

NURAY ATEŞ

CURRICULUM VITAE

PERSONAL INFORMATION

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Address: Erciyes University Faculty of Engineering Department of Environmental Engineering 38039, Kayseri, TURKEY

EDUCATION

Post-Doctorate: Clemson University, College of Engineering, Department of Environmental Engineering and Earth Sciences, USA, 2011 – 2012.

Ph.D.: Middle East Technical University, Graduate School of Natural and Applied Sciences, Turkey 2002 – 2008.

M.S.: Selçuk University, Graduate School of Natural and Applied Sciences, Turkey 1996 – 1999.

B.S.: Selçuk University, Faculty of Engineering, Department of Environmental Engineering, Turkey, 1992 – 1996.

THESIS

Ph.D.: Disinfection By-Products Formation in Low - Bromide and Low - SUVA Waters

M.S.: Trihalomethane Formation Potential in Konya Drinking Water Treatment.

RESEARCH INTERESTS

Water and wastewater treatment, disinfection by-products, control of organic substances, removal of heavy metals, monitoring and control of micropollutants, physicochemical treatment processes.

EMPLOYMENT HISTORY

Professor Dept. of Environmental Engineering, Erciyes University, 2021-Cont.
Kayseri, Turkey

Associate Dept. of Environmental Engineering, Erciyes University, 2014-2021

Professor Kayseri, Turkey

Assistant Professor	Dept. of Environmental Engineering, Erciyes University, Kayseri, Turkey	2009-2014
Research Assistant	Middle East Technical University, Dept. of Environmental Engineering, Erciyes University, Ankara, Turkey	2000-2008
Research Assistant	Dept. of Environmental Engineering, Erciyes University, Kayseri, Turkey	2000-2000
Research Assistant	Dept. of Environmental Engineering, Selçuk University, Kayseri, Turkey	1997-1999

PUBLICATIONS

Journal Articles

- Ates, N.**, Kaplan-Bekaroglu, S.S., Dadaser-Celik, F. (2020). Spatial/temporal distribution and multi-pathway cancer risk assessment of trihalomethanes in low TOC and high bromide groundwater. Environmental Science: Processes & Impacts, 22(11), 2276-2290.
- Bodur, S., Borahan, T., **Ates, N.**, Bakirdere, S. (2020). Sensitive Determination of Acetochlor, Alachlor, Metolachlor and Fenthion Utilizing Mechanical Shaking Assisted Dispersive Liquid–Liquid Microextraction Prior to Gas Chromatography–Mass Spectrometry. Bulletin of Environmental Contamination and Toxicology, 105(3), 460-467.
- Saki, S., Uzal, N., Gökçek, M., **Ates, N.** (2019). Predicting potential of pressure retarded osmosis power for different estuaries in Turkey. Environmental Progress & Sustainable Energy, 38(4), 13085.
- Ates, N.**, Basak, A. (2019). Selective removal of aluminum, nickel and chromium ions by polymeric resins and natural zeolite from anodic plating wastewater. International Journal of Environmental Health Research, 1-18.
- Ates, N.**, Uzal, N. (2018). Removal of heavy metals from aluminum anodic oxidation wastewaters by membrane filtration. Environmental Science and Pollution Research, 25(22), 22259-22272.
- Uzal, N., **Ates, N.**, Saki, S., Bulbul, Y.E., Chen, Y. (2017). Enhanced hydrophilicity and mechanical robustness of polysulfone nanofiber membranes by addition of polyethyleneimine and Al₂O₃ nanoparticles. Separation and Purification Technology, 187, 118-126.
- Kim, D., **Ates, N.**, Bekaroglu, S.S.K., Selbes, M., Karanfil, T. (2017). Impact of combining chlorine dioxide and chlorine on DBP formation in simulated indoor swimming pools. Journal of Environmental Sciences, 58, 155-162.

