

CURRICULUM VITAE

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Area of Expertise:	Analytical Chemistry Bioanalytical Methods Characterization of Polymers Chemical Kinetics Composites Conductive Polymers Electrochemistry Electromagnetic Methods Enzyme Kinetics Functional Polymers New Technologies in Polymer Chemistry Polymers and Their Applications Sensors

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

- A1.** Rwei P., Shiu J., Şenel M., Hajiaghajani A., Qian C., Chen C., Tseng P., Khine M., "A Waterborne, Flexible, and Highly Conductive Silver Ink for Ultra-Rapid Fabrication of Epidermal Electronics", *Sensors*, vol. 25, no. 7, 2025.
- A2.** Marmarchinia S., Chen X., Şenel M., Gundogdu G., Mauney J., Khine M., "Stretchable Strain Sensors for Real-Time Bladder Volume Monitoring", *ACS Applied Materials and Interfaces*, vol. 17, no. 8, pp. 11678-11687, 2025.
- A3.** Chen X., Abiri A., Kadifa D., Latifi B., Khetiya Y., Hsu F. P. K., Şenel M., Luptak A., Khine M., Kuan E. C., "Accurate Detection of Cerebrospinal Fluid by DNA Aptamers Derived by Clinical Samples", *International Forum of Allergy and Rhinology*, 2025.
- A4.** Torabi S. J., Abiri A., Chen X., Şenel M., Hsu F. P. K., Luptak A., Khine M., Kuan E. C., "Multimodal diagnosis of cerebrospinal fluid rhinorrhea: State of the art review and emerging concepts", *Laryngoscope Investigative Otolaryngology*, vol. 9, no. 3, 2024.
- A5.** Canbolat F., Demir N., Yayintas O. T., Pehlivan M., Eldem A., Ayna T. K., Şenel M., "Chitosan Nanoparticles Loaded with Quercetin and Valproic Acid: A Novel Approach for Enhancing Antioxidant Activity against Oxidative Stress in the SH-SY5Y Human Neuroblastoma Cell Line", *Biomedicines*, vol. 12, no. 2, 2024.
- A6.** Bukun Y., Zaim M., Şenel M., Sagir T., Kiyak B. Y., Isik S., "Novel fluorescein isothiocyanate (FITC) cored PAMAM dendrimers as drug delivery agent", *International Journal of Polymeric Materials and Polymeric Biomaterials*, vol. 73, no. 10, pp. 917-925, 2024.
- A7.** Şenel M., "Electrochemistry Test Strip as Platform for In Situ Detection of Blood Levels of Antipsychotic Clozapine in Finger-Pricked Sample Volume", *Biosensors*, vol. 13, no. 3, 2023.
- A8.** Sagir T., Huysal M., Şenel M., Isik S., Burgucu N., Tabakoglu O., Zaim M., "Folic acid conjugated PAMAM-modified mesoporous silica-coated superparamagnetic iron oxide nanoparticles for potential cancer therapy", *Journal of Colloid and Interface Science*, vol. 625, pp. 711-721, 2022.
- A9.** Sarigul E., Zaim M., Şenel M., Sagir T., Isik S., "Polyamidoamine Dendron-Bearing Lipids as Drug-Delivery Excipients", *Molecules*, vol. 27, no. 22, 2022.
- A10.** Paker E. S., Şenel M., "Polyelectrolyte Multilayers Composed of Polyethyleneimine-Grafted Chitosan and Polyacrylic Acid for Controlled-Drug-Delivery Applications", *Journal of Functional Biomaterials*, vol. 13, no. 3, 2022.

