

Prof. Dr. Süheyla AYDIN

PERSONAL INFORMATION

Tel: (+90 212) 285 68 64
Fax: (+90 212) 285 34 27
E-mail: saydin@itu.edu.tr
Birth Place: Biga
Birth Date: 2 February 1953

ACADEMIC & EDUCATION

1996 – Halen **Professor**
İstanbul Technical University
Metallurgical & Materials Engineering Department
Production Metallurgy Program

1991 – 1996 **Assoc. Professor**
İstanbul Technical University
Metallurgical & Materials Engineering Department
Production Metallurgy Program

1988 – 1991 **Asst. Professor**
İstanbul Technical University
Metallurgical & Materials Engineering Department
Production Metallurgy Program

1979 – 1988 **PhD**
İstanbul Technical University,
İ.T.Ü. Graduate School of Science, Engineering and Technology
Production Metallurgy Program

1980 – 1988 **Research Assistant,**
İstanbul Technical University,
Faculty of Chemical and Metallurgical Engineering
Metallurgical Engineering Department
Production Metallurgy Program

1978 – 1979 **Masters**
İstanbul Technical University,
İ.T.Ü. Graduate School of Science, Engineering and Technology
Production Metallurgy Program

1970 – 1974 **Bachelors**
İstanbul Technical University,
Mining Faculty
Metallurgical Engineering Department

THESIS PREPARED

PhD	The Removal of Alkalis from “Divriği A Heat” Iron Ores by the Chloride Volatilization Process (1987).
Masters	Explanation of Pellet Production Conditions from Avnik Westside Iron ore Blend Concentrate with Briquetting Model (1979).

ADMINISTRATIVE

2013 – 2018	Member of Faculty Board, İTÜ Faculty of Chemical and Metallurgical Engineering
2007 – 2010	Member of Administrative Board, İTÜ İ.T.Ü. Graduate School of Science, Engineering and Technology
2001 – 2004	Member of Faculty Board, İTÜ Faculty of Chemical and Metallurgical Engineering
2000 – 2001	Division Head, İTÜ Faculty of Chemical and Metallurgical Engineering, Metallurgical & Materials Engineering Department
1998 – 2000	Deputy Dean, İTÜ Faculty of Chemical and Metallurgical Engineering
1991 – 1997	Co-head of Division, İTÜ Metallurgical & Materials Engineering Department
1988 – 1990	Member of Faculty Board, İTÜ Faculty of Chemical and Metallurgical Engineering

OCCUPATIONAL EXPERIENCE

1976 – 1979	Pricing Expert, Bureau of Registration and Revision of Import Products
1974 – 1976	Engineer, İskenderun Iron-Steel Factory, Converter Engineer
1975	6 months of educational period in S.S.C.B. Novolipetsky Steel Plants.
1974	6 months of educational period in Ereğli Iron-Steel Factory.

FIELDS OF INTEREST

Metallurgical and Materials Engineering Thermodynamics, Phase Equilibrium and Phase Transformation, Kinetic of Metallurgical Processes, Crystallization Kinetics of Amorphous Materials, Metallurgical Preprocessing, Iron-Steel Production, Oxide Based Glass Systems, Ion Exchange Process, Improvement of Mechanical Properties of Glasses by Chemical Tempering, Antibacterial Glasses

THESIS ADMINISTERED

MASTERS THESIS

1. Zeynep Yurdakul, “Effect of Ionomer on the Thermal Stability, Fire and Mechanical Behavior of Phosphorous Flame Retardant ABS Formulations”. (2017).

