
- P-352 Experimental simulation of gravity/density segregation by centrifugation
Fenglou Zou, Kentaro Indo, Eric Lehne

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- P-354 Sulfur isotope fractionation during thermochemical sulfate reduction as reflected by individual organic compounds
Alon Amrani, Andrei Deev, Alex Sessions, Yongchun Tang, Jess Adkins
- P-355 H₂S formation and enrichment mechanisms in Puguang gas field of the Sichuan Basin, China
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- P-356 Controls on the kinetics of thermochemical sulfate reduction
Geoffrey Ellis, Tongwei Zhang, Qisheng Ma, Alon Amrani, Yongchun Tang
- P-357 Mechanisms of Thermochemical Sulphate Reduction: Insights from redox buffered laboratory experiments
Svenja Germerott, Christian Ostertag-Henning, Harald Behrens
- P-358 Sulfur compounds in liquid products of the thermolysis of heavy oil asphaltenes
Andrei Grinko, Anatoly Golovko, Raisa Min, Tatyana Sagachenko
- P-359 A laboratory study of H₂S production from the thermal reactions of magnesium sulfate and sulfur with a hydrocarbon reactant: implications for thermochemical sulfate reduction
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- P-360 High pressure pyrolysis of hydrocarbons in the presence of H₂S. Significance to the composition of oils in reservoirs
Van Phuc Nguyen, Raymond Michels, Paul-Marie Marquaire, Valérie Burklé-Vitzthum
- P-361 H₂S risking toolset - thermochemical sulphate reduction field study and analytical efforts: sequential diagnostics for Fluid-fluid-rock interactions
Henning Peters, Olaf G. Podlaha, Erdem Idiz, Chad Glemser, Lavern Stasiuk, Volker Dieckmann
- P-362 The reaction of elemental sulfur with organic compounds: formation of benzothiophenes and dibenzothiophenes
Zhibin Wei, Scott Northrop, Heather Rehmer, Steve MacFarland, Glenn Otten, Clifford Walters, Paul Mankiewicz, Marlene Madincea

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- P-365 Geochemical evaluation of the origin and migration of gases present in natural gas hydrates - an example from the Norwegian continental shelf
Tanja Barth, Espen N. Vaular, Irene Roalkvam, Ida H. Steen
- P-366 Organic geochemical characterization and distribution of unconventional hydrocarbon plays of the Lower Cretaceous of NW Germany
Ulrich Berner, Matthias Heldt
- P-367 Geochemical controls on shale microstructural evolution
Nicholas Drenzek, John Valenza, Flora Marques, Hendrik Grotheer, Michael Herron
- P-368 Comparison of the geochemical and microstructural co-evolution of two shale lithotypes through artificial maturation
Hendrik Grotheer, Nicholas Drenzek, John Valenza, Michael Herron, Sean Sylva, Jeffrey Seewald, Roger Slatt
- P-369 Evolution of pores in organic-rich shales during thermal maturation
Tian Hua, Zhang Shuichang, Liu Shaobo, Chen Jianping
- P-370 Organic geochemistry of the Colorado Group shale sequence stratigraphic framework of the Western Canada Sedimentary Basin: implications for shale gas fairway identification
Haiping Huang, Per Pedersen, Ron Spencer, Andy Aplin, Dallin Laycock, Samantha Taylor, Steve Larter
- P-371 Preliminary investigations into gas-in-place and fraccability of shales from the Sichuan Basin, China
Jingqiang Tan, Dorothee Hippler, Jinchuan Zhang, Ger van Graas, Nicolaj Mahlstedt, Georg Dresen, Brian Horsfield
- P-372 Transformation of organic matter of sedimentary rocks in model experiment with the flow of supercritical CO₂-fluid
Sara Lifshits, Olga Chalaya
- P-373 Geochemistry of coalbed methane and co-production water of Fuxin basin, Northeast China
Shaobo Liu, Yan Song, Xiaokang Gao
- P-374 Bulk geochemical characterisation of the source rocks for shale gas in Poland
Irena Matyasik, Wojciech Bielań, Tomasz Stoczyński
- P-375 Integration of basin modeling and geochemistry to describe dual sourcing of granite wash reservoirs, Anadarko Basin, USA
Tony McClain, Harris Cander, Jonathan Evenick
- P-376 Organic geochemical variability of gas shales: Woodford Shale, Southeastern Oklahoma, USA, a case study
Andrea Miceli Romero, R. Paul Philp
- P-377 Oil shales occurring in Mongolia
Vadim Saveliev, Namkhainorov Jargalsaikhan, Galina Pevneva, Anatoly Golovko

