

Abstracts 2005 – 2009

- Kempe, S., & Kazmierczak, J., 2005: Carbonates and hydrochemistry of crater lakes (Kauhako, Hawai'i; Satonda, Indonesia; Niuafu'ou, Tonga): clues for understanding the evolution of early ocean chemistry. – Trends and Developments in Carbonate Sedimentology and Paleontology, Flügel-Colloquium 2005, April 13-15, Erlangen, Abstracts: 26-27.
- Kaźmierczak J., Kühn, M., Fenchel, T., Lacka, B., Malkowski, K., Kempe, S., Kremer, B., Kulicki, C., and Kuźniarski, M., 2005: Calcification of cultured marine cyanobacterial mats: an example from Øresund, Denmark. – EGU Geophysical Research Abstracts, 7: 04960.
- López-García, P., Benzerara, K., Menguy, N., Kaźmierczak J., Kempe, S., Guyot, F., and Moreira, D., 2005: Microbial diversity and spectroscopic study of the aragonite microbialites from the alkaline Lake Van (Turkey). – EGU Geophysical Research Abstracts, 7: 03648.
- Kempe, S., Bauer, I., Dirks, H., Dorsten, I. and Hüser, A., 2005: Naturally damaged speleothems, a new facies caused by Glacial cave ice? – EGU Geophysical Research Abstracts, 7: 00151.
- Kempe, S. & Al-Malabeh, A., 2005: Newly discovered lava tunnels of the Al-Shaam plateau basalts, Jordan. – EGU Geophysical Research Abstracts, 7: 03204.
- Hartmann, J. & Kempe, S., 2005: Are anthropogenic induced changes in nutrient ratios of the Ebro influencing the ecosystem of the Catalanian coast. – EGU Geophysical Research Abstracts, 7: 03427.
- Hartmann, J., Fernandez-Steeger, T., & Kempe, S., 2005: First results in the attempt to adopt a Data Mining Strategy for distinguishing global, regional and local factors reflecting patterns in river water chemistry. – EGU Geophysical Research Abstracts, 7: 03441.
- Hartmann, J. & Kempe, S., 2005: Increasing Si trends in the Newkar river system and implications to elemental ratios of nutrients. – EGU Geophysical Research Abstracts, 7: 03435.
- Al-Malabeh, A. and Kempe, S., 2005: Discovery of the longest lava cave in the Middle East: Al-Fahda Tunnel Civilization under the Earth Surface, NE-Jordan. - 4th inter. Conf. on Sci. & Techn. in Archaeology & Conservation, Zarka-Jordan. Abstr. Vol.: p.4..
- Kempe, S., 2005: Entwicklung von Karstlandschaften.- Tübinger Geowissensch. Arb. A73: p.60.
- Kempe, S. & Kazmierczak, J., 2006: Calcium and Living Systems: Lessons from life on Earth for potential biogenesis on Europa. – NASA Focus Group Europa, Febr. 27-27, Ames Research Center.
- Lenhardt, N., Götz, A.E., Hinderer, M., Hornung, J. & Kempe, S., 2006: Palaeoenvironmental reconstruction of the Miocene Tepoztlán Formation using palynology. - XII International Symposium on Volcanospeleology, Tepoztlán, 02.-07.07.2006, Programm and Abstracts: 6.
- and in 2008: Proc. 12th Intern. Symp. on Volcanospeleology, Tepoztlán, Mexico, 2-7 July, 2006, Assoc. for Mexican Cave Studies, Bull. 19 and Societed Mexicana de Exploraciones Subterráneas Bol. 7: 137.
- Al-Malabeh, M., Fryhat, M., Henschel, H.-V. & Kempe, S., 2006: Al-Fahde Cave, Jordan, the longest lava cave yet reported from the Arabian Peninsula. - XII International Symposium on Volcanospeleology, Tepoztlán, 02.-07.07.2006, Programm and Abstracts: 23.
