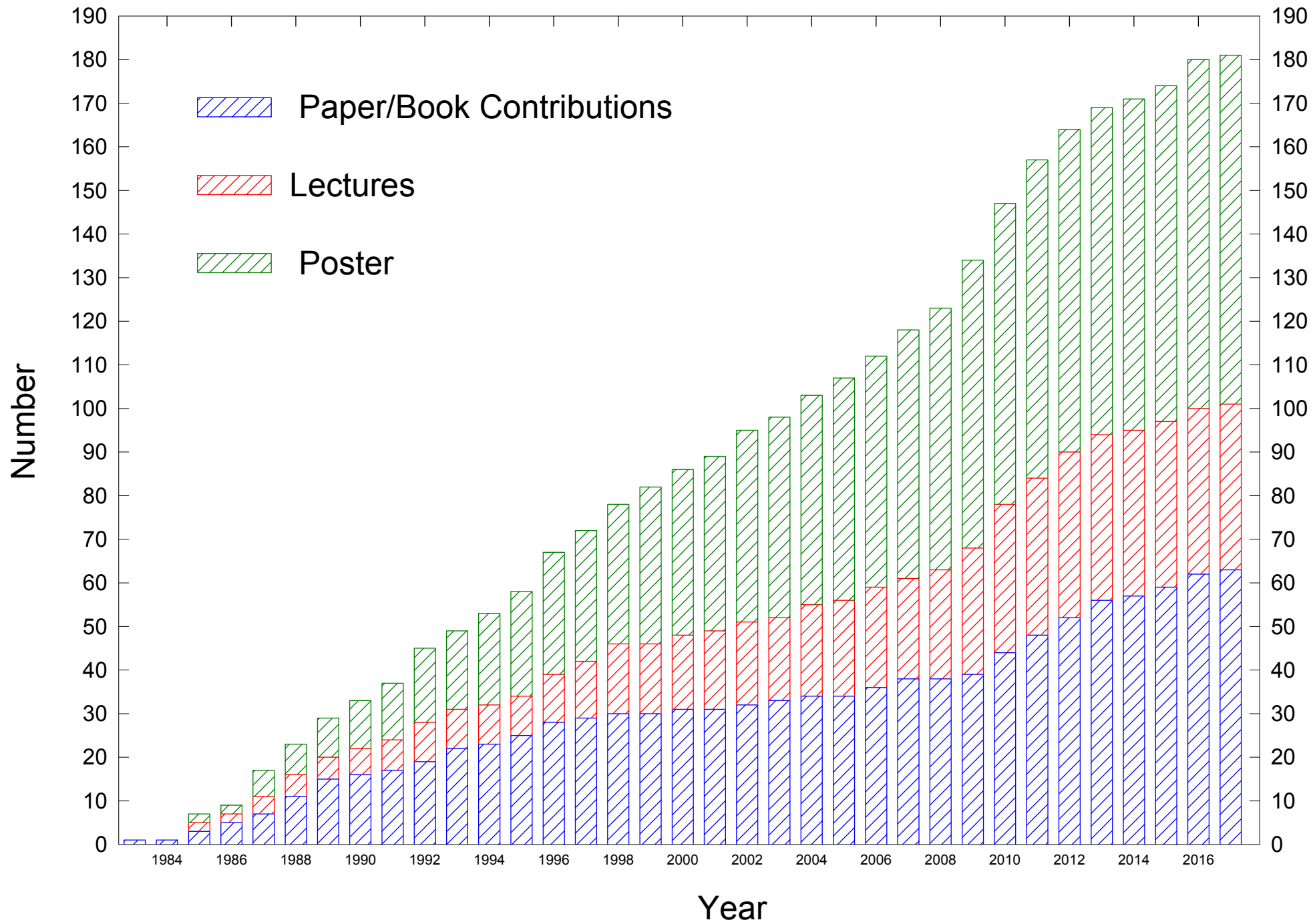


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1976-1979	Study of Biology, University of Bielefeld
1979-1981	Study of Biology, University of Göttingen
1981	Diploma, University of Göttingen, Microbiology, Functional Inside Out and Right Side Out Vesicles from <i>E. coli</i> (Prof. Dr. F. Mayer)
1983	Labwork, ETH Zürich/Switzerland, Cryoembedding of Bacteria (Prof. Dr. M. Müller)
1984	PhD, University of Göttingen, Microbiology, Localization of EcoRI RE (Prof. Dr. F. Mayer)
1984-1986	Postdoc, University of Göttingen, Microbiology, Localization of EcoRI Methylase (Prof. Dr. F. Mayer)
1986-1988	Postdoc, University of Georgia, Athens, GA, USA, Microbiology, Chlorophenol Degradation under Methanogenic Conditions (Prof. Dr. J. Wiegel)
1988	Postdoc, University of Göttingen, Microbiology, Structure of Beef Heart Mitochondrial ATPase (Prof. Dr. F. Mayer)
1988	Akademischer Rat, Saarland University, Applied Microbiology, Biological Hydrogen Production (Prof. Dr. F. Giffhorn)
1994	Akademischer Oberrat, Saarland University, Phototrophic Phenol Degradation, Aerobic PAH Degradation (Prof. Dr. F. Giffhorn)
2001-2005	Co-Coordinator (with Prof. Dr. Giffhorn) of the small collaborative FP5 EU project NEPSA
2005	Akademischer Direktor, Saarland University, Molecular Biology of Esterases and Dehydrogenases (Prof. Dr. F. Giffhorn)
2008	Akademischer Direktor, Saarland University, Evolution of Dehydrogenases for Electrochemical Co-factor Regeneration (Prof. Dr. K. Römisch)
2008-2011	Co-Coordinator (with Prof. Dr. Hempelmann) of the small collaborative FP7 EU project ERUDESP
2012	Extraordinary Professor, Saarland University

Publications (until June 2017)



Paper, Books, Reviews:

