ΕΥΣΤΡΑΤΙΟΣ ΝΙΚΟΛΑΪΒΙΤΣ

Εργαστηριακό Διδακτικό Προσωπικό (Ε.ΔΙ.Π), Εθνικό Μετσόβιο Πολυτεχνείο

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ΕΚΠΑΙΔΕΥΣΗ

Εθνικό Μετσόβιο Πολυτεχνείο (ΕΜΠ)
Σχολή Χημικών Μηχανικών-Εργαστήριο Βιοτεχνολογίας
Διδακτορικό στη Βιομηχανική Βιοτεχνολογία **06/2015-12/2019**
Τίτλος: "Ανακάλυψη καινοτόμων μυκητιακών βιοκαταλυτών και εφαρμογή στη βιοεξυγίανση χλωριωμένων αρωματικών ρύπων"

Εθνικό Μετσόβιο Πολυτεχνείο (ΕΜΠ)
Δίπλωμα Χημικής Μηχανικής **10/2007-03/2014**
Εξειδίκευση στη Βιοτεχνολογία και Τεχνολογία Τροφίμων
Βαθμός 7,24/10
Διπλωματική Εργασία: "Μηχανική της ετερολογης έκφρασης και χαρακτηρισμός μιας κουτινάσης του μύκητα *Fusarium oxysporum*"

ΓΛΩΣΣΕΣ

Αγγλικά-Επίπεδο C2
Γερμανικά-Επίπεδο B1

ΒΡΑΒΕΙΑ/ΔΙΑΚΡΙΣΕΙΣ/ΠΡΟΣΩΠΙΚΗ ΧΡΗΜΑΤΟΔΟΤΗΣΗ

Αρχηγός της νικήτριας ομάδας «Biorise» στο διεθνές Hackathon PLASTIC FANTASTIC **2024**

Συμμετοχή στο Global Young Scientists Summit (GYSS), Σιγκαπούρη **2023**

Χρηματοδότηση από το Adlerbertska Forskningsstiftelsen ύψους 82.000SEK για "Omic analyses of novel acidophilic fungi for the valorization of agro-industrial residues" **2022**

Βραβείο καλύτερου Πόστερ (2η Θέση) στο 8th International Conference on Sustainable Solid Waste Management **2021**

Βραβείο Καλύτερης Δημοσίευσης στο
1st International Electronic Conference on Catalysis Sciences **2020**

Βραβείο Ιδρύματος Dimitris N. Chorafas
Για την καλύτερη Διδακτορική Διατριβή ΕΜΠ 2019 (1η Θέση) **2020**

Βραβείο "Ιάκωβος Γκιουρουνλιάν" από Κοινωφελές 'Ιδρυμα Μιχαήλ Ν. Στασινόπουλος-ΒΙΟΧΑΛΚΟ για την καλύτερη Διδακτορική Διατριβή των Χημικών Μηχανικών με αντικείμενο βιομηχανικού ενδιαφέροντος για το 2019 (2η Θέση) **2020**

"Θωμαΐδειο Βραβείο" για δημοσίευση από φοιτητές του ΕΜΠ **2017-2019**

Υποτροφία για Εκπόνηση Διδακτορικής Διατριβής από το Ίδρυμα Κρατικών Υποτροφιών (ΙΚΥ) **2016-2019**

Υποτροφία από το COST Action CM1303 (*Systems Biocatalysis*) για εκπόνηση ερευνητικής αποστολής μικρής διάρκειας **2017**

ΕΥΣΤΡΑΤΙΟΣ ΝΙΚΟΛΑΪΒΙΤΣ **ΝΟΕΜΒΡΙΟΣ 2024**

ΔΙΔΑΚΤΙΚΗ ΕΜΠΕΙΡΙΑ ΚΑΙ ΕΠΙΒΛΕΨΗ ΦΟΙΤΗΤΩΝ

Πανεπιστήμιο της Βερόνα
Τμήμα Βιοτεχνολογίας
Επισκέπτης Καθηγητής **05/2023**
Μάθημα "New Frontiers in Biocatalysis" του Μεταπτυχιακού Προγράμματος "Biotechnology for Bioresources and Sustainable Development"

