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BOOKS

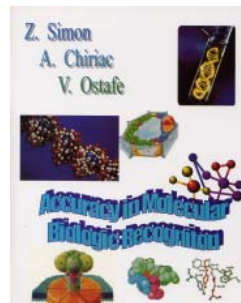
BOOKS (as single author)

1. **Ostafe, V.** "BIOCHIMIE PRACTICĂ - Manual de laborator", Timișoara, Editura Mirton; 1994 (180 pag.)
2. **Ostafe, V.** "TESTE DE BIOCHIMIE", Timișoara, Editura Mirton; 1994 (108 pag)
3. **Ostafe, V.** "Să Învățăm Biochimia prin Teste - vol I.: Biochimie Descriptivă", Timișoara, Ed, Brumar; 1999
4. **Ostafe, V.**, "Aplicații ale HPLC în Biochimie", Ed. Brumar, Timisoara, 2000
5. **Ostafe, V.**, "Sfaturi pentru Realizarea Lucrărilor Științifice de Succes...", Ed. Universității de Vest, Timisoara, 2008



BOOKS (collaboration)

6. Simon, Z., Chiriac, A., **Ostafe, V.** "Accuracy in Molecular Biologic Recognition", Timișoara, Ed, Mirton; 2000



BOOK CHAPTER

7. Schell, H.D., **Ostafe, V.** "Biochimie", în "Istoria Biologiei în Date", (18) (*The Chapter 18 - Biochemistry in the book The History of Biology in Data*) (editori: Mohan, G., Gavril, L., Ardelean, A., Pârvu, C.), București, Editura ALL, (1996) 378-405.



MONOGRAPHS

A) PUBLISHED IN “SERIA DE MONOGRAFII DE CHIMIE” (an extension of Scientific Journal *Annals of West University of Timisoara – Series of Chemistry*)

1. Stoian, C., **Ostafe, V.** (2006) “Extractia în fază solidă versus extractia în fază lichidă în pregătirea probelor biologice și de mediu pentru analize cromatografice de pesticide”, *Seria de Monografii de Chimie*, **59**, 1-90

B) PUBLISHED IN “SERIA DE MONOGRAFII DE BIOCHIMIE CUANTICĂ ȘI INTERACȚII SPECIFICE” (an extension of Scientific Journal *Annals of West University of Timisoara – Series of Chemistry*)

1. Mincea, M., **Ostafe, V.** (2005) „Fosfataza Alcalină”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice*, **2**, 1-69
2. Ostafe, R., **Ostafe, V.** (2006) „Polycyclic Aromatic Hydrocarbons” *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **3**, 1 – 155
3. Stoian, C., **Ostafe, V.** (2006) “Toxicitatea Pesticidelor s-Triazinice”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **4**, 1-111
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7. Stoian, C., **Ostafe, V.** (2006) “ Degradarea Pesticidelor s-Triazinice”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **8**, 1-97
8. Gavriluc, O., **Ostafe, V.** (2006) “ An Insight into the Health Claims of Dietary Supplements”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **9**, 1-100
9. Mincea, M., **Ostafe, V.** (2007) „Issues Concerning the Toxicology and Biotransformation of Ionic Liquids”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **10**, 1 – 58
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11. Crăciun, A.-M., **Ostafe, V.** (2010) “Aspecte Privind Ecotoxicologia și Biotransformarea unor Compuși Fenolici”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **13**, 1-82
12. Decuș.V., **Ostafe, V.** (2011) “Metode de Analiză a Chitinei și Chitosanului”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **14**, 1-77
13. Colarici A., **Ostafe, V.** (2012) “Aspecte privind Analiza HPLC a Pesticidelor din Vin”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **15**, 1-53
14. Kis, K., Mincea, M., **Ostafe, V.** (2013) “Aspecte privind Analiza UPLC a Ocratoxinei A din Cafea”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **16**, 1-64
15. Moraru, C., **Ostafe, V.** (2014) “Aspecte privind Clonarea Chitinazelor în Bacterii”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **17**, 1-31
16. Preda, E., **Ostafe, V.** (2014) “Aspecte privind Poluarea Mediului Înconjurător cu Derivați Fenolici”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **18**, 1-62
17. Vătafu, A., **Ostafe, V.** (2014) “Aspecte privind Toxicitatea Fumatului Pasiv”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **19**, 1-76
18. Crăciun, A., **Ostafe, V.** (2014) “Environmental and medical applications of chitin and chitosan”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **20**, 1-68
19. Ionașcu, C., **Ostafe, V.** (2014) “Environmental and medical applications of chitin and chitosan”, *Seria de Monografii de Biochimie Cuantică și Interacții Specifice* **21**, 1-19