P-378 East Texas-North Louisiana USA unconventional shale gas resource systems
Daniel Jarvie, Francoise Behar, Yongchun Tang, Rolando di Primio, Brian Horsfield, Wilhelm Dominik

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Jan Schwarzbauer, Patrick Riefer, Timm Klausmeyer, Andreas Schaeffer, Burkhardt Schmidt
- P-381 Permissible concentration of petroleum contaminants as determined from studying the adaptive reaction of plants in a model experiment with permafrost soil of yakutia
Sara Lifshits, Olga Chalaya, Yulia Glaznetsova, Iraida Zueva
- P-382 Polycyclic aromatic hydrocarbons in bottom sediments of the Laptev and the East Siberian seas
Ivan Litvinenko, Vera Petrova, Galina Batova, Anna Kursheva
- P-383 Accumulation and degradation of plastic pollutants and diisopropyl-naphthalenes during composting of organic household waste
Cesar Menor-Salvan
- P-384 Fingerprinting of oil sheens, slicks, and tarballs collected in response to the MC 252 oil spill
Alexei Milkov, Changrui Gong, David Grass, Mike Sullivan, Tomieka Searcy, Leon Dzou, Pierre-Andre Depret
- P-385 Source determination and depth translocation of PAH in Chinese paddy and non-paddy soils
Cornelia Mueller-Niggemann, Philipp Roth, Eva Lehndorff, Lorenz Schwark
- P-386 Remediation of hydrocarbon contaminated soils by modified Fenton oxidation in the presence of magnetite
Usman Muhammad, Faure Pierre, Hanna Khalil, Ruby Christian
- P-387 The use of phospholipid fatty acid analysis and isotopic techniques to track the fate of organic contaminants in environmental systems.
Brian Murphy, Chris Allen, Leonid Kulakov, Anna Kulakov, Michael Larkin, Brian Kelleher
- P-388 ESR spectroscopic study of humic acid-like materials obtained by the autoxidation of caffeic and chlorogenic acid
Ružica Nikolić, Tatjana Anđelković, Goran Nikolić
- P-389 Biogeochemical process studies on oil sand tailings used for land reclamation
Mareike Noah, Andrea Vieth-Hillebrand, Beate Schneider, Bernd Uwe Schneider, Heinz Wilkes
- P-390 A three-year survey of fluorescent dissolved organic matter in the Arcachon Bay (South Western France)
Edith Parlanti, Marie-Ange Cordier, Fabienne Ibalot
- P-391 Environmental forensics-recent applications of C, H and Cl isotopes in the determination of sources of groundwater contaminants

Paul Philp, Tomasz Kuder

- P-392 Environmental forensic study of a complexly contaminated soil at a former chemical plant
José Luis R. Gallego, Michael A. Krüge, Iván Lores, Azucena Lara, Carlos Sierra (33600 - Mieres
- P-393 Geochemical characterization of oil spills samples and oil samples from wells adjacent areas in order to determine the origin by oil-oil correlation, two case studies, Monagas, Venezuela
Ysmarline Rincones, Carmen Rodriguez, Jennifer Arenas (Los Teques/Miranda, Venezuela
- P-394 Polycyclic aromatic hydrocarbons in the Pichavaram Mangrove-Estuarine sediments, South-Eastern India
Rajesh Ranjan, Joyanto Routh, AL Ramanathan, J Val Klump
- P-395 Source characterization using molecular distribution and stable carbon isotopic composition of n-alkanes in sediment cores from Mundaú-Manguaba estuarine-lagoon system, Brazil
Thaís Silva, Silvia Lopes, Débora Azevedo
- P-396 Brominated flame retardants in German Wadden Sea sediments
Thorsten Stiehl, George Sawal, Barbara Scholz-Böttcher, Melanie Beck, Jürgen Rullkötter, Peter Lepom
- P-397 Impact of different operating modes on the indigenous microbial ecosystems in energy storage systems in the North German Basin: Compositional changes and membrane phospholipid adaptation
Alexandra Vetter, Kai Mangelsdorf, Stephanie Lerm, Mashal Alawi, Andrea Seibt, Markus Wolfgramm, Hilke Würdemann, Andrea Vieth-Hillebrand
- P-398 Stable carbon isotope fractionation of dissolved BTEX during progressive volatilization
Yongqiang Xiong, Yun Li, Qianyong Liang, Chenchen Fang, Jingru Zhang
- P-399 Resolving sources and preservation mechanism of anthropogenic and natural organic matter in sediment of Beijing-Hangzhou Great Canal, China with usage of Hydropyrolysis (HyPy)
Xiaoyu Zhang, William Meredith, Colin Snape, Yongge Sun, Xin Chen, Yang Xu