- and in 2008: Proc. 12th Intern. Symp. on Volcanospeleology, Tepoztlán, Mexico, 2-7 July, 2006, Assoc. for Mexican Cave Studies, Bull. 19 and Societed Mexicana de Exploraciones Subterráneas Bol. 7: 143.
- Kempe, S., Al-Malabeh, M., Fryhat, M., & Henschel, H.-V., 2006: State of lava cave research in Jordan. - XII International Symposium on Volcanospeleology, Tepoztlán, 02.-07.07.2006, Programm and Abstracts: 24.
- and in 2008: Proc. 12th Intern. Symp. on Volcanospeleology, Tepoztlán, Mexico, 2-7 July, 2006, Assoc. for Mexican Cave Studies, Bull. 19 and Societed Mexicana de Exploraciones Subterráneas Bol. 7: 143-144.
- Kempe, S., & Henschel, H.-V., 2006: Thurston Lava Tube, the most visited tube in the world. What do we know about it? - XII International Symposium on Volcanospeleology, Tepoztlán, 02.-07.07.2006, Programm and Abstracts: 28.
- and in 2008: Proc. 12th Intern. Symp. on Volcanospeleology, Tepoztlán, Mexico, 2-7 July, 2006, Assoc. for Mexican Cave Studies, Bull. 19 and Societed Mexicana de Exploraciones Subterráneas Bol. 7: 145.
- Kempe, S., Henschel, H.-V., Shick, H., & Truesdell, F., 2006: Geology and Genesis of the Kamakalepo Cave System in Mauna Loa lavas, Na'alehu, Hawaii. - XII International Symposium on Volcanospeleology, Tepoztlán, 02.-07.07.2006, Programm and Abstracts: 29.

- and in 2008: Proc. 12th Intern. Symp. on Vulcanospeleology, Tepoztlán, Mexico, 2-7 July, 2006, Assoc. for Mexican Cave Studies, Bull. 19 and Sociedad Mexicana de Exploraciones Subterráneas Bol. 7: 145-146.
- Kempe, S., Henschel, H.-V., Shick, H., & Hansen, B., 2006: Archeology of the Kamakalepo/Waipoli/Stonehenge area, underground fortresses, living quarters and Petroglyph fields. - XII International Symposium on Vulcanospeleology, Tepoztlán, 02.-07.07.2006, Programm and Abstracts: 30.
- and in 2008: Proc. 12th Intern. Symp. on Vulcanospeleology, Tepoztlán, Mexico, 2-7 July, 2006, Assoc. for Mexican Cave Studies, Bull. 19 and Sociedad Mexicana de Exploraciones Subterráneas Bol. 7: 146-147.
- Kempe, S., 2006: The Baumann's Cave at Rübeland/Harz, Germany, one of the caves noted in early science history for its cave bear and cave hyena bone deposits.- Abstract Book 12th Intern. Cave Bear Symp., Airdea, Macedonia, Greece, 2-5 November 2006: 29-30.
- Kempe, S., Al-Malabeh, M., Frehat, M., & Henschel, H.-V., 2006: Hyena caves in Jordan.- Abstract Book 12th Intern. Cave Bear Symp., Airdea, Macedonia, Greece, 2-5 November 2006: 31-32.
- Schmidt, C., Hartmann, J., Schiedek, T., Kempe, S., Schüth, C., 2006: Zeitreihencharakteristik organischer Schadstoffe im Rhein. FH-DGG Tagung, 24.5.-28.5.2006, Cottbus.
- Schiedek, T., Schmidt, C., Hartmann, J., Kempe, S., Schüth, C., 2006: Time series analyses of organic contaminants in the river Rhine. EGU General Assembly 2.4.-7.4.2006, Vienna.
- Jansen, N., Hartmann, J., Kempe, S., 2007: Ein neuer Ansatz zur Verwitterungsmodellierung. –Bochum (Poster).