- A11.** Alachkar A., Alhassen S., Şenel M., "Lab-In-A-Syringe: A Novel Electrochemical Biosensor for On-Site and Real-Time Monitoring of Dopamine in Freely Behaving Mice", *ACS Sensors*, vol. 7, no. 1, pp. 331-337, 2022.
- A12.** Alhassen S., Şenel M., Alachkar A., "Surface Plasmon Resonance Identifies High-Affinity Binding of", *ACS Chemical Neuroscience*, vol. 13, no. 1, pp. 158-165, 2022.
- A13.** Dervisevic M., Alba M., Yan L., Şenel M., Gengenbach T. R., Prieto-simon B., Voelcker N. H., "Transdermal Electrochemical Monitoring of Glucose via High-Density Silicon Microneedle Array Patch", *Advanced Functional Materials*, vol. 32, no. 3, 2022.
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- A15.** Şenel M., Dervisevic E., Alhassen S., Dervisevic M., Alachkar A., Cadarso V. J., Voelcker N. H., "Microfluidic Electrochemical Sensor for Cerebrospinal Fluid and Blood Dopamine Detection in a Mouse Model of Parkinson's Disease", *Analytical Chemistry*, vol. 92, no. 18, pp. 12347-12355, 2020.
- A16.** Abdel-ghany S., Raslan S., Tombuloglu H., Shamseddin A., Cevik E., Said O. A., Madyan E. F., Şenel M., Bozkurt A., Rehman S. vd., "Vorinostat-loaded titanium oxide nanoparticles (anatase) induce G2/M cell cycle arrest in breast cancer cells via PALB2 upregulation", *3 Biotech*, vol. 10, no. 9, 2020.
- A17.** Cevik E., Tombuloglu H., Anil I., Şenel M., Sabit H., Abdulazeez S., Borgio J. F., Barghouthi M., "Direct electricity production from Microalgae Choricystis sp. and investigation of the boron to enhance the electrogenic activity", *International Journal of Hydrogen Energy*, vol. 45, no. 19, pp. 11330-11340, 2020.
- A18.** Şenel M., Ebru Koç F., "Controlled release of methylene blue from layer-by-layer assembled chitosan/polyacrylic acid", *International Journal of Polymeric Materials and Polymeric Biomaterials*, vol. 69, no. 4, pp. 258-262, 2020.
- A19.** Şenel M., Dervisevic M., Esser L., Dervisevic E., Dyson J., Easton C. D., Cadarso V. J., Voelcker N. H., "Enhanced electrochemical sensing performance by in situ electrocopolymerization of pyrrole and thiophene-grafted chitosan", *International Journal of Biological Macromolecules*, vol. 143, pp. 582-593, 2020.
- A20.** Dervisevic M., Dervisevic E., Şenel M., "Recent progress in nanomaterial-based electrochemical and optical sensors for hypoxanthine and xanthine. A review", *Microchimica Acta*, vol. 186, no. 12, 2019.
- A21.** Şenel M., Dervisevic M., Kokkokoğlu F., "Electrochemical DNA biosensors for label-free breast cancer gene marker detection", *Analytical and Bioanalytical Chemistry*, vol. 411, no. 13, pp. 2925-2935, 2019.
- A22.** Şenel M., Dervisevic M., Voelcker N. H., "Gold microneedles fabricated by casting of gold ink used for urea sensing", *Materials Letters*, vol. 243, pp. 50-53, 2019.
- A23.** Cevik E., Carbas B. B., Şenel M., Yildiz H. B., "Construction of conducting polymer/cytochrome C/thylakoid membrane based photo-bioelectrochemical fuel cells generating high photocurrent via photosynthesis", *Biosensors and Bioelectronics*, vol. 113, pp. 25-31, 2018.
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- A25.** Dervisevic M., Dervisevic E., Şenel M., "Design of amperometric urea biosensor based on self-assembled monolayer of cystamine/PAMAM-grafted MWCNT/Urease", *Sensors and Actuators, B: Chemical*, vol. 254, pp. 93-101, 2018.
- A26.** Şenel M., "Light-dependent photocurrent generation: Novel electrochemical communication between biofilm and electrode by ferrocene cored Poly(amidoamine) dendrimers", *ELECTROCHIMICA ACTA*, vol. 291, pp. 41-48, 2018.
- A27.** Güner A., Çevik E., Şenel M., Alpsoy L., "An electrochemical immunosensor for sensitive detection of Escherichia coli O157:H7 by using chitosan, MWCNT, polypyrrole with gold nanoparticles hybrid sensing platform", *Food Chemistry*, vol. 229, pp. 358-365, 2017.
- A28.** Huysal M., Şenel M., "Dendrimer functional hydroxyapatite nanoparticles generated by functionalization with siloxane-cored PAMAM dendrons", *Journal of Colloid and Interface Science*, vol. 500, pp. 105-112, 2017.
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- A30.** Dervisevic M., Dervisevic E., Çevik E., Şenel M., "Novel electrochemical xanthine biosensor based on chitosan-polypyrrole-gold nanoparticles hybrid bio-nanocomposite platform", *Journal of Food and Drug Analysis*, vol. 25, no. 3, pp. 510-519, 2017.
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- A32.** Dervisevic M., Şenel M., Sagir T., Isik S., "Boronic Acid vs. Folic Acid: A Comparison of the bio-recognition performances by Impedimetric Cytosensors based on Ferrocene cored dendrimer", *Biosensors and Bioelectronics*, vol. 91, pp. 680-686, 2017.
- A33.** Dervisevic M., Dervisevic E., Şenel M., Cevik E., Abasiyanik F. M., "Novel Amperometric Xanthine Biosensors Based on REGO-NP (Pt, Pd, and Au) Bionanocomposite Film", *Food Analytical Methods*, vol. 10, no. 5, pp. 1252-1263, 2017.
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- A39.** Dervisevic M., Çevik E., Şenel M., Nergiz C., Abasiyanik M. F., "Amperometric cholesterol biosensor based on reconstituted cholesterol oxidase on boronic acid functional conducting polymers", *Journal of Electroanalytical Chemistry*, vol. 776, pp. 18-24, 2016.
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- A41.** Dervisevic M., Custiuc E., Çevik E., Şenel M., "Construction of novel xanthine biosensor by using polymeric mediator/MWCNT nanocomposite layer for fish freshness detection", *Food Chemistry*, vol. 181, pp. 277-283, 2015.
