

## Dr. Dietmar Schlosser - Publications since 1991

### ISI-listed Journals

1. Duong, H.L., Paufler, S., Harms, H., Maskow, T., Schlosser, D. (2024) Biocalorimetry-aided monitoring of fungal pretreatment of lignocellulosic agricultural residues. *Appl. Microbiol. Biotechnol.* 108 (1), art. 394.
2. Kang, B.R., Kim, J.J., Hong, J.-K., Schlosser, D., Lee, T.K. (2023) Continuous operation of fungal wheel reactor based on solid-state fermentation for the removal of pharmaceutical and personal care products. *J. Environ. Manage.* 331, art. 117316.
3. Duong, H.L., Paufler, S., Harms, H., Schlosser, D., Maskow, T. (2022) Fungal lignocellulose utilization strategies from a bioenergetic perspective: Quantification of related functional traits using biocalorimetry. *Microorganisms* 10 (8), art. 1675.
4. Pozdnyakova, N., Dubrovskaya, E., Schlosser, D., Kuznetsova, S., Sigida, E., Grinev, V., Golubev, S., Kryuchkova, E., Varese, G.C., Turkovskaya, O. (2022) Widespread ability of ligninolytic fungi to degrade hazardous organic pollutants as the basis for the self-purification ability of natural ecosystems and for mycoremediation technologies. *Appl. Sci.* 12 (4), art. 2164.
5. Xiong, B.-J., Stanley, C.E., Dusny, C., Schlosser, D., Harms, H., Wick, L.Y. (2022) pH distribution along growing fungal hyphae at microscale. *J. Fungi* 8 (6), art. 599.
6. Duong, H.L., Paufler, S., Harms, H., Maskow, T., Schlosser, D. (2022) Applicability and information value of biocalorimetry for the monitoring of fungal solid-state fermentation of lignocellulosic agricultural by-products. *New Biotech.* 66, 97-106.
7. Puiggené, O., Cárdenas Espinosa, M.J., Schlosser, D., Thies, S., Jehmlich, N., Kappelmeyer, U., Schreiber, S., Wibberg, D., Kalinowski, J., Harms, H., Heipieper, H.J. (2022) Towards biorecycling of polyurethanes: Strategies of *Pseudomonas capeferrum* TDA1 for extra- and intracellular degradation. *Sci. Rep.* 12, art. 2666.
8. Heeger, F., Bourne, E.C., Wurzbacher, C., Funke, E., Lipzen, A., He, G., Ng, V., Grigoriev, I.V., Schlosser, D., Monaghan, M.T. (2021) Evidence for lignocellulose-decomposing enzymes in the genome and transcriptome of the aquatic hyphomycete *Clavariopsis aquatica*. *J. Fungi* 7 (10), art. 854.
9. Xiong, B.-J., Dusny, C., Wang, L., Appel, J., Lindstaedt, K., Schlosser, D., Harms, H., Wick, L. (2021) Illuminate the hidden: in vivo mapping of microscale pH in the mycosphere using a novel whole-cell biosensor. *ISME Commun.* 1, art. 75.
10. Schlosser, D. (2021) Cultivation of filamentous fungi for attack on synthetic polymers via biological Fenton chemistry. *Methods Enzymol.* 648, 71-94.