1. Widdel, F., G.W. Kohring, F. Mayer: Studies on dissimilatory sulfate reducing bacteria that decompose fatty acids. Arch. Microbiol. 134, 286-294 (1983)
2. Kohring, G.W., F. Mayer, H. Mayer: Immunoelectron micro-scopic localization of the restriction endonuclease EcoRI in *Escherichia coli* Bs 5. Eur. J. Cell Biol. 37; 1-6 (1985)
3. Duchrow, M., G.W. Kohring, F. Giffhorn: Virulence as a consequence of genome instability of a novel temperate bacteriophage of *Rhodobacter sphaeroides* Y. Arch. Microbiol. 142, 141-147 (1985)
4. Purrini, K., G.W. Kohring: Light- and electron microscopic studies on a new microsporidian, *Pleistophora tanzaniae* n. sp. (Microsporida: Microspora) parasitizing the *Oryctes monoceros* Oliv. (Scarabidae, Coleoptera). Arch. Protistenkd. 131, 281-286 (1986)
5. Ossmer, R., T. Mund, L. Hartzell, U. Konheiser, G.W. Kohring, A. Klein, R.S. Wolfe, G. Gottschalk, F. Mayer: Immunocytochemical localization of component C of the methyl reductase system in *Methanococcus voltae* and *Methanobacterium thermoautotrophicum*. Proc. Natl. Acad. Sci. USA 83, 5789-5792 (1986)
6. Kohring, G.W., F. Mayer: In situ distribution of EcoRI methylase and restriction endonuclease in cells of *Escherichia coli* Bs 5. FEBS letters 216, 207-210 (1987)
7. Purrini, K., G.W. Kohring: *Ophryocystis oryctesi* n. sp.. (Ophryocystidae, Neogregarinida), a new gregarine parasitizing the rhinoceros beetle, *Oryctes monoceros* Oliv. (Scarabidae, Coleoptera). Zool. Anz. 218, 237-245 (1987)
8. Rohde, M., H. Gerberding, T. Mund, G.W. Kohring: Immuno electron microscopic localization of bacterial enzymes: Pre- and post-embedding labeling techniques on resin embedded samples. In F. Mayer (ed.): Electron Microscopy in Microbiology. Meth. Microbiol. 10, 175-210 (1988), Academic Press, London
9. Purrini, K., G.W. Kohring, Z. Seguni: Studies on a new disease in a natural population of migratory locusts, *Locusta migratoria*, caused by an entomopoxvirus. J. Invert. Path. 51, 284-286 (1988)
10. Purrini, K., J. Weiser, G.W. Kohring: *Coelosporidium tangae* n. sp. (Protista), a new protist parasitizing a natural population of a field cockroach *Blatta* sp. (Blattaria). Arch. Protistenkd. 136, 273-281 (1988)
11. Kohring, G.W., J. Wiegel: Anaerobic biodegradation capabilities of freshwater lake sediments: Influence of temperature and sulfate concentration on the degradation of 2,4-dichlorophenol. In: G.S. Omenn (ed.): Environmental Biotechnology, Basic Life Sciences 45, 451 (1988), Plenum Press, New York
12. Kohring, G.W., J.E. Rogers, J. Wiegel: Anaerobic biodegradation of 2,4-dichlorophenol in freshwater lake sediments at different temperatures. Appl. Environ. Microbiol. 55, 348-353 (1989)

13. Wiegel, J., S.-U. Kuk, G.W. Kohring: *Clostridium thermobutyricum* sp. nov., a moderate thermophile isolated from a cellulolytic culture, that produces butyrate as the major product. *Int. J. Sys. Bacteriol.* 39, 199-204 (1989)
14. Kohring, G.W., X. Zhang, J. Wiegel: Anaerobic dechlorination of 2,4-dichlorophenol in freshwater sediments in the presence of sulfate. *Appl. Environ. Microbiol.* 55, 2735-2737 (1989)
15. Pingoud, A., U. Pieper, R. Busche, H.J. Ehbrecht, M. Wehrmann, F.U. Gast, J. Feuerstein, A. Wittinghofer, T. Jarchau, G.W. Kohring, F. Mayer: Structural and functional studies on C-P21, V-P21 and the genetically engineered guanine-nucleotide binding domain of EF-TU. In: L. Bosch, L. Kraal and A. Parmeggiana (eds.): *Guanine-nucleotide binding proteins – common structural and functional properties*. NATO advanced science institute series, Series A, Life Sciences, Plenum Press New York, Vol. 165, 215-227 (1989)
16. Wiegel, J., X. Zhang, D.D. Dalton, G.W. Kohring: Degradation of 2,4-dichlorophenol in anaerobic freshwater lake sediments. In: W. Tedder and F.G. Pohland (eds.): *Emerging Technologies for Hazardous Waste Treatment*, ACS-Symposium Books, Washington, USA, 119-141 (1990)
17. Schaper, A., C. Urbanke, G.W. Kohring, G. Maas: Salt dependent changes in structure and dynamics of circular single stranded DNA of filamentous phages of *Escherichia coli*. *J. Biomol. Struct. Dyn.* 8, 1233-1250 (1991)
18. Kohring, G.W., J. Fißler, F. Giffhorn: Degradation of aromatic compounds by purple nonsulfur bacteria. In: D. Behrens, J. Wiesner (eds.): *Mikrobiologische Reinigung von Böden*, DECHEMA, Frankfurt, 263-268 (1992)
19. Kohring, G.W., J. Fißler, B. Hermann, C. Schirra, F. Giffhorn: Anaerobic degradation of substituted aromatic compounds by purple nonsulfur bacteria. In: G. Kreysa, A.J. Driesel (eds.): *DECHEMA Biotechnology Conferences 5*, DECHEMA, Frankfurt, 873-876 (1992)
20. Kohring, G.W., C. Schirra, S. Schmitt, F. Giffhorn: Anaerobic degradation of phenol and chlorinated aromatic compounds by purple nonsulfur bacteria. *International Symposium: Soil Decontamination Using Biological Processes*, Karlsruhe, Deutschland 485-490 (1992)
21. Bochem, P., H. Leonhardt, F. Heinrich, G.W. Kohring, F. Giffhorn: Investigations on the application of two biological on-site processes for the decontamination of soils in the area of a former steel works. *International Symposium: Soil Decontamination Using Biological Processes*, Karlsruhe, Deutschland 859-865 (1992)
22. Wiegel, J., G.W. Kohring, D. Dalton, I. Utkin, Q. Wu, Z. He: Temperature, an important factor in the anaerobic transformation and degradation of chlorophenols and PCBs. *International Symposium: Soil Decontamination Using Biological Processes*, Karlsruhe, Deutschland 101-108 (1992)
23. Fißler, J., C. Schirra, G.W. Kohring, F. Giffhorn: Hydrogen production from aromatic acids by *Rhodopseudomonas palustris*. *Appl. Microbiol. Biotechnol.* 41, 395-399 (1994)
24. Fißler, J., G.W. Kohring, F. Giffhorn: Enhanced hydrogen production from aromatic acids by immobilized cells of *Rhodopseudomonas palustris*. *Appl. Microbiol. Biotechnol.* 44, 43-46 (1995)