2. Mustafa Kerem Yüçetürk, “Preparation and Characterization of Nanocomposite Foams Based on Polysulfone and Graphene Nanoparticles”, İ.T.Ü Graduate School of Science, Engineering and Technology (2017)
3. Salih Erserin, “Strengthening Of Soda Lime Glasses Using Molten Salt Bath And Salt Paste Applications Via Ion Exchange”, İ.T.Ü. Graduate School of Science, Engineering and Technology (2016).
4. Umut Caner Kuzu, “Preparation of Soda-Lime Glasses Incorporated By Silver, Zinc and Copper Ions via Ion Exchange Process and Investigation of Its Potential Antibacterial Properties”, İ.T.Ü. Graduate School of Science, Engineering and Technology (2015).
5. İpek Erdem, “Mechanical Strengthening Of Soda Lime Glasses By Ion Exchange Process”, İ.T.Ü. Graduate School of Science, Engineering and Technology (2015).
6. Semih Çulhaoğlu, “Investigation of Photocatalytic Activity of Boron and Nitrogen Doped TiO₂ Thin Films”, İ.T.Ü. Graduate School of Science, Engineering and Technology (2015).
7. Melis Can Özdemir, Preparation And Characterization of Vanadium Oxide - Based Thermo-chromic Thin Films Produced by Sol-Gel Method, İ.T.Ü. Graduate School of Science, Engineering and Technology (2014).
8. Kutlu Berkay Kavaklıoğlu, “Investigation of Glass Formation Behavior and Phase Equilibria of the TeO₂-Na₂O Binary System” İ.T.Ü. Graduate School of Science, Engineering and Technology (2013).
9. Tülay Irmak, “Thermal and Microstructural Characterization of TeO₂-ZnO System” İ.T.Ü. Graduate School of Science, Engineering and Technology (2012).
10. Bahar Dırbalı “Production of Thin Nickel Films by Magnetron Sputtering for to use as a Template for Graphene Production” İ.T.Ü. Graduate School of Science, Engineering and Technology (2011).
11. Cem Karakaş “Synthesis Of Strontium Aluminates Phosphorescence Material by Modified Sol-gel Process” İ.T.Ü. Graduate School of Science, Engineering and Technology (2010).
12. Duygu Yardımcı “Thermal and Microstructural Characterization of TeO₂ – B₂O₃ System” İ.T.Ü. Graduate School of Science, Engineering and Technology (2010).
13. Miray Çelikkbilek “Thermal and Microstructural Characterization of TeO₂-WO₃ System” İ.T.Ü. Graduate School of Science, Engineering and Technology (2009).
14. Cemil Neşet “The Investigation of Zirconia Mullite Based Castable Refractories for Glass Furnaces” İ.T.Ü. Graduate School of Science, Engineering and Technology (2008).
15. A.Erçin Ersundu “The Suitability Investigation of Domestic Iron Ores for Sponge Iron Production” İ.T.Ü. Graduate School of Science, Engineering and Technology (2007).
16. Erdiñ Karadeniz “The Investigation of Alumina Based Low-cement Self Flowing Castables” İ.T.Ü. Graduate School of Science, Engineering and Technology, (2004).

17. A.Serkan Gökçe “Effect of the Antioxidants on the Oxidation Behavior of the Magnesia-Carbon Refractories” İ.T.Ü. Graduate School of Science, Engineering and Technology, (2003).
18. Cüneyt Gürcan “Production of Fused Magnesia in a Direct Current Electric Arc Furnace” İ.T.Ü. Graduate School of Science, Engineering and Technology, (2002).
19. Nuri Solak “Oxidation Behaviors of Nitride Based Hard Ceramic Thin Film Coatings” İ.T.Ü. Graduate School of Science, Engineering and Technology, (2002).
20. Ladin Çamcı “Beneficiating Solid Wastes Generated in the Integrated Iron and Steel Works” İ.T.Ü. Graduate School of Science, Engineering and Technology, (1998).
21. Arif Karaca “The Removal of Copper from Molten Pig Iron” İ.T.Ü. Graduate School of Science, Engineering and Technology, (1995).
22. Aliye Kolay “Reduction Behaviors of Magnetite Pellets Containing Lignite and Coke Powder” İ.T.Ü. Graduate School of Science, Engineering and Technology, (1995).
23. Ertuğrul Arabacı “Hot-Dip Aluminizing of Steel Strip” İ.T.Ü. Graduate School of Science, Engineering and Technology, (1994).
24. Ö. Faruk Bayhan “ The Investigation of the Sulphur Removal Conditions from Molten Pig Iron by Using Na_2CO_3 ” İ.T.Ü. Graduate School of Science, Engineering and Technology, (1993).
25. Nazım Narçın “Sponge Iron Production in the Rotary Tube Furnace by Using Solid Reductant”, (1990).

