23. Dimarogona M. **†**, Topakas E., Christakopoulos P., Chrysina E.D. **†** (2020) **The crystal structure of a Fusarium oxysporum feruloyl esterase that belongs to the tannase family** FEBS Letters, 594(11): 1738-1749

22. Karavassili F., Valmas A., Dimarogona M., Giannopoulou E. A., Fili S., Norrman M., Schluckebier G., Beckers D., Fitch A.N., Margiolaki I. (2020) **Exploring the complex map of insulin polymorphism: A novel crystalline form in the presence of m – cresol.** Acta Crystallographica Section D, 76: 366-374

21. Petrović D.M., Várnai A., Dimarogona M., Mathiesen G., Sandgren M., Westereng, Eijsink V.G.H. (2019) **Comparison of three seemingly similar lytic polysaccharide monooxygenases from Neurospora crassa suggests different roles in plant biomass degradation.** Journal of Biological Chemistry, 294(41): 15068-15081.

20. Karnaouri A., Antonopoulou I., Zerva A., Dimarogona M., Topakas E., Rova U., Christakopoulos P. (2019) **Thermophilic enzyme systems for efficient conversion of lignocellulose to valuable products: Structural insights and future perspectives for esterases and oxidative catalysts.** Bioresource Technology, 279: 362-372

19. Nikolaivits E., Kanelli M., Dimarogona M., Topakas E. (2018) **A Middle-Aged Enzyme Still in Its Prime: Recent Advances in the Field of Cutinases**. Catalysts 8(12), 612.

18. Zouraris D., Dimarogona M., Karnaouri A., Topakas E., Karantonis A. (2018) **Direct electron transfer of lytic polysaccharide monooxygenases (LPMOs) and determination of their formal potentials by large amplitude Fourier transform alternating current cyclic voltammetry.** Bioelectrochemistry, 124: 149-155.

17. Nikolaivits E., Dimarogona M., Karagiannaki I., Chalima A., Fishman A., Topakas E. (2018) **Versatile fungal polyphenol oxidase with chlorophenol bioremediation potential: Characterization and protein engineering.** Applied and Environmental Microbiology, 84(23) e01628-18.

16. Liu B., Kognole A.A., Wu M., Westereng B., Crowley, M.F., Kim, S., DimarogonaM.†, Payne C.M.†, Sandgren M.† (2018) **Structural and molecular dynamics studies of a C1-oxidizing lytic polysaccharide monooxygenase from *Heterobasidion irregulare* reveal amino acids important for substrate recognition**. FEBS Journal, 285(12): 2225-2242.

15. Karnaouri A., Muraleedharan M.N., Dimarogona M., Topakas E., Rova U., Sandgren M. and Christakopoulos P. (2017) **Recombinant expression of thermostable processive *Mt*EG5 endoglucanase and its synergism with *Mt*LPMO from *Myceliophthora* *thermophila* during the hydrolysis of lignocellulosic substrates.** Biotechnology for Biofuels, 10:126

14. Nikolaivits E.\*, Dimarogona M.\*, Fokialakis N., Topakas E. (2017) **Marine-Derived Biocatalysts: Importance, Accessing and Application in Aromatic Pollutant Bioremediation.** Frontiers in Microbiology, 8:265.

13. Katsimpouras C., Dimarogona M., Petropoulos P., Christakopoulos P., Topakas E. (2016) **A thermostable GH26 endo-β-mannanase from Myceliophthora thermophila capable of enhancing lignocellulose degradation.** Applied Microbiology and Biotechnology, 100(19): 8385-8397.

12. Courtade G., Wimmer R., Røhr Å.K., Preims M., Felice A.K., Dimarogona M., Vaaje-Kolstad G., Sørlie M., Sandgren M., Ludwig R., Eijsink V.G., Aachmann F.L. (2016) **Interactions of a fungal lytic polysaccharide monooxygenase with β-glucan substrates and cellobiose dehydrogenase** Proceedings of the National Academy of Sciences of the United States of America, 113(21): 5922-27.

11. Courtade G., Wimmer R., Dimarogona M., Sandgren M., Eijsink V.G., Aachmann F.L. (2016) **Backbone and side-chain 1H, 13C, and 15N chemical shift assignments for the apo-form of the lytic polysaccharide monooxygenase *Nc*LPMO9C.** Biomolecular NMR Assignments, 10(2): 277-280.

10. Dimarogona M., Nikolaivits E., Kanelli M., Christakopoulos P., Sandgren M., Topakas E. (2015) **Structural and functional studies of a *Fusarium oxysporum* cutinase with polyethylene terephthalate modification potential.** Biochimica et Biophysica Acta, 1850(11): 2308-17.

9. Borisova A.S., Isaksen T., Dimarogona M., Kognole A.A., Mathiesen G., Várnai A., Røhr Å.K., Payne C.M., Sørlie M., Sandgren M., Eijsink V.G. (2015) **Structural and functional characterization of a lytic polysaccharide monooxygenase with broad substrate specificity**, Journal of Biological Chemistry, 290(38): 22955-69.

8. Katsimpouras C., Benarouche A., Navarro D., Karpusas M., Dimarogona M., Berrin J.-G., Christakopoulos P., Topakas E. (2014) **Enzymatic synthesis of model substrates recognized by glucuronoyl esterases from *Podospora anserina* and *Myceliophthora thermophila*.** Applied Microbiology and Biotechnology, 98(12): 5507-5516.

7. Dimarogona M., Topakas E., Christakopoulos P. (2013). **Recalcitrant polysaccharide degradation by novel oxidative biocatalysts.** Applied Microbiology and Biotechnology, 97: 8455-8465.

6. Charavgi M., Dimarogona M., Topakas E., Christakopoulos P., Chrysina E. (2013). **The structure of a novel glucuronoyl esterase from *Myceliophthora thermophila* gives new insights on its role as a potential biocatalysts.** Acta Crystallographica Section D, 69(1): 63-73.

5. Dimarogona M., Topakas E., Christakopoulos P. (2012). **Cellulose degradation by oxidative enzymes.** Computational and Structural Biotechnology Journal, 2(3), <http://dx.doi.org/10.5936/csbj.201209015>

4. Dimarogona M., Topakas E., Olsson L., Christakopoulos P. (2012). **Lignin boosts the cellulase performance of a GH-61 enzyme from *Sporotrichum thermophile*.** Bioresource Technology, 110: 480-487.

3. Dimarogona M., Topakas E., Christakopoulos P., Chrysina E.D. (2012). **The structure of a GH10 xylanase from *Fusarium oxysporum* reveals the presence of an extended loop on top of the catalytic cleft.** Acta Crystallographica Section D, 68(7): 735-742.

2. Topakas E., Moukouli M., Dimarogona M., Christakopoulos P. (2012). **Expression, characterization and structural modelling of a feruloyl esterase from the thermophilic fungus *Myceliophthora thermophila.*** Applied Microbiology and Biotechnology, 94(2): 399-411*.*

1. Topakas E., Moukouli M., Dimarogona M., Vafiadi C., Christakopoulos P. (2010). **Functional expression of a thermophilic glucuronoyl esterase from *Sporotrichum thermophile*: identification of the nucleophilic serine.** Applied Microbiology and Biotechnology, 87: 1765-1772.