Εθνικό Μετσόβιο Πολυτεχνείο (ΕΜΠ)
Σχολή Χημικών Μηχανικών
Τομέας Σύνθεσης και Ανάπτυξης Βιομηχανικών Διεργασιών
Εργαστηριακό Διδακτικό Προσωπικό **12/2022-**
Εργαστηριακά Μαθήματα: Βιομηχανική Βιοτεχνολογία, Περιβαλλοντική Βιοτεχνολογία, Εμβιομηχανική, Χημεία/Μικροβιολογία/Συντήρηση Τροφίμων
Φροντιστηριακά Μαθήματα: Βιοχημική Μηχανική

Εθνικό Μετσόβιο Πολυτεχνείο (ΕΜΠ)
Σχολή Χημικών Μηχανικών-Εργαστήριο Βιοτεχνολογίας
Επίβλεψη Εργασιών **06/2015-**
Προπτυχιακοί/Μεταπτυχιακοί: N. Mendoza-Vallejo (2023), I. Σοφιανόπουλος (2023), Κ. Μακρυνιώτης (2021-Βραβείο), Φ. Δημοπούλου (2020), Ε. Πρινέα (2020), Ρ. Σιαπέρας (2019), Μ. Παναγιωτοπούλου (2018), Α. Αγραφιώτης (2017), Α. Χαλιμά (2016-Βραβείο), Ι. Καραγιαννάκη (2016), Γ. Μακρής (2015), Γ.Φ. Νόρρα (2015)
Διδακτορικοί: Γ. Ταξείδης (2020-), Κ. Μακρυνιώτης (2021-), Μ. Παπή (2024-)

ΕΡΕΥΝΗΤΙΚΗ ΕΜΠΕΙΡΙΑ

Εθνικό Μετσόβιο Πολυτεχνείο (ΕΜΠ)
Συνεργαζόμενος Ερευνητής **09/2024-12/2024**
TwInn4MicroUp "Twinning Innovation Hub For Microbial Platforms In Plastic Upcycling"
Horizon Europe

ΕΛΙΔΕΚ Εθνικό Μετσόβιο Πολυτεχνείο (ΕΜΠ)
Συνεργαζόμενος Ερευνητής **02/2024-12/2024**
EnZyReMix "Chemoenzymatic recycling of mixed plastic waste"
ΕΛΙΔΕΚ

Εθνικό Μετσόβιο Πολυτεχνείο (ΕΜΠ)
Συνεργαζόμενος Ερευνητής **01/2023-12/2024**
PlastOmics "Discovery of novel enzymes for the bioconversion of plastics using multi-omics"
ΕΛΙΔΕΚ

Chalmers University of Technology
Μεταδιδακτορικός Ερευνητής **09/2021-12/2022**
"Exploring fungal extremophiles in South East Asia biodiversity"
Swedish Research Council

Εθνικό Μετσόβιο Πολυτεχνείο (ΕΜΠ)
Μεταδιδακτορικός Ερευνητής **01/2020-09/2021**
BioICEP "Bio Innovation of a Circular Economy for Plastics",
Horizon 2020

Εθνικό Μετσόβιο Πολυτεχνείο (ΕΜΠ)
Ερευνητής **11/2015-09/2019**
TASCMAR "Tools And Strategies to access original bioactive compounds by Cultivating MARine invertebrates and associated symbionts", Horizon 2020

TECHNION-Israel Institute of Technology
Ερευνητής **02/2017-03/2017**
"Bioconversion of cinnamic acid derivatives towards the production of caffeic acid using engineered monooxygenase and PPO", EU COST Action CM1303 *Systems Biocatalysis*