PhD THESIS

1. Melis Can Özdemir Yanık, İ.T.Ü. Graduate School of Science, Engineering and Technology, (Ongoing).
2. İpek Erdem, İ.T.Ü. Graduate School of Science, Engineering and Technology, (Ongoing).
3. Duygu Güldiren, “Imparting Antimicrobial Property to the Silica-Based Glasses and Mechanical Strengthening of Glass Surfaces by Ion Exchange Treatment” İ.T.Ü. Graduate School of Science, Engineering and Technology, (2016).
4. Miray Çelikkilek “Investigation of Glass Formation Behavior, Glass Properties and Thermo-chromic Behavior of Tellurite Systems” İ.T.Ü. Graduate School of Science, Engineering and Technology, (2013).
5. Erçin Ersundu “Determination of The Glass Properties and Phase Equilibria of the Ternary Tellurium Oxide Based Systems Through Thermal, Kinetic and Structural Investigations” İ.T.Ü. Graduate School of Science, Engineering and Technology, (2013).
6. Arca İyiel “Synthesis and Characterization of Soda Lime Photosensitive Glasses” İ.T.Ü. Graduate School of Science, Engineering and Technology, (2009).

PROJECTS

Community and Private Sector Supported Projects

1. TÜBİTAK Research project “Imparting Antibacterial Property to the Silica-Based Glasses by Ion Exchange Process and Investigation of Antibacterial Activity and Surface Properties of the Glasses” 2013-2015, (Project coordinator).
2. TÜBİTAK Research project “Thermal, Structural and Spectroscopic Investigation and Development of Alkaline Oxide Doped Tungsten-Tellurite Glass Systems for Thermo-chromic Applications” 2011-2013, (Project coordinator).
3. TÜBİTAK Research project “Phase Studies and Thermodynamic-Optical Characterization of the TeO₂-WO₃-CdO System Used in Fiberoptic Amplifying and Laser Applications” 2008-2010, (Project coordinator).
4. DPT–Advanced Research Project fund for Universities “Alternative Raw Material for Steel Production Using Domestic Sources; Sponge Iron - Production and Use” 2004-2007, (Project coordinator).
5. Queensland Magnesia Pty Ltd.- İTÜ Development Fund, “DC Arc Furnace-Fused MgO Test Work” 2002-2003, (Worker).

Scientific Research and Development Projects Support Program

1. İTÜ Research Fund,, “Effect of different ion exchange methods on mechanical properties of silica based glasses” 2018- Ongoing. (Project coordinator).
2. İTÜ Research Fund, “Mechanical Property Improvement of Soda Lime Glasses” 2016, (Project coordinator).
3. İTÜ Research Fund, “Imparting Antibacterial Property to Silica Based Glasses” 2015, (Project coordinator).
4. İTÜ Research Fund, “Strengthening of Glass Surface by Ion Exchange Process” 2014-2015, (Project coordinator).
5. İTÜ Research Fund, “TiO₂ Thin Film Coated Glasses Presenting Antibacterial Property” 2014-2015, (Project coordinator).
6. İTÜ Research Fund, “Preparation and Characterization of VO₂ Thin Films by Sol-Gel Method” 2014-2015, (Project coordinator).
7. İTÜ Research Fund, “Imparting Antibacterial Property to the Soda-Lime Glasses by Ion Exchange Process” 2013-2016 (Project coordinator).
8. İTÜ Research Fund, “Investigation of Thermo-chromic Properties of Tellurite Glass Systems” 2013-2014, (Project coordinator).
9. İTÜ Research Fund, “Thermal, Structural and Spectroscopic Investigation of TeO₂-Na₂O System” 2012-2013, (Project coordinator).
10. İTÜ Research Fund, “Thermal and Microstructural Investigation of TeO₂-ZnO System” 2012-2013, (Project coordinator).