SCIENTIFIC PAPERS PUBLISHED IN JOURNALS INDEXED IN ISI WEB OF KNOWLEDGE, CHEMICAL ABSTRACTS, CURRENT CONTENTS, BIOLOGICAL ABSTRACTS, EBSCO DATA BASES or other International Data Bases

A) Journals with ISI impact factors

1. Szedlacsek, S. E., **Ostafe, V.**, Mogos, S., and Hulea, S. (1986). A kinetic method for the simultaneous determination of isoenzymes activities in mixtures. Application to A₂ and A₃ horseradish peroxidases. *Biochemistry International* **12**, 279-289.
2. Szedlacsek, S. E. and **Ostafe, V.** (1987). Nonlinear regression analysis of progress curves using a modified form of the integrated Michaelis-Menten equation. *Revue Roumaine de Biochimie* **24**, 347-351
3. Szedlacsek, S. E., **Ostafe, V.**, Serban, M., and Vlad, O. M. (1988). A re-evaluation of the kinetic equations for hyperbolic tightbinding inhibition. *Biochemical Journal* **254**, 311-312.
4. **Ostafe, V.**, Petrescu, A. D., Szedlacsek, S. E., and Schell, H. D. (1988). A study on the interaction of concanavalin **A** with some affinity adsorbents. *Revue Roumaine de Biochimie* **25**, 47-52
5. Schell, H. D., **Ostafe, V.**, and Szedlacsek, S. E. (1989). Hydrophobic polyvinyl alcohol derivatives used in hydrophobic interaction chromatography. 1. *n*-Alkyl hydrophobic gels. *Revue Roumaine de Biochimie* **26**, 153-158.
6. Szedlacsek, S. E., **Ostafe, V.**, Duggleby, R. G., Serban, M., and Vlad, O. M. (1990). Progress-curve equations for reversible enzyme-catalysed reactions inhibited by tight-binding inhibitors. *Biochemical Journal* **265**, 647-653.
7. **Ostafe, V.**, Schell, H. D., Bentia, T., Andor, D., Chirvase, A., and Marica, E. (1992). Methanol oxidation by alcohol oxidase from *Hansenula polymorpha*. *Revue Roumaine de Biochimie* **29**, 215-221
8. **Ostafe, V.** and Serban, M. (1994). Apparatus for electroconcentration, electrodialysis and electroelution. *Revue Roumaine de Biochimie* **31**, 151-158
9. van Amerongen, A.; **Ostafe, V.**; Meijer, MMT; Gruppen, H; Meerdink, G; Berendsen, LBJM; Koets, M; Wichers, JH (1998) Specific-Immuno-(Chymo)Trypsin-Inhibitor-Assays for determination of (residual) activity of Bowman-Birk or Kunitz Soybean Trypsin Inhibitors, *Recent Advances of Research in Antinutritional Factors in Legume Seeds and Rapeseed*, **93**, pp. 33 - 37
10. Munteanu, D., Bolcu, C., and **Ostafe, V.** (2000). Polyurethane-Bound Stabilisers. *Polymer & Polymer Composites* **8**, 87-100.
11. Putz.M.V.; Lacrămă,A.M.; **Ostafe,V.**, (2006) "Full Analytic Progress Curves of Enzymatic Reactions in vitro", *International Journal of Molecular Sciences*, **7**, 469-484
12. Lacrămă A.-M., Putz M.V., **Ostafe V.** (2007), "A Spectral-SAR Model for the Anionic-Cationic Interaction in Ionic Liquids: Application to *Vibrio fischeri* Ecotoxicity", *International Journal of Molecular Sciences*, **8**, 842-863
13. Putz M.V., Lacrămă A.-M., **Ostafe V.** (2007), "Spectral-SAR Ecotoxicology of Ionic Liquids. The *Daphnia magna* Case", *Research Letter in Ecology*, Article ID12813/5 pages (doi: 10.1155/2007/12813)
14. Putz M.V., Lacrămă A.-M. Ostafe V. (2007), "Introducing logistic enzyme kinetics", *Journal of Optoelectronics and Advanced Materials*, **9** (9) 2910 – 2916.
15. Radovan C., Cinghita D, Manea F, Mincea M., Cofan C., **Ostafe V.** (2008), "Electrochemical Sensing and Assessment of Parabens in Hydro-Alcoholic Solutions and Water Using a Boron-doped Diamond Electrode". *Sensors* (**7**) 4330-4349
16. Mincea M.M., Lupşa I.R., Cinghiţă D.F., Radovan C.V., Talpoş I., **Ostafe, V.** (2009) "Determination of methylparaben from cosmetic products by ultra performance liquid chromatography", *J. Serb. Chem. Soc.* **74** (**X**) 1–8
17. Mincea M., Lupşa I., Talpoş I., **Ostafe, V.** (2009) "UPLC Analysis of Common Parabens in