- Kempe, S., Al-Malabeh, A., Frehat, M., & Henschel, H.V., 2007: Hyena Caves in the Jordanian Desert. – Abstracts Vol. Sixth International Symposium on Eastern Mediterranean Geology, Amman April 2-5, 2007: 279-281.
- Abu Ghazleh, S., Kempe, S., Harres, H.P. Abed, A., 2007: New High Level Terraces of Lake Lisan in the Eastern Coast at 148 m Below Sea Level, Dead Sea, Jordan. - Abstracts Vol. Sixth International Symposium on Eastern Mediterranean Geology, Amman April 2-5, 2007: 125.
- Al-Malabeh, A., Kempe, S., Frehat, M. & Henschel, H.V., 2007: Geo-conservation of the Newly Discovered Kufranja Cave, N-Jordan, a Potential Natural Heritage Site. – Abstracts Vol. Sixth International Symposium on Eastern Mediterranean Geology, Amman April 2-5, 2007: 174.
- Quentin Gautier^{1,2}, Karim Benzerara¹, David Moreira², Jozef Kazmierczak³, François Guyot¹, Stephan Kempe⁴ and Purificación López-García² 2007: Molecular diversity of cyanobacteria and other members of the microbial community associated to microbialites from Satonda crater lake, Indonesia. – Intern. Algological Congr. Merida, Mexico 2007.
- Kempe, S., Al-Malabeh, A., & Henschel, H.-V., 2007: Lava- und Kalkhöhlen in Jordanien. – Speläologisches Jahrbuch, Verein für Höhlenkunde Westfalen, Tagungsband 2007, Sonderausg. 47. Jahrestagung des Verbandes der deutschen Höhlen- und Karstforscher (VdHK) in Iserlohn-Lethmathe vom 17. bis 20. Mai 2007, 22-25.
- Kempe, S., Kempe, E. & Ketz-Kempe, C., 2007: Frühe Höhlenbeschreibungen durch Frauen: Lady Elisabeth Craven und Johanna Schopenhauer. – Speläologisches Jahrbuch, Verein für Höhlenkunde Westfalen, Tagungsband 2007, Sonderausg. 47. Jahrestagung des Verbandes der deutschen Höhlen- und Karstforscher (VdHK) in Iserlohn-Lethmathe vom 17. bis 20. Mai 2007, 43-44.
- Josset, L., F. Westall, B. A. Hofmann, J. G. Spray, C. Cockell, S. Kempe, A. D. Griffiths, A. Coradini, L. Colangeli, D. Koschny, D. Pullan, 2007: CLUPI: Close-Up Imager on EXOMARS Rover J.- **European Space Agency, European Mars Science and Exploration Conference: Mars Express & ExoMars, ESTEC, Noordwijk, The Netherlands, 12 - 16 November, 2007.**
- Jansen, N., Hartmann, J., Kempe, S., 2007: Ein neuer Ansatz zur Verwitterungsmodellierung. –Bochum (Poster).
- Hartmann J., Jansen, N., Dürr, H.H., Kempe, S., 2007: High riverine fluxes of dissolved silica from Japan – the influence of lithology. Geophysical Research Abstracts. EGU General Assembly 2007, Vienna.
- Hartmann, J., Jansen, N., Kempe, S., Dürr, H.H., 2007: Geochemistry of the river Rhine and the upper Danube: Recent trends and lithological influence on baselines. International Symposium of the 21st Century Center of Excellence, Okayama University: Environmental Issues of World Major River Basins. 19.1.2007.
- Josset, J.-L., Westall, F., Hofmann, B.A., Spray, J.G., Cocekell, C., Kempe, S., Griffiths, A.D., Coradini, A., Colangeli, L., Koschny, D., Pullan, D., 2008: CLUPI: Close-UP Imager on the ExoMars Mission rover. – Geophys. Res. Abstr. Vol. 10 EGU2008-A-10806, 2008, EGU General Assembly, Vienna.