11. İTÜ Research Fund, “Thermal, Structural and Spectroscopic Investigation and Development of Sodium-Tellurite Glass Systems for Thermo-chromic Applications” 2011-2013, (Project coordinator).
12. İTÜ Research Fund, “Thermodynamic and Kinetic Investigation of TeO₂-WO₃-CdO System” 2011-2012, (Project coordinator).
13. İTÜ Research Fund, “Improvement of Oxidation Properties of Nitride Based Thin Film Coatings” 2010, (Project coordinator).
14. İTÜ Research Fund, “Phosphorescence Material Synthesis by Modified Sol-Gel Process” 2010-2010, (Project coordinator).
15. İTÜ Research Fund, “Determination of Phase Balances and Thermodynamic - Microstructural-Kinetic Analysis in TeO₂-B₂O₃ System” 2009-2010, (Project coordinator).
16. İTÜ Research Fund, “Determination of Phase Balances and Thermodynamic - Microstructural-Kinetic Analysis in TeO₂-WO₃ System” 2009-2010, (Project coordinator).
17. İTÜ Research Fund “Investigation of Zirconium Mullite Based Castable Refractory Concretes for Glass Furnaces” 2008, (Project coordinator).
18. İTÜ Research Fund “Investigation of Properties of Alumina Based Low Cement Self-Pourable Castable Refractories” 2004-2010, (Project coordinator).
19. İTÜ Research Fund “Oxidation Behavior of Antioxidant Doped MgO-C Refractories” 2003-2004, (Project coordinator).
20. İTÜ Research project, “Procurement Factsage 5.1 Thermodynamic Database Software” 2002-2004, (Project coordinator).
21. İTÜ Research Fund “Effect of Soda Ash on the Sulfur Removal Efficiency and Cost in Liquid Raw Iron Desulphurization Process” 2002-2003, (Project coordinator).
22. İTÜ Research Fund “Melted MgO (fused MgO) Production and Product Characterization in Electric Arc Furnace” 2002-2003, (Project coordinator).
23. İTÜ Research Fund “Oxidation Behavior of Nitride Based Hard Ceramic Thin Film Coatings” 2001-2002, (Project coordinator).
24. İTÜ Research Fund “Recycling of Solid Waste Products from Ereğli Iron and Steel Works” 1997-1998, (Project coordinator).
25. İTÜ Research Fund “Aluminum Coating of Steel Tapes by Hot Dipping Method” 1994, (Project coordinator).

COURSES INSTRUCTED

- Undergraduate Metallurgical Thermodynamics I, Solution Thermodynamics, Chemical Metallurgy, Ferroalloy Production
- Post Graduate Materials Thermodynamics and Kinetics, Application of Kinetic Models to Metallurgical Processes.

PUBLICATIONS

Books and Book Chapters

1. **Aydın S.** (2018). “Thermodynamics for Metallurgical and Material Engineers”, ISBN: 978-975-04-0661-4, Third Edition. Literatür Yayıncılık.
2. Ersundu, A.E., Çelikkilek, M., **Aydın, S.** (2012). “A Review of Scanning Electron Microscopy Investigations in Tellurite Glass Systems”, Current Microscopy Contributions to Advances in Science and Technology Volume 2, A. Méndez-Vilas (Ed.), ISBN: 978-84-939843-6-6, Formatex.
3. Çelikkilek, M., Ersundu, A.E., **Aydın, S.** (2012). “Crystallization Kinetics in Amorphous Materials”, Advances in Crystallization Processes, Yitzhak Mastai (Ed.), ISBN: 978-953-51-0581-7, InTech.
4. Dikeç, F., **Aydın, S.** (1991). “Solved Metallurgical Thermodynamics Problems”, İTÜ Faculty of Chemical and Metallurgical Engineering Ofset Atölyesi.
5. **Aydın, S.** (1994). “Metallurgical Kinetics Lecture Notes”.

