

CURRICULUM VITAE

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EDUCATION

Hacettepe University, Faculty of Science, Chemistry Dept. Ankara/Turkey

Ph.D. in Biochemistry, March 2005

Dissertation: Molecularly Imprinted Polymer for Separation of Proteins

(Mentor: Prof. Dr. Adil Denizli)

Hacettepe University, Faculty of Science, Chemistry Dept. Ankara/Turkey

M.Sc. in Biochemistry, June 2000

Dissertation: DNA Carrying Magnetic Bioaffinity Sorbents for Systemic Lupus Erythematosus Disease.

(Mentor: Prof. Dr. Adil Denizli)

EMPLOYMENT HISTORY

1994-1997 Research Assistance at Kafkas University, Kars/Turkey

1997-2005 Research Assistance at Hacettepe University, Ankara/Turkey

2005-2007 Dr. Research Assistance at Kafkas University, Kars/Turkey

2007-2012 Assist. Prof. at Aksaray University, Aksaray/Turkey

2012-2018 Assoc. Prof. at Aksaray University, Aksaray/Turkey

2018- Prof. at Aksaray University, Aksaray/Turkey

RESEARCH AREA

- 1. Polymer Technology:** Production of polymers and polymeric biomaterials with various shapes (beads, membranes, cryogels) having different bulk and surface properties, modification of them by various methods for medical and biological applications.
- 2. Biochemistry:** Enzyme technology. Purification of enzymes from different sources and investigation of their characteristics regarding immobilization.
- 3. Chromatographic Techniques:** Preparation of polymeric biospecific sorbents, and their use for the purification of biomolecules (i.e., proteins, enzymes, nucleic acids etc.) with some chromatographic techniques (i.e., Bioaffinity Chromatography, Dye Affinity Chromatography, Immobilized Metal Affinity Chromatography, Molecular Imprinting, etc.). Removal of toxic substances such as microcystins and metal ions from water.
- 4. Biosensor surface chemistry and surface design:** Modification of QCM chip surfaces for different molecules by molecular imprinting technique to detect the level of them in the sample.

COURSES AND SCHOOLS ORGANIZED

- 1.** V. National Affinity Techniques Congress, Organizing Committee, May 20-24, 2009, Balıkesir University, Faculty of Arts and Sciences, Department of Chemistry, Ayvalık, Balıkesir, Turkey.

2. Affinity Chromatography Graduate Summer School, Chairman of the Organizing Committee, June 23-25, 2010, Aksaray University, Faculty of Arts and Sciences, Department of Chemistry, Aksaray, Turkey.
3. VI. National Affinity Techniques Congress, Chairman of the Organizing Committee, May 23-25, 2010, Aksaray University, Faculty of Arts and Sciences, Department of Chemistry, Aksaray, Turkey.
4. Current Topics in Applied Biochemistry-I, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, August 20-22, 2014, Ağaçlı Hotel, Aksaray, Turkey.
5. Current Topics in Applied Biochemistry-II, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, August 20-23, 2015, Ağaçlı Hotel, Aksaray, Turkey.
6. Current Topics in Applied Biochemistry-III, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, July 12-14, 2017, Ağaçlı Hotel, Aksaray, Turkey.
7. Current Topics in Applied Biochemistry-IV, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, June 27-29, 2018, Trakya University, Edirne, Turkey.
8. Current Topics in Applied Biochemistry-V, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, June 24-27, 2019, Erciyes University, Kayseri, Turkey.
9. Current Topics in Applied Biochemistry-VI, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, June 27-29, 2022, İnönü University, Malatya, Turkey.

COURSES AND SCHOOLS PARTICIPATED

1. Biosensors, Biochemistry Undergraduate Summer School, 20-26 June 1999, Kusadasi, Aydın, Turkey.
2. Basic and Modern Techniques in Biochemistry, Biochemistry Undergraduate Summer School, 27 August-3 September, Kuşadası, Aydın, Turkey.
3. Chromatographic Techniques and Their Industrial Applications, Turkish Scientific and Technical Research Council–Bursa Test and Analysis Laboratory, November 2001, Bursa, Turkey.
4. Protein Chromatography and New Generation Polymeric systems, Biochemistry Undergraduate Summer School, 5-7 July 2007, **As Lecturer**, Atatürk University, Chemistry Dept., Erzurum.
5. The Regulation of Metabolism and Metabolism Disorders, Biochemistry Undergraduate Summer School, 29 June –06 July 2008, Trabzon
6. Affinity Chromatography” Biochemistry Undergraduate Summer School, 23-25 May 2010, **As Lecturer**, Aksaray University, Chemistry Dept., Aksaray, Turkey.
7. The Last Developments in Design and Applications of Biosensors” Biochemistry Undergraduate Summer School, 01-08 Sept. 2013, Gümüşlük, Bodrum, Turkey.