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- P-401 Hydrogen isotope ratios of leaf wax lipids illustrate temporal and spatial variations in the hydrologic cycle - results from two calibration studies off NW Africa
Britta Beckmann, Eva Niedermeyer, Alex Sessions, Enno Schefuss
- P-402 New insights into soil organic carbon build-up from compound-specific radiocarbon analysis
Axel Birkholz, Rienk Smittenberg, Irka Hajdas, Lukas Wacker, Jostein Bakke, Stefano M. Bernasconi
- P-403 Spatial variability of compound-specific dD at the field scale: a case study from miliacin in broomcorn millet (*Panicum miliaceum*)
Nicolas Bossard, Jérémy Jacob, Claude LeMilbeau, Rachel Boscardin, Elisabeth Lallier-Vergès

- P-404 Amino sugars as biomarkers for transformation of organic nitrogen compounds in two Swiss lakes
Dörte Carstens, Krista E. Köllner, Gijs Nobbe, Helmut Bürgmann, Bernhard Wehrli, Carsten J. Schubert
- P-405 A novel tool for food web study: compound-specific stable nitrogen isotope analysis of amino acids
Yoshito Chikaraishi, Nanako Ogawa, Naohiko Ohkouchi
- P-406 Biogeochemistry of lake Soppensee (Switzerland) using a biomarker and a compound-specific isotope approach
Merle Gierga, Rienk Smittenberg, Irka Hajdas, Lukas Wacker, Stefano Bernasconi
- P-407 Compound specific hydrogen isotopes as indicator of core metabolisms of benthic microorganisms in the Wadden Sea
Sandra Heinzelmann, Laura Villanueva, Stefan Schouten, Jaap Sinninghe Damsté, Marcel van der Meer
- P-408 Sea surface salinity reconstructions of the Agulhas current based on alkenone hydrogen isotope ratios
Sebastian Kasper, Marcel T.J. van der Meer, Geert-Jan Brummer, Isla S. Castañeda, Rainer Zahn, Jaap S. Sinninghe Damsté, Stefan Schouten
- P-409 Confining the role of biotic and/or abiotic factors influencing the ^{14}C isotopic composition of chlorophyll a isolated from algal cultures grown under different seawater DIC $\Delta^{14}\text{C}$ concentrations
Stephanie Kusch, Albert Benthien, Björn Rost, Gesine Mollenhauer
- P-410 Carbon cycling in lacustrine food webs
J. Marieke Lammers, Carsten J. Schubert, Jack J. Middelburg, Jaap S. Sinninghe Damsté, Gert-Jan Reichart
- P-411 Intramolecular radiocarbon dating on archaeal intact polar lipids
Chun Zhu, Gesine Mollenhauer, Julius Lipp, Yu-shih Lin, Kai-Uwe Hinrichs
- P-412 Radiocarbon distributions in Lake Superior, the world's largest freshwater lake (by area)
Prosper Zigah, Elizabeth Minor, Josef Werne
- P-413 D/H ratios of plant waxes as recorder of past rainfall intensities - insights to the Indonesian paleomonsoon
Eva M. Niedermeyer, Alex L. Sessions, Mahyar Mohtadi
- P-414 European lake sediment calibration of long chain n-alkane δD values
Gert-Jan Reichart, Cornelia Blaga, Jaap S. Sinninghe Damsté
- P-415 Stable carbon isotope compositions of lignin phenols and cutin acids among C3, C4 and CAM plants
Kazuhiko Sonoda, Masashiro Takahashi, Shuichi Yamamoto
- P-416 Developing analytical protocols for the measurement of ^{13}C and ^{15}N of crucial organisms within the food web of the Dutch Wadden Sea
Elisabeth Svensson, Tjisse van der Heide, Sander Holthuijsen, Stefan Schouten, Henk W. van der Veer, Jack J. Middelburg, Jaap Sinninghe Damsté
- P-417 Contributions of δD analyses of plant-derived fatty acid methyl esters in ravine deposits to understanding palaeoenvironmental changes during the rise and fall of kingdoms in northern Ethiopia
Valery Terwilliger, Zewdu Eshetu, Marcelo Alexandre, Yongsong Huang, Marilyn Fogel