- Cosmetic Products”, *Acta Chromatographica* **21(4)**, 591–602
18. Mincea M., Șerban S., Rusu, I., Talpoș I., **Ostafe, V.** (2010) “Development and Application of Ultra Performance Liquid Chromatography Method to the Quantification of the Biotransformation of Methyl Paraben in *Eisenia foetida*”, *Chin. J. Chem.* **28**, 1001-1004
 19. Isvoran, A.; **Ostafe, V.**; Ciorsac, A. (2010) A bioinformatics study of the human phosphofructokinase-1, *FEBS Jorunal*, **277**, 249
 20. Isvoran, A.; **Ostafe, V.**; Ciorsac, A. (2010) Nonlinear analysis of glycolytic enzymes sequences, *FEBS Jorunal*, **277**, 253
 21. Ciorsac, A., Isvoran, A., **Ostafe, V.** (2010) The Anthropometric and Fitness Characteristics of the Football Players Competing in the Romanian Juniors Championship, *Papers on Anthropology University of Tartu*, **19**, 59 - 68
 22. Vlascici, D.; Pruneanu, S.; Olenic, L.; Pogacean, F.; **Ostafe, V.**; Chiriac, V.; Pica, E.M.; Bolundut, L.C.; Nica, L.; Fagadar-Cosma, E. (2010) *Manganese(III) Porphyrin-based Potentiometric Sensors for Diclofenac Assay in Pharmaceutical Preparations*, *Sensors*, **10 (10)**, 8850 - 8864
 23. Ciorsac, A.; Craciun, D., **Ostafe, V.**; Isvoran, A. (2011) Nonlinear Correlations in the Hydrophobicity and Average Flexibility Along the Glycolytic Enzymes Sequences, *Chaos Solitons & Fractals*, **44 (4-5)**, 191 - 197
 24. Beswick, V.; Nedellec, P.; Sanson, A.; Ciorsac, A.; **Ostafe, V.**; Isvoran, A.; Jamin, N. (2011) Comparative molecular dynamics simulations of the caveolin CRAC motif in micelle and bilayer, *European Biophysics Journal With Biophysics Letters*, **40**, 78
 25. Putz, M.V.; Ionascu, C.; Putz, A.-M.; **Ostafe, V.** (2011) Alert-QSAR. Implications for Electrophilic Theory of Chemical Carcinogenesis, *International Journal of Molecular Sciences*, **12 (8)**, 5098 - 5134
 26. Ciorsac, A.; Craciun, D.; Ostafe, V.; Isvoran, A. (2011) A bioinformatics characterization of the human glycogen phosphorylase surface binding regions, *Romanian Biotechnological Letters*, **16 (5)**, 6473 - 6480
 27. Negrulescu A., Patrulea V., Mincea M.M., Ionascu C., Vlad-Oros B.A., **Ostafe V.**, (2012) Adapting the reducing sugars method with dinitrosalicylic acid to microtiter plates and microwave heating, *Journal of the Brazilian Chemical Society*, **23**, 2176-2182