PROJECTS

1. Cholesterol Removal from Human Plasma by Anti-LDL antibody attached PHEMA microspheres. Hacettepe University, Grant No: 01 G 008, 2002, Completed.

2. Production of Magnetic PHEMA Microspheres, DNA immobilization and removal of Anti-DNA antibodies from SLE patient plasma by column system. Hacettepe University, Grant No: 02 K 120 290-13, 2003, Completed.
3. Preparation of bioaffinity sorbents for protein purification. Hacettepe University, Project No: 01 02 601 012, Completed.
4. The Design and preparation of molecularly imprinted polymer for protein purification. TUBITAK, TBAG-2372, 2004, Completed.
5. The Design and preparation of cholesterol imprinted polymeric membrane, TUBITAK, Grant No: MAG- 105M278, 2005.
6. Preparation and Applications of Molecularly Imprinted Quartz Crystal Microbalance (QCM) Chips for Melamine Detection, TUBITAK, Grant No: TBAG-112T561, 2012.
7. Separation of Coumarins by Subcritical Water Chromatography, TÜBİTAK, Grant No: TBAG-112T336, 2012, Completed.
8. Synthesis and Application of Water-Soluble O-Carboxymethyl Chitosan-Imine Palladium (II), Molybdenum (0), Copper (II) Complexes, TUBITAK, Grant No: KIBAG-113Z296, Completed.
9. Preparation of Composite Membrane Embedded with Cu²⁺-Attached O-Carboxymethyl Chitosan Complexes and Investigation for Protein Adsorption Performance, Aksaray University, Grant No: 2015-080, Completed.
10. Synthesize of Molecular Imprinted Magnetic Nonoparticles for Determination of Melamine, Aksaray University, Grant No: 2015-079, Completed.
11. Removal of Toxic Azo Dyes from Textile Wastewater by Micro-Reactor Gel, Aksaray University, Grant No: 2015-093, Completed.
12. "Nanoflowers" - synthesis, characterization and the interaction with biomolecules to evaluate their possible applications in biology and medicine, joint research project (2557 between The Scientific and Technological Research Council of Turkey (TUBITAK) and Belarus Republican Foundation for Fundamental Research (BRFFR), Grant No: 118Z037, 2018, Completed.
13. Development of Quartz Crystal Microbalance (QCM) Based Biosensor for Determination of Lactons by Molecular Imprinting Methods, Grant No: 2018-060, Completed.
14. Development of a Quartz Crystal Microbalance Biosensor System for the Determination of *N*-Hexanoyl Homoserine Lactone, TUBITAK, Grant No: 119Z184, 2019, Completed.
15. Peptide biopolymeric nanomaterials: synthesis, functionalization, characterization and evaluation of their use as delivery systems in cancer cells, joint research project (2557) between The Scientific and Technological Research Council of Turkey (TUBITAK) and Belarus Republican Foundation for Fundamental Research (BRFFR), Grant No: 220N178, 2021, Completed.
16. Development of Molecular Imprinted Cryogel Membranes for Purification of Naringenin, TUBITAK, Grant No: 121Z173, 2021, Completed.
17. Synthesis of Protein-Based Polymeric Membranes and Their Use as Wound Dressing Materials in Possible Athlete Injuries, Grant No: 2024-İHT-001.

