

PERSONAL INFORMATION

SURNAME	DIMAROGONA
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CURRENT POSITION(S)

2017 -2025	Assistant Professor Department of Chemical Engineering, University of Patras (UP), Greece
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PREVIOUS POSITION(S)

2015 -2017	Postdoctoral Research Associate School of Chemical Engineering, National Technical University of Athens (NTUA), Greece
2014 -2015	Postdoctoral Research Associate Department of Chemistry and Biotechnology, Swedish University of Agricultural Sciences (SLU), Sweden
2012 -2014	Postdoctoral Research Associate School of Chemical Engineering, NTUA, Greece
2007-2012	Research Assistant School of Chemical Engineering, NTUA, Greece

EDUCATION

2007 - 2012	School of Chemical Engineering, NTUA, Greece. PhD thesis , Title: " <i>Structural and molecular study of biocatalysts implicated in hemicellulose degradation</i> " (Supervised by Prof. Paul Christakopoulos)
2006 - 2007	Paris XI-Sud/Paris V, France. Master in "Structural and Functional Engineering of Biomolecules" (MRes with distinction), Grade 16.83/20 (ranked 1 st) Diploma thesis title (Univ. Paris Descartes, Unit INSERM UMR-S747): " <i>Structural studies of proteins implicated in the regulation of blood pressure.</i> "
1998 - 2004	School of Chemical Engineering, NTUA, Greece Diploma in Chemical Engineering (Grade 8.17/10) Diploma thesis title: " <i>Use of pectinolytic enzymes in textile industry</i> "

PUBLICATIONS	
On May 2025, I have published 33 papers including 2 book chapters, with an h-index of 19, according to Scopus database . Below are listed the most recent ones.	
<ul style="list-style-type: none"> ▪ Mutational study of a lytic polysaccharide monooxygenase from <i>Myceliophthora thermophila</i> (MtLPM09F): Structural insights into substrate specificity and regioselectivity Kosinas C., Choroizian K., Sandgren M., Topakas E., <u>Dimarogona M.</u> * (2025) Int. J. Biol. Macromol. 288 (2025)138574. ▪ “Structural and molecular insights into a bifunctional glycoside hydrolase 30 xylanase specific to glucuronoxylan” Pentari C., Kosinas C., Nikolaivits E., <u>Dimarogona M.</u>*, Topakas E.*, (2024) Biotechnol. Bioeng., 121(7):2067-2078. ▪ The role of CE16 exo-deacetylases in hemicellulolytic enzyme mixtures revealed by the biochemical and structural study of the novel TtCE16B esterase Pentari C., Zerva, A., Kosinas, C., Karampa P., Puchart V., <u>Dimarogona M.</u>*, Topakas E.* (2024), Carbohydr. Polym., 305, 1201667. ▪ “Structure-function studies of a novel laccase-like multicopper oxidase from <i>Thermothelomyces thermophila</i> provide insights into its biological role” Kosinas C., Zerva, A., E., Topakas E., <u>Dimarogona M.</u>*, Acta Cryst D, 2023, 10.1107/S2059798323004175, https://doi.org/10.1107/S2059798323004175 ▪ “Crystal structure of feruloyl esterase FoFaeC from <i>Fusarium oxysporum</i> belonging to the fungal tannase superfamily in complex with p-coumaric acid” Ferousi C., Kosinas C., Nikolaivits E., Topakas E., <u>Dimarogona M.</u>*, FEBS Lett., 2023 https://doi.org/10.1002/1873-3468.14615 ▪ “ The xylobiohydrolase activity of a GH30 xylanase on natively acetylated xylan may hold the key for the degradation of recalcitrant xylan” Pentari C., Zerva, A., <u>Dimarogona M.</u>, Topakas E.*, Carbohydr. Polym., 2023, 305, 120527, 10.1016/j.carbpol.2022.120527, https://doi.org/10.1016/j.carbpol.2022.120527 	
TEACHING ACTIVITIES	
2018 - Today	Teaching staff – Courses: <i>Microbiology</i> (5 th semester), <i>Bioprocess Engineering</i> (7 th semester) and Laboratory: <i>Biochemical Processes</i> (7 th semester). UP, Dep. of Chemical Engineering, Greece (with the exception of one year maternity leave in 2019)
2007 - 2012	Lab assistant (as PhD student) in the Laboratory courses “Biotechnology and Environment” and “Applied Biotechnology” NTUA, School of Chemical Engineering, Greece
SUPERVISION OF GRADUATE STUDENTS & POSTDOCTORAL FELLOWS	
2018 - today	I have supervised 2 PhD students (1 completed, 1 ongoing) and 10 diploma thesis students (equivalent to MSc thesis) Univ. of Patras, Dep. of Chemical Engineering, Greece

MEMBERSHIPS & REVIEWING ACTIVITIES	
July 2023	Evaluator of Research Proposal for National Research, Development and Innovation Office, Hungary
2022-today	Secretary of the Hellenic Crystallographic Association (HeCrA), https://sites.google.com/view/hecra
January 2022	Special Issue Editor of the peer-reviewed journal Molecules for the special issue entitled " <i>Novel Enzymes for Natural Polymer Degradation</i> "
November 2022	Evaluator of an ESPA2014-2020 "Erevno-Dimiourgo-Kainotomo" project
2020	Evaluator at the "2 nd Call for HFRI Research Projects to Support Post-Doctoral Researchers"
2012 - today	Reviewer in the following peer-reviewed journals: Acta Crystallographica A, Applied and Environmental Microbiology, Applied Microbiology and Biotechnology, BBA-Proteins and Proteomics, Biotechnology and Bioengineering, Biotechnology for Biofuels and Bioproducts, Catalysts, Computational and Structural Biology Journal, The FEBS Journal, Food and Bioproducts Processing, Journal of Hazardous Materials, International Journal of Molecular Sciences, Journal of Chemical Technology and Biotechnology, Journal of Proteomics and Enzymology, PLOS ONE, Process Biochemistry, World Journal of Microbiology and Biotechnology.

FELLOWSHIPS and AWARDS	
2022	1st poster award in the FEMS (Federation of European Microbiological Societies) Conference on Microbiology, Belgrade 2022 (4th out of 5 authors)
2021	2nd poster award in the 10th International Conference of the Hellenic Crystallographic Association.
2017	State Scholarship's Foundation (IKY): Fellowships of excellence for postgraduate studies in Greece-Siemens Program.
2016	"Stamos Stournas" award for the best 2012 PhD Thesis conducted in the School of Chemical Engineering of NTUA.
2014-2015	Scholarship "VINNMER Marie Curie Incoming" from VINNOVA for postdoctoral work in the Department of Chemistry and Biotechnology, SLU, Sweden

RESEARCH GRANTS			
Project Title	Funding source	Period	Role of the PI
ChemoEnzymatic recycling of mixed plastic wastes (EnZyReMix)	H.F.R.I.	Accepted for funding in July 2023	Principal Investigator (PI) of Collaborating Institute
Discovery of novel enzymes for the bioconversion of plastics using multi-omics (PlastOmics)	H.F.R.I.	2022-Today	Research Team member
Structure and function of novel oxidases implicated in biomass degradation	University of Patras (K. Karatheodori program)	2020-2023	PI

Structural studies of a polyphenol oxidase that is applied in the bioremediation of polluted waters	ESPA 2014-2020	2019-2021	PI
Study of the synergistic action of hydrolytic and oxidative cellulases from the fungus <i>Myceliophthora thermophila</i>	IKY-Siemens	2016-2017	PI
Structure and mechanism of novel polysaccharide oxidases	VINNOVA	2014-2015	PI