 28. Mincea M., Negrulescu A., Ostafe V., (2012) Preparation, modification, and applications of chitin nanowhiskers: A review, *Reviews on Advanced Materials Science*, **30**, 225-242
 29. Craciun, D., Pitulice, L., Ciorsac, A., **Ostafe, V.**, Isvoran, A., (2012) Proteins surface roughness analysis. Comparison of crystallographic and NMR structures, *Romanian Reports in Physics*, **64**, 116-126
 30. Ciorsac, A.-A., **Ostafe, V.**, Isvoran, A., (2012) A computational study of the surface properties of the human and bacterial chitotriosidase, *Studia Universitatis Babes-Bolyai Chemia* **57**, 213-222
 31. Craciun, D., Vlad-Oros, B., Filimon, N., **Ostafe, V.**, Isvoran, A., (2013) A computational approach to structural properties of glycoside hydrolase family 4 from bacteria, *Acta Biochimica Polonica* **60**, 553-64
 32. Patrulea, V., Negrulescu, A., Mincea, M. M. , Pitulice, L. D., Spiridon, O. B., **Ostafe, V.**, (2013) Optimization of the removal of copper(II) ions from aqueous solution on chitosan and cross-linked chitosan beads, *BioResource*, **8**, 1147-1165
 33. Filimon, M. N., Nica, D. V., **Ostafe, V.**, Bordean, D. M., Borozan, A. B., Vlad, D. C., Popescu, R., (2013) Use of enzymatic tools for biomonitoring inorganic pollution in aquatic sediments: A case study (Bor, Serbia), *Chemistry Central Journal*, **7**, art. No. 59
 34. Vlad-Oros, B., Dascalu, D., Dudas, Z., Popovici, H., Preda, G., **Ostafe, V.**, (2013) Equilibrium and kinetics studies regarding the adsorption of Copper(II) ions by Various Types of Chitosan Beads, *Digest Journal of Nanomaterials and Biostructures*, **8**, 917-927
 35. Preda, M. Maria Mincea, C. Ionașcu, A.V. Botez, **V. Ostafe**, (2013) An ultrahigh performance liquid chromatography - Mass spectrometry method for the analyses of phenol derivatives from waters, *Studia Universitatis Babes-Bolyai Chemia*, **58(3)**, 167-175
 36. Mincea M., Patrulea V., Negrulescu A., Szabo R., **Ostafe V.**, (2013) Adsorption of Three Commercial Dyes onto Chitosan Beads Using Spectrophotometric Determination and a Multivariate Calibration Method, *Journal of Water Resource and Protection*, **05**, 446-457
 37. Bratan, A. Mincea, M. Lupsa, I.R., Pirtea, M.G., **Ostafe, V.**, (2014) Assessment of nicotine for