LIST OF SCIENTIFIC PUBLICATIONS

A. BOOKS

1. Baydemir, G., **Odabaşı, M.**, A Novel Chromatographic Media: Histidine Containing Composite Cryogels for HIgG Separation from Human Serum, Affinity Chromatography, *Methods and Protocols, Series: Methods in Molecular Biology*, Chapter 18, Vol. 1286, ISBN 978-1-4939-2447-9, Reichelt, Senta (Ed.) 2015, Springer.
2. Denizli, A., Denkbaş, E.B., Yavuz, H., Akgöl, S., **Odabaşı, M.**, Garipcan, B., Özkara, S., **Biochemistry Laboratory**, Hacettepe University, Faculty of Science, Department of Chemistry, Beytepe, Ankara, 2000.
3. **Odabaşı, M.** et al., Ankara 2010. Eds.: Denizli, A.; Küfrevioğlu, Ö.İ., “New Generation Polymeric Systems and Protein Chromatography” ISBN 978-605-88783-0-3.
4. Önal Ulusoy, B., Aksoy, N.H., **Odabaşı, M.**, Molecular Imprinting Technology for Sensing and Separation in Food Safety, *Advanced Molecularly Imprinting Materials*, Chapter 9, p:353-388, ISBN:9781119336297 (hardback) A. Tiwari and L. Uzun (Eds.), 2016, Wiley-Scrivener Publishing LLC.
5. Acet, Ö. Erdönmez, D. **Odabaşı, M.**, Immobilized Metal-Ion Affinity Chromatography, Affinity Chromatography and Related Techniques, Chapter 6, p:93-108, ISBN:978-975-491-466-5, Z. El Rassi, A. Denizli (Eds) 2018, Hacettepe Book Series.
6. Gurbuz, F. Acet, Ö. **Odabaşı, M.**, Membrane Technologies and Their Applications, Affinity Chromatography and Related Techniques, Chapter 10, p:93-108, ISBN: 978-975-491-466-5, Z. El Rassi, A. Denizli (Eds) 2018, Hacettepe Book Series.
7. Gurbuz, F., and **Odabaşı, M.**, An insight into the potential contaminants, their effects, and removal means, *Nano-biosorbents for Detecontamination of Water, Air, and Soil Pollution*, Chapter 5, ISBN: 978-0-323-90912-9, Eds: Denizli, A., Ali, N., Bilal, M., Khan, A., Nguyen, T., 1st Edition, 2022, Elsevier.

B. RESEARCH ARTICLES

1. Kassab, A., Yavuz, H., **Odabaşı, M.**, Denizli, A., Human Serum Albumin Chromatography by Cibacron Blue F3GA-Derived Microporous Polyamide Hollow-fiber affinity membranes, *J. Chromatogr. B.* 746(2000)123-132.
2. Denkbaş, E., B., **Odabaşı, M.**, Chitosan Microspheres and Sponces: Preparation and Characterization, *Journal of Applied Polymer Science*, 76(2000)1637-1643.
3. **Odabaşı, M.**, Garipcan, B., Dede, S., and Denizli, A., Methacryloamido-histidine in Affinity Ligands for Immobilized Metal-ion Affinity Chromatography of Human Serum Albumin, *Biotechnology and Bioprocess Engineering*, 2001, 6:402-409.
4. **Odabaşı, M.**, Denizli, A. Polyhydroxyethylmethacrylate Based Magnetic DNA-Affinity Beads for Anti-DNA Antibody Removal from SLE Patient Plasma, *J. Chromatogr. B.*, 760(2001) 137-148.
5. Denkbaş, E., B., **Odabaşı, M.**, Kılıçay, E., Özdemir, E., Human Serum Albumin (HSA) Adsorption with Chitosan Microspheres, *Journal of Applied Polymer Science*, 86(2002) 3035-3039.
6. **Odabaşı, M.**, Garipcan, B. Denizli, A. Preparation of a novel metal-chelate affinity beads for Albumin isolation from human plasma, *Journal of Applied Polymer Science*, 90(2003) 2840-2847.