- Saki, S., Uzal, N., **Ates, N.** (2017). The size and concentration effects of Al₂O₃ nanoparticles on PSF membranes with enhanced structural stability and filtration performance. Desalination and Water Treatment, 84, 215-224.
- Ozmen, M., Aydogan, E.K., **Ates, N.**, Uzal, N. (2016). Developing a decision-support system for waste management in aluminum production. Environmental Modeling & Assessment, 21(6), 803-817.
- Ates, N.**, Incetan, F.B. (2013). Competition impact of sulfate on NOM removal by anion-exchange resins in high-sulfate and low-SUVA waters. Industrial & Engineering Chemistry Research, 52(39), 14261-14269.
- Selbes, M., Kim, D., **Ates, N.**, Karanfil, T. (2013). The roles of tertiary amine structure, background organic matter and chloramine species on NDMA formation. Water Research, 47(2), 945-953.
- Ates, N.**, Yilmaz, L., Kitis, M., Yetis, U. (2009). Removal of disinfection by-product precursors by UF and NF membranes in low-SUVA waters. Journal of Membrane Science, 328(1-2), 104-112.
- Hong, Y., Liu, S., Song, H., Hu, J., **Ates, N.**, Karanfil, T. (2008). Effects of quenching methods on HAA determination in chloraminated waters. Journal-American Water Works Association, 100(2), 89-99.
- Ates, N.**, Yetis, U., Kitis, M. (2007). Effects of bromide ion and natural organic matter fractions on the formation and speciation of chlorination by-products. Journal of Environmental Engineering, 133(10), 947-954.
- Ates, N.**, Kitis, M., Yetis, U. (2007). Formation of chlorination by-products in waters with low SUVA—correlations with SUVA and differential UV spectroscopy. Water Research, 41(18), 4139-4148.
- Ates, N.**, Kaplan, S. S., Sahinkaya, E., Kitis, M., Dilek, F. B., Yetis, U. (2007). Occurrence of disinfection by-products in low DOC surface waters in Turkey. Journal of Hazardous Materials, 142(1-2), 526-534.
- Harman, B.İ., Tanaçan, E., Genişoğlu, M., Kaplan-Bekaroğlu, Ş.Ş., **Ateş, N.**, Yiğit, N.Ö., Sardohan-Köseoğlu, T., Kanan, A.A. (2017) Formation of Carbon-Based Disinfection By-Products in Swimming Pools, Dokuz Eylul University Faculty of Engineering Journal of Science and Engineering, 19, 63-78.
- Saki, S., Uzal, N., **Ateş, N.** (2017) The Improved Oil Removal Using Polysulfone Membranes Containing Al₂O₃ Nanoparticles, Journal of the Turkish Chemical Society, Section B: Chemical Engineering, 1, 63-68.
- Aydın, M.E., **Ateş, N.** (2001) Trihalomethanes in Konya Drinking Water, Selçuk University Faculty of Engineering and Architecture Journal, 16 (1), 1-6.

Ateş, N., Özesmi, U. (2001) Wetlands for Wastewater Treatment, Journal of Water Pollution and Control, 11 (3), 39-54.

Aydın, M.E., **Ateş, N.** (1997) Traffic Noise in Konya and Some Proposals, Pamukkale University Journal of Engineering Sciences, 3 (3), 447-456.

Refereed Conference Papers

Demirbaş, F., Ateş, N. Estimation of Carbon Footprint for Waste Recycling Facility, III. International Urban, Environment and Health Congress, 16 - 20 April 2021, pp.1, TÜRKİYE.

Yerli, F.B., Ateş, N., Uzal, N. Energy Generation by Pressure Retarded Osmosis Using SW30 Thinfilm Composite Membrane, Cukurova 6th International Scientific Researches Conference, 5 - 6 March 2021, pp.178-179, Adana, TÜRKİYE.

Çolakoğlu, E.B., Ateş, N., Uzal, N., Yetiş, Ü., Dilek, F.B. Tributyl Phosphate and Flutriafol Removal from Wastewater By Membrane Filtration, Cukurova 6th International Scientific Researches Conference, 5 - 6 Mart 2021, ss.176-177, Adana, TÜRKİYE.

Kaplan-Bekaroglu, S.S., **Ateş, N.**, Kitiş, M. Removal of Natural Organic Matter by Steel Slag Through Adsorption and Catalytic Oxidation, International Conference on Energy, Environment and Storage of Energy (ICEESEN 2020), November 19-21, 2020, pp.1-7, Kayseri, TÜRKİYE.

Ateş, N., Uzal, N., Yetiş, Ü., Dilek, F.B. Removal of Dicofol and Irgarol from Wastewater using Reverse Osmosis, 6th MEMTEK International Symposium on Membrane Technologies and Applications Symposium, November 18-20, 2019, pp.244-249, Istanbul, TURKEY.

Özgür, C., Kaplan-Bekaroglu, S.S., **Ateş, N.**, Kitiş, M. Isparta İçme Suyu Kaynağında Farklı Dezenfeksiyon Senaryoları için Dezenfeksiyon Yan Ürünlerinin Oluşum Potansiyelinin Belirlenmesi, 1st International Potable Water and Waste Water Symposium, December 6-7, 2018, pp.437-444, Afyon, TURKEY.

Ateş, N., Dadaşer-Çelik, F., Kaplan-Bekaroglu, S.S., Ergin, B. Spatial and Temporal Changes in Drinking Water Quality in Kayseri, International Agriculture, Environment and Health Congress, October 26-28, 2018, pp.2078-2090, Aydın, TURKEY.