- A42.** Dervisevic M., Çevik E., Şenel M., "Development of glucose biosensor based on reconstitution of glucose oxidase onto polymeric redox mediator coated pencil graphite electrodes", *Enzyme and Microbial Technology*, vol. 68, pp. 69-76, 2015.
- A43.** Şenel M., "Simple method for preparing glucose biosensor based on in-situ polypyrrole cross-linked chitosan/glucose oxidase/gold bionanocomposite film", *Materials Science and Engineering C*, vol. 48, pp. 287-293, 2015.
- A44.** Demir M., Şenel M., Baykal A., "Reversible immobilization of BSA on Cu-chelated PAMAM dendrimer modified iron oxide nanoparticles", *Applied Surface Science*, vol. 314, pp. 697-703, 2014.
- A45.** Kavas H., Baykal A., Şenel M., Kaynak M., "Grafted/ungrafted iron oxide and alginate-polyvinylimidazole nanocomposites: Synthesis and electrical properties", *Materials Research Bulletin*, vol. 48, no. 10, pp. 3973-3980, 2013.
- A46.** Sağır T., Işık S., Şenel M., "Ferrocene incorporated PAMAM dendrons: Synthesis, characterization, and anti-cancer activity against AGS cell line", *Medicinal Chemistry Research*, vol. 22, no. 10, pp. 4867-4876, 2013.
- A47.** Sözeri H., Alveroğlu E., Kurtan U., Şenel M., Baykal A., "Magnetic hydrogel with high coercivity", *Materials Research Bulletin*, vol. 48, no. 8, pp. 2751-2757, 2013.
- A48.** Çevik E., Şenel M., Baykal A., Abasiyanik M. F., "Poly(glycidylmethacrylate-co-vinyl ferrocene)-grafted iron oxide nanoparticles as an electron transfer mediator for amperometric phenol detection", *Current Applied Physics*, vol. 13, no. 8, pp. 1611-1619, 2013.
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- A52.** Alveroğlu E., Sözeri H., Baykal A., Kurtan U., Şenel M., "Fluorescence and magnetic properties of hydrogels containing Fe₃O₄ nanoparticles", *Journal of Molecular Structure*, vol. 1037, pp. 361-366, 2013.
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- A55.** Uzun K., Çevik E., Şenel M., Baykal A., "Reversible immobilization of invertase on Cu-chelated: Polyvinylimidazole- grafted iron oxide nanoparticles", *Bioprocess and Biosystems Engineering*, vol. 36, no. 12, pp. 1807-1816, 2013.
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- A57.** Şenel M., Nergiz C., Dervisevic M., Çevik E., "Development of Amperometric glucose biosensor based on reconstitution of glucose oxidase on polymeric 3-Aminophenyl Boronic Acid Monolayer", *Electroanalysis*, vol. 25, no. 5, pp. 1194-1200, 2013.
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- A62.** Aydin Z., Akbas F., Şenel M., Koc S. N., "Evaluation of Jeffamine®-cored PAMAM dendrimers as an efficient in vitro gene delivery system", *Journal of Biomedical Materials Research - Part A*, vol. 100A, no. 10, pp. 2623-2628, 2012.
- A63.** Çevik E., Şenel M., Baykal A., Abasiyanik M. F., "A novel amperometric phenol biosensor based on immobilized HRP on poly(glycidylmethacrylate)-grafted iron oxide nanoparticles for the determination of phenol derivatives", *Sensors and Actuators, B: Chemical*, vol. 173, pp. 396-405, 2012.
- A64.** Karaoğlu E., Baykal A., Şenel M., Sözeri H., Toprak M., "Synthesis and characterization of Piperidine-4-carboxylic acid functionalized Fe₃O₄ nanoparticles as a magnetic catalyst for Knoevenagel reaction", *Materials Research Bulletin*, vol. 47, no. 9, pp. 2480-2486, 2012.
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- A73.** Şenel M., "Construction of reagentless glucose biosensor based on ferrocene conjugated polypyrrole", *Synthetic Metals*, vol. 161, pp. 1861-1868, 2011.
- A74.** Karaoğlu E., Baykal A., Deligöz H., Şenel M., Sözeri H., Toprak M., "Synthesis and characteristics of poly(3-pyrrol-1-ylpropanoic acid) (PPyAA)-Fe₃O₄ nanocomposite", *Journal of Alloys and Compounds*, vol. 509, no. 33, pp. 8460-8468, 2011.
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- A78.** Yalçiner F., Çevik E., Şenel M., Baykal A., "Development of an amperometric hydrogen peroxide biosensor based on the immobilization of horseradish peroxidase onto nickel ferrite nanoparticle-chitosan composite", *Nano-Micro Letters*, vol. 3, no. 2, pp. 91-98, 2011.
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- A82.** Uzun K., Çevik E., Şenel M., Sözeri H., Baykal A., Abasiyanik M., Toprak M., "Covalent immobilization of invertase on PAMAM-dendrimer modified superparamagnetic iron oxide nanoparticles", *Journal of Nanoparticle Research*, vol. 12, no. 8, pp. 3057-3067, 2010.
- A83.** Şenel M., Abasiyanik M. F., "Construction of a novel glucose biosensor based on covalent immobilization of glucose oxidase on Poly(glycidyl methacrylate-co-vinylferrocene)", *Electroanalysis*, vol. 22, no. 15, pp. 1765-1771, 2010.
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- A85.** Şenel M., Tülü M., Bozkurt A., "A novel intrinsically proton conducting star-shaped imidazole terminated oligomers", *Ionics*, vol. 15, no. 4, pp. 421-426, 2009.
- A86.** Tülü M., Şenel M., "Dendritic polychelators: Synthesis, characterization, and metal ion binding properties", *Journal of Applied Polymer Science*, vol. 109, no. 5, pp. 2808-2814, 2008.
- A87.** Aghatabay N. M., Somer M., Şenel M., Dulger B., Guçin F., "Raman, FT-IR, NMR spectroscopic data and antimicrobial activity of bis[μ₂-(benzimidazol-2-yl)-2-ethanethiolato-N,S,S'-chloro-palladium(II)] dimer, [(μ₂-