Εθνικό Μετσόβιο Πολυτεχνείο (ΕΜΠ)
Ερευνητής **10/2014-09/2015**
"The Sustainable Integrated Method for the Production of Lignocellulosic Ethanol-SIMPLE", SYNERGASIA 2011-ΕΣΠΑ

Εθνικό Ίδρυμα Ερευνών (ΕΙΕ)
Τμήμα Βιολογικών Ερευνών και Βιοτεχνολογίας
Πρακτική **09/2011-12/2011**
Development of bacterial strains for screening of rescuers for neurodegenerative diseases

ΚΡΙΤΗΣ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ

Υπηρετώ ως κριτής σε πάνω από 20 επιστημονικά περιοδικά, έχοντας ολοκληρώσει >70 κριτικές. Επιλεγμένα περιοδικά φαίνονται παρακάτω:

- Archives of Microbiology – Springer (IF 2.8)
- Synthetic Biology – Oxford Academic (IF 3.2)
- Environmental Pollutants and Bioavailability – Taylor & Francis (IF 3.3)
- Royal Society Open Science – Royal Society Publishing (IF 3.7)
- World Journal of Microbiology and Biotechnology – Springer (IF 4.3)
- Toxics – MDPI Publishing (IF 4.5)
- Catalysts (Reviewer Board Member) – MDPI Publishing (IF 4.5)
- Int. Journal of Environmental Research and Public Health – MDPI Publishing (IF 4.6)
- Process Biochemistry – Elsevier (IF 4.9)
- Microorganisms – MDPI Publishing (IF 4.9)
- Molecules – MDPI Publishing (IF 4.9)
- Applied and Environmental Microbiology – ASM Journals (IF 5.0)
- Molecular Catalysis – Elsevier (IF 5.1)
- Food and Bioproducts Processing – Elsevier (IF 5.1)
- Antibiotics (Reviewer Board Member) – MDPI Publishing (IF 5.2)
- Frontiers in Chemistry – Frontiers (IF 5.6)
- Journal of Fungi – MDPI Publishing (IF 5.7)

Biomolecules – MDPI Publishing (IF 6.1)

Frontiers in Bioengineering and Biotechnology – Frontiers (6.1)

Computational and Structural Biotechnology Journal – Elsevier (IF 6.2)

International Journal of Molecular Sciences – MDPI Publishing (IF 6.2)

Food & Function – Royal Society of Chemistry (IF 6.3)

Journal of Hazardous Materials – Elsevier (IF 13.6)

Chemical Engineering Journal – Elsevier (IF 15.1)

Biotechnology Advances – Elsevier (IF 16)

ΔΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΠΕΡΙΟΔΙΚΑ ΜΕ ΚΡΙΤΕΣ

31. Caputo, F.; Siaperas, R.; Dias, C.; **Nikolaivits, E.** & Olsson, L. Elucidating *Thermothielavioides terrestris* secretome changes for improved saccharification of mild steam-pretreated spruce. *Biotechnol. Biofuels.* **2024**, 17, 127.
30. Taxeidis, G.; **Nikolaivits, E.**; Nikodinovic-Runic, J.; Topakas, E. Mimicking the enzymatic plant cell wall hydrolysis mechanism for the degradation of polyethylene terephthalate. *Environ. Pollut.* **2024**, 356, 124347.
29. Pentari, C.; Kosinas, C.; **Nikolaivits, E.**; Dimarogona, M.; Topakas, E. Structural and molecular insights into a bifunctional glycoside hydrolase 30 xylanase specific to glucuronoxylan. *Biotechnol & Bioeng*. **2024**, 1-12.
28. Makryniotis, K.;‡ **Nikolaivits, E.**;‡ Nikodinovic-Runic, J.; Topakas, E. Exploring the substrate spectrum of phyllogenetically distinct bacterial polyesterases. *Biotechnol. J.* **2024**, 19,4 2400053.
27. Taxeidis, G.; Djapovic, M.; **Nikolaivits, E.**; Maslak, V.; Nikodinovic-Runic, J.; Topakas, E. New Labeled PET Analogues Enable the Functional Screening and Characterization of PET-Degrading Enzymes. *ACS Sustain. Chem. Eng*. **2024**, 12, 15, 5943–5952.
26. Makryniotis, K.; **Nikolaivits, E.***; Gkountela, C.; Vouyiouka, S.; Topakas, E. Discovery of a polyesterase from *Deinococcus maricopensis* and comparison to the benchmark LCC^{ICCG} suggests high potential for semi-crystalline post-consumer PET degradation. *J. Hazard. Mater*. **2023**, 455, 131574.
25. Taxeidis, G.; **Nikolaivits, E.**; Siaperas, R.; Gkountela, C.; Vouyiouka, S.; Pantelic, B.; Nikodinovic-Runic, J.; Topakas, E. Triggering and identifying the polyurethane and polyethylene-degrading machinery of filamentous fungi secretomes. *Environ. Pollut*. **2023**, 325, 121460.
24. Ferousi, C.; Kosinas, C.; **Nikolaivits, E.**; Topakas, E.; Dimarogona, M. Crystal structure of the *Fusarium oxysporum* tannase-like feruloyl esterase FaeC in complex with *p*-coumaric acid provides insight into ligand binding. *FEBS Lett*. **2023**, 597: 1415-1427.
23. **Nikolaivits, E.**; Taxeidis, G.; Gkountela, C.; Vouyiouka, S.; Maslak, V.; Nikodinovic-Runic, J.; Topakas, E. A polyesterase from the Antarctic bacterium *Moraxella* sp. degrades highly crystalline synthetic polymers, *J. Hazard. Mater*. **2022**, 434, 128900.
22. Attallah, O.A.; Azeem, M.; **Nikolaivits, E.**; Topakas, E.; Fournet, M.B. Progressing ultragreen, energy-efficient biobased depolymerization of poly(ethylene terephthalate) via microwave-assisted green deep eutectic solvent and enzymatic treatment, *Polym*. **2022**. 14.