25. Kohring, G.W., U. Brassat, S. Brossette, F. Giffhorn: Influence of temperature and mixture of PAH's on the degradation of polycyclic aromatic hydrocarbons by isolated *Pseudomonas* strains and enrichment cultures from on site bioremediations. In: A. Huyghebaert (ed.) Proceedings of the 9th Forum for Applied Biotechnology, Gent, Belgien 2603-2606 (1995)
26. Schäfer A., S. Bieg, A. Huwig, G.W. Kohring, F. Giffhorn: Purification by immunoaffinity chromatography, characterization and structural analysis of a thermostable pyranose oxidase from white rot fungus *Phlebiopsis gigantea*. Appl. Environ. Microbiol. 62, 2586-2592 (1996).
27. Kohring, G.W., U. Noh, M. Greuner, F. Giffhorn: Anaerobic degradation of phenol and 2-Cl-phenol by *Rhodopseudomonas palustris*. In: G. Kreysa (ed.) DECHEMA Monographs 133, 551-557 (1996)
28. Kohring, G.W., J. Fißler, C. Schirra, F. Giffhorn: Hydrogen production from aromatic acids by liquid cultures and immobilized cells of *Rhodopseudomonas palustris*. In: Verziroglu, T.N., C.-J. Winter, J.P. Baselt, G. Kreysa (eds.): Hydrogen Energy Progress XI (Proceedings of the 11th World Hydrogen Energy Conference, Stuttgart) (1996), 2743-2748
29. Rando, D., G.W. Kohring, F. Giffhorn: Production, Purification and characterization of glucose oxidase from a newly isolated strain of *Penicillium pinophilum*. Appl. Microbiol. Biotechnol. 48, 34-40 (1997)
30. Noh, U., D. Hormisch, F. Giffhorn, G.W. Kohring: Phototrophic degradation of (2-Cl)-phenol by *Rhodopseudomonas palustris*: a pathway combining anaerobic and aerobic reactions. In: A. Huyghebaert (ed.) Proceedings of the Forum for Applied Biotechnology, Brügge, Belgien 1867-1872 (1998)
31. Hormisch, D., I. Brost, G.W. Kohring, F. Giffhorn: Degradation of acenaphthene and acenaphthylene by isolated bacteria and influence of fertilizers on the PAH degrading population in soils. In: O. Van Cleemput (ed.) Proceedings of the Forum for Applied Biotechnology, Brügge, Belgien 157-160 (2000)
32. Noh, U., S. Heck, F. Giffhorn, G.W. Kohring: Phototrophic transformation of phenol to 4-hydroxyphenylacetate by *Rhodopseudomonas palustris*. Appl. Microbiol. Biotechnol. 58, 830-835 (2002)
33. Kohring, G.W., P. Wiehr, M. Jeworski and F. Giffhorn: Stereoselective oxidation of aliphatic diols and reduction of hydroxy-ketones with galactitol dehydrogenase from *Rhodobacter sphaeroides* D. In: Debergh, P., L. Martens, W. Steurbaut, M. Stevens, O. Van Cleemput, E. Vandamme (eds.) Comm. Agr. Appl. Biol. Sci. 68, 209-211 (2003)
34. Hormisch D., I. Brost, G.W. Kohring, F. Giffhorn, R.M. Kroppenstedt, E. Stackebrandt, P. Färber, W.H. Holzappel: *Mycobacterium fluoranthenorans* sp. nov. a fluoanthene and aflatoxin B1 degrading bacterium from contaminated soils of a former coal gas plant. System. Appl. Microbiol. 27, 653-660 (2004)
35. Zimmer Ch., Platz, T., Cadez, N., F. Giffhorn, G.W. Kohring: A cold active (2R,3R)-(-)-di-O-benzoyl-tartrate hydrolyzing esterase from *Rhodotorula mucilaginosa*. Appl. Microbiol. Biotechnol. 73, 132-140 (2006)
36. Matafonova, G., Shirapova, G., Zimmer, C., Giffhorn, F., Batoev, V., Kohring, G.W.; Degradation of 2,4-dichlorophenol by *Bacillus* sp. isolated from an aeration pond of Baikalsk pulp and paper mill (Russia) Int. Biodet. Biodeg. 58, 209-212 (2006)

37. Gajdzik, J., Szamocki, R., Natter, H., Kohring, G.W., Giffhorn, F., Hempelmann, R.: Electroenzymatic reactions with sorbitol dehydrogenase on gold electrodes. *J. Solid State Electrochem.* 11, 144-149 (2007)
38. Matafonova, G. G., Shirapova, G. S., Zimmer, C., Kohring, G.W., Giffhorn, F., Batoev, V. B., Tsyrenov, V. J.: *Bacillus cereus* is a microbial decomposer of 2,4-dichlorophenol. *Biology Bulletin* 34, 442-445 (2007)
39. Kornberger, P., Gajdzik, J., Natter, H., Wenz, G., Giffhorn, F., Kohring, G.W., Hempelmann, R.: Modification of galactitol dehydrogenase from *Rhodobacter sphaeroides* D for immobilization on polycrystalline gold surfaces, *Langmuir* 25, 12380-12386 (2009)
40. Kornberger, P., Giffhorn, F., Kohring, G.W.: Dehydrogenases, Electrochemical Co-Factor Regeneration, in: *Encyclopedia of Industrial Biotechnology, Bioprocess, Bioseparation, and Cell Technology* (Ed: M.C. Flickinger) Vol. 3, Wiley, Hoboken, NJ, USA, 1888-1898 (2010)
41. Carius, Y., Christian, H., Faust, A., Zander, U., Klink, B.J., Kornberger, P., Kohring, G.W., Giffhorn, F., Scheidg, A.J.: Insight into substrate differentiation of the sugar metabolising enzyme galactitol dehydrogenase from *Rhodobacter sphaeroides* D based on the crystal structures of free and substrate bound enzyme, *J. Biol. Chem.* 285, 20006-20014 (2010)
42. Gajdzik, J., Lenz, J., Natter, H., Kohring, G.W., Giffhorn, F., Wenz, G., Hempelmann, R.: Directed immobilisation of modified galactitol-dehydrogenase on gold electrodes for electrochemical cofactor regeneration, *ECS Transaction* 25, 13-20 (2010)
43. Wang, Z., Etienne, M., Kohring, G.W., Walcarius, A.: Critical effect of polyelectrolytes on the electrochemical response of dehydrogenases entrapped in sol-gel thin films, *Electroanalysis*, 22, 2092 – 2100 (2010)
44. Gajdzik, J., Lenz, J., Natter, H., Hempelmann, R., Kohring, G.W., Giffhorn, F., Manolova, M., Kolb, D.M.: Enzyme immobilisation on self-organised nanopatterned electrode surfaces, *Phys. Chem. Chem. Phys.* 12, 12604-12607 (2010)
45. Demir A.S., Talpur, F.N., Sopaci, S.B., Kohring, G.W., Celik, A.: Affinity magnetic nanoparticles supported immobilization and purification of galactitol dehydrogenase with in situ cofactor regeneration, *J. Biotechnol.* 152, 176-183 (2011)
46. Lenz J. , Gajdzik, J., Natter, H., Hempelmann, R., Kohring, G.W., Giffhorn, F., Manolova, M., Kolb, D.M.: Platinum islands on SAMs as template for enzyme-catalyzed glucose oxidation, *ECS Transaction* 33, 35-40 (2011)
47. Bon Saint Côme, Y., Lalo, H., Wang, Z., Etienne, M., Gajdzik J., Kohring, G.W., Walcarius, A., Hempelmann, R., Kuhn A.: Multiscale-tailored bioelectrode surfaces for optimized catalytic conversion efficiency, *Langmuir* 27, 12737-12744 (2011)
48. Wang, Z., Etienne, M., Kohring, G.W., Bon-Saint-Côme, Y., Kuhn, A., Walcarius, A.: Electro-assisted deposition of sol-gel bio-composite with co-immobilized dehydrogenase and diaphorase, *Electrochimica Acta*, 56, 9032-9040 (2011)
49. Gajdzik, J., Lenz, J., Natter, H., Walcarius, A., Kohring, G.W., Giffhorn, F., Demir, A., Hempelmann, R.: Electrochemical Screening of redox mediators for electrochemical regeneration of the cofactor NADH, *J. Electrochem. Soc.* 159, F10-F16 (2012)
50. Wang, Z., Etienne, M., Quilès, F., Kohring, G.W., Walcarius, A.: Durable Co-factor Immobilization in sol-gel bio-composite thin films for reagentless biosensors and bioreactors using dehydrogenases, *Biosensors&Bioelectronics* 32, 111-117 (2012)