- Abu Ghazleh, S., & Kempe, S., 2008: Stromatolite reefs on Lake Lisan terraces, eastern Dead Sea, Jordan. – Geophysical Res. Abstr. Vol 10, EGU2008-A-00000, EGU General Assembly, Vienna.

- Kempe, S., Abu Ghazleh, S., Hartmann, J., & Jansen, N., 2008: The dramatic drop of the Dead Sea at 0.44 km³/a and its recently (1932-2007) formed terraces. – Geophysical Res. Abstr. Vol 10, EGU2008-A-00000, EGU General Assembly, Vienna.
- Kempe, S., 2008: Immanuel Kant's remark on lava cave formation in 1803 and his possible sources. – Proceedings 13th Intern. Sympos. on Volcanospeleology, Jeju Island, Korea, 1.-5. Sept. 2008: 35-37.
- Kempe, S., Al-Malabeh, A. & Henschel, H.V., 2008: Kempe Cave: an unusual, meandering lava tunnel cave in NE-Jordan. – Proceedings 13th Intern. Sympos. on Volcanospeleology, Jeju Island, Korea, 1.-5. Sept. 2008: 38-39.
- Kazmierczak, J., Altermann, W., Kremer, B., Kempe, S., & Eriksson, P.G., 2008: Late Archean mineralised cyanobacterial mats and their modern analogs. - European Planetary Science Congress, EPSC Abstracts, Vol. 3, EPSC2008-A-00493. Session ON9: Habitability in the early Earth and Mars planetary systems.
- Kempe, S., Hartmann, J., & Kazmierczak, J., 2008: Recent alkaline lakes: clues to understanding the evolution of early planetary alkaline oceans and biogenesis. - European Planetary Science Congress, EPSC Abstracts, Vol. 3, EPSC2008-A-00359. Session ON9: Habitability in the early Earth and Mars planetary systems.
- Kazmierczak, J., Kempe, S., López-García, P., Tavera, R., Moreira, D. 2008. Modern and sub-recent carbonate microbialites from the alkaline crater lake Alchichica, Mexico. In: Reitner, J., Queric, N.-V., Reich, M. (Eds.), Geobiology of Stromatolites. International Kalkowsky-Symposium, Göttingen, October 4-11, 2008. Abstract Volume and Field Guide to Excursions, pp. 85-88, Universitätsdrucke Göttingen.
- Kempe, S., 2009: Siderite weathering as a reaction causing hypogene speleogenesis: the example of the Iberg/Harz/Germany. – In: Klimchouk, A., & Ford, D., (eds.) Hypogene Speleogenesis and Karst Hydrogeology of Artesian Basins, Ukrainian Inst. of Speleology and Karstology, Spec. Pap. 1, Simferopol: 59-60
- Kempe, S., Dirks, D., & Bauer, I. 2009: Hypogene karstification in Saudi Arabia (Layla Lake Sinkholes, Ain Heeth Cave). – In: Klimchouk, A., & Ford, D., (eds.) Hypogene Speleogenesis and Karst Hydrogeology of Artesian Basins, Ukrainian Inst. of Speleology and Karstology, Spec. Pap. 1, Simferopol: 247-251.
- Kempe, S., Al-Malabeh, A., & Henschel, H.-V., 2009: Hypogene karstification in Jordan (Al-Daher Cave, Uwaiyed Cave, Beer Al-Malabeh Sinkhole). – In: Klimchouk, A., & Ford, D., (eds.) Hypogene Speleogenesis and Karst Hydrogeology of Artesian Basins, Ukrainian Inst. of Speleology and Karstology, Spec. Pap. 1, Simferopol: 253-255.
- Al-Malabeh, A., Kempe, S., & Rababa, S. 2008: The Decapolis Aqueduct Tunnel System (Al-Tura – Umm Quis, Jordan): The Longest in Antique History. VI International conf.: Sci. and Tech. in Archaeology and Conservation, Dec. 12. Abstr. Book P.7, Rome- Italy.