- P-418 Extreme intra- and intermolecular carbon isotopic disparity in individual archaeal intact polar lipids from methane seep sediments
Marcos Yukio Yoshinaga, Marcus Elvert, Yu-Shih Lin, Kai-Uwe Hinrichs
- P-419 Effect of leaf litter degradation and seasonality on D/H isotope ratios of n-alkane biomarkers
Michael Zech, Nikolai Pedentchouk, Björn Buggle, Katharina Leiber, Karsten Kalbitz, Slobodan Markovic, Bruno Glaser
- P-420 $\delta^2\text{H}$ differences among lipids synthesised via the ACT (acetogenic), MVA (mevalonic) and DXP (1-deoxy-D-xylulose 5-phosphate) pathways in higher plant leaves: possible evidence for intracellular water (H⁺) isotopic heterogeneity
Youping Zhou, Kliti Grice, Hilary Stuart-Williams, Graham Farquhar, Charles Hocart

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- P-423 Effects of long-term climatic manipulations on microbial communities in European shrublands
Sharon Mason, Chiara Cerli, Andrew Smith, Albert Tietema
- P-424 Intact polar lipid and genetic signatures of archaea in estuarine sediments
Travis B. Meador, Cassandre Lazar, Marcos Y. Yoshinaga, Andreas Teske, Kai-Uwe Hinrichs
- P-425 Insights into the microbial communities of modern stromatolites (Highborne Cay, Bahamas) from bacterial and eukaryotic lipids
Sabine Mehay, Joan Bernhard, Anna McIntyre-Wressnig, Virginia Edgcomb, Roger Summons
- P-426 Bacterial versus archaeal activity in episodically flooded soils - a combined lipidomics/genomics approach
Cornelia Mueller-Niggemann, Andrea Bannert, Michael Schloter, Kai Mangelsdorf, Lorenz Schwark
- P-427 Quantitative reconstructions of methanogenic and methanotrophic archaeal communities in Lake Rotsee, Switzerland, using biomarker concentrations and their carbon isotopic compositions
Sebastian Naeher, Rienk Smittenberg, Carsten Schubert
- P-428 Study of microbial activity associated to SW-Barents sea pockmarks
Julia Nickel, Kai Mangelsdorf, Jens Kallmeyer, Rolando di Primio, Daniel Stoddart
- P-429 Microbial diversity and organic matter cycling of methane-related seabed seepage structures in Irish waters
Shane O' Reilly, Michal Szpak, Xavier Monteys, Christopher Allen, Brian Kelleher
- P-430 New bacteriochlorophyll degradation products from a coastal salt pond
Raymonde Baltenweck-Guyot, Ruben Ocampo-Torres
- P-431 Carbohydrate dynamics in Cariaco Basin pore water and sediments
Melesio Quijada, Armelle Riboulleau, Yann Guerardel
- P-432 Thermally stable anammox biomarker lipids produced during hydrous pyrolysis
Darci Rush, Andrea Jaeschke, Stefan Schouten, Jaap Sinninghe Damsté
- P-433 Environmental occurrence of oxic degradation products of anammox ladderane lipids

Darci Rush, Andrea Jaeschke, Ellen Hopmans, Stuart Wakeham, Stefan Schouten, Jaap Sinninghe Damsté