51. Wang, Z., Etienne, M., Pöller, S., Schuhmann, W., Kohring, G.W., Mamane, V., Walcarius, A.: Dehydrogenase-based reagentless biosensors: electrochemically assisted deposition of sol-gel thin films on functionalized carbon nanotubes. *Electroanalysis*, 24, 376-385 (2012)
52. Esteban-Torres, M., Álvarez, Y., Acebrón, I., de las Rivas, D., Muñoz, R., Kohring, G.W., Roa, A.M., Sobrino, M., Mancheño, J.M.: The crystal structure of galactitol-1-phosphate 5-dehydrogenase from *Escherichia coli* K12 provides insights into its anomalous behavior on IMAC processes, *FEBS Lett.*, 586, 3127-3133 (2012)
53. Bon Saint Côme, Y., Lalo, H., Wang, Z., Kohring, G.W., Hempelmann, R., Etienne, M., Alain Walcarius, A., Kuhn, A: Interest of the sol-gel approach for multiscale tailoring of porous bioelectrode surfaces. *Electroanalysis*, 25, 621-629 (2013)
54. Urbanova, V., Kohring, G.W., Klein, T., Wang, Z., Mert, O., Emrullahoglu, M., Buran, K., Demir, A., Etienne, M., Walcarius, A.: Sol-gel approaches for elaboration of polyol dehydrogenase-based bioelectrodes. *Z. Physik. Chem.* 227, 667-689 (2013)
55. Wang, Z., Etienne, M., Urbanova, V., Kohring, G.W., Walcarius, A.: Reagentless D-sorbitol biosensor based on D-sorbitol dehydrogenase immobilized in sol-gel/carbon nanotubes/poly(methylene green) composite. *Anal. Bioanal. Chem.* 405, 3899-3906 (2013)
56. Schu, M., Faust, A., Stosik B., Kohring, G.W., Giffhorn F., Scheidig A.: The Crystal structure of substrate free 1,5-anhydro-D-fructose reductase from *Sinorhizobium meliloti* 1021 reveals an open enzyme conformation. *Acta Crystallogr. F* 69, 844-849 (2013)
57. Gauer, S., Otten, H., Wang, Z., Etienne, M., Bjerrum, M.J., Lo Leggio, L., Walcarius, A., Giffhorn, F., Kohring, G.W.: An L-glucitol oxidizing dehydrogenase from *Bradyrhizobium japonicum* USDA 110 for production of D-sorbose with enzymatic or electrochemical co-factor regeneration, *Appl. Microbiol. Biotechnol.* 98, 3023-3032 (2014)
58. Mazurenko, I., Ghach, W., Kohring, G.W., Despas, C., Walcarius, A., Etienne, M.: Immobilization of membrane-bounded (S)-mandelate dehydrogenase in sol-gel matrix for electroenzymatic synthesis. *Bioelectrochem.* 104, 65-70 (2015)
59. Benavente, R., Esteban-Torres, M., Kohring, G.W., Cortés-Cabrera, A., Sánchez-Murcia, P.A., Gago, F., Acebrón, I., De Las Rivas, B., Muñoz, R., Mancheño J.M.: Enantioselective oxidation of galactitol-1-phosphate by galactitol-1-phosphate 5-dehydrogenase from *Escherichia coli*, *Acta Cryst.* D71, 1540-1554 (2015)
60. Mazurenko, I., Etienne, M., Kohring, G.W., Lopicque, F., Walcarius, A.: Enzymatic bioreactor for simultaneous electrosynthesis and energy production, *Electrochimica Acta* 199, 342-348 (2016)
61. Zhang, L., Vilà, N., Klein, T., Mazurenko, I., Kohring, G.W., Walcarius, A., Etienne, M.: Immobilization of cysteine-tagged proteins on carbon electrode surfaces by thiol-ene click chemistry, *ACS Appl. Mater. Interfaces* 8, 17591-17598 (2016)
62. Fredslund, F., Otten, H., Gemperlein, S., Poulsen, J.C.N., Carius, Y., Kohring, G.W., Lo Leggio, L.: Structural characterization of the thermostable *Bradyrhizobium japonicum* D-sorbitol dehydrogenase. *Acta Cryst.* F72, 846-852 (2016)
63. Zhang, L., Vilà, N., Kohring, G.W., Walcarius, A., Etienne, M.: Covalent immobilization of (2,2'-Bipyridyl)(Pentamethylcyclopentadienyl)-Rhodium complex on a porous carbon electrode for efficient electrocatalytic NADH regeneration. *ACS Catalysis* 7, 4386-4392 (2017)

Lectures: (Speaker in bold):

1. **Kohring, G.W.**, F. Mayer: Lokalisierung der Restriktions-endonuclease EcoRI in *Escherichia coli* Bs 5. Jahrestagung der American Society for Microbiology (ASM) local branch FRG in Würzburg, BRD (1985)
2. **Kohring, G.W.**, H. Gerberding, W. Johannssen, F. Mayer: Lokalisierung und DNA Bindungsstellen der Restriktions-endonuclease EcoRI. Jahrestagung der Deutschen Gesellschaft für Biophysik in Hünfeld, BRD (1985)
3. **Kohring, G.W.**, J. Wiegel: Influence of temperature on the anaerobic degradation of substituted phenols in freshwater lake sediments. Jahrestagung der American Society for Microbiology (ASM) in Atlanta, Georgia, USA (1987)
4. **Kohring G.W.**, J. Wiegel: Anaerobic biodegradation of substituted phenols in freshwater lake sediments: Effect of temperature and sulfate concentration. Jahrestagung der Society of Environmental Toxicology and Chemistry (SETAC) in Pensacola, Florida, USA (1987)
5. **Kohring, G.W.**, X. Zhang, D.D. Dalton, J. Wiegel: Anaerobic degradation of 2,4-dichloroaromatics: Temperature effect and enrichment of degrading organisms. Jahrestagung der American Society for Microbiology (ASM) in Miami Beach, Florida, USA (1988)
6. **Kohring, G.W.**: Anaerobic degradation of aromatic compounds and hydrogen production by phototrophic bacteria. University of Georgia, Center for Biological Resource Recovery, Athens, Georgia, USA (1990)
7. **Kohring, G.W.**, J. Fißler, F. Giffhorn: Hydrogen Production by purple nonsulfur bacteria during growth on aromatic compounds. VII International Symposium on Photosynthetic Procaryotes in Amherst, Massachusetts, USA (1991)
8. **Kohring, G.W.**, J. Fißler, B. Hermann, C.Schirra, F.Giffhorn: Anaerober Abbau substituierter Aromate durch schwefelfreie Purpurbakterien. 10. DECHEMA Jahrestagung der Biotechnologen, Karlsruhe, Deutschland (1992)
9. **Wiegel, J.**, G.W. Kohring, D. Dalton, I. Utkin, Q. Wu, Z. He: Temperature, an important factor in the anaerobic transformation and degradation of chlorophenols and PCBs. International Symposium: Soil Decontamination Using Biological Processes, Karlsruhe, Deutschland (1992)
10. **Noh, U.**, F. Giffhorn, G.W. Kohring: Phototropher Abbau von Phenol durch schwefelfreie Purpurbakterien. DECHEMA Jahrestagung in Wiesbaden, Deutschland (1996)
11. **Kohring, G.W.**, U. Noh, M. Greuner, F. Giffhorn: Anaerobic degradation of phenol and 2-chlorophenol by *Rhodopseudomonas palustris*. 10th International Biodeterioration and Biodegradation Symposium, Hamburg, Deutschland (1996)