21. Zerva, A.; Pentari, C.; Ferousi C.; **Nikolaivits E.**; Karnaouri, A.; Topakas E. Recent advances on key enzymatic activities for the utilisation of lignocellulosic biomass, *Bioresour. Technol*. **2021**, 342, 126058.
20. **Nikolaivits, E.**; Pentari, C.; Kosinas, C.; Feiler, C.; Spiliopoulou, G.; Weiss, M.S.; Dimarogona, M.; Topakas, E. Unique features of the bifunctional GH30 from *Thermothelomyces thermophila* revealed by structural and mutational studies. *Carbohydr. Polym*. **2021**, 273, 118553.
19. **Nikolaivits, E.**; Pantelic, B.; Azeem, M.; Taxeidis, G.; Babu, R.; Topakas, E.; Brennan Fournet, M.; Nikodinovic-Runic, J. Progressing plastics circularity: A review of mechano-biocatalytic approaches for waste plastic (re)valorization. *Front. Bioeng. Biotech.* **2021**, 9, 535.
18. **Nikolaivits, E.**; Valmas, A.; Dedes, G.; Topakas, E.; Dimarogona, M. Considerations on activity determinants of fungal polyphenol oxidases based on mutational and structural studies. *Appl. Environ. Microbiol*. **2021**, AEM.00396-21.
17. Djapovic, M.; Milivojevic, D.; Ilic-Tomic, T.; Lješević, M.; **Nikolaivits, E.**; Topakas, E.; Maslak, V.; Nikodinovic-Runic, J. Synthesis and characterization of polyethylene terephthalate (PET) precursors and potential degradation products: Toxicity study and application in discovery of novel PETases. *Chemosphere*. **2021**, 275, 130005.
16. **Nikolaivits, E.**; Siaperas, R.; Agrafiotis, A.; Ouazzani, J.; Gioti, A.; Topakas, E. Functional and transcriptomic investigation of laccase activity in the presence of PCB29 identifies two novel enzymes and the multicopper oxidase repertoire of a marine-derived fungus. *Sci. Total Environ.* **2021**, 775, 145818.
15. **Nikolaivits, E.**; Agrafiotis, A.; Baira, E.; Le Goff, G.; Tsafantakis, N.; Chavanich, S.; Benayahu, Y.; Ouazzani, J.; Fokialakis, N.; Topakas, E. Degradation mechanism of 2,4-dichlorophenol by fungi isolated from marine invertebrates. *Int. J. Mol. Sci.* **2020**, 21(9), 3317.
14. Gioti, A.; Siaperas, R.; **Nikolaivits, E.**; Le Goff, G.; Ouazzani, J.; Kotoulas, G.; Topakas, E. Draft genome sequence of a *Cladosporium* species isolated from the mesophotic ascidian *Didemnum maculosum*. *Microbiol. Resour. Announc*., **2020**, 9, e00311-20.
13. Paz, A.; **Nikolaivits, E.**; Topakas, E. Valorization of olive mill wastewater towards the production of L-asparaginases. *Biomass Convers. Biorefin.* **2020**, 1-8.
12. **Nikolaivits, E.**; Agrafiotis, A.; Termentzi, A.; Machera, K.; Le Goff, G.; Álvarez, P.; Chavanich, S.; Benayahu, Y.; Ouazzani, J.; Fokialakis, N.; Topakas, E. Unraveling the detoxification mechanism of 2,4-dichlorophenol by marine-derived mesophotic symbiotic fungi isolated from marine invertebrates. *Mar. Drugs.* **2019**, 17, 564.
11. Mandic, M.; Djokic, L.; **Nikolaivits, E.**; Prodanovic, R.; O'Connor, K.; Jeremic, S.; Topakas, E.; Nikodinovic-Runic, J. Identification and characterization of new laccase biocatalysts from *Pseudomonas* species suitable for degradation of synthetic textile dyes. *Catalysts*. **2019**, 9, 629.
10. **Nikolaivits, E.**; Kanelli, M.; Dimarogona, M.; Topakas E. A middle-aged enzyme still in its prime: Recent advances in the field of cutinases. *Catalysts.* **2018**, 8(12), 612.
9. **Nikolaivits, E.**; Dimarogona, M.; Karagiannaki I.; Chalima A.; Fishman A.; Topakas E. Characterization and protein engineering of a novel versatile fungal polyphenol oxidase with chlorophenol bioremediation potential. *Appl. Environ. Microbiol.* **2018**, 84, e01628-18.
8. **Nikolaivits, E.**; Termentzi, A.; Skaltsounis, A.-L.; Fokialakis, N.; Topakas, E. Enzymatic tailoring of oleuropein from *Olea europaea* leaves and product identification by HRMS/MS spectrometry. *J. Biotechnol.* **2017**, 253, 48–54.
7. **Nikolaivits, E.**; Makris, G.; Topakas, E. Immobilization of a cutinase from *Fusarium oxysporum* and application in pineapple flavor synthesis. *J. Agric. Food Chem.* **2017**, 65 (17), 3505–3511.