7. **Odabaşı, M.**, Denizli, A. Cibacron blue F3GA-attached magnetic poly(2-hydroxyethyl methacrylate) beads for human serum albumin adsorption, *Polymer International*, 53 (2004) 332-338.
8. **Odabaşı, M.**, Uzun, L. and Denizli, A., Porous magnetic chelator support for albumin adsorption by immobilized metal affinity separation, *Journal of Applied Polymer Science, Journal of Applied Polymer Science*, 93 (2004) 2501-2510.
9. Uzun, L., **Odabaşı, M.**, Arıca, Y. and Denizli, A., Poly(styrene-hydroxyethyl methacrylate) monodisperse microspheres as specific sorbent in dye affinity adsorption of albumin, *Separation Science and Technology*, 39 (2004) 10, 2401-2418.
10. **Odabaşı, M.**, Denizli, A. Cibacron blue F3GA incorporated magnetic poly(2-hydroxyethyl methacrylate) beads for Lysozyme Adsorption, *Journal of Applied Polymer Science*, 93 (2004) 719-725.
11. Yavuz, H., **Odabaşı, M.**, Akgöl, S. and Denizli, A., Immobilized metal affinity beads for ferritin adsorption, *Journal of Biomaterials Science, Polymer Edition*, 16 (2005) 673-684.
12. **Odabaşı, M.**, Özkayar, N., Özkara, S., Ünal, S. and Denizli, A. Pathogenic antibody removal using magnetically stabilized fluidized bed, *J. Chromatogr. B.*, 826 (2005) 50-57.
13. **Odabaşı, M.**, Say, R. and Denizli, A., Molecular imprinted particles for lysozyme purification, *Materials Science and Engineering: C.*, 27 (2007) 90-99.
14. Ergün, B., Derazshamshir, A. and **Odabaşı, M.**, Preparation of Fe(III)-Chelated Poly(HEMA-MAH) Cryogel for Lysozyme Adsorption, *Hacettepe Journal of Biology and Chemistry*, 32 (2007) 143-148.
15. Derazshamshir, A., Ergün, B., Peşist, G., **Odabaşı, M.**, Preparation of Zn²⁺- Chelated Poly(HEMA-MAH) Cryogel for Affinity Purification of Chicken Egg Lysozyme, *Journal of Applied Polymer Science*, 109 (2008) 2905-2913.
16. **Odabaşı M.**, Baydemir, G., Karataş M., Derazshamshir, A., Preparation and Characterization of Metal-Chelated poly(HEMA-MAH) monolithic Cryogels and Their Use for DNA Adsorption, *Journal of Applied Polymer Science*, 116 (2010) 1306-1312.
17. Erzengin, M., Ünlü, N., **Odabaşı, M.**, A Novel Adsorbent for Protein Chromatography: Supermacroporous Monolithic Cryogel Embedded with Cu²⁺-Attached Sporopollenin Particles, *J. Chromatogr. A.*, 1218 (2011) 484-490.
18. Ceylan, Ş., Kalburcu, T., Gedikli, M., **Odabaşı M.**, Application of Cu²⁺- attached Magnetite Nanoparticles Embedded Supermacroporous Monolithic Composite Cryogels for DNA Adsorption, *Hacettepe Journal of Biology and Chemistry*, 39 (2011) 163-172.
19. **Odabaşı, M.**, Magnetic Dye-Affinity Beads for Human Serum Albumin Purification, *Preparative Biochemistry and Biotechnology*, 41 (2011) 287-304.
20. Ünlü, N., Ceylan, Ş., Erzengin, M., **Odabaşı, M.**, Investigation of Protein Adsorption Performance of Ni²⁺-Attached Diatomite Particles Embedded to Composite Monolithic Cryogels, *Journal of Separation Science*, 34 (2011) 2173-2180.
21. Baydemir, G., **Odabaşı, M.**, Microsphere Embedded Cryogels for Selective and Efficient Depletion of Immunoglobulin G from Human Serum, *Artificial Cells, Nanomedicine, and Biotechnology*, 41(2013) 319-326.