12. **Noh, U.**, F. Giffhorn, G.W. Kohring: Phototrophic degradation of (2-Cl-)phenol by *Rhodopseudomonas palustris*: a pathway coupling anaerobic and aerobic reactions. VAAM Frühjahrstagung in Hamburg, Deutschland (1997)
13. **Kohring, G.W.**, U. Noh, F. Giffhorn: Phototrophe Transformation von Phenol und 2-Cl-Phenol durch *Rhodopseudomonas palustris*. Jahrestreffen des DFG-Schwerpunkts "Neuartige Reaktionen und Katalysemechanismen bei anaeroben Mikroorganismen" in Freiburg (1997)
14. **Hormisch, D.**, U. Noh, F. Giffhorn, G.W. Kohring: Aerobic growth of *Rhodopseudomonas palustris* PL1 with 4-hydroxyphenylacetic acid and analogous compounds. VAAM Frühjahrstagung in Frankfurt, Deutschland (1998)
15. **Noh, U.**, D. Hormisch, F. Giffhorn, G.W. Kohring: Abbau von (2-Cl)-Phenol durch *Rhodopseudomonas palustris*: Eine Kopplung von anaeroben und aeroben Reaktionen. DECHEMA Jahrestagung in Wiesbaden, Deutschland (1998)
16. **Kohring, G.W.**, U. Noh, D. Hormisch, F. Giffhorn: Phototrophic degradation of (2-Cl-)phenol by *Rhodopseudomonas palustris*: a pathway combining anaerobic and aerobic reactions. Forum for Applied Biotechnology, Brügge, Belgien (1998)
17. **Kohring, G.W.**, U. Noh, D. Hormisch, F. Giffhorn: Phototrophic degradation of (2-Cl-)phenol by *Rhodopseudomonas palustris*: a pathway combining anaerobic and aerobic reactions. Microbiological Colloquium, University of Georgia, Athens GA, USA (2000)
18. **Kohring, G.W.**, T. Platz, F. Giffhorn: Benzoyltartrat-Esterase aus der Hefe *Rhodotorula minuta*. Mikrobiologisches Kolloquium, Universität des Saarlandes, Saarbrücken (2001)
19. **Kohring, G.W.**, Ch. Zimmer, A. Kühn, T. Platz, F. Giffhorn: Biocatalytic modification of 1,5-anhydro-D-fructose. 2nd NEPSA-Meeting, Universität des Saarlandes, Saarbrücken (2002)
20. **Zimmer, Ch.**, T. Platz, F. Giffhorn, G.W. Kohring: Eine kälteaktive Benzoyl-esterase aus *Rhodotorula mucilaginosa*. Biopespectives, Wiesbaden (2004)
21. **Kohring, G.W.**, C. Schaum, Ch. Zimmer, F. Giffhorn: Isolierung und Charakterisierung der Acenaphthenol-Dehydrogenase aus *Sphingobium herbicidovorans* FA3g. Mikrobiologisches Kolloquium, Universität des Saarlandes, Saarbrücken (2004)
22. **Kohring, G.W.**, Ch. Zimmer, M. Hutter, F. Giffhorn: Charakterisierung und Anwendungsbereiche der Galactitol-Dehydrogenase aus *Rhodobacter sphaeroides* D. Mikrobiologisches Kolloquium, Universität des Saarlandes, Saarbrücken (2005)
23. Zimmer Ch., F. Giffhorn, **G.W. Kohring**: A cold active (2R,3R)-(-)-di-O-benzoyl-tartrate hydrolyzing esterase from *Rhodotorula mucilaginosa*. DECHEMA Jahrestagung Wiesbaden (2006)
24. Dorscheid, S., B. Stosik, M. Pitz, K. Schneider, G. Kohring, E. Heinzle, **F. Giffhorn**: Sustainable and efficient synthesis of rare pharmaceutical sugars based on biocatalysis with engineered enzymes and reaction engineering. Bioperspectives Hannover (2008)

25. **Kornberger, P.**, S. Gauer, J. Gajdzik, R. Hempelmann, F. Giffhorn, G.W. Kohring: Modified galactitol-dehydrogenase from *Rhodobacter sphaeroides* for redox activity with electrochemical cofactor regeneration. Bioperspectives Hannover (2008)
26. **Kohring, G.W.**, P. Kornberger, S. Gauer, T. Klein, F. Giffhorn: Protein engineering of dehydrogenases with evolutive methods and rational design. EU 7th FP meeting ERUDESCP, Nancy, Frankreich (2009)
27. **Gajdzik J.**, J. Lenz, H. Natter, G. Kohring, F. Giffhorn, G. Wenz, R. Hempelmann: Directed immobilisation of modified galactitol-dehydrogenase on gold electrodes for electrochemical cofactor regeneration, 216th ECS (Electrochemical Society) Meeting in Wien, Österreich (2009)
28. Dorscheid, S., M.Pitz, B. Stosik, P. Kornberger, G.W. Kohring, **F. Giffhorn**: Creation of engineered redox enzymes for efficient rare sugar synthesis, 15th German-Japanese Workshop on Enzyme Technology, Rostock (2009)
29. **Kohring, G.-W.**, C. Gumhold, S. Gauer, T. Klein, F. Giffhorn: Protein engineering of D-sorbitol-DH, L-sorbitol-DH and galactitol-DH. EU 7th FP meeting ERUDESCP, Kopenhagen, Dänemark (2009)
30. **Kohring, G.-W.**, S. Gauer, C. Gumhold, T. Klein, F. Giffhorn: Characterization of variants of DSDH, LSDH and GatDH. EU 7th FP meeting ERUDESCP, Bordeaux, Frankreich (2010)
31. **Gajdzik, J.**, J. Lenz, H. Natter, A. Walcarius, G. W. Kohring, F. Giffhorn, A. Demir, R. Hempelmann: Electroenzymatic oxidation and reduction of directed immobilized dehydrogenases for electrochemical cofactor regeneration. 218th ECS Meeting, Las Vegas, USA (2010)
32. **Lenz, J.**, J. Gajdzik, H. Natter, R. Hempelmann, G.-W. Kohring, F. Giffhorn, Y. Schmitt, K. Jacobs, M. Manolova, D.M. Kolb: Platinum islands on SAMs as template for enzyme-catalyzed glucose oxidation. 218th ECS Meeting, Las Vegas, USA (2010)
33. **Kohring G.-W.**: Development of electrochemical reactors using dehydrogenases for enantiopure synthon preparations, University of the Greater Region, Biotechnology workshop, Saarbrücken (2010)
34. **Kohring, G.-W.**, S. Gauer, F. Giffhorn: Dehydrogenases for electroenzymatic application. EU 7th FP meeting ERUDESCP, Kusadasi, Türkei (2010)
35. **Gauer, S.**, F. Giffhorn, G.-W. Kohring: L-sorbitol dehydrogenase from *Bradyrhizobium japonicum*. EU 7th FP final meeting ERUDESCP, Saarbrücken/Homburg (2011)
36. **Kohring, G.-W.**, S. Gauer, P. Kornberger, T. Klein, F. Giffhorn: Protein engineering for electroenzymatic synthon preparations, Symposium Extremophiles: Key to Bioenergy, University of Georgia, Athens, GA, USA, (2011)
37. Gauer, S., Z. Wang, M. Etienne, A. Walcarius, F. Giffhorn, **G.-W. Kohring**: A sol-gel entrapped L-sorbitol dehydrogenase expresses oxidation activity with electrochemical cofactor regeneration on glassy carbon electrodes. Int. Workshop Electrocatalysis, Saarbrücken (2012)

38. **Kohring, G.-W:** Enzyme als molekulare Werkzeuge in der Biotechnologie, Antrittsvorlesung, Universität des Saarlandes (2012)

Poster:

1. Kohring, G.W., F. Mayer: Lokalisierung der Restriktions-endonuclease EcoRI in *Escherichia coli* Bs5.
 - a) Jahrestagung der Deutschen Gesellschaft für Zellbiologie in Bonn, BRD (1985)
 - b) Federation of European Biochemical Societies (FEBS) Meeting in Amsterdam, Holland (1985)
2. Wiegel, J., R.J. Garrison, G.W. Kohring, L.G. Ljungdahl: Production of Ca-Mg-acetate from hydrolyzed cornstarch using thermophilic homoacetogenic anaerobes in a new rotating fiber fermentor. 1. National Corn Starch Utilizing Conference, St. Louis, Missouri, USA (1987)
3. Kohring, G.W., J. Wiegel: Anaerobic biodegradation capabilities of freshwater lake sediments: Influence of temperature and sulfate concentration on the degradation of 2,4-dichlorophenol. Conference On Reducing Risks From Environmental Chemicals Through Biotechnology, Seattle, Washington, USA (1987)
4. Wiegel, J., R.J. Garrison, G.W. Kohring, L.G. Ljungdahl: Thermophilic anaerobic rotating fiber fermentor for Ca-Mg-acetate production from hydrolyzed corn starch. Jahrestagung der Society for Industrial Microbiology, Baltimore, Maryland, USA (1987)
5. Kohring, G.W., X. Zhang, D.D. Dalton, J. Wiegel: Anaerobic degradation of 2,4-dichlorophenol at different temperatures: Influence of dichlorophenol and sulfate concentration. Jahrestagung der der American Society for Microbiology (ASM) Southeastern Branch in Orlando, Florida, USA (1987)
6. Xiaoming, Z., G.W. Kohring, D.D. Dalton, J. Wiegel: Anaerobic degradation of 2,4-dichlorophenol via 4-chlorophenol, phenol under methanogenic conditions in freshwater sediments. SOE-Industrial Microbiology, Annual Meeting, Chicago, Illinois, USA (1988)
7. Wiegel, J., X. Zhang, D.D. Dalton, G.W. Kohring: Effects of temperature, pH and substrate concentrations on the sequential anaerobic degradation of 2,4-dichlorophenol to methane via 4-chlorophenol, phenol, benzoate and acetate/CO₂/H₂. American Chemical Society, Winter Symposium, Atlanta, Georgia, USA (1989)
8. Zhang, X., D.D. Dalton, G.W. Kohring, J. Wiegel: Sequential degradation of 2,4-dichlorophenol in enrichment cultures from methanogenic freshwater sediments. Jahrestagung der American Society for Microbiology (ASM) in New Orleans, Louisiana, USA (1989)
9. Kohring, G.W., X. Zhang, D.D. Dalton, J. Wiegel: Sequential anaerobic degradation of 2,4-dichlorophenol in freshwater lake sediments. Jahrestagung der Vereinigung für Allgemeine und Angewandte Mikrobiologie (VAAM) in Berlin, Deutschland (1990)
10. Fißler, J., G.W. Kohring, F. Giffhorn: Hydrogen Production by purple nonsulfur bacteria during phototrophic growth on aromatic compounds. Jahrestagung der VAAM in Berlin, Deutschland (1990)

11. Kohring, G.W., J. Fißler, F. Giffhorn: Abbau aromatischer Verbindungen durch schwefelfreie Purpurbakterien. DECHEMA Fachgespräch Umweltschutz "Mikrobiologische Reinigung von Böden", in Frankfurt/M., Deutschland (1991)
12. Kohring, G.W., J. Fißler, F. Giffhorn: Degradation of aromatic compounds by purple nonsulfur bacteria. Jahrestagung der VAAM in Freiburg, Deutschland (1991)
13. Hermann, B., G.W. Kohring, F. Giffhorn: Isolation of purple nonsulfur bacteria that decompose hydroxylated aromatic compounds to H₂ and CO₂. VAAM Frühjahrstagung in Düsseldorf, Deutschland (1992)
14. Fißler, J., G.W. Kohring, F. Giffhorn: Photoproduction of hydrogen from aromatic compounds. VAAM Frühjahrstagung in Düsseldorf, Deutschland (1992)
15. Kohring, G.W., C. Schirra, S. Schmitt, F. Giffhorn: Anaerobic degradation of phenol and chlorinated aromatic compounds by purple nonsulfur bacteria. International Symposium: Soil Decontamination Using Biological Processes, Karlsruhe, Deutschland (1992)
16. Bochem, P., H. Leonhardt, F. Heinrich, G.W. Kohring, F. Giffhorn: Investigations on the application of two biological on-site processes for the decontamination of soils in the area of a former steel works. International Symposium: Soil Decontamination Using Biological Processes, Karlsruhe, Deutschland (1992)
17. Kohring, G.W., C. Schirra, S. Schmitt: Phototrophic transformation of chlorinated aromatic compounds by purple nonsulfur bacteria. Annual Meeting American Society of Microbiology, Atlanta, Georgia, USA (1993)
18. Noh, U., S. Heck, G.W. Kohring: Phototrophic transformation of phenol to p-hydroxyphenylacetate by *Rhodopseudomonas palustris* PL1. VAAM Frühjahrstagung in Hannover, Deutschland (1994)
19. Brassat, U., G.W. Kohring, F. Giffhorn: Influence of temperature on the degradation rates of fluorene and fluoranthen. VAAM Frühjahrstagung in Hannover, Deutschland (1994)
20. Kohring, G.W., S. Heck, U. Noh: Phototrophic transformation of phenol and 2-Cl-phenol by *Rhodopseudomonas palustris*. VIII International Symposium On Phototrophic Prokaryotes, Urbino, Italien (1994)
21. Noh, U., M. Greuner, F. Giffhorn, G.W. Kohring: Anaerobic Degradation of 2-chlorophenol and phenol by *Rhodopseudomonas palustris*. VAAM Frühjahrstagung in Stuttgart, Deutschland (1995)
22. Kohring, G.W., U. Brassat, S. Brossette, F. Giffhorn: Untersuchungen zum PAK-Abbau durch isolierte Organismen aus biologischen On-Site Sanierungen: Einfluß der Temperatur und der PAK-Mischung auf die PAK Verwertung. DECHEMA Jahrestagung in Wiesbaden, Deutschland (1995)
23. Kohring, G.W., U. Brassat, S. Brossette, F. Giffhorn: Influence of temperature and mixture of PAH's on the degradation of polycyclic aromatic hydrocarbons by isolated *Pseudomonas* strains and enrichment cultures from on site bioremediations. 9th Forum for Applied Biotechnology, Gent, Belgien (1995)