Saki, S., Uzal, N., **Ateş, N.** The Improved Oil Removal Using Polysulfone Membranes Containing Al₂O₃ Nanoparticles, 3rd International Porous and Powder Materials Symposium and Exhibitions (PPM), September 12-15, 2017, pp.295-300, Aydın, TURKEY.

Saki, S., Gökçek, M., **Ateş, N.**, Uzal, N. Pressure Retarded Osmosis (PRO) Potential for Sustainable Power Generation in Seyhan River, 9th International Conference on

- Sustainable Energy and Environmental Protection (SEEP2016), September 22-25, 2016, pp.407-411, Kayseri, TURKEY.
- Kizilkaya Aydoğan, E., **Ates, N.**, Uzal, N., Ozmen, M. Determining the Priority Waste in Aluminum Manufacturing Sector Using the SMAA-2 Method: A Case Study of Kayseri, Joint International Symposium on CIE44 and IMSS'14, October 14-16, 2014, Istanbul, TURKEY.
- Ates, N.**, Kitis, M., Yetis, U. NOM Removal Performance of Membrane Filtration in Low-SUVA Waters, XXII International Symposium on Physicochemical Methods of Separation-ARS 2008, 23-30 pp., July 6-9, 2008, Torun, POLAND.
- Ates, N.**, Kitis, M., Yetis, U. Formation of Chlorination By-Products in Low-SUVA Surface Waters: Correlations with SUVA and Differential UV Spectroscopy, The 233rd ACS National Meeting, 782-788 pp., March 25-29, 2007, Chicago, USA.
- Yetis, U., **Ates, N.**, Tarhan, B., Unlu, K. Water and Wastewater Management Plans for Gelibolu (Gallipoli) Peninsula National Historical Park, Turkey, 7th Specialised Conference on Small Water and Wastewater Systems-IWA, CD ROM, March 7-10, 2006, Mexico City, MEXICO.
- Ates, N.**, Ozesmi, U. A Community Grassroots Project for Domestic Wastewater Treatment Through A Created Wetland, IWA 8th International Conference on Wetland Systems for Water Pollution Control, 1049-1058 pp., September 16-19, 2002, Arusha, TANZANIA.
- Aydın, M.E., **Ates, N.**, Dorum, A. An Investigation of Spring Waters of Konya, 1st International Workshop on Environmental Quality and Environmental Engineering in the Middle East Region, 503-511 pp., October 5-7, 1998, Konya, TURKEY.
- Harman, B.I., Kaplan-Bekaroglu, S.S., Kanan, A.A., Qahtan, A.A., Minaz, M., Yigit, N.O., **Ateş, N.**, Sardohan-Koseoglu, T., Tanaçan, E. The Impact of Human Body Fluids Levels on DBPs Formation in Swimming Pools, The 8th International Conference on Swimming Pool and SPA, March 18-22, 2019, pp.72, Marsilya, FRANCE.
- Ateş, N.**, Dadaşer-Çelik, F., Peker, B. Pesticide Pollution at Sultan Marshes Ecosystem in Kayseri, Turkey: Preliminary Results, 1st International Potable Water and Wastewater Symposium, December 6-7, 2018, pp.745, Afyon, TURKEY.
- Ateş, N.**, Kaplan-Bekaroglu, S.S., Dadaşer-Çelik, F. Nitrate Pollution and its Possible Causes in Kayseri Drinking Water, 1st International Congress on Agricultural Structures and Irrigation, September 26-28, 2018, pp.656, Antalya, TURKEY.
- Yerli, F.B., Saki, S., Uzal, N., **Ateş, N.** Modification of Commercial Reverse Osmosis Membranes for Osmotic Power Generation, The 17th Nordic Filtration Symposium, August 29-31, 2018, pp. 26, Aalborg, DENMARK.