List of Publications – Prof. Dr. Vasile OSTAFE

- second hand smoke exposure in some public places in Romania by UPLC-MS, *Chem Cent J*, **8**, art. No. 29
38. Negrulescu, A., Patrulea, V., Mincea, M., Moraru, C., **Ostafe, V.**, (2014) The Adsorption of Tartrazine, Congo Red and Methyl Orange on Chitosan Beads, *Digest Journal of Nanomaterials and Biostructures*, **9**, 45 – 52
 39. Filimon, M. N., Voia, S. O., Popescu, R., Bordean, D.-M., Vladoiu, D. L., Mituletu, M., **Ostafe, V.**, (2014) The effect of chlorsulfurone and MCPB-Na on the enzymatic activity of microorganisms, *Journal of the Serbian Chemical Society*, **79**, 1-14
 40. Bratan, A. Mincea, M. Lupsa, I.R., Pirtea, M.G., **Ostafe, V.**, (2014) Quantification of nicotine and cotinine in teenager's urine, *Studia Universitatis Babes-Bolyai Chemia*, **59**, 47-61
 41. Ionascu, C., **Ostafe, V.**, (2014) A comparative study of three methods of extraction of mycotoxins from beer, *Studia Universitatis Babes-Bolyai Chemia*, **59 (4)**, 17 - 32
 42. Filimon, M. N.; Isvoran, A.; Vladoiu, D.; Popescu, R.; Verdes, D.; Vlad, D.; Voia, S.; **Ostafe, V.** (2014) Assessment of difenoconazole effect on soil microorganisms based on enzymatic analyzes under different temperature conditions, *Journal of Biotechnology*, **185 (S)**, S65-S65
 43. Preda, E., Mincea, M. Ionaşcu, C., Botez, A.V., **Ostafe, V.**, (2014) Contamination Of Groundwater With Phenol Derivatives Around A Decommissioned Chemical Factory, *Environmental Engineering and Management Journal*, **13**
 44. Patrulea, V., Applegate, L.A., **Ostafe, V.**, Jordan, O., Borchard, G. (2015) Optimized synthesis of O-carboxymethyl-N,N,N-trimethyl chitosan, *Carbohydrate Polymers*, **122**, 46 - 52
 45. Vlădoiu, D.L., Filimon, M. N., **Ostafe, V.**, Isvoran, A., (2015) Assessment of pesticides interactions with *Bacillus pasteurii* urease. a computational study, *Romanian Journal Of Physics*, **60**, 583–592
 46. Vladoiu, D. L.; Filimon, M. N.; **Ostafe, V.**; Isvoran, A. (2015) Effects of Herbicides and Fungicides on the Soil Chitinolytic Activity. A Molecular Docking Approach, *Ecological Chemistry And Engineering S-Chemia I Inzynieria Ekologiczna* **S, 22 (3)**, 439-450
 47. Filimon, M. N.; Voia, S. O.; Vladoiu, D. L.; Isvoran, A.; **Ostafe, V.** (2015) Temperature dependent effect of difenoconazole on enzymatic activity from soil, *Journal of the Serbian Chemical Society*, **80 (9)**, 1127-1137
 48. Vladoiu, D.L., Ostafe, V., Isvoran, A., (2015) Computational analysis of the structural properties of alpha - and beta – galactosidases, *Studia Universitatis Babes-Bolyai Chemia* **60**, 239-251
 49. Vladoiu, D. L.; **Ostafe, V.**; Isvoran, A. (2015) Molecular docking assessment of pesticides binding to bacterial chitinases, *European Biophysics Journal with Biophysics Letters*, **44 (1)**, S65-S65, P-88
 50. Vladoiu, D. L.; Filimon, M. N.; **Ostafe, V.**; Isvoran, A. (2015) Effects of herbicides and fungicides on the soil chitinolytic activity. A molecular docking approach, *FEBS Journal*, **252 (1) (SI)**, 132-132, P14-015
 51. Menghiu, G.; **Ostafe, V.**; Ostafe, R. (2015), Development of highthroughput screening systems based on FACS or microfluidic devices for the directed evolution of chitinases, *FEBS Journal*, **282 (1) (SI)**, 98-98, P04-033
 52. Patrulea, V.; **Ostafe, V.**; Borchard, G; Jordan, O., (2015) Chitosan as a starting material for wound healing applications, *European Journal of Pharmaceutics and Biopharmaceutics*, **97 (B) (SI)**, 417-426
 53. "Negrulescu, A.; Patrulea, V.; Mincea, M.; Moraru, C.; **Ostafe, V.** (2015), Development of an UPLC Method for Simultaneous Determination of Tartrazine, Congo Red and Methyl Orange, *Studia Universitatis Babes-Bolyai Chemia*, **60 (4)**, 247-256
 54. Mincea, M.; Ionascu, C.; Kis, K.; Ostafe, V. (2015) Detection of Ochratoxin A in Instant Coffee by UPLC-MS/MS, *Studia Universitatis Babes-Bolyai Chemia*, **61 (2)**, 167-175
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| 55. | Patrulea, V., Hirt-Burri, N., Jeannerat, A., Applegate, L. A., Ostafe, V. , Jordan, O., Borchard, G., (2016) Peptide-decorated chitosan derivatives enhance fibroblast adhesion and proliferation in wound healing, <i>Carbohydrate Polymers</i> , 142 , 114-123 |
| 56. | Vladoiu D.L.; Ostafe V ; Isvoran A., Computational Analysis of the Effects of Mutations on Catalytic Cavity of Chitinases A. <i>Romanian Biotechnological Letters</i> , 22 . No. 1/2017 |