24. Noh, U., F. Giffhorn, G.W. Kohring: Phototrophic transformation of 2-chlorophenol and phenol by *Rhodopseudomonas palustris* cells and cell free extracts. VAAM Frühjahrstagung in Bayreuth, Deutschland (1996)
25. Brossette, S., S. Petersen, G.W. Kohring, F. Giffhorn: Influence of PAH mixtures on the degradation of polycyclic aromatic hydrocarbons by enrichment cultures and isolated strains from on site bioremediations. VAAM Frühjahrstagung in Bayreuth, Deutschland (1996)
26. Kohring, G.W., M. Greuner, F. Giffhorn: Anaerobe Dechlorierung an Aromaten durch schwefelfreie Purpurbakterien. DECHEMA Jahrestagung in Wiesbaden, Deutschland (1996)
27. Kohring, G.W., J. Fißler, C. Schirra, F. Giffhorn: Hydrogen production from aromatic acids by liquid cultures and immobilized cells of *Rhodopseudomonas palustris*. 11th World Hydrogen Energy Conference, Stuttgart, Deutschland (1996)
28. Petersen, S., G.W. Kohring, F. Giffhorn: Effects of PAH mixtures on the degradation of polycyclic aromatic hydrocarbons by two isolated *Pseudomonas* strains. VAAM Frühjahrstagung in Hamburg, Deutschland (1997)
29. Hormisch, D., U. Noh, F. Giffhorn, G.W. Kohring: Aerobic degradation of p-hydroxy-phenylacetic acid by *Rhodopseudomonas palustris* via homogentisat. VAAM Frühjahrstagung in Hamburg, Deutschland (1997)
30. Petersen, S., D. Hormisch, G.W. Kohring, F. Giffhorn: Einfluß von Temperatur, PAK-Zusammensetzung und Stickstoff-Quelle auf den mikrobiellen PAK-Abbau im Boden. DECHEMA Jahrestagung in Wiesbaden, Deutschland (1998)
31. Hormisch, D., S. Caesar, U. Noh, F. Giffhorn, G.W. Kohring: Aerober Abbau von 4-Hydroxyphenylelessigsäure und strukturanalogen Aromaten durch *Rhodopseudomonas palustris* PL1. DECHEMA Jahrestagung in Wiesbaden, Deutschland (1998)
32. Caesar, S., D. Hormisch, U. Noh, F. Giffhorn, G.W. Kohring: Aerobic growth of *Rhodopseudomonas palustris* PL1 with Phenylacetic acid and analogous compounds. VAAM Frühjahrstagung in Göttingen, Deutschland (1999)
33. Hormisch, D., I. Brost, G.W. Kohring, F. Giffhorn: Biodegradation of polycyclic aromatic hydrocarbons (PAH's) with methyleneurea as nitrogen source. VAAM Frühjahrstagung in Göttingen, Deutschland (1999)
34. Caesar, S., D. Hormisch, U. Noh, F. Giffhorn, G.W. Kohring: Aerober Abbau von Phenylelessigsäure und strukturanalogen Aromaten durch *Rhodopseudomonas palustris* PL1. DECHEMA Jahrestagung in Wiesbaden, Deutschland (1999)
35. Hormisch, D., I. Brost, G.W. Kohring, F. Giffhorn: Methylenharnstoffe als Stickstoffquelle für den mikrobiellen PAK-Abbau im Boden. DECHEMA Jahrestagung in Wiesbaden, Deutschland (1999)
36. Hormisch, D., I. Brost, G.W. Kohring, F. Giffhorn: Influence of methyleneurea on the PAH degrading population in soils and isolation of pure cultures growing with acenaphthylene and acenaphthene. VAAM Jahrestagung in München (2000)

37. Hormisch, D., I. Brost, G.W. Kohring, F. Giffhorn: Degradation of acenaphthene and acenaphthylene by isolated bacteria and influence of fertilizers on the PAH degrading population in soils. Forum for Applied Biotechnology, Brügge, Belgien (2000)
38. Platz, T., I. Brost, G.W. Kohring, F. Giffhorn: A 2,3-di-benzoyl-D-tartaric acid hydrolysing esterase from an isolated yeast. VAAM Jahrestagung in Oldenburg (2001)
39. Hormisch, D., F. Giffhorn and G.W. Kohring: Bacterial degradation of acenaphthene and acenaphthylene. VAAM Jahrestagung in Oldenburg (2001)
40. Zimmer, C., F. Giffhorn, G.W. Kohring: Isolation of an arylester hydrolysing esterase from *Acinetobacter*. VAAM Jahrestagung in Göttingen (2002)
41. Platz, T., F. Giffhorn, G.W. Kohring: Eine Weinsäure-2(R),3(R)-di-O-benzoyl-ester hydrolysierende Esterase aus der Hefe *Rhodotorula minuta*. DECHEMA Jahrestagung in Wiesbaden, Deutschland (2002)
42. Zimmer, Ch, T. Platz, G.W. Kohring, F. Giffhorn: Screening for new microbial arylesterase activities. Biocat 2002, Hamburg-Harburg, Deutschland (2002)
43. Hormisch, D., I. Brost, F. Giffhorn, G.W. Kohring: Use of methylene urea to enhance natural occurring bioremediation processes of polycyclic aromatic hydrocarbons (PAH) in soils. European Conference on Natural Attenuation, Heidelberg, Deutschland (2002)
44. Zimmer, Ch., T. Platz, G.W. Kohring, F. Giffhorn: Characterization of an aryl-esterase from *Rhodotorula minuta*. VAAM Jahrestagung in Berlin (2003)
45. Kohring, G.W., P. Wiehr, M. Jeworski and F. Giffhorn: Stereoselective oxidation of aliphatic diols and reduction of hydroxy-ketones with galactitol dehydrogenase from *Rhodobacter sphaeroides* D. Forum for Applied Biotechnology, Gent, Belgien (2003)
46. Kohring G.W., Ch. Zimmer, P. Wiehr, M. Jeworski, F. Giffhorn: Production of hydroxy-ketones or pure enantiomeres of aliphatic diols with galactitol dehydrogenase from *Rhodobacter sphaeroides* D. VAAM Jahrestagung in Braunschweig (2004)
47. Kühn, A., Ch. Zimmer, G.W. Kohring, F. Giffhorn: New products from starch derived 1,5-anhydro-D-fructose. Bioperspectives, Wiesbaden (2004)
48. Zimmer, Ch., T. Platz, F. Giffhorn, G.W. Kohring: Characterization of a Benzoyl-Esterase from *Rhodotorula mucilaginosa*. 38. Jahrestreffen Deutscher Katalytiker, Weimar (2005)
49. Kohring, G.W., C. Schaum, Ch. Zimmer, D. Hormisch, F. Giffhorn: Characterization of a Newly Isolated Acenaphthenol-Dehydrogenase from *Sphingobium herbizidovorans*. Bioperspectives, Wiesbaden (2005)
50. Zimmer Ch., M. Hutter, F. Giffhorn, G.W. Kohring: Gene Sequence and Structural Analysis of the S-Specific Secondary Alcohol Dehydrogenase Galactitol-DH from *Rhodobacter sphaeroides* D. VAAM Jahrestagung in Göttingen (2005)