- Saki, S., Uzal, N., **Ateş, N.** Surface Modification of Commercial RO Membranes with L-DOPA/SiO₂ for Forward Osmosis Applications, The 17th Nordic Filtration Symposium, August 29-31, 2018, pp. 49, Aalborg, DENMARK.
- Uzal, N., Yerli, F., Saki, S., **Ateş, N.** Surface Modification of RO Membranes by Coating of Zwitterionic L-DOPA and Nanoparticles for Forward Osmosis Applications, 3rd International Congress on Environmental Researches and Technology (ICERAT), November 8-12, 2017, pp.18, Belgrad, SERBIA.
- Ateş, N.**, Dadaşer-Çelik, F., Kaplan-Bekaroğlu, Ş.Ş. Trihalomethane Formation in Drinking Water in Kayseri Province, 1st International Water Congress/4.Ulusal Su Kongresi, October 26-29, 2017, pp.24, Afyon, TURKEY.
- Saki, S., Gokcek, M., **Ateş, N.**, Uzal, N. Salinity Gradient Energy Potential of High Saline Industrial Wastewaters in Pressure Retarded Osmosis, 3rd International Porous and Powder Materials Symposium and Exhibition (PPM2017), September 12-15, 2017, pp.84, Aydın, TURKEY.
- Saki, S., Uzal, N., **Ateş, N.** Surface Modification of Commercial RO Membranes for Forward Osmosis Applications, 3rd International Porous and Powder Materials Symposium and Exhibition (PPM2017), September 12-15, 2017, pp.83, Aydın, TURKEY.
- Ateş, N.**, Yuksel, G. Hydrogeochemical Evaluation of Groundwater Quality in Kayseri (Turkey), International Ecology Symposium (ECOLOGY2017), May 11-13, 2017, pp.193, Kayseri, TURKEY.
- Ateş, N.**, Basak, A. Heavy Metals Removal from Aluminum Profile Industry by Ion Exchange Process, International Conference on Civil and Environmental Engineering (ICOCEE-Cappadocia), May 8-10, 2017, pp.133, Nevşehir, TURKEY.
- Ozturk, D., Ates, N., Uzal, N. Potential Assessment of Environmental Impacts in Aluminum Production Industry, International Conference on Civil and Environmental Engineering (ICOCEE-Cappadocia), May 8-10, 2017, pp.134, Nevşehir, TURKEY.
- Colakoglu, E. B., Pekdogan, M., Yerli, F.B., Saki, S., **Ateş, N.**, Uzal, N. Surface Modification of Commercial RO Membranes for Forward Osmosis, International Conference on Civil and Environmental Engineering (ICOCEE-Cappadocia), May 8-10, 2017, pp.1267, Nevşehir, TURKEY.
- Saki, S., Uzal, N., **Ateş, N.**, Gokcek, M. Pressure Retarded Osmosis (PRO) Potential for Sustainable Power Generation in Meric River Turkey, International Conference on Civil and Environmental Engineering (ICOCEE-Cappadocia), May 8-10, 2017, pp.1263, Nevşehir, TURKEY.
- Harman, B. I., Tanacan, E., Kaplan-Bekaroglu, S.S., **Ateş, N.**, Yigit, N.O., Sardohan-Koseoglu, T., Kanan, A.A. Halogenated Disinfection By-Products (DBPs) In Indoor

- Swimming Pool Swimming Pool and SPA 7th International Conference, May 2-5, 2017, pp.105-106, Kos Island, GRECE.
- Apaydın, D., Saki, S., Bulbul, Y.E., **Ateş, N.**, Uzal, N. Heavy Metal Removal Performance of Thin Film Nanocomposite Membranes Incorporated with SiO₂ and TiO₂ Nanoparticles, PERMEA2016-Membrane Science and Technology Conference of Visegrad Countries, May 15-19, 2016, pp.140, Prag, CZECH REPUBLIC.
- Bulbul Y.E., Saki S., Isoglu, A., Uzal, N., **Ateş, N.** Fabrication of Polysulfone/PEI-SiO₂ Nanofiber Membranes with Enhanced Properties for Water Filtration, PERMEA2016-Membrane Science and Technology Conference of Visegrad Countries, May 15-19, 2016, pp.137, Prag, CZECH REPUBLIC.
- Saki, S., Bulbul, Y.E., Uzal, N., **Ateş, N.** Preparation and Characterization of Thin Film Nanocomposite Membranes Incorporated With SiO₂ and TiO₂ Nanoparticles, PERMEA2016-Membrane Science and Technology Conference of Visegrad Countries, May 15-19, 2016, pp.41, Prag, CZECH REPUBLIC.
- Basak, A., Doner, F., Guven, S.I., **Ateş, N.**, Uzal, N. Nanofiltration and Reverse Osmosis for Reuse of Aluminium Products Manufacturing Industry Wastewater, International Institute of Chemical, Biological & Environmental Engineering, December 23-24, 2014, pp.71, Dubai (UAE), Dubai, UNITED ARAB EMIRATES.
- Ozmen, M., Basak, A., Kizilkaya Aydoğan, E., Uzal, N., **Ateş, N.** Investigation of Priority Wastes and Wastewater Treatment Studies in Aluminum Products Manufacturing Sector, International Symposium on Environmental Sciences Van, 117-118 pp., June 4-7, 2014, Van, TURKEY.
- Ateş, N.**, Inçetan. Removal of Natural Organic Matter (NOM) from Surface Waters by MIEX Resin: Competitive Effect of Sulfate, International Conference on Environmental Science and Technology - ICOEST'2013, pp.19-20, June 18-21, 2013, Nevşehir, TURKEY.
- Karacetin, E., Mihciokur, H., **Ateş, N.**, Sagdic, O., Ozturk, I., Oguz, M., Gokkus, O., Ozkan, O. Evaluation of Physicochemical and Microbiological Quality in Tap and Spring Waters in Bünyan, Kayseri, International Conference on Environmental Science and Technology - ICOEST'2013, 97-98 pp., June 18-21, 2013, Nevşehir, TURKEY.
- Ateş, N.**, Tarhan, B., Unlu, K., Yetis, U. Wastewater Management Plan for Gelibolu (Gallipoli) Peninsula National Historical Park, Turkey, MEDA WATER International Conference on Sustainable Water Management Rational Water Use, Wastewater and Reuse RUWTR 2006, CD ROM, pp.1-2, June 8-10, 2006, Marrakech, MOROCCO.
- Ateş, N.** Control of Disinfection Byproducts in Drinking Water with Membrane Process, Workshop on Membrane Technologies in Drinking and Potable Water Treatment, 18-20 April 2017, pp.31-32, Istanbul, TURKEY.