International Papers (SCI)

1. Gedikoğlu, N., Ersundu, A.E., Aydın, S., Çelikkilek Ersundu, M. Crystallization behavior of WO₃-MoO₃-TeO₂ glasses. Journal of Non-Crystalline Solids, Available online from 23 November 2017.
2. Guldiren D., Aydın S. (2017). “Antimicrobial property of silver, silver-zinc and silver-copper incorporated soda lime glass prepared by ion exchange.” Materials Science and Engineering C (78), 826-832.
3. Çelikkilek Ersundu M., Ersundu A.E., Sayyed M., Gandham L., Aydın S. (2017). “Evaluation of physical, structural properties and shielding parameters for K₂O–WO₃–TeO₂ glasses for gamma ray shielding applications”. Journal of Alloys and Compounds, (714), 278-286.
4. Guldiren D., Erdem İ., **Aydın S.**, “Chemical tempering of soda lime silicate glasses by ion exchange process for the improvement of surface and bulk mechanical strength” Journal of Non-Crystalline Solids, 473 (2017), 170-178.
5. Guldiren D., **Aydın S.**, “Characterization and Antimicrobial Properties of Soda Lime Glass Prepared by Silver/Sodium Ion Exchange” Materials Science and Engineering C, 67 (2016) 144-150.
6. Guldiren D., Erdem İ., **Aydın S.**, “Influence of Silver and Potassium Ion Exchange on Physical and Mechanical Properties of Soda Lime Glass” Journal of Non-Crystalline Solids, 441 (2016) 1-9.
7. Kavaklioglu, K., Celikkilek, M., Ersundu, A. E., & **Aydın, S.**, “ The TeO₂-Na₂O System: Thermal Behavior, Structural Properties and Phase Equilibria” International Journal of Applied Glass Science, 6/4 (2015) 406-418.
8. Çelikkilek M., Ersundu A.E., Özkan Zayim E., **Aydın S.**, “Thermochromic behavior of tellurite glasses” Journal of Alloys and Compounds, 637/637 (2015) 162- 170.