B) Journals Published by Romanian Academy

Studii și Cercetări de Biochimie

1. **Ostafe, V.**, Szedlacsek, S. E., and Mateescu, M. A. (1984). Unele aspecte privind obtinerea si comportarea amidonului reticulat ca substrat al amilazei. *Studii și Cercetări de Biochimie* **27**, 149-157.
2. Schell, H. D., **Ostafe, V.**, and Szedlacsek, S. E. (1986). Cromatografia hidrofoba. *Studii și Cercetări de Biochimie* **29**, 82-93.
3. Schell, H. D., **Ostafe, V.**, and Szedlacsek, S. E. (1986). Purificarea trispinei pancreatice bovine prin cromatografie de afinitate pe un suport afin realizat prin cuplarea aprotiniei de alcool polivinilic reticulat. *Studii și Cercetări de Biochimie* **29**, 163-166.
4. **Ostafe, V.** and Szedlacsek, S. E. (1989). Simularea pe calculator a cineticii Michaelis-Menten. *Studii și Cercetări de Biochimie* **32**, 155-162.
5. Schell, H. D., Szedlacsek, S. E., and **Ostafe, V.** (1990). Purificarea aprotiniei din extracte de plămîni de bovine prin cromatografie de afinitate. *Studii și Cercetări de Biochimie* **33**, 63-68.
6. **Ostafe, V.** and Serban, M. (1994). Imobilizarea substantelor biologic active prin metoda de activare cu BrCN. *Studii și Cercetări de Biochimie* **37**, 67-85.
7. Serban, M. and **Ostafe, V.** (1994). Metode fizice de imobilizare a substantelor biologic active. *Studii și Cercetări de Biochimie* **37**, 99-129.

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1. Szedlacsek, S. E., **Ostafe, V.**, Nicu, M. D., and Ostafe, D. (1987). Analiza pe calculator a unei forme modificate a ecuatiei Michaelis-Menten integrate, prin regresie nelineara. *Studii și Cercetări de Biotehnologie* **19**, 71-76.
2. **Ostafe, V.**, Szedlacsek, S. E., Ostafe, D., and Schell, H. D. (1987). Determinarea parametrilor cinetici ai enzimelor prin prelucrarea pe calculator a curbelor cinetice. *Studii și Cercetări de Biotehnologie* **19**, 77-81.

C) Annals of West University of Timisoara – Series of Chemistry (indexed on CNCSIS data base, category B+, cod. 114, indexed in EBSCO Academic Search Complete Data Base and SCOPUS), continued since 2014 with the name New Frontier in Chemistry

1. **Ostafe V.**, Chiriac V.A., Jastorff B., (1992), "Studies on Separation of Aromatic Compounds on Reverse Phase High Performance Liquid Chromatography", *Annals of West University of Timișoara, Series of Chemistry*, **1**, 115-125
2. **Ostafe V.**, Chiriac A., Serban M., (1993), "Some Properties of Free and Immobilized α -Amylase", *Annals of West University of Timișoara, Series of Chemistry*, **2**, 123-135
3. **Ostafe V.**, Chiriac V.A., Jastorff B., (1993), "Reverse Phase High Performance Liquid Chromatography of some Aromatic Compounds", *Annals of West University of Timișoara, Series of Chemistry*, **2**, 115-122
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5. **Ostafe V.**, Serban M., Chiriac A., (1994), "Affinity Elution in Ion Exchange Chromatography of Alcohol Oxidase", *Annals of West University of Timișoara, Series of Chemistry*, **3**, 73-78
6. **Ostafe V.**, Chiriac A., Serban M., (1994), "Immobilization of Alcohol Oxidase on DEAE-Cellulose", *Annals of West University of Timișoara, Series of Chemistry*, **3**, 65-72
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