22. Ceylan, Ş., **Odabaşı, M.**, Novel Adsorbent for DNA Adsorption: Fe³⁺-Attached Sporopollenin Embedded Composite Cryogels, *Artificial Cells, Nanomedicine and Biotechnology*, 41(2013) 376-383.
23. Ceylan, Ş., **Odabaşı, M.**, "Investigation of Lysozyme Adsorption Performance of Cu²⁺-Attached PHEMA Beads Embedded Cryogel Membranes" *Materials Science and Engineering: C*, 34 (2014) 1-8.
24. Gedikli, M., Ceylan, Ş., Erzen, M., **Odabaşı, M.**, A Novel Matrix for Hydrophobic Interaction Chromatography and Its Application in Lysozyme Adsorption, *Acta Biochimica Polonica*, 61, 731-737 (2014).
25. Akay, S., **Odabaşı, M.**, Yang, Y., Kayan, B., Synthesis and evaluation of NA-PHEMAH polymer for use as a new stationary phase in high-temperature liquid chromatography, *Separation and Purification Technology*, 152, 1-6 (2015).
26. Gurbuz, F., Cömert, Ş.C. **Odabaşı, M.**, Codd, G.A., Hepatotoxic Microcystin Removal Using Pumice Embedded Monolithic Composite Cryogel as an Alternative Water Treatment Method, *Water Research*, 90, 337-343 (2016).
27. Kaya, M., **Odabaşı, M.**, Muhtaba, M., Şen, M., Bulut, E., Akyuz, B., Novel three-dimensional cellulose produced from trunk of Astragalus gummifer (Fabaceae) tested for protein adsorption performance, *Materials Science and Engineering: C*, 62, 144-151 (2016).
28. Alkan, H., Ceylan, C., Ş., Gürbüz, F., Doğru, M., **Odabaşı, M.**, Cu²⁺-Attached Pumice Particles Embedded Composite Cryogels for Protein Purification, *Artificial Cells Nanomedicine and Biotechnology*, 45, 90-97 (2017).
29. Bulut, E., Sargin, İ., Arslan, Ö., **Odabaşı, M.**, Akyuz, B., Kaya, M., *In situ* chitin isolation from body parts of a centipede species for lysozyme adsorption, *Materials Science and Engineering: C*, 70, 552-563 (2017).
30. Baran Yılmaz, N., Acet, Ö., **Odabaşı, M.**, Efficient Adsorption of Hemoglobin from Aqueous Solutions by Hybrid Monolithic Cryogel Column, *Materials Science and Engineering: C*, 73, 15-20 (2017).
31. **Odabaşı, M.**, Uzun, L., Baydemir, G., Aksoy, N.H., Acet, Ö., Erdönmez, D., Cholesterol Imprinted Composite Membranes for Selective Cholesterol Recognition from Intestinal Mimicking Solution, *Colloids and Surfaces B: Biointerfaces*. 163, 266-274 (2018).
32. Acet, Ö., Baran, T., Erdönmez, D., Aksoy, N.H., Alacabey, A, Menteş, A., **Odabaşı, M.**, O-carboxymethyl Chitosan Schiff Base Complexes as Affinity Ligands for Immobilized Metal-ion Affinity Chromatography of Lysozyme, *J. Chromatogr. A*, 1550, 21-27 (2018).
33. Acet, Ö. Aksoy, N.H., Erdönmez, D. **Odabaşı, M.**, Determination of some adsorption and kinetic parameters of α -amylase onto Cu²⁺-PHEMA beads embedded column, *Artificial Cells, Nanomedicine and Biotechnology*, 46 (2018) 538-545.
34. Acet, Ö. Önal, B. Sanz, R., Sanz-Pérez, E.S. Erdönmez, D. **Odabaşı, M.**, Preparation of a new chromatographic media and assessment of some kinetic and interaction parameters for lysozyme, *Journal of Molecular Liquids*, 276 (2019) 480-487.
35. Gürbüz, F., Özcan, A, Çiftçi, H., Acet, Ö., **Odabaşı, M.**, Treatment of Textile Effluents through Bio-Composite Column: Decolorization and COD reduction, *International Journal of Environmental Science and Technology*, 16 (2019) 8653-8662.
36. Can, H.K., Gürbüz, F., **Odabaşı, M.**, Partial characterization of cyanobacterial extracellular polymeric substances for aquatic ecosystems, *Aquatic Ecology*, 53 (2019) 431-440.