9. Ersundu, A., Celikbilek, M., Baazouzi, M., Soltani, M., Troles, J., & **Aydın, S.**, Characterization of new Sb₂O₃-based multicomponent heavy metal oxide glasses. *Journal Of Alloys And Compounds*, 615 (2014) 712-718.
10. Çelikbilek M., Ersundu A.E., **Aydın S.**, “Characterization of Glasses in the TeO₂-WO₃-Li₂O System” *Journal of Non-Crystalline Solids*, 378 (2013) 247-253.
11. Çelikbilek M., Ersundu A.E., **Aydın S.**, “Glass Formation and Characterization Studies in the TeO₂-WO₃-Na₂O” *Journal of the American Ceramic Society*, 96 (2013) 1470-1476.
12. Yardımcı D., Çelikbilek M., Ersundu A. E., **Aydın S.**, “Thermal and microstructural characterization and crystallization kinetic studies in the TeO₂-B₂O₃ system” *Materials Chemistry and Physics*, 137 (2013) 999-1006.
13. Ersundu A.E., Çelikbilek M., **Aydın S.**, “Characterization of B₂O₃ and/or WO₃ Containing Tellurite Glasses” *Journal of Non-Crystalline Solids*, 358 (2012) 641-647.
14. Karaduman G., Ersundu A.E., Çelikbilek M., Solak N., **Aydın S.**, “Phase equilibria and glass formation studies in the (1 - x)TeO₂ - xCdO (0.05 ≤ x ≤ 0.33 mol) system” *Journal of the European Ceramic Society*, 32 (2012) 603-610.
15. Ersundu A.E., Çelikbilek M., Solak N., **Aydın S.**, “Glass formation area and characterization studies in the CdO-WO₃-TeO₂ ternary system” *Journal of the European Ceramic Society*, 31 (2011) 2775-2781.
16. Çelikbilek M., Ersundu A.E., Solak N., **Aydın S.**, “Investigation on thermal and microstructural characterization of the TeO₂-WO₃ System” *Journal of Alloys and Compounds*, 509 (2011) 5646-5654.
17. Çelikbilek M., Ersundu A.E., Solak N., **Aydın S.**, “Crystallization Kinetics of TeO₂ - WO₃ Glasses” *Journal of Non-Crystalline Solids*, 357 (2011) 88-95.
18. Ersundu A.E., Karaduman G., Çelikbilek M., Solak N., **Aydın S.**, “Effect of Rare-Earth Dopants on the Thermal Behavior of Tungsten Tellurite Glasses” *Journal of Alloys and Compounds*, 508 (2010) 266-272.
19. Ersundu A.E., Karaduman G., Çelikbilek M., Solak N., **Aydın S.**, “Stability of the δ-TeO₂ Phase in the Binary and Ternary TeO₂ Glasses” *Journal of the European Ceramic Society*, 30 (2010) 3087-3092.
20. Gökçe A.S., Gürçan C., Özgen S., **Aydın S.**, “The Effect of Antioxidants on the Oxidation Behavior of Magnesia-Carbon Refractory Bricks” *Ceramics International* 34 (2008) 323-330.
21. Karadeniz E., Gürçan C., Özgen S., **Aydın S.**, “Properties of Alumina Based Low-Cement Self Flowing Castable Refractories” *Journal of the European Ceramic Society*, 27 (2007) 1849-1853.
22. Solak N., Üstel F., Ürgen M., **Aydın S.**, Çakır A. F., “Oxidation Behaviors of Molybdenum Nitride Coatings” *Surface and Coatings Technology*, Volumes 174-175, (September-October 2003), 713-719.

23. **Aydın S.**, Taptık Y., Arslan C., “Scrap, Recycling and Steel Production: A General Perspective and Turkey’s Standpoint”, *Ironmaking and Steelmaking*, vol.23, no.3, (1996), 242-246.
24. Taptık Y., **Aydın S.**, Dikeç F., “Die Türkische Stahlindustrie Heute”, *Stahl und Eisen*, 116, Nr.3, Marz (1996), 97-103.
25. Narçın N., **Aydın S.**, Şeşen K., Dikeç F., “Reduction of Iron Ore Pellets with Domestic Lignite Coal in Rotary Tube Furnace”, *International Journal of Mineral Processing*, 43, (1995), 49-59.
26. **Aydın S.**, Dikeç F., “The Removal of Alkalis From Iron Ores by Chloride Volatilization”, *Canadian Metallurgical Quarterly*, 29/3, (1990), 213-216.

Papers in Other Indexes (Non-SCI)