- P-434 Impact of a high CO₂ partial pressure on the methanogenic pathway in a high-temperature petroleum reservoir
Daisuke Mayumi, Susumu Sakata, Haruo Maeda, Yoshihiro Miyagawa, Masayuki Ikarashi
- P-435 Impact of lake water pH on the distribution of branched tetraether membrane lipids: further indication for an aquatic source
Petra Schoon, Anna de Kluijver, Jack Middelburg, John Downing, Jaap Sinninghe Damsté, Stefan Schouten
- P-436 Methane oxidation in the water column of Lago di Cadagno (Switzerland)
Carsten J. Schubert, Andreas Krupke, Mathias Kirf, Daniela Franzke, Marcel M.M. Kuypers
- P-437 Microbial community shifts at temperature and geochemical gradients at sulfur-rich shallow hydrothermal vents offshore Panarea Island, Sicily
Florence Schubotz, Chia-I Huang, Gunter Wegener, Jan P. Amend, Roy Price, Thomas Holler, Anke Meyerdierks, Rudolf Amann, Roger E. Summons, Kai-Uwe Hinrichs
- P-438 Lipid biomarkers of archaeal and sulphate reducing bacterial aggregates in gas hydrate-bearing deep sea sediment
Yong-Cheon Ahn, Jang-Jun Bahk, Jung-Hyun Lee, Kyung-Hoon Shin
- P-439 Origin of alkane hydrocarbons in the hydrothermal deposits of the Mid-Atlantic Ridge and East Pacific Rise
Natalia Shulga, Valerij Peresyphkin
- P-440 Estimation of endospore numbers in marine sediment samples by quantification of dipicolinic acid
Marieke Sieverding, Bert Engelen, Henrik Sass, Barbara Scholz-Böttcher, Heribert Cypionka, Jürgen Rullkötter
- P-441 Investigating relationships between OM and diatom frustules and their implications in the export of organic carbon in the ocean
Maxime Suroy, Brivaëla Moriceau, Madeleine Goutx
- P-442 Deep-sea benthic archaea recycle relic membrane lipids: insight from “in situ ¹³C-incubation experiment” and its lipidomics
Yoshinori Takano, Yoshito Chikaraishi, Nana O. Ogawa, Hidetaka Nomaki, Yuki Morono, Fumio Inagaki, Kai-Uwe Hinrichs, Nao Ohkouchi
- P-443 Hopanoids in silica sinters: identification of an unusual pathway in hopanoid diagenesis with implications for the sedimentary biomarker record
Robert Gibson, Gurpreet Kaur, Bruce Mountain, Richard Pancost, Helen Talbot
- P-444 Isolating and cultivating environmentally relevant micro-organisms as reference point for linking phylogeny to activity in situ based on biomarker lipids
Marcel van der Meer, Christian Klatt, Jason Wood, Donald Bryant, Mary Bateson, Laurens Lammerts, Stefan Schouten, Jaap Sinninghe Damsté, Michael Madigan, David Ward
- P-445 The influence of geological and geochemical processes on microbial biogeography at hydrothermal vents on the Mid-Atlantic Ridge: evidence from the distribution of intact polar lipids
Robert Gibson, Marcel van der Meer, Ellen Hopmans, Anna-Louise Reysenbach, Stefan Schouten, Jaap Sinninghe Damsté
- P-446 Distribution of ammonia-oxidizing archaea and anammox bacteria in the arabian sea

OMZ using a combined approach based on intact polar lipids and abundance/expression of specific genes

Laura Villanueva, Angela Pitcher, Ellen Hopmans, Stefan Schouten, Jaap Sinninghe Damsté

- P-447 The vertical niche of Thaumarchaeota in Lake Malawi; implications for the TEX86 temperature signal in the sediment
Martijn Woltering, Josef Werne, Melissa Berke, Ellen Hopmans, Jaap Sinninghe Damsté, Stefan Schouten
- P-448 Genetic and metabolic characterization of methanogen microbial communities in the Antrim gas shale formation
Cornelia Wuchter, Erin Banning, Nick Drenzek, Marco Coolen
- P-449 Glycerol dialkyl glycerol tetraethers and the TEX86 index in sinking particles in the western North Pacific
Masanobu Yamamoto, Yuichiro Tanaka, Akifumi Shimamoto
- P-450 Proxies based on archaeal and bacterial GDGTs in surface sediments of the Yangtze River Estuary, China: implications for marine organic biogeochemistry
Peng Yao, Brendan Keely, Zhigang Yu, Hongzhen Yin, Meixun Zhao
- P-451 Methane fluxes modulating the molecular and carbon isotopic composition of microbial lipids in gas hydrate bearing sediments from the northern Cascadia margin
Marcos Yukio Yoshinaga, John W. Pohlman, Tobias Goldhammer, Nadine Broda, Michael Riedel, Marcus Elvert, Kai-Uwe Hinrichs

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- P-453 Experimental paleochemotaxonomy of conifers: the Araucariaceae family
Yueming Lu, Yann Hautevelle, Raymond Michels
- P-454 Tracing of palaeofloristic changes in the Paris basin (France) during Jurassic: contribution of the retene/cadalene ratio
Yueming Lu, Yann Hautevelle, Raymond Michels
- P-455 Long term cooling and punctuated climate events recorded in Late Aptian to Early Albian sediments from the eastern subtropical Atlantic (Mazagan Plateau, DSDP Site 545)
Alison McAnena, Thomas Wagner, Helen M. Talbot, Jens Herrle, Joerg Pross, Janet Rethemeyer, Peter Hofmann
- P-456 Post-glacial paleoclimatic changes in northeastern Brazil inferred from depth-sensitive depositional records of organic matter in sediments of Lagoa do Caçó
Abdelfettah Sifeddine, Philip Meyers, Renato Campello Cordeiro, Ana Luiza Spadano Albuquerque, Marcello Bernardes, Marie-Pierre Ledru, Bruno Turcq, Jorge Joao Abrao
- P-457 Molecular and isotopic evidence for differences in organic matter delivery and preservation in two mid-Pleistocene light-dark color cycles in sediments beneath the Benguela Current Upwelling System
Philip Meyers, Ioanna Bouloubassi, Richard Pancost
- P-458 220 ka palaeoenvironmental reconstruction of the Fuentillejo maar-lake record (Central Spain) using biomarker analysis
Laura Moreno, José E. Ortiz, Trinidad Torres, Juana Vegas, Blanca Ruiz-Zapata, Ángel García-Cortés, Luis Galán, Alfredo Pérez-González