- Kempe, S., 2009: Principles of pyroclastic (lava tunnel) formation Submitted to the 15th Intern. Speleological Congress, Kerrville, Texas July 2009.
- Kempe, S., & Henschel, H.-V., 2009: Interpreting the genesis of Thurston Lava Cave, Kilauea, Hawaii. - Submitted to the 15th Intern. Speleological Congress, Kerrville, Texas July 2009.
- Kempe, S., Henschel, H.-V., Schick, H., & Hansen, B., 2009: Archaeology and 14C dates of the Kamakalepo/Waipouli/Stonehenge Area, Nahalehu, Hawaii. - Submitted to the 15th Intern. Speleological Congress, Kerrville, Texas July 2009.
- Kempe, S., Ketz-Kempe, C., & Kempe, E., 2009: Early Cave visits by Women and the travel accounts OF Lady Elisabeth Craven to the Grotto of Antiparos (1786) and Johanna Schopenhauer to Peaks Cavern (1803). - Submitted to the 15th Intern. Speleological Congress, Kerrville, Texas July 2009.
- Kempe, S., Al-Malabeh, A. & Henschel, H.-V., 2009: The possible speleogene-hypogene origin of the Warda Iron Ore Mine deposit (Jordan). – Submitted to the 15th Intern. Speleological Congress, Kerrville, Texas July 2009.
- Kempe, S., Al-Malabeh, A. & Henschel, H.-V., 2009: Jordanien lava caves and their importance to understand lava plateaus. - Submitted to the 15th Intern. Speleological Congress, Kerrville, Texas July 2009.
- Kempe, S. & Hubrich, H.-P., 2009: Visitor inscriptions in the old passage of Postojnska jama (Adelsberger Grotte) / Slovenia. - Submitted to the 15th Intern. Speleological Congress, Kerrville, Texas July 2009.
- Kempe, S., Dirks, H., & Bauer, I., 2009: The sinkholes of Lakes, Saudi Arabia and their singular sublacustrine gypsum tufa. - Submitted to the 15th Intern. Speleological Congress, Kerrville, Texas July 2009.
- Kempe, S., Bauer, I. & Dirks, H., 2009: Glacial cave ice as the cause of widespread destruction of interglacial and interstadial speleothem generations in Central Europe. - Submitted to the 15th Intern. Speleological Congress, Kerrville, Texas July 2009.

- Kempe, S., & Suckstorff, K., 2009: Josef Anton Nagel and his 1748 manuscript about his cave expedition to Carniola (Slovenia) and Moravia (Czech Republic). - Submitted to the 15th Intern. Speleological Congress, Kerrville, Texas July 2009.
- Lauerwald, R., Jansen, N., Hartmann, J., Dürr, H.H., Loos, S., Kempe, S., & Middelkoop H., 2009: Modeling limnic DSi retention for the conterminous USA. - Submitted to EGU, Vienna 2009.
- Jansen, N., Lauerwald, R., Hartmann, J., Dürr, H.H., Loos, S., Kempe, S. & Middelkoop H., 2009: A continental scale model for dissolved silica mobilization by chemical weathering for North America. – Submitted to EGU, Vienna 2009.
- Halliday, W.R., Okubo, C.H., Kempe, S., Garman, M., Garman, S., and Wynne, J.J., 2009: Rheogenic caves and cavernous structures of Kalaupapa Peninsula, Molokai Island, Hawaii, USA, a potential Mars analog revisited. A contribution of the Hawaii Speleological Survey of the National Speleological Society. GSA Ann. Meeting, Portland, Abstract 66-4.
- Kazmierczak, J., & Kempe, S., 2009: Mineral products of alkaline endorheic and caldera lakes as planetary biosignatures. European Science Foundation Exploratory Workshop on *Biosignatures On Exoplanets; The Identity Of Life* (Mason, N. & Szuskiewicz, E. Convenors), Mulhouse (France), 22-25 June 2009.