11. Carstens, L., Cowan, A., Seiwert, B., and Schlosser, D. (2020) Biotransformation of phthalate plasticizers and bisphenol A by marine-derived, freshwater, and terrestrial fungi. *Front. Microbiol.* 11, 317.
12. Mogodiniyai Kasmaei, K., Schlosser, D., Sträuber, H., and Kleinsteuber, S. (2020) Does glucose affect the de-esterification of methyl ferulate by *Lactobacillus buchneri*? *MicrobiologyOpen* 9, e971.
13. Hofmann, U., Fenu, A., Beffa, T., Beimfohr, C., Weemaes, M., Yu, L., Schrader, S., Moeder, M., and Schlosser, D. (2018) Evaluation of the applicability of the aquatic ascomycete *Phoma* sp. UHH 5-1-03 for the removal of pharmaceutically active compounds from municipal wastewaters using membrane bioreactors. *Eng. Life Sci.* 18, 510-519.
14. Pozdnyakova, N., Schlosser, D., Dubrovskaya, E., Balandina, S., Sigida, E., Grinev, V., and Turkovskaya, O. (2018) The degradative activity and adaptation potential of the litter-decomposing fungus *Stropharia rugosoannulata*. *World J. Microbiol. Biotechnol.* 34, 133.
15. Jahangiri, E., Thomas, I., Schulze, A., Seiwert, B., Cabana, H., and Schlosser, D. (2018) Characterisation of electron beam irradiation-immobilised laccase for application in wastewater treatment. *Sci. Total Environ.* 624, 309-322.
16. Pezzella, C., Macellaro, G., Sannia, G., Raganati, F., Olivieri, G., Marzocchella, A., Schlosser, D., and Piscitelli, A. (2017) Exploitation of *Trametes versicolor* for bioremediation of endocrine disrupting chemicals in bioreactors. *PLoS One* 12: e0178758.
17. Krueger, M.C., Seiwert, B., Prager, A., Zhang, S., Abel, B., Harms, H., and Schlosser, D. (2017) Degradation of polystyrene and selected analogues by biological Fenton chemistry approaches: opportunities and limitations. *Chemosphere* 173, 520-528.
18. Jahangiri, E., Seiwert, B., Reemtsma, T., and Schlosser, D. (2017) Laccase- and electrochemically mediated conversion of triclosan: Metabolite formation and influence on antibacterial activity. *Chemosphere* 168, 549-558.
19. Krueger, M.C., Bergmann, M., and Schlosser, D. (2016) Widespread ability of fungi to drive quinone redox cycling for biodegradation. *FEMS Microbiol. Lett.* 363, fnw105.
20. Hofmann, U., and Schlosser, D. (2016) Biochemical and physicochemical processes contributing to the removal of endocrine-disrupting chemicals and pharmaceuticals by the aquatic ascomycete *Phoma* sp. UHH 5-1-03. *Appl. Microbiol. Biotechnol.* 100, 2381-2399.
21. Krueger, M.C., Harms, H., and Schlosser, D. (2015) Prospects for microbiological solutions to environmental pollution with plastics. *Appl. Microbiol. Biotechnol.* 99, 8857-8874.

