

LISTA DE PUBLICAȚII

ARTICOLE PUBLICATE ÎN REVISTE CATEGORIA A (COTATE ISI)

1. **Gheorghita Menghiu**, Vasile Ostafe, Radivoje Prodanovic, Rainer Fischer, Raluca Ostafe, *A high-throughput screening system based on fluorescence-activated cell sorting for the directed evolution of chitinase A*, International Journal of Molecular Sciences, 2021, 22(6): p. 3041. **IF 5.923**.
2. Zoran Stevanovic, Renata Kovacevic, Radmila Markovic, Vojka Gardic, Bianca Constantina Vulpe, Bianca Boros, **Gheorghita Menghiu**, *State of the surface waters in cross border region of eastern serbia and caras severin county – Moldova Noua in Romania*, Studia UBB Chemia, 2021, 66(4), pp 309-328
3. Cristina Moraru, Manuela Mincea, **Gheorghita Menghiu**, Vasile Ostafe, *Understanding the factors influencing chitosan-based nanoparticles-protein corona interaction and drug delivery applications*, Molecules, 2020, 25(20), p 4758.
4. **Gheorghita Menghiu**, Vasile Ostafe, Radivoje Prodanovic, Rainer Fischer, Raluca Ostafe, *Biochemical characterization of chitinase A from Bacillus licheniformis DSM8785 expressed in Pichia pastoris KM71H*, Protein Expression and Purification, 2019, 154, pp 25-32. **IF 1.513**.
5. **Gheorghita Menghiu**, Lauriana-Eunice Zbîrcea, Vasile Ostafe, *Use of factorial design to optimize the efficiency of bacterial transformation*, Studia UBB Chemia, 2019, 64, pp 23-34. **IF 0.494**.
6. **Gheorghita Menghiu**, Amalia Nicoleta Iancu, Vasile Ostafe, *A fast and sensitive zymography method of peroxidase activity determination using sodium acetate buffer*, Studia UBB Chemia, 2019, 64, pp 536-539. **IF 0.494**.

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1. Monica Elena Gușă, **Gheorghita Menghiu**, Vasile Ostafe, *Improvement of staining / destaining steps of proteins SDS – PAGE*, New Frontiers in Chemistry, 25 (2) (2016), pp 115-124.
2. Ovidiu Silviu Cotreanti, **Gheorghita Menghiu**, Vasile Ostafe, *Preliminary outcomes regarding the optimization of separation of plasmids by agarose gel electrophoresis*, New Frontiers in Chemistry, 25 (2) (2016), pp 107-113.

3. Bianca Vanesa Boros, **Gheorghita Menghiu**, Adina Matica, Vasile Ostafe, *Use of ninhydrin reaction for estimation of acetylation degree of chitosan*, New Frontiers in Chemistry, 25 (2) (2016), pp 95-105.
4. Bianca Vulpe, **Gheorghita Menghiu**, Adina Matica, Vasile Ostafe, *Estimation of the molecular weight of chitosan by PAGE*, New Frontiers in Chemistry, 25 (2) (2016), pp 135-143.
5. Rahela Ioana Zbîrcea, **Gheorghita Menghiu**, Adina Matica, Vasile Ostafe, *Use of 3,5-dinitrosalicylic acid reaction to study the chitosan hydrolysis*, New Frontiers in Chemistry, 25 (2) (2016), pp 145-153.
6. **Gheorghita Menghiu**, Alexandra Murvay, Marija Blazic, Nevena Zelenovic, Diana-Larisa Vlădoiu, Vasile Ostafe, *Transfer of a gene from a bacterial cloning plasmid to an yeast expression plasmid*, Annals of West University of Timișoara, ser. Chemistry, 22 (3 - 4) (2013) 55-66.
7. **Gheorghita Menghiu**, Marius Cuțitar, Marija Blazic, Beatrice Vlad-Oros, Vasile Ostafe, *Use of factorial design as an application of the optimization of expression of Taq DNA polymerase I cloned in E. coli*, Annals of West University of Timișoara, ser. Chemistry, 22 (3 - 4) (2013) 67 – 80.
8. **Gheorghita Menghiu**, Elena Iriza, Adelina Danciu, Orsolya Tünde Zsombori, Cecilia Găman, Hanelore - Elena Muntean, *Biomonitoring of urban area by anatomical leaf changes*, Annals of West University of Timișoara, ser. Biology, 2012, vol XV (2), pp. 125-130.

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1. **Gheorghita Menghiu**, Renata Kovacevic, Mariana Adina Matica, Daniela Dascalu, Bianca Vanesa Boros, Zoran Stevanovic, Adriana Isvoran, Vasile Ostafe, *Cleaning metal-polluted water using microorganisms generally recognized as safe for humans*, VII International Congress “Engineering, Environment and Materials in Process Industry“, 17-19 March 2021, Jahorina, Bosnia and Herzegovina.
2. Bianca Constantina Vulpe, Daniela Dascalu, Bianca Vanesa Boros, **Gheorghita Menghiu**, Mariana Adina Matica, Diana Larisa Roman, Beatrice Vlad Oros, Renata Kovacevic, Zoran Stevanovic, Vasile Ostafe, Adriana Isvoran, *Quality of water in Moldova Noua mining area, Romania*, VII International Congress “Engineering, Environment and Materials in Process Industry“, 17-19 March 2021, Jahorina, Bosnia and Herzegovina.

3. **Gheorghita Menghiu**, Vasile Ostafe, *Chitinazele cu proprietăți îmbunătățite: soluție pentru managementul și valorificarea deșeurilor de chitină*, Conferința Școlilor Doctorale din Consorțiu, Ed. a III-a – 2020 / Chimie, online, 12 Decembrie 2020, Universitatea din București, Romania.
4. **Gheorghita Menghiu**, Bianca-Vanesa Boros, Adina Mariana Matica Vasile Ostafe, *Chitinases – Enzymes suitable for the production of chitooligosaccharides used in wound healing*, International Conferene on Cell and Gene Therapy, 26-27 November, 2019, Lisbon, Portugal.
5. **Gheorghita Menghiu**, Vasile Ostafe, *Chitinazele termostabile: biocatalizatori pentru obținerea de chitooligozaharide folosite în industria biocombustibililor*, Conferința Școlilor Doctorale din Consorțiu, Ed. a II-a – 2019 / Chimie, 11-14 Noiembrie 2019, Universitatea de Vest din Timișoara, Romania.
6. **Gheorghita Menghiu**, Vasile Ostafe, *Chitinases: An option for the future of nanomedicine, nanobiotechnology and nanoagriculture*, Workshop Nano-Mod, 22-23 April 2019, West University of Timisoara, Romania.
7. **Gheorghita Menghiu**, Vasile Ostafe, Raluca Ostafe, *Development of high-throughput screening systems based on FACS or microfluidic devices for the directed evolution of chitinases* 15th FEBS Young Scientists Forum (YSF), 2 – 4 July, 2015, Berlin, Germany; Book of Abstracts p. 116 (2015).
8. **Gheorghita Menghiu**, Vasile Ostafe, Raluca Ostafe, *Development of high-throughput screening systems based on FACS or microfluidic devices for the directed evolution of chitinases* 40th Congress of The Federation of European Biochemical Societies (FEBS), 4 – 9 July, 2015, Berlin, Germany; Book of Abstracts p. 63 (2015).