37. Akpınar, Ş., Gürbüz, F., Özcan, S., Acet, Ö., **Odabaşı, M.**, Reducing arsenic and groundwater contaminants down to safe level for drinking purposes via Fe³⁺-attached hybrid column, *Environmental Monitoring and Assessment*, (2019) 191:722.
38. Shcharbin, D., Halets-Bui, I., Abashkin, V., Dzmitruk, V., Loznikova, S., **Odabaşı, M.**, Acet, Ö., Önal, B., Özdemir, N., Shcharbina, N., Bryszewska, M., Hybrid Metal-Organic Nanoflowers and Their Application in Biotechnology and Medicine, *Colloids and Surfaces B: Biointerfaces* 182 (2019) 110354-110362.
39. Önal, B., Acet, Ö., Sanz, R., Sanz-PÉREZ, E.S., Erdönmez, D., **Odabaşı, M.**, Co-Evaluation of interaction parameters of genomic and plasmid DNA for a new chromatographic media, *International Journal of Biological Macromolecules* 141 (2019) 1183-1190.
40. Abashkin, V. M., Halets-Bu, I.V., Dzmitruk, V.G., Bryszewska, M., Shcharbin, D.G., **Odabaşı, M.**, Acet, Ö., Önal, B., Özdemir, N., Hybride metall-organic nanoflowers and their applications in biotechnology, *Proceedings of the National Academy of Sciences of Belarus, Biological Series*, Vol 64; 3 (2019) 374-384. <https://doi.org/10.29235/1029-8940-2019-64-3-374-384>.
41. Samir Abbas Ali Noma, Ulu, A., Acet, Ö., Sanz, R., Sanz-PÉREZ, E.S., **Odabaşı, M.**, Ateş, B., Comparative study of ASNase immobilization on tannic acid-modified magnetic Fe₃O₄/SBA-15 nanoparticles to enhance stability and reusability, *New J. Chem.*, 44(2020) 4440-4451.
42. Serinbaş, A., Önal, B., Acet, Ö., Özdemir, N., Dzmitruk, V., Halets-Bui, I., Shcharbin, D., **Odabaşı, M.**, A new application of inorganic sorbent for biomolecules: IMAC practice of Fe³⁺-nano flowers for DNA separation, *Materials Science and Engineering: C*, 113 (2020) 111020-111026.
43. Acet, Ö., Menteş, A., **Odabaşı, M.**, Assessment of A New Dual Effective Combo Structures for Lysozyme from HEW, *Polymer Bulletin*, 77 (2020) 4679-4695.
44. Önal, B. **Odabaşı, M.**, Design and application of a newly generated bio/synthetic cryogel column for DNA capturing, *Polymer Bulletin*, 78 (2021) 6011-6028.
45. Alacabey, İ., Acet, Ö., Önal, Ö., Dikici, E., Karakoç, V., Gürbüz, F., Alkan, A., **Odabaşı, M.**, Pumice particle interface: a case study for immunoglobulin G purification, *Polymer Bulletin*, 78 (2021) 5593-5607
46. Samir Abbas Ali Noma, Acet, Ö., Ulu, A., Önal, B., **Odabaşı, M.**, Ateş, B., L-Asparaginase immobilized p(HEMA-GMA) cryogels: a case study for biochemical, thermodynamic and kinetic parameters, *Polymer Testing*, 93 (2021) 106980-106989
47. Acet, Ö., İnanan, T., Önal, Ö., Dikici, E., **Odabaşı, M.**, α-amylase immobilized composite cryogels: Some studies on kinetic and adsorption factors, *Applied Biochemistry and Biotechnology*, 193 (2021) 2483-2494.
48. Acet, Ö., Erdönmez, D., Önal Acet, B., **Odabaşı, M.**, N-Acyl Homoserine Lactones Mediated Quorum Sensing: Effects-Consequences and Monitoring of Bacteria Talking in Real Life, *Archives of Microbiology*, 203 (2021) 3739-3749.
49. Halets-Bui, I., Dzmitruk, V., Abashkin, V., Loznikova, V., Acet, Ö., Önal, B., Özdemir, N., **Odabaşı, M.**, Shcharbin, D., Differences between Cu- and Fe³⁺-Cu-Nanoflowers in their interactions with fluorescent probes 1,8-ANS and Fura-2 and proteins albumin and thrombin, *Polymer Bulletin*, 79 (2022) 5247.