6. **Nikolaivits, E.**; Dimarogona, M.; Fokialakis, N.; Topakas, E. Marine-derived biocatalysts: Importance, accessing, and application in aromatic pollutant bioremediation. *Front. Microbiol.* **2017**, 8, 265.
5. El-Gamal, R.; **Nikolaivits, E.**; Zervakis, G. I.; Abdel-Maksoud, G.; Topakas, E.; Christakopoulos, P. The use of chitosan in protecting wooden artifacts from damage by mold fungi. *Electron. J. Biotechnol.* **2016**, 24, 70–78.
4. **Nikolaivits, E.**; Kokkinou, A.; Karpusas, M.; Topakas, E. Microbial host selection and periplasmic folding in *Escherichia coli* affect the biochemical characteristics of a cutinase from *Fusarium oxysporum*. *Protein Expr. Purif.* **2016**, 127, 1–7.
3. **Nikolaivits, E.**; Norra, G.-F.; Voutsas, E.; Topakas, E. Cutinase from *Fusarium oxysporum* catalyzes the acylation of tyrosol in an aqueous medium: optimization and thermodynamic study of the reaction. *J. Mol. Catal. B Enzym.* **2016**, 129, 29–36.
2. Kanelli, M.; Vasilakos, S.; **Nikolaivits, E.**; Ladas, S.; Christakopoulos, P.; Topakas, E. Surface modification of poly(ethylene terephthalate) (PET) fibers by a cutinase from *Fusarium oxysporum*. *Process Biochem.* **2015**, 50 (11), 1885–1892.
1. Dimarogona, M.; **Nikolaivits, E.**; Kanelli, M.; Christakopoulos, P.; Sandgren, M.; Topakas, E. Structural and functional studies of a *Fusarium oxysporum* cutinase with polyethylene terephthalate modification potential. *Biochim. Biophys. Acta - Gen. Subj.* **2015**, 1850 (11), 2308–2317.

ΔΗΜΟΣΙΕΥΣΕΙΣ ΑΠΟ ΣΥΝΕΔΡΙΑ ΚΑΙ ΣΕ ΠΕΡΙΟΔΙΚΑ ΧΩΡΙΣ ΚΡΙΤΕΣ

6. **Nikolaivits, E.**, Dimopoulou, P., Maslak, V., Nikodinovic-Runic, J., Topakas, E. Discovery and biochemical characterization of a novel polyesterase for the degradation of synthetic plastics. *Chem. Proc.* **2020**, 2, 33.
5. **Nikolaivits, E.;** Dimarogona M.; Karagiannaki I.; Chalima A.; Fishman A.; Topakas, E. Discovery and mutation of a novel enzyme for the removal of environmental pollutants. *Atlas of Science* **2020**, May 20
4. **Nikolaivits, E.**; Agrafiotis, A.; Fokialakis, N.; Topakas, E. Biodegradation of 2, 4, 5-trichlorobiphenyl (PCB29) by marine-derived mesophotic fungi. *N. Biotechnol.* **2018**, 44, S136–S137.
3. **Nikolaivits, E.;** Topakas, E. Improved characteristics of an industrial biocatalyst expressed in engineered *E. coli*. *Atlas of Science* **2017**, February 8
2. **Nikolaivits, E**.; Termentzi, A.; Skaltsounis, A.; Fokialakis, N.; Topakas, E. Enzymatic tailoring of oleuropein isolated from *Olea europaea* leaves. *Planta Med.* **2016**, 81 (S 01), S1–S381.
1. Topakas, E.; **Nikolaivits, E.**; Kanelli, M.; Christakopoulos, P. A cutinase from *Fusarium oxysporum* with potential for PET surface modification. *N. Biotechnol.* **2014**, 31, Supple (0), S90.

ΠΑΡΑΚΟΛΟΥΘΗΣΗ ΜΑΘΗΜΑΤΩΝ/ΣΕΜΙΝΑΡΙΩΝ ΕΞΕΙΔΙΚΕΥΣΗΣ

5. **"Creating and managing effective teams" –** Μάθημα γενικών και μεταβιβάσιμων δεξιοτήτων που παρέχεται από το Chalmers University of Technology (2023)

4. **"Webinars on Fridays 2021" από Ελληνική Επιστημονική Εταιρία "MikroBioKosmos" –** *Προφορική παρουσίαση*
   "Plastic Biodegradation: Can the existing microbial enzymatic system be a sustainable solution?"
3. **3rd International Meeting of the Hellenic Crystallographic Association's Young Researchers (Patras, Greece 2019) -** *Προφορική παρουσίαση*
   "Structural and functional characterization of a novel fungal polyphenol oxidase and its variants"
2. **Diffraction Data Collection Using Synchrotron Radiation Workshop by the German Crystallographic Society – DGK-AK1 (Berlin, Germany 2019) -** *Προφορική παρουσίαση*
   "Structural studies of a novel GH30 xylanase with unique catalytic properties"
1. **COST Action "Systems Biocatalysis" Training School (Siena, Italy 2016) -** *Προφορική παρουσίαση*
   "Heterologous expression, crystal structure, evolution and immobilization of a cutinase with a variety of applications"