- Bülbül, YE, Gökçek, M., **Ateş, N.**, Uzal, N. Sustainable Energy Generation by Pressure Delayed Osmosis (PRO) Process, 4th National Membrane Technologies and Applications Symposium (MEMTEK2015), 7-8 October 2015, p. 164-170, Isparta, TURKEY.
- Ateş, N.**, Başak, A., Döner, F., Güven, SI, Uzal, N. Heavy Metal Removal from Aluminum Product Production Wastewater by Membrane Filtration, 4th National Membrane Technologies and Applications Symposium (MEMTEK2015), 7-8 October 2015, pp.50-55, Isparta, TURKEY.
- Ateş, N.**, Uzal, N. Evaluation of Pretreatment Alternatives in Treatment of Aluminum Finished Wastewater, 3rd National Membrane Technologies and Applications Symposium MEMTEK-2013, pp: 19-23, 26-27 September 2013, Elazığ, TURKEY.
- Uzal, N., **Ateş, N.** Recycling of Aluminum Product Production Wastewater with Nanofiltration and Reverse Osmosis, 3rd National Membrane Technologies and Applications Symposium MEMTEK-2013, pp: 24-26, 26-27 September 2013, Elazığ, TURKEY.
- Eroğlu, E., Ardahanlılar, A., Öztürk, S., **Ateş, N.** Recycling Waste Vegetable Oils and Creating Inventory, Symposium on Environmental Pollution Priorities in Turkey VII, pp: 109-110, 22-23 November 2012, Istanbul Turkey.
- Ateş, N.**, Yılmaz, L., Kitiş, M., Yetiş, Ü. Removal of Natural Organic Materials by Membrane Filtration, Membrane Technologies and Applications Symposium-MEMTEK, pp: 151-154, 2-3 November 2009, Istanbul, TURKEY.
- Ateş, N.**, Kitiş, M., Yetiş, Ü. The Relationship Between Precursor Parameters and Disinfection By-Product Formation in Surface Water Resources, Environmental Problems Symposium Kocaeli-2008, pp: 716-726, 14-17 May 2008, Kocaeli, TURKEY.
- Şahinkaya, E., **Ateş, N.**, Atlı, E., Tokmak, B., Capar, G., Sanin, F.D., Celtemen, P., Baltacı, F., Yetiş, Ü., Dilek, F.B. Trihalomethane Formation Potential in Potable Water Dam Lakes, 6. National Environmental Engineering Congress, p: 11-22, 24-26 November 2005, Istanbul, TURKEY.
- Ateş, N.**, Kaplan, Ş.Ş., Şahinkaya, E., Yetiş, Ü., Dilek, FB, Kitiş, M. Disinfection By-Products in Turkish Drinking Water Resources, 6th National Environmental Engineering Congress, pp: 213-222, 24-26 November 2005, Istanbul, TURKEY.
- Ateş, N.**, Şahinkaya, E., Atlı, E., Çapar, G., Tokmak, B., Sanin, FD, Onur, AK, Baltacı, F., Kitiş, M., Yetiş, Ü., Dilek, FB Tri-halomethane (THM) Formation in Drinking Water Treatment Plants, pp: 223-233, 24-26 November 2005, Istanbul, TURKEY.
- Aydın, M., **Ateş, N.** (1997) Industrial Noise in Konya and Some Suggestions, Journal of Konya Chamber of Industry, 18, 23-26.