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D. Articles published in national peer-reviewed journals:

D1. Darwish H., Jafarian A., Baleanu D., Şenel M., Okur S., "Applications of artificial neural network technique to polypyrrole gas sensor data for environmental analysis", *Journal of Computational and Theoretical Nanoscience*, 2015.

D2. Dervisevic M., Çevik E., Şenel M., "Poly(GMA-co-VFc)/Fe₃O₄/cholesterol oxidase bionanocomposite based electrodes for amperometric cholesterol biosensor", *Sensor Letters*, 2014.

D3. Şenel M., Kavas H., Tutgun M., Baykal A., "Preparation and conductivities of polyacrylic acid/polyvinylimidazole grafted and ungrafted iron oxide nanocomposite polymer electrolytes", *Central European Journal of Chemistry*, 2013.

D4. Çevik E., Şenel M., Fatih Abasiyanik M., "Immobilization of urease on copper chelated EC-Tribeads and reversible adsorption", *African Journal of Biotechnology*, vol. 10, no. 34, 2011.

D5. Şenel M., Çevik E., Fatih Abasiyanik M., "A novel amperometric hydrogen peroxide biosensor based on catalase immobilization on poly(glycidyl methacrylate-co-vinylferrocene)", *Analytical and Bioanalytical Electrochemistry*, vol. 3, no. 1, 2011.

D6. Şenel M., Tülü M., Bozkurt A., "Synthesis and proton conductivity of anhydrous dendritic electrolytes", *Central European Journal of Chemistry*, vol. 5, no. 2, pp. 546-556, 2007.

D7. Baykal A., Köseoğlu Y., Şenel M., "Low temperature synthesis and characterization of Mn₃O₄ nanoparticles", *Central European Journal of Chemistry*, vol. 5, no. 1, pp. 169-176, 2007.