22. Krueger, M.C., Hofmann, U., Moeder, M., and Schlosser, D. (2015) Potential of wood-rotting fungi to attack polystyrene sulfonate and its depolymerisation by *Gloeophyllum trabeum* via hydroquinone-driven Fenton chemistry. *PLoS One* 10, e0131773.
23. Otto, B., Beuchel, C., Liers, C., Reisser, W., Harms, H., and Schlosser, D. (2015) Laccase-like enzyme activities from chlorophycean green algae with potential for bioconversion of phenolic pollutants. *FEMS Microbiol. Lett.* 362, fnv072.
24. Pradhan, A., Seena, S., Schlosser, D., Gerth, K., Helm, S., Dobritzsch, M., Krauss, G.-J., Dobritzsch, D., Pascoal, C., Cássio, F. (2015) Fungi from metal-polluted streams may have high ability to cope with the oxidative stress induced by copper oxide nanoparticles. *Environ. Toxicol. Chem.* 34, 923-930.
25. Singh, S., Harms, H., and Schlosser, D. (2014) Screening of ecologically diverse fungi for their potential to pretreat lignocellulosic bioenergy feedstock. *Appl. Microbiol. Biotechnol.* 98, 3355-3370.
26. Fester, T., Giebler, J., Wick, L.Y., Schlosser, D., Kästner, M. (2014) Plant–microbe interactions as drivers of ecosystem functions relevant for the biodegradation of organic contaminants. *Curr. Opin. Biotechnol.* 27, 168-175.
27. Jahangiri, E., Reichelt, S., Thomas, I., Hausmann, K., Schlosser, D., Schulze, A. (2014) Electron beam-induced immobilization of laccase on porous supports for waste water treatment applications. *Molecules* 19, 11860-11882.
28. Otto, B., and Schlosser, D. (2014) First laccase in green algae: purification and characterization of an extracellular phenol oxidase from *Tetracystis aerea*. *Planta* 240, 1225-1236.
29. Pradhan, A., Seena, S., Dobritzsch, D., Helm, S., Gerth, K., Dobritzsch, M., Krauss, G.J., Schlosser, D., Pascoal, C., Cássio, F. (2014) Physiological responses to nanoCuO in fungi from non-polluted and metal-polluted streams. *Sci. Total Environ.* 466-467, 556-63.
30. Hommes, G., Gasser, C.A., Howald, C.B.C., Goers, R., Schlosser, D., Shahgaldian, P., and Corvini, P.F.-X. (2012) Production of a robust nanobiocatalyst for municipal wastewater treatment. *Bioresour. Technol.* 115, 8-15.
31. Junghanns, C., Neumann, J.F., and Schlosser, D. (2012) Application of the aquatic fungus *Phoma* sp. (DSM22425) in bioreactors for the treatment of textile dye model effluents. *J. Chem. Technol. Biotechnol.* 87, 1276-1283.
32. Libardi jr., N., Gern, R.M.M., Furlan, S.A., and Schlosser, D. (2012) Laccase production by the aquatic ascomycete *Phoma* sp. UHH 5-1-03 and the white rot basidiomycete *Pleurotus ostreatus* DSM 1833 during submerged cultivation on banana peels and enzyme applicability for the removal of endocrine-disrupting chemicals. *Appl. Biochem. Biotechnol.* 167, 1144-1156.

33. Solé, M., Müller, I., Pecyna, M.J., Fetzner, I., Harms, H., and Schlosser, D. (2012) Differential regulation by organic compounds and heavy metals of multiple laccase genes in the aquatic hyphomycete *Clavariopsis aquatica*. *Appl. Environ. Microb.* 78, 4732-4739.
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- laccase from the aquatic fungus *Myrioconium* sp. UHH 1-13-18-4 and molecular analysis of the laccase-encoding gene. *Appl. Microb. Biotechnol.* 77, 613-624.
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58. Schlosser, D., and Höfer, C. (2002) Laccase-catalyzed oxidation of Mn<sup>2+</sup> in presence of natural Mn<sup>3+</sup> chelators as a novel source of H<sub>2</sub>O<sub>2</sub> and its impact on manganese peroxidase. *Appl. Environ. Microb.* 68, 3514-3521.
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### **(Co-)Editor**

1. Bankole, P.O., and Schlosser, D. (eds.) Special Issue "Fungal Enzymes 2021". *J. Fungi* (2021).
2. Schlosser, D. (ed.) Laccases in bioremediation and waste valorisation. *Microbiology Monographs*, vol. 33. Springer, Cham (2020).

### **Book Chapters**

1. Lucie Moeller, Sonja Knapp, Sebastian Schmauck, Peter Otto, Dietmar Schlosser, Lukas Y. Wick, Anett Georgi, Jan Friesen, Maximilian Ueberham, Ralf Trabitzsch, Niels Wollschläger, Uwe Schlink, Dominique Hofmann, Roland A. Müller, Katrin Mackenzie (2024) Gründächer im urbanen Raum und ihre Ökosystemleistungen. In: Sigrun Kabisch, Dieter Rink, Ellen Banzhaf (eds.) *Die resiliente Stadt: Konzepte, Konflikte, Lösungen*. Springer Spektrum, Berlin, Heidelberg, S. 165 - 180.