Uzun, H., Kim, D., **Ates, N.**, Karanfil, T. NDMA Precursors in Source Waters and Water Treatment Plants, South Carolina Environmental Conference, March 11-13, 2012, Mrytle Beach, SC, poster presentation (Best Poster).

Selbes, M., Kim, D., **Ates, N.**, Karanfil, T. Effect of Tertiary Amine Structure on NDMA Formation, South Carolina Environmental Conference, March 11-13, 2012, Mrytle Beach, SC, poster presentation.

Uzun, H., Kim, D., **Ates, N.**, Karanfil, T. NDMA Formation from Source Waters to Distribution Systems, ACE12 Annual Conference and Exposition, June 10-14, 2012, Dallas, TX, poster presentation.

Selbes, M., Kim, D., **Ates, N.**, Karanfil, T. Importance of Tertiary Amine Structure on NDMA Formation and Effect of Background Matrix and Chloramine Species, Gordon Research Conference: Drinking Water Disinfection By-Products, August 5-10, 2012, South Hadley, MA, poster presentation.

Book Chapter

Kizilkaya Aydogan, E., **Ates, N.**, Uzal, N., Zarali, F., Papajorgji, P. Sustainable Waste Management System and Reverse Logistic Network Design: A Case Study of Turkey, Enterprise Business Modeling, Optimization Techniques, And Flexible Information Systems, Eds. P.Papajorgji, A.M.Guimares, M.R.Guarracino, 320-340 pp., Pennsylvania, IGI GLOBAL, 2013.

Uzal, N., **Ateş, N.** Basic Concepts from Physical Chemistry, Chemistry For Environmental Engineering And Science, Eds. İ.Toröz, 52-112 pp., Ankara, NOBEL AKADEMİK YAYINCILIK EĞİTİM DANIŞMANLIK TİC. LTD. ŞTİ., 2013.

RESEARCH EXPERIENCE

Projects Funded by National Agencies

Principal Investigator: Modeling Pesticide Transport to Konya Altınapa Dam and Development of Innovative Advanced Treatment Methods for Pesticide Removal, TÜBİTAK 1001- Research Project. Project No: 118Y042. 2019-continues.

Researcher: Development of an Innovative Hybrid Membrane Process for Energy, Nutrient and Water Recovery from Domestic Wastewater. TÜBİTAK 1001- Research Project. Project No: 119Y134. 2020- continues.

Researcher: Yeşilırmak Basin Point and Diffuse Pollution Resources Management. TÜBİTAK 1003-Research Project. Project No: 115Y013. 2016-2020.

Principal Investigator: Practical and Portable Water Treatment Systems, TÜBİTAK-TEYDEB, 1512- Entrepreneurship Project, Project No: 2170581. Project Manager. 2018-2019.

Researcher: Sustainable Energy Generation by Using Pressure Delayed Osmosis (PRO) Process with Thin Film Composite Membranes. TÜBİTAK 1001- Research Project, Project No: 115Y617. 2016-2019.

Researcher: Formation and Control of Chlorinated Organic By-Products in Indoor Swimming Pools. TÜBİTAK 1001- Research Project, Project No: 114Y598. 2015-2018.

Principal Investigator: Determination of Priority Wastes in Aluminum Product Production Sector and Establishing an Integrated Waste Management System. TÜBİTAK 1001- Research Project, Project No: 111R003. 2013-2015.

Researcher: Determination of Potential of Drinking Water Resources under DSI Management to Form Chlorinated Organic By-Products (THM-Trihalomethanes). TÜBİTAK 1001- Research Project, Project No: İÇTAG-Ç019. 2001-2004.

Researcher: Determination of Erciyes Mountain Ecosystem Characteristics and Evaluation of Mountain Areas Management (DAY). TÜBİTAK 1001- Research Project, Project No: 101Y055. 2001-2003.

Projects Funded by University Funds

Principal Investigator: Pesticide Removal from Surface Water Sources with Membranes Modified with Nano Materials, Erciyes University Research Foundation, Project No: FYL-2021-10956. 2021- continues.

Researcher: Evaluation of Pesticide Pollution in Sultan Marshes and Water Sources Feeding the Reed. Erciyes University Research Foundation, Project No: FBA-2018-8032. 2018-continues.

Principal Investigator: Energy Generation and Microfouling Removal with Thin Film Composite Membranes, Erciyes University Research Foundation, Project No: FYL-2018-8493. 2018-2020.

Principal Investigator: Micropollutant Removal by Membrane Filtration in Domestic Wastewater Treatment Plant, Erciyes University Research Foundation, Project No: FYL-2018-7852. 2018-2019.