1. Kavaklıoğlu K.B., Celayir U., Ceren M., Gönülhan B., Jadidi P., Saraçoğlu K., Çelikbilek M., Ersundu A.E., Solak N., **Aydın S.**, “Glasses of TeO₂– ZnO System for Fiber-Optic Applications” *Anadolu University Journal of Science and Technology – A Applied Sciences and Engineering*, (2012).
2. Çelikbilek M., Karaduman G., Ersundu A.E., Solak N., Tatar D., **Aydın S.**, “Microstructural and Thermal Characterization of the TeO₂–WO₃ System” *Ceramic Materials*, 62 (2010), 556-559.
3. Gürcan C., Yücel O., **Aydın S.**, “Study About a Fused MgO Ingot Produced in a Laboratory Type DC Arc Furnace”, *Key Engineering Materials*, Vols. 264-268 (2004), 1407-1410.
4. Çamcı L., **Aydın S.**, Arslan C., “Reduction of Iron Oxides in Solid Wastes Generated by Steelworks”, *Turkish Journal of Engineering and Environmental Sciences*, vol.26, no.1, (2002), 37-45.
5. **Aydın S.**, Arslan C., Taptık Y., Dikeç F., “Turkish Iron and Steel Industry: Developments within the Last Fifteen Years”, *Steel World*, No:1, (1996), 95-101.

National Papers

1. **Aydın S.**, “Development of the Iron and Steel Industry in Turkey” *Dünya Gazetesi*, 22 Mart 2004.
2. Çamcı L., **Aydın S.**, “Methods for the Re-using the Solid Waste Produced in Integrated Iron and Steel Plants”, *Metalurji Dergisi*, Sayı 118, Cilt 23, (1999).
3. **Aydın S.**, “Liquid Iron Production with COREX Process”, *Metalurji Dergisi*, 90, (1994), 61-66.
4. **Aydın S.**, “New Processes in Liquid Iron Production”, *Metalurji Dergisi*, 74, (1991), 50-56.
5. Taptık Y., **Aydın S.**, "Recycling" phenomenon, Its Necessity, Implementation Principles and Contribution to Economy”, *Metalurji Dergisi*, 76, (1991), 32-41.

6. **Aydın S.**, “Steel Production and Scrap”, Dünya Gazetesi, (21/10/1991).
7. **Aydın S.**, “Steel Production and Scrap”, Metal Maden, 2/6, (1991), 21.
8. **Aydın S.**, Taptık Y., Dikeç F., “Scrap Iron and Steel in Turkey’s Industry”, Demir Çelik Dünyası, 12. Sayı, (1991), 36-38.
9. Narçın N., **Aydın S.**, “Sponge Iron and its use in Electric Arc Furnaces” Metalurji Dergisi, 77, (1991), 28-32.
10. **Aydın S.**, “Current Situation of World Sponge Iron Production” Metalurji Dergisi, 67/68, (1990), 41-46.
11. **Aydın S.**, Dikeç F., “Thermodynamic Principles of Removal of Alkalines in Iron Ore by Chloride Evaporation Method” Demir-Çelik, Karabük Ağır Sanayi Mühendisleri Derneği Yayın Organı, (1988), 14-18.

International Proceedings

1. Erdem İ., **Aydın S.** “Effect of Second Step in Ion Exchange Process on Mechanical Behavior of Soda Lime Silicate Glass” 4th International Ceramic, Glass, Porcelain, Enamel, Glaze and Pigment Congress (SERES’18), Eskişehir, Turkey, (2018).
2. Erdem İ., Guldiren, D., **Aydın S.** “Application of Two-Stepped Ion Exchange on Soda Lime Glass for Mechanical Improvement” 19th International Metallurgy & Materials Congress (IMMC 2018), Istanbul, Turkey (2018).
3. Erserin S., Özel A, Guldiren D., Erdem İ., **Aydın S.** “Strengthening Of Soda Lime Glasses Using Molten Salt Bath And Salt Paste Applications Via Ion Exchange” 25th International Congress On Glass (ICG 2017)
4. Erdem İ., Guldiren D., **Aydın S.** “Variations In The Application Methods Of Ion Exchange For Chemical Strengthening Purposes” 25th International Congress On Glass (ICG 2017),
5. Kıbrıslı O. Çelikkilek Ersundu M., **Aydın S.**, Ersundu A.E. 2017. Investigation of Crystallization Behavior of Photo-Thermo-Refractive (PTR) Glasses. 12th International Symposium on Crystallization in Glasses and Liquids,
6. Gedikoğlu N., Ersundu A.E., **Aydın S.**, Çelikkilek Ersundu M. 2017. Investigating the crystallization behavior of WO₃-MoO₃-TeO₂ Glasses. 12th International Symposium on Crystallization in Glasses and Liquids.
7. Tunç İ., Ersundu A.E., **Aydın S.**, Çelikkilek E.M. “Synthesis and Growth Kinetic Studies of ZnTe Quantum Dot-doped Glass Nanocomposites” 12th International Symposium on Crystallization in Glasses and Liquids, September ,2017, Spain.
8. Guldiren D., Erdem İ., **Aydın S.**, “Silver Containing Antimicrobial Soda Lime Glass Prepared By Ion Exchange”, 18th International Metallurgical and Materials Congress (IMMC), 2016, İstanbul, Türkiye.
9. Erdem İ., Guldiren D., **Aydın S.**, “Surface Modification of Soda-Lime Glass by Ionic Exchange” 24th International Congress on Glass (ICG), Shanghai, China, 2016.