- P-459 Long-term variations of palaeovegetation recorded by angiosperm and gymnosperm biomarkers in the Late Cretaceous sequence of Kotanbetsu, Hokkaido, Japan
Hideto Nakamura, Ken Sawada, Reishi Takashima
- P-460 Geochemical and historical study of a 700 year old pond, Lansquenet -Lorraine, France- A multidisciplinary approach
Olivia Bertrand, Laurence Mansuy-Huault, Emmanuelle Montargès-Pelletier, Benoît Losson, Jacqueline Argant, Raymond Michels, Pierre Faure, Emmanuel Garnier, Charles Kraemer
- P-461 Miocene to Pliocene environmental changes recorded in South-West African continental margin sediments
Florian Rommerskirchen, Lydie Dupont, Gesine Mollenhauer, Enno Schefuß
- P-462 Branched tetraether lipid derived air temperature and soil pH in lake sediments from Zeekoevlei, South Africa
Supriyo Das, James Bendle, Joyanto Routh
- P-463 Holocene paleoclimatic variations recorded by biomarkers in sediment cores from the Dabusu Lake, northeastern China
Ken Sawada, Makiko Ono, Yuroyuki Kitagawa, Hu Ke
- P-464 Effects of within-catchment provenance on terrestrial climate parameters in marine sediments off large rivers
Enno Schefuß, Gesine Mollenhauer, Holger Kuhlmann, Matthias Prange, Jürgen Pätzold
- P-465 Hydrological and biogeochemical variations in the hypersaline Lake Tswaing (South Africa) during the last 84 ka BP
Frauke Schmidt, Hedi Oberhänsli, Heinz Wilkes
- P-466 Can molecular markers for pyrogenic carbon help to reconstruct wildfire temperatures?
Maximilian P.W. Schneider, William C. Hockaday, Caroline A. Masiello, Michael W.I. Schmidt
- P-467 Molecular hydrogen isotope systematics in Eocene lake sediments: Hydrogen isotope exchange and estimate of paleo lake water hydrogen isotope composition
Nils Andersen, Stefano M. Bernasconi, Robert M. K. Carlson, Martin Schoell
- P-468 Carbon isotopic composition of Thaumarchaeotal ether-bound biphytanes during the early Eocene carbon isotope excursions
Petra Schoon, Appy Sluijs, Henk Brinkhuis, Claus Heilmann-Clausen, Bo Pagh Schultz, Jaap Sinninghe Damsté, Stefan Schouten
- P-469 Impact of anaerobic methane oxidizing archaea on TEX86-L paleotemperature records from Antarctica
Stefan Schouten, Veronica Willmott, Eugene Domack, Rieneke Gieles, Jaap Sinninghe Damsté
- P-470 Organic-geochemical proxies for tsunami-events in sediment cores of the Thermaikos Gulf
Frederike Wittkopp, Klaus Reichert, Jan Schwarzbauer
- P-471 Integrating biomarker and microfossil records across the Cretaceous-Paleogene mass extinction event
Julio Sepulveda, Laia Alegret, Emily Wooton, Changqun Cao, Roger E. Summons
- P-472 Variability of Sea Surface Temperature in the Eastern Equatorial Pacific Ocean during Last Glacial Cycles
Hasrizal Shaari, Masanobu Yamamoto, Tomohisa Irino