Principal Investigator: Determination of THM Level in Kayseri Drinking Water and Creating THM Map, Erciyes University Research Foundation, Project No: FCD-2015-5940. 2015-2017.

Principal Investigator: Heavy Metal Removal by Ion Exchange Process in Aluminum Product Production Process Wastewater, Erciyes University Research Foundation, Project No: FYL-2018-7644. 2014-2017.

Principal Investigator: Determination of Priority Wastes in Aluminum Product Production Sector and Establishing an Integrated Waste Management System, Erciyes University Research Foundation, Project No: FDA-2014-5531. 2014-2015.

Principal Investigator: Natural Organic Matter (DOM) Removal by Ion Exchange Process from Drinking Water Sources, Erciyes University Research Foundation, Project No: FBA-10-3001. 2010-2011.

Researcher: Determination of Some Microbiological and Chemical Pollution in Spring and Drinking Water of Kayseri and Some Districts in Its Near Area (Bünyan, Develi and İncesu), Erciyes University Research Foundation, Project No: FBA-08-545. 2008-2013.

Researcher: Natural Organic Matter (DOM) Removal with Membrane Filtration System, METU Research Foundation, Project No: FDK-2020-10451. 2005-2006.

Researcher: Determination of Disinfection By-Products (DIC) Potentials of Drinking Water Sources in Turkey and Control of Developing SDUs. CB Strategy and Budget Directorate (Ministry of Development) Project, Project No: BAP –DPT-03-11-DPT.2003K120920-04, 2004-2004.

Researcher: Trihalomethane Formation Potential in Konya Drinking Water Treatment Plant, Selçuk University Research Foundation, Project No: 98/098. 1998-1999.

Other Projects

Advisor: Treatment of Vitrified Ceramic Production Wastewater with Hybrid Processes, TÜBİTAK 2209A- University Students Research Projects Support Program, 2019-2020.

Instructor: Science at the Summit: Erciyes Mountain Science School with Specially Talented Students. TÜBİTAK 4004 Project, Project No: 118B437. 2018-2019.

Instructor: Scientific Advising on Sustainable Development and Environmental Education for Science Teachers. Funded by The Scientific and Technological Research Council of Turkey (TUBİTAK). 2013.

Advisor: Recycling Waste Vegetable Oils and Creating Inventory, TÜBİTAK 2209A- University Students Research Projects Support Program, 2011-2012.

Researcher: Gelibolu Peninsula Historical National Park Water Master Plan, Yeni Yapı A.Ş., Turkey, 2005.

Researcher: Gelibolu Peninsula Historical National Park Wastewater Master Plan, Yeni Yapı A.Ş., Turkey, 2005.

Researcher: The Impact of Chlorine Dioxide and Chlorine Mixture on DBP Formation in Indoor Swimming Pools, Arch Chemicals, USA, September - December 2011.

AWARDS AND HONORS

Academic Incentive Award: 2017 Academic Incentive Plaque Award, Erciyes University, Faculty of Engineering, 2018.

Best Presentation Award: "Basak A., Doner F., Guven SI, Ateş N., Uzal N." Nanofiltration and Reverse Osmosis for Reuse of Aluminum Products Manufacturing Industry Wastewater ", International Institute of Chemical, Biological & Environmental Engineering, Dubai (UAE), pp 71-71, December 23-24, 2014, DUBAI, UNITED ARAB EMIRATES ”.

TÜBA Scientific Copyright and Translation Work Awards Program: Chemistry for Environmental Engineering and Science, Translation from the Fifth Edition, Trans. Ed: Prof.Dr. İsmail Toröz, 2013, Nobel Yayıncılık (Chemistry for Environmental Engineering and Science, 5th Ed., 2003). (Translation)

Best Poster Award: NDMA Precursors in Source Waters and Water Treatment Plants, South Carolina Environmental Conference, March 11-13, 2012, Myrtle Beach, SC, USA.

Postdoctoral Research Scholarship: TÜBİTAK 2219-International Postdoctoral Research Fellowship Program, Visiting Researcher, Clemson University, September 2011-September 2012 (12 months) South Carolina, USA.

Scientific Activity Honorary Award: Erciyes University, Faculty of Engineering, December 2011, “Determination of Priority Wastes in Aluminum Product Production Sector and Creation of an Integrated Waste Management System, TÜBİTAK, Project No: 111R003”.

Conference Travel Support: TÜBİTAK-BİDEB 2224-Conference Travel Support, “XXII International Symposium on Physicochemical Methods of Separation-ARS SEPARATORIA, pp. 23-30, July 6-9, 2008, POLOND ”.