51. Carius, Y., G.W. Kohring, F. Giffhorn, A.J. Scheidig: Crystal structure of galactitol-dehydrogenase. 14. Jahrestagung der Deutschen Gesellschaft für Kristallographie (DGK) in Freiburg (2006)
52. Gajdzik, J., O. Yevtushenko, H. Natter, G.W. Kohring, F. Giffhorn, R. Hempelmann: Biomodifikation von Goldelektroden für elektroenzymatische Anwendungen. 105. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie e. V. in Erlangen (2006)
53. Zimmer Ch., F. Giffhorn, G.W. Kohring: A cold active (2R,3R)-(-)-di-O-benzoyl-tartrate hydrolyzing esterase from *Rhodotorula mucilaginosa*. DECHEMA Jahrestagung Wiesbaden (2006)
54. Kornberger P., C. Schaum, Ch. Zimmer, F. Giffhorn, G.W. Kohring: Characterization and Sequencing of an Aldolase from *Sphingobium herbicidovorans* FA3g VAAM Jahrestagung in Osnabrück (2007)
55. Bastian, S., A. Kühn, S. Dorscheid, T. Brossette, C. Zimmer, G.W. Kohring, F. Giffhorn: Convenient access to rare pharmaceutical sugars from bulk sugars using engineered redox enzymes. 7th Carbohydrate Bioengineering Meeting (CBM), Braunschweig (2007)
56. Kornberger P., Ch. Zimmer, Y. Carius, A.J. Scheidig, F. Giffhorn, G.W. Kohring: Genetic Variants of Galactitol-Dehydrogenase from *Rhodobacter sphaeroides* D for Structure Function Analyses. Bioperspectives, Köln (2007)
57. Kornberger P., J. Gajdzik, R. Hempelmann, F. Giffhorn, G.W. Kohring: Modification of the Galactitol-Dehydrogenase from *Rhodobacter sphaeroides* D for Immobilization on Gold Surfaces. VAAM Jahrestagung in Frankfurt (2008)
58. Gauer S., P. Kornberger, A. Neuner, F. Giffhorn, G.W. Kohring: Heterologous Expression of an Aldolase from *Sphingobium herbicidovorans* FA3g and Establishment of a Photometric Test for Aldolase Activity. VAAM Jahrestagung in Frankfurt (2008)
59. Gajdzik J., J. Lenz, H. Natter, P. Kornberger, G.W. Kohring, F. Giffhorn, R. Hempelmann: Electroenzymatic reactions with GatDH, GatDH-Cyst and P2OxB1H on poly- and nanocrystalline gold and platinum electrodes. 12th International Conference on Electroanalysis, ESEAC in Prag (2008)
60. Klein T., P. Kornberger, J. Gajdzik, H. Natter, R. Hempelmann, F. Giffhorn, G.W. Kohring: D-Glucitol Dehydrogenase as a model protein for the electroenzymatic production of enantiopure building blocks, VAAM Jahrestagung in Bochum (2009)
61. Gauer S., F. Giffhorn, G.W. Kohring: Screening, Isolation and Characterisation of L-Glucitol-Dehydrogenases for the Production of D-Sorbose, VAAM Jahrestagung in Bochum (2009)
62. Kornberger P., Ch. Zimmer, F. Giffhorn, G.W. Kohring: Modified regulatory sequence is responsible for constitutive expression of galactitol-dehydrogenase in *Rhodobacter sphaeroides* D, VAAM Jahrestagung in Bochum (2009)

63. Lenz J., J. Gajdzik, H. Natter, R. Hempelmann, G.W. Kohring, F. Giffhorn, M. Manolova D. Kolb: First generation sensor for glucose oxidation obtaining a high current density by nanostructured Au(111), 216th ECS (Electrochemical Society) Meeting in Wien, Österreich (2009)
64. Otten, H., S. Gauer, G.W. Kohring, L. Lo Leggio: Quarternary structure evolution of dehydrogenases. First International Symposium on Structural Systems Biology, Hamburg (2009)
65. Wang Z., M. Etienne, G.W. Kohring, T. Klein, A. Walcarius: Effect of poly(dimethyldiallylammonium chloride) on enzyme encapsulation into a sol-gel matrix. Modern Electroanalytical Methods, Prag, Tschechien (2009)
66. Gauer S., C. Søndergaard, J. Jensen, F. Giffhorn, G.W. Kohring: D-Sorbose producing L-sorbitol-dehydrogenases (LSDH): enzymes from database screening and directed mutagenesis or molecular evolution of D-sorbitol- dehydrogenase (DSDH) for chiral re-orientation, VAAM Jahrestagung in Hannover (2010)
67. Klein T., C. Søndergaard, J. Jensen, J. Gajdzik, H. Natter, R. Hempelmann, F. Giffhorn, G.W. Kohring, Generation of D-Sorbitol Dehydrogenase (DSDH) variants for application in enzyme reactors with electrochemical co-factor regeneration, VAAM Jahrestagung in Hannover (2010)
68. Wang, Z., M. Etienne, G.W. Kohring, A. Walcarius: Electro-assisted deposition of protein encapsulated sol-gel thin films for bio-electrocatalytic applications. The 61st Annual Meeting of the International Society of Electrochemistry, Nizza, Frankreich (2010)
69. Kohring G.W., S. Gauer, P. Kornberger, C. Gumhold, J. Gajdzik, R. Hempelmann, C. Søndergaard, J. Jensen, H. Christian, A. Faust, Y. Carius, A.J. Scheidig, F. Giffhorn: Modified galactitol-dehydrogenase from *Rhodobacter sphaeroides* D for electrochemical applications, VAAM Jahrestagung in Karlsruhe (2011)
70. Gauer S., Otten H., L. Lo Leggio, M.J. Bjerrum, F. Giffhorn, G.W. Kohring: L-Sorbitol-dehydrogenase (LSDH) from *Bradyrhizobium japonicum* USDA110: cloning and characterisation of an interesting enzyme for rare sugar synthesis, VAAM Jahrestagung in Karlsruhe (2011)
71. Bon Saint Côme, Y., H. Lalo, Z. Wang, M. Etienne, A. Walcarius, G.W. Kohring, A. Kuhn: Bioélectrosynthèse sur électrodes optimisées pour la conception de réacteurs bioélectrochimiques, Journée d'Électrochimie, Grenoble, Frankreich (2011)
72. Otten, H, S. Gauer, J.C. Poulsen, M.J. Bjerrum, G.W. Kohring, L. Lo Leggio: Crystallization and Preliminary Characterization of *Bradyrhizobium japonicum* L-Sorbitol Dehydrogenase, GDCh Jahrestagung (2011)
73. Gauer, S., Z. Wang, M. Etienne, A. Walcarius, F. Giffhorn, G.W. Kohring: L-Sorbitol-dehydrogenase from *Bradyrhizobium japonicum* USDA 110 can be applied in D-sorbose production using electrochemical cofactor regeneration. VAAM Jahrestagung in Tübingen (2012)
74. Esteban-Torres, M., Álvarez, Y., Acebrón, I., de las Rivas, B., Muñoz, R., Roa, A.M., Sobrino, M., Mancheño J.M., Kohring, G.-W.: The crystal structure of galactitol-1-phosphate 5-dehydrogenase

from *Escherichia coli* K12 provides insights into its anomalous behavior on IMAC processes. VAAM Jahrestagung in Bremen (2013)

75. Gauer, S., Otten, H., Wang, Z., Etienne, M., Bjerrum, M.J., Lo Leggio, L., Walcarius, A., Giffhorn, F., Kohring, G.W.: An L-glucitol oxidizing dehydrogenase from *Bradyrhizobium japonicum* USDA 110 for production of D-sorbose with enzymatic or electrochemical co-factor regeneration. VAAM Jahrestagung in Dresden (2014)
76. Zhang, L., Etienne, M., Kohring, G.W., Vilà, N., Walcarius, A.: Immobilization of cysteine-tagged dehydrogenases on macroporous carbon felt by click chemistry for electroenzymatic synthesis, 7th Topical Meeting of the International Society of Electrochemistry, Saint-Malo, France (2015)
77. Mazurenko, I., Etienne, M., Kohring, G.W., Lopicque, F., Walcarius, A.: Enzymatic bioreactor for simultaneous synthesis of fine chemicals and energy production. VAAM Jahrestagung in Jena (2016)
78. Zhang, L., Etienne, M., Kohring, G.W., Vilà, N., Walcarius, A.: Immobilization of cysteine-tagged dehydrogenases on macroporous carbon felt by click chemistry for electroenzymatic synthesis. VAAM Jahrestagung in Jena (2016)
79. Zhang, L., Vilà, N., Kohring, G.W., Walcarius, A., Etienne, M.: Co-immobilization of $[\text{Cp}^*\text{Rh}(\text{bpy})\text{Cl}]^+$ and NAD-dependent dehydrogenases in electrochemical bioreactors for enantioselective bioconversion experiments. 67th Annual Meeting of the International Society of Electrochemistry, The Hague, The Netherlands (2016)