ΠΑΡΟΥΣΙΑΣΕΙΣ ΣΕ ΔΙΕΘΝΗ ΣΥΝΕΔΡΙΑ

22. **7th LignoBiotech Symposium (Toulouse, France 2024)**
    "Mimicking the enzymatic plant cell wall hydrolysis machinery for the degradation of polyethylene terephthalate",
    "Harnessing the catalytic potential of a ferulic acid esterase for MHET hydrolysis" και
    "Exploration and expansion of the diversity and characteristics of acidophilic filamentous fungi through environmental sampling and whole-genome sequencing"-Βραβείο
21. **10th MIKROBIOKOSMOS Conference (Larissa, Greece 2023)**
    "A novel PET hydrolase with high potential for degradation of crystalline plastics"
20. **16th BIOTRANS (La Rochelle, France 2023)**
    "The first crystal structure of a tannase-like feruloyl esterase in complex with a hydroxycinnamic acid" και
    "Novel fluorescent compounds for screening and characterizing PET-degrading enzymes"
    "Side to side comparison of a novel wild-type polyesterase from *Deinococcus maricopensis* with LCC^{ICCG} indicates promising degradation of semi-crystalline post-consumer PET"
19. **Carbohydrate Bioengineering Meeting (CBM14) (Oslo, Norway 2022)**
    "Investigation of CAZymes induced by *Thielavia terrestris*' growth on mildly steam treated spruce"
18. **FEMS Conference in Microbiology (Belgrade, Serbia 2022)**
    "Lignocellulose-degrading potential of novel acidophilic fungi"
17. **21st European Meeting on Environmental Chemistry (Novi Sad, Serbia 2021)**
    "Discovery of novel polyesterases capable of degrading a variety of synthetic polyesters"
16. **8th International Conference on Sustainable Solid Waste Management (Virtual, 2021)**
    "Discovery of a novel PETase-like enzyme for the degradation of plastic waste" –*Βραβείο Καλύτερου Πόστερ*
15. **European Federation of Biotechnology Conference (Virtual, 2021)**
    "The ability of a known plant-biomass degrading fungus to break down polyurethane" και
    "Selective degradation of polyethylene terephthalate (PET)-related substrates by *Penicillium* sp. MM41"
14. **15th BIOTRANS (Virtual, 2021)**
    "Repurposing of plant-biomass hydrolyzing enzymes for the degradation of polyethylene terephthalate (PET)",
    "Investigation of the dual function of a GH30_7 xylanase through structural studies" και
    "Towards novel polyethylene terephthalate (PET)-ases: Whole-cell biotransformation of PET-related substrates"