Interdisciplinary Research Scholarship: Middle East Technical University, Faculty Training Program, Visiting Researcher, Clemson University, May-October 2007 (6 months) South Carolina, USA.

Conference Travel Support: American Chemical Society, “Formation of Chlorination By-Products in Low-SUVA Surface Waters: Correlations With SUVA and Differential UV Spectroscopy, The 233rd ACS National Meeting, pp. 782-788, March 25-29, 2007, Chicago, USA ”.

First Place in B.S.: Selçuk University, Faculty of Engineering, Department of Environmental Engineering, 1996.

TEACHING EXPERIENCE

Undergraduate

ÇM 111 Basic Computer Technologies Usage
ÇM 115 Foreign Language for Environmental Engineers I
ÇM 116 Foreign Language for Environmental Engineers II
ÇM 304 Drinking Water Treatment
ÇM 308 Solid and Hazardous Waste Management
ÇM 342 Instrumental Analysis in Environmental Engineering
ÇM 403 Treatment Sludge Control
ÇM 403 Control of Treatment Sludges
ÇM 429 Chemical Microbiology
ÇM 470 Cleaner Production
ÇM 476 Membrane Processes

Graduate

ÇEM 532 Water Quality Management
ÇEM 534 Scientific Research and Ethic
ÇEM 549 Membrane Technology and Applications
ÇEM 606 Physicochemical Treatment Methods
ÇEM 609 Control of Natural Organic Substances in Drinking Water
ÇEM611 Membrane Processes in Environmental Engineering
ÇEM 634 Water Chemistry

THESIS SUPERVISOR

Doctoral Thesis Supervisor

Buket ERGİN. Determination and Treatment of Endocrine Disruptors in Full Scale Advanced Biological Wastewater Treatment Plants, Erciyes University, Environmental Engineering Department, 2015-cont.

Master's Thesis Supervisor

Furkan Buhari YERLİ. Energy production and micro-contaminant removal with thin film composite membranes, Erciyes University, Environmental Engineering Department, 2020.

Veysel Şahin KALSIN. Optimization of Sludge Digester Performance in Advanced Biological Wastewater Treatment Plant, Erciyes University, Department of Environmental Engineering, 2019.

Emine Büşra ÇOLAKOĞLU. Micro-Pollutant Removal by Membrane Filtration in Domestic Wastewater Treatment Plant, Erciyes University, Department of Environmental Engineering, 2019.

Emel Erdogan-BÜYÜKKUTLU. Treatment of Ceramic Production Process Wastewater, Erciyes University, Environmental Engineering Department, 2019.

Furkan DEMİRBAŞ. Evaluation of Carbon Footprint in Recovery Plant, Erciyes University, Environmental Engineering Department, 2018.

Aslı BAŞAK. Heavy Metal Removal by Ion Exchange Process in Aluminum Product Production Process Wastewater, Erciyes University, Department of Environmental Engineering, 2017.

Betül KAŞAĞICI. Determination of Noise Pollution in Streets and Sensitive Areas in Kayseri, Erciyes University, Department of Environmental Engineering, 2017.

Güler YÜKSEL. Hydrogeochemical Properties of Underground Water Resources of Kayseri Province and Evaluation of Water Quality, Erciyes University, Department of Environmental Engineering, 2014.

Fatma Burçin INCETAN. Natural Organic Matter and Sulphate Removal with MİEX Resin from Surface Water Sources, Erciyes University, Department of Environmental Engineering, 2011.

Demet DELİKTAŞ, Environmental Engineering Department, 2020-cont.

İbrahim ÖZTÜRKMEN, Environmental Engineering Department, 2020-cont.

Mustafa AKSOY, Environmental Engineering Department, 2020-cont.

Büşra Gülşah BİROL, Environmental Engineering Department, 2020-cont.

Ezgi ALTIPARMAK, Environmental Engineering Department, 2020- cont.

Ahmet ARDAHANLILAR, Environmental Engineering Department, 2014-cont.

PROFESSIONAL ACTIVITIES

Referee Experiences

- Clean-Soil, Air, Water
- Current Nutrition & Food Science
- Current Pollution Reports
- Desalination Water Treatment
- Environmental Forensics

- Environmental Monitoring and Assessment
 - Environmental Technology
 - Industrial and Engineering Chemistry Research
 - International Journal of Environmental Health Research
 - Journal of Cleaner Production
 - Journal of Environmental Sciences
 - Journal of Environmental Waste Management
 - Journal of Hazardous Materials
 - Science of the Total Environment
 - Separation and Purification Technology
 - The Korean Journal of Chemical Engineering (KJCE)
 - Water Research
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