50. Cömert, Ş.C., Özgür, Ö., Uzun, L., **Odabaşı, M.**, The creation of selective imprinted cavities on quartz crystal microbalance electrode for the detection of melamine in milk sample, *Food Chemistry*, 372 (2022) 131254.
51. Erzenin, M., Baydemir Peşint, G., **Odabaşı, M.**, Monolithic hydrophobic cryogel columns for protein separation, *Polymer Bulletin*, 79 (2022) 1485–1499.
52. Önal, B., Acet, Ö., Dzumitruk, V., Halets-Bui, I., Shcharbin, D., Özdemir, N., **Odabaşı, M.**, First protein affinity application of Cu²⁺-bound pure inorganic nanoflowers, *Polymer Bulletin*, 79 (2022) 3233–3251.
53. Can, H.K., Kavlak, S., Gürbüz, F., **Odabaşı, M.**, Insights into the Viscoelastic Peculiarities of Cyanobacterial Extracellular Polymeric Substance (EPS), *Journal of Polymers and the Environment*, 30 (2022) 3055.
54. Yıldırım, M., Acet, Ö., Yetkin, D., Acet, B.Ö. Karakoç, V., **Odabaşı, M.**, Anti-Cancer Activity of Naringenin Loaded Smart Polymeric Nanoparticles in Breast Cancer, *Journal of Drug Delivery Science and Technology*, 74 (2022) 103552.
55. Acet, Ö., **Odabaşı, M.**, Detection of N-hexanoyl-L-homoserine lactone via MIP-based QCM sensor: preparation and characterization, *Polymer Bulletin*, 80 (2023) 6657–6674.
56. Acet, Ö., Dikici, E., Önal Acet, B., **Odabaşı, M.**, Mijakovic, I., Pandit, S., Inhibition of bacterial adhesion by epigallocatechin gallate attached polymeric membranes, *Colloids and Surfaces B: Biointerfaces*, 221 (2023) 113024.
57. Acet, Ö., Shcharbin, D., Zhogla, V., Kirsanov, P., Halets-Bui, I., Önal Acet, B., Gök, T., Bryszewska, M., **Odabaşı, M.**, Dipeptide Nanostructures: Synthesis, Interactions, Advantages and Biomedical Applications, *Colloids and Surfaces B: Biointerfaces*, 222 (2023) 113031.
58. Acet, Ö., Abbas Ali Noma, S., Önal Acet, B., Dikici, E., Osman, B., **Odabaşı, M.**, A rational approach for 3D recognition and removal of L-asparagine via molecularly imprinted membranes, *Journal of Pharmaceutical and Biomedical Analysis*, 226 (2023) 115250.
59. Dikici, E., Önal Acet, B., Acet, Ö., **Odabaşı, M.**, “Lab-on-pol” colorimetric sensor platforms: Melamine detection with color change on melamine imprinted membranes, *Microchemical Journal*, 188 (2023) 108468.
60. Sert B., Acet Ö., Abbas Ali Noma, S., Osman B., **Odabaşı M.**, Ocakoğlu K., A new design to increase the enzyme activities: Investigation of L-asparaginase catalytic performance by IMAC effect on g-C3N4 nanolayers, *Catalysis Letters*, 154 (2024) 1547-1557.
61. Demirtaş, E., **Odabaşı, M.**, Preparation of Naringenin Imprinted Cryogel Membranes and Investigation of Adsorption Behaviors, *Black Sea Journal of Engineering and Science*, 6 (2023) 149-154.
62. Dikici, E., Önal Acet, B., Gök, T., Acet, Ö., **Odabaşı, M.**, Self-Assembled Short Peptide Nanostructures: Dipeptides, *MANAS Journal of Engineering*, 11 (2023) 83-91.
63. Acet, Ö., İnanan, T., Ondul Koc, E., Sert, B., Önal Acet, B., **Odabaşı, M.**, Ocakoglu, K., Immobilization of alpha-amylase onto Ni²⁺ attached carbon felt: Investigation of kinetic parameters from potato wastewater, *Starch*, 75 (2023) 2300033.

64. Önal Acet, B., İnanan, T., Salieva, K., Borkoev, B., **Odabaşı, M.**, Acet, Ö., Molecular imprinted polymers: Important advances in Biochemistry, Biomedical and Biotechnology, *Polymer Bulletin*, 81 (2024) 10439–10459.
65. Demirtaş E., **Odabaşı M.**, Preparation and application of naringenin imprinted cryogel membranes for selectively separation of naringenin from natural environment, *Polymer Bulletin*, 81 (2024) 11795–11811.
66. Önal Acet, B., Désirée Gül, Roland H. Stauber, **Odabaşı, M.**, Acet, Ö., A review for uncovering the “protein-nanoparticle alliance”: Implications of the protein corona for biomedical applications, *Nanomaterials*, 2024, 14, 823.
67. Bani, N., İnanan, T., Acet, A., **Odabaşı, M.**, IMAC application of extracellular polymeric substances doped composite membranes for α -amylase immobilization and kinetic studies, *Molecular Catalysis*, 562 (2024) 114198.
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69. Akpınar, Ş., Özcan, S., Gurbuz, F., **Odabaşı, M.**, Biopolymeric composite columns for improving water quality in a freshwater stream receiving wastewater treatment plant effluents, *Journal of Polymers and the Environment*, DOI: 10.1007/s10924-024-03335-0.
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