- P-473 Application of TEX86-paleothermometry in the Baltic Sea: Validation and temperature reconstruction of the past 1000 years
Jaap Sinninghe Damsté, Karoline Kabel, Florian Adolphi, Marianne Baas, Matthias Moros
- P-474 Paleosalinity significance of the occurrence and distribution of MTTCs in the Nenjiang Formation of Upper Cretaceous in Songliao Basin, China
Li Wang, Zhiguang Song, Qin Yin, Jiangtao Guo
- P-475 Stable isotopes (C, S) and hydrocarbon biomarkers in Neoproterozoic sediments of the Sierras Bayas Group, Argentina
Mariluz Bagnoud-Velasquez, Jorge E. Spangenberg
- P-476 Geochemical appraisal of palaeovegetation and climate oscillation in the Late Miocene of Western Bulgaria
Maya Stefanova, Dimiter Ivanov
- P-478 The first findings of 12- and 13-monomethylalkanes in dispersed organic matter of Upper Proterozoic and Cambrian of Siberian platform
Aleksey Kontorovich, Vladimir Kashirtsev, Konstantin Nagovitsin, Pyotr Sobolev, Valentina Sukhoruchko, Irina Timoshina
- P-479 Assessment of the 1,14 diol SST proxy based on sediment trap samples from the NW African upwelling area
Eleonora Uliana, Gerard Versteegh, Gesine Mollenhauer, Enno Schefuss
- P-480 The 3 P's* and the Albian oceanic anoxic event (OAE) 1b (*palaeoclimate, palaeoenvironment & palaeoceanography)
Isabel Urrutia
- P-481 A biomarker reconstruction of Holocene changes in rainfall and runoff from Charlotte Harbor (Florida)
Els E. van Soelen, Gregg R. Brooks, Rebekka Larson, Jaap S. Sinninghe Damsté, Gert-Jan Reichert
- P-482 Meter-scale oxygen gradients and selective organic matter degradation: implications for proxy interpretation
Kara Bogus, Karin Zonneveld, David Fischer, Sabine Kasten, Gerard Versteegh
- P-483 Selective aerobic and anaerobic degradation of lipids and palynomorphs in the Eastern Mediterranean since the onset of sapropel S1 deposition
Gerard J.M. Versteegh, Karin A.F. Zonneveld, Gert J. de Lange
- P-484 Coupling of Miocene-Pliocene (7-5 Ma) African climate, surface ocean temperature and marine organic carbon burial: high-resolution, multi-proxy records from the eastern equatorial Atlantic (ODP 959)
Thomas Wagner, Olubunmi Eniola, Erin McClymont
- P-485 Complications in the interpretation of molecular paleotemperature reconstructions using isoprenoid and branched tetraethers: lessons to be learned
Josef Werne, Beth Bernhardt, Martijn Woltering, Melissa Berke, R. Douglas Ricketts, Margarita Caballero, Ellen Hopmans, Stefan Schouten, Jaap Sinninghe Damsté
- P-486 New molecular marker and spectroscopic tools for reconstructing wildfire history
Daniel B. Wiedemeier, Simon G. Haberle, Evelyn S. Krull, Michael W.I. Schmidt
- P-487 Late Quaternary environmental change of Yellow River Basin: an organic geochemical record in Bohai Sea (North China)
Yunping Xu, Wenbing Tan, Dongyan Sun

- P-488 Paleoenvironmental changes from organic matter composition in the California margin sediments (ODP Leg 167, Hole1017E) during the last 45kyrs
Shuichi Yamamoto, Chieko Dairiki, Ryoshi Ishiwatari
- P-489 Branched GDGTs as biomarkers for temperature reconstructions from paleosols. Three case studies and potential complications
Roland Zech, Li Gao, Rafael Tarozo, Yongsong Huang

Poster Session 4 - Thursday 22nd September 2011
13.40 - 15.05
Soil and peat and terrestrial OM 2

- P-491 Methoxy-serratenes as discriminant biomarkers for soils developed under conifer forests
Claude Le Milbeau, Marlène Lavrieux, Jérémy Jacob, Renata Zocatelli, Jean-Robert Disnar
- P-492 Investigating the microbial populations controlling the production and oxidation of methane in water-saturated mineral soils
Katie Lim, Peter Maxfield, Edward Hornibrook, Richard Pancost, Richard Evershed
- P-493 Vegetation and soil organic matter input offshore southeastern Australia based on organic proxies
Raquel Lopes dos Santos, Daniel Wilkins, Patrick De Deckker, Stefan Schouten
- P-494 Sources and quality of particulate organic matter in first-order streams of differing land uses in the York River estuary, VA
Yuehan Lu, Elizabeth Canuel, James Bauer, Randy Chambers, Ed Keesee, Erin Ferer, Amy Barrett
- P-495 Testing branched GDGT-derived proxy parameters in the Arctic Ocean
Gesine Mollenhauer, Konstanze Schipper, Kirsten Fahl, Rüdiger Stein
- P-497 Decomposition of wheat straw buried in a grassland soil: the fungi involved and the products obtained
Rachel Muito-Kabuyah, Clare Robinson, Bart van Dongen
- P-498 Molecular and isotope characterization of soil lipids along a savannah (C4)/eucalyptus (C3) chronosequence (Pointe-Noire, Congo)
Thanh Thuy Nguyen Tu, Mercedes Mendez-Millan, Céline Egasse, Sylvie Derenne, Bernd Zeller, Delphine Derrien, Jeremy Jacob, Christine Hatté
- P-499 The relationship between peatland hydrology, biogeochemistry and biomarker assemblages
Rich Pancost, Richard Evershed, Edward Hornibrook, Erin McClymont, Elizabeth Bingham, Lidia Chaves, Katie Lim, Frank Chambers
- P-500 Geochemical characterization of the impact of landuse change on soil and riverine organic matter dynamics in a pristine tropical rainforest, Guyana
Ryan Pereira, Robert Spencer, Peter Hernes, Rachael Dyda, Isabella Bovolo, Geoff Parkin, Thomas Wagner
- P-501 Land use and climatic effects on hydrogen isotope compositions of long-chain n-alkanes and distribution of tetraether lipids in soils
Janet Rethemeyer, Michael Lappé, Stefan Schouten, Pascal Boeckx, Enno Schefuß
- P-502 Soil organic matter characteristics in the permafrost terrain, European Russian Arctic:

lability, storage, and impact of thawing
Joyanto Routh, Gustaf Hugelius, Timothy Filley, Patrick Crill, Peter Kuhry

- P-503 Geochemical characterization of a meadow soil
Tünde Nyilas, Magdolna Hetényi, Nóra Czirbus, Anita Gál, Csanád Sajgó
- P-504 Hydrocarbons occurring in peats of different types and origins (Southern Taiga of Western Siberia, Russia)
Olga Serebrennikova, Yulia Preis, Elena Gulaya
- P-505 Organic carbon composition and routing in alpine headwaters: the importance of storms
Jo Smith, Niels Hovius, Albert Galy, Jens Turowski
- P-506 Preservation of Particulate Organic Carbon from an active mountain belt in shallow marine sediments
Robert Sparkes, Niels Hovius, Albert Galy, Vasant Kumar
- P-507 Dynamics of soil organic matter and mineral nitrogen in soil: investigation into a complex relationship
Priscillia Sémaoune, Joëlle Templier, Mathieu Sébilo, Christelle Anquetil, Sylvie Derenne
- P-508 Deltaic sediments as recorders of permafrost carbon dynamics within Arctic drainage basins: a case study from the Mackenzie River
Jorien Vonk, Xiaojuan Feng, Angela Dickens, Zainab Hussain, Bokyoung Kim, Liviu Giosan, Sam Zipper, Daniel Montluçon, Timothy Eglinton
- P-509 Exploiting isotopic, organic, and inorganic geochemical tracers of terrestrial matter in suspended particles of the Fraser River, British Columbia
Britta M. Voss, Bernhard Peucker-Ehrenbrink, Timothy I. Eglinton, Valier Galy, Daniel B. Montluçon, Ekaterina Bulygina, R. Max Holmes, Gregory Fiske, Li Xu, Sharon L. Gillies, Steven Marsh, Alida Janmaat, Bryce Downey, Jenna Fanslau, Helena Fraser, Garrett Macklam-Harron
- P-510 Testing the potential of bacterial branched tetraether lipids as temperature proxy in peat and immature coal deposits
Johan Weijers, Philipp Steinmann, Ellen Hopmans, Stefan Schouten, Jaap Sinninghe Damsté
- P-511 The effect of soil moisture on biosynthesis of lipids in plants and their incorporation and preservation in soils
Guido Wiesenberg, Bidisha Majumder, Martina Gocke, Jennifer Dungait, Liz Dixon, Roland Bol
- P-512 The effect of fire intensity on alkane composition of plant organic matter and soils affected by fire
Guido Wiesenberg, Andreas Nestler, Stefanie Birkner, Ulrich Hambach
- P-513 Anaerobic oxidation of plant-derived 3-phenylpropanoids by the denitrifying bacterium "Aromatoleum aromaticum" EbN1
Heinz Wilkes, Kathleen Trautwein, Ralf Rabus
- P-514 Molecular characterization of terrestrial, permafrost-derived organic matter along a soil-river-ocean transect (Lena Delta, NE Siberia)
Maria Winterfeld, Miguel Goni, Gesine Mollenhauer
- P-515 Variability of terrestrially-derived particulate organic carbon in the lower Yangtze River (Changjiang): A monsoon dominated water system

Ying Wu, Hao Yu, Jing Zhang, ZhuoYi Zhu

P-516

Distributions of branched tetraethers in soils and suspended particulate matter in the Amazon basin: implications for the MBT/CBT palaeothermometer

Claudia Zell, Jung-Hyun Kim, Marie-Paule Bonnet, Gwenaël Abril, Jean-Michel Mortillaro, Rodrigo Sobrinho, Jaap Sinninghe Damsté