2. Schlosser, D. (2021) Past, presence and future of macrofungi applications: old friends, yet unknown strangers. In: Sridhar, K.R., Deshmukh, S.K. (eds.) *Advances in macrofungi: Industrial avenues and prospects. Progress in Mycological Research*. CRC Press / Taylor & Francis, Boca Raton, FL, pp. 1-8.
3. Haghbeen, K., and Schlosser, D. (2020) Laccases in the context of potentially cooperating enzymes. In: Schlosser, D. (ed.) *Laccases in bioremediation and waste valorisation. Microbiology Monographs*, vol. 33. Springer, Cham, pp. 79-114.
4. Schlosser, D. (2020) Biotechnologies for water treatment. In: Filip, J., Cajthaml, T., Najmanová, P., Černík, M., Zbořil, R. (eds.) *Advanced nano-bio technologies for water and soil treatment*. Springer, Cham, pp. 335-343.
5. Schlosser, D. (2020) Fungal attack on environmental pollutants representing poor microbial growth substrates. In: Nevalainen, H. (ed.) *Grand challenges in fungal biotechnology. Grand Challenges in Biology and Biotechnology*. Springer, Cham, pp. 33-57.
6. Harms, H., Wick, L.Y., and Schlosser, D. (2017) The fungal community in organically polluted systems. In: *The fungal community: its organization and role in the ecosystem*, 4<sup>th</sup> revised edition (eds. Dighton, J. and White, J.F.). CRC Press, Boca Raton/FL, p. 459-469.
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8. Arado, I., Agathos, S.N., Ammann, E., Aulento, F., Corvini, P., Frascari, D., Majone, M., Hochstrat, R., Hofmann, U., Kolvenbach, B., Schlosser, D., Zanaroli, G. (2015) Chapter 3: Immobilization techniques for biocatalysts. In: *Immobilized biocatalysts for bioremediation of groundwater and wastewater* (eds. Hochstrat, R., Wintgens, T., Corvini, P.). IWA Publishing, London/UK, pp. 49-69.
9. Hochstrat, R., Schlosser, D., Corvini, P., Wintgens, T. (2015) Chapter 1: Introduction. In: *Immobilized biocatalysts for bioremediation of groundwater and wastewater* (eds. Hochstrat, R., Wintgens, T., Corvini, P.). IWA Publishing, London/UK, pp. 1-14
10. Zanaroli, G., Beck, H., Beimfohr, C., Cichoka, D., Corvini, P., Frascari, D., Hofmann, U., Kästner, M., Macek, T., Müller, J.A., Uhlik, O., Schlosser, D. (2015) Chapter 2: Analytical and monitoring methods. In: *Immobilized biocatalysts for bioremediation of groundwater and wastewater* (eds. Hochstrat, R., Wintgens, T., Corvini, P.). IWA Publishing, London/UK, pp. 15-48.
11. Schlosser, D., and Krauss, G.-J. (2015) Sensing of pollutant effects and bioremediation. In: *Ecological biochemistry: environmental and interspecies interactions* (eds. Krauss, G.-J., Nies, D.H.). Wiley-VCH, Weinheim, pp. 333-340.



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14. Tiehm, A., Marxsen, J., Augenstein, T. und Schlosser, D. (2012) Biologische Prozesse und Nahrungsgefüge. In: Grundwasserbiologie - Grundlagen und Anwendungen. DVGW-Information Wasser Nr. 75, Oktober 2012, pp. 101-121, ISSN 0176-3504 (identical publication in DWA-Themenband T5 / 2012, ISBN 978-3-942964-42-5)
15. Schlosser, D., Solé, M., Wesenberg, D., Geyer, R., and Krauss, G. (2008) Responses of fungi to organic pollutants. In: Novel techniques and ideas in mycology (eds. Sridhar, K.R., Bärlocher, F. and Hyde, K.D.). Fungal Diversity Research Series 20, Fungal Diversity Press, Hong Kong, pp. 119-148.
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19. Schlosser, D. und Schmauder, H.-P. (1994) Immobilisierung von Zellen zur Biotransformation. In: Methoden der Biotechnologie (ed. Schmauder, H.-P.). Gustav-Fischer-Verlag Jena, pp. 144-150.
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2. Maskow, T. und Schlosser, D. (2023) Lignocellulose-Verwertung durch Pilze mit metabolischer Wärme erfassen. *BIOspektrum* 29, 321-323.

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