13. **Protein Data Bank Symposium-PDB50 (Virtual, 2021)**
"Structural and functional characterization of a novel fungal GH30_7 xylanase with xylobiohydrolase auxiliary activity"
12. **1st International Electronic Conference on Catalysis Sciences (Virtual, 2020)**
"Discovery and biochemical characterization of a novel polyesterase for the degradation of synthetic plastics" – *Βραβείο Καλύτερης Δημοσίευσης*
11. **14th BIOTRANS (Groningen, the Netherlands 2019)**
"Structural and functional characterization of a novel fungal GH30_7 xylanase with xylobiohydrolase auxiliary activity"
10. **6th International Conference on Novel Enzymes (Darmstadt, Germany 2018)**
"Discovery of a novel enzymatic activity from a marine-derived fungus: Catalase with catechol dioxygenase activity" και
"Expression and purification of a novel laccase from a marine-derived mesophotic PCB-degrading fungus"
9. **18th European Congress On Biotechnology (Geneva, Switzerland 2018)**
"Biodegradation of 2,4,5-trichlorobiphenyl (PCB29) by marine-derived mesophotic fungi"
8. **6th International Conference on Sustainable Solid Waste Management (Naxos, Greece 2018)** -*Oral presentation*
"Potential of marine-derived mesophotic fungi for the bioremediation of 2,4-dichlorophenol-contaminated wastewaters"
8. **13th BIOTRANS (Budapest, Hungary 2017)**
"Discovery of marine-derived mesophotic biocatalysts for the degradation of persistent organic pollutants" και
"Protein engineering of a fungal Polyphenol oxidase and its potential application in bioconversion of POPs"
6. **8th European Meeting on OxiZymes (Wageningen, the Netherlands 2016)**
"Protein engineering of a catechol oxidase and its potential application in bioconversion of POPs"
5. **5th International Conference on Novel Enzymes (Groningen, the Netherlands 2016)**
"Protein engineering of a polyphenol oxidase towards enhancement of its monophenolase activity"
4. **12th BIOTRANS (Vienna, Austria 2015)**
"Study of the synthetic potential of a *Fusarium oxysporum* cutinase in water-oil biphasic reaction system"
3. **9th Joint Meeting in Medicinal Chemistry (Athens, Greece 2015)**
"Enzymatic tailoring of oleuropein isolated from *Olea europaea* leaves"
2. **11th Carbohydrate Bioengineering Meeting (Espoo, Finland 2015)**
"Structural and functional studies of a *Fusarium oxysporum* cutinase with poly(ethylene terephthalate) modification potential"
1. **16th European Congress on Biotechnology (Edinburgh, Scotland 2014)**
"A cutinase from *Fusarium oxysporum* with potential for PET surface modification"

ΠΑΡΟΥΣΙΑΣΕΙΣ ΣΕ ΕΘΝΙΚΑ ΣΥΝΕΔΡΙΑ

9. **14ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής (Θεσσαλονίκη 2024)**
"Repurposing fungal plant biomass-hydrolyzing enzymes for the degradation of polyethylene terephthalate" – Βραβείο,
"Discovery of a thermotolerant MHET hydrolase scaffold using bioinformatics and machine learning" και
"Investigation of structural determinants of plastic degrading enzymes via X-ray crystallography and molecular docking"

8. **13ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής (Πάτρα 2022)**
   "High throughput screening assay for the discovery of novel PETase enzymes" και
   "Discovery of novel polyesterases capable to degrade plastic waste"
7. **9ο Συνέδριο Μικροβιόκοσμος (Αθήνα 2021)**
   "The potential of novel fungal isolates for the degradation of non-biodegradable synthetic polymers"
6. **8ο Συνέδριο Μικροβιόκοσμος (Πάτρα 2019)**
   "Exploiting marine fungal biodiversity of the mesophotic zone for biodegradation of organic pollutants"
5. **11ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής (Θεσσαλονίκη 2017)**
   "Study of the enzymatic polymerization and mass postpolymerization towards poly(cuccinic butyl ester)"
4. **7ο Συνέδριο Μικροβιόκοσμος (Αθήνα 2017)**
   "Protein engineering of a polyphenoloxidase from fungus *Myceliophthora thermophila* aiming to the increase its monophenolase activity" και
3. **10ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής (Πάτρα 2015)**
   "Acylation of tyrosol in biphasic systems using a cutinase from the fungus *Fusarium oxysporum*"
2. **6ο Συνέδριο Μικροβιόκοσμος (Αθήνα 2015) -** *Προφορική παρουσίαση*
   "Structural and functional studies of a cutinase from *Fusarium oxysporum* with synthetic activity in water-oil biphasic systems and thermodynamic study of the reaction system"
1. **9ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής (Αθήνα 2013)**
   "Surface modification of synthetic textile products using a cutinase from the fungus *Fusarium oxysporum*"