

Dr. Dietmar Schlosser - Publications since 1991

ISI-listed Journals

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Schlosser, D. (2021) Cultivation of filamentous fungi for attack on synthetic polymers via biological Fenton chemistry. *Methods Enzymol.* 648, 71-94.
- 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.

- 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.
- 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.
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- 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.
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- 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.
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(Co-)Editor

Bankole, P.O., and Schlosser, D. (eds.) Special Issue "Fungal Enzymes 2021". *J. Fungi* (2021).

Schlosser, D. (ed.) Laccases in bioremediation and waste valorisation. Microbiology Monographs, vol. 33. Springer, Cham (2020).

Book Chapters

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 (2023) Gründächer im urbanen Raum und ihre Ökosystemleistungen. In: Sigrun Kabisch, Dieter Rink, Ellen Banzhaf (eds.) Die resiliente Stadt: Konzepte, Konflikte, Lösungen. Springer Nature, in press.

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Non-ISI-listed Journals, Proceedings and Popular Publications

Maskow, T. und Schlosser, D. (2023) Lignocellulose-Verwertung durch Pilze mit metabolischer Wärme erfassen. *BIOspektrum* 29, 321–323.

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