10. Gldiren D., Erdem İ., **Aydın S.**, “Characterization of Glass Powders Prepared by Ag⁺/Na⁺ Ion Exchange”, 24th International Congress on Glass (ICG), Shanghai, China, 2016.
11. Çelikbilek M., Ersundu A.E., Soltani M.T., **Aydın S.**, “ Thermal Structural and Elastic Measurements of TMO-doped potassium tellurite glasses”, 24th International Congress on Glass (ICG), Shanghai, China, 2016.
12. Özçivi A.O., Özkan A., Enginsoy A., Ulaştı E., Dursun Ö.S., Erserin S., Gldiren D., **Aydın S.**, “Preparation and Properties of Silver, Zinc and Copper Doped Borosilicate Glass”, 24th International Congress on Glass (ICG), Shanghai, China, 2016.
13. Çulhaođlu S., Ersundu A.E., Çelikbilek Ersundu M., **Aydın S.**, “Investigation of Photocatalytic Activity of Boron and Nitrogen Doped TiO₂ Thin Films”, 24th International Congress on Glass (ICG), Shanghai, China, 2016.
14. Gldiren D., Erdem I., **Aydın S.**, “Experimental Studies on Investigating Silver Containing Soda-Lime Glasses Prepared by Ion Exchange Process” 144th TMS Annual Meeting and Exhibition, Orlando, Florida, USA, 2015.
15. Erdem I., Gldiren D., **Aydın S.**, “Effect Of K⁺-Na⁺ Ion Exchange On Soda-Lime Glasses” 144th TMS Annual Meeting and Exhibition, Orlando, Florida, USA, 2015.
16. Ersundu, A.E., Çelikbilek, M., Toufik, S., **Aydın, S.**, “New Multicomponent Antimonite Glasses for Non-Linear Optical Applications” 144th TMS Annual Meeting and Exhibition, Orlando, Florida, USA, 2015.
17. Özdemir, M. C., Çelikbilek, M., Ersundu, A. E., **Aydın, S.**, “Sol-Gel Dip Coated VO₂-based Thin Films for Smart Window Applications” 144th TMS Annual Meeting and Exhibition, Orlando, Florida, USA, 2015.
18. Gldiren D., Erdem İ., **Aydın S.**, “Effects of Bath Concentration and Temperature on Silver Content of Soda-lime Glasses Prepared by Ion Exchange Process”, 12th Conference of the European Society of Glass Science and Technology (ESG 2014), Parma, Italy (2014).
19. Erdem İ., Gldiren D., **Aydın S.**, “Improvement of Mechanical Properties of Alkali Containing Silicate-Based Glass via Ion Exchange”, 12th Conference of the European Society of Glass Science and Technology (ESG 2014), September 2014, Parma, Italy.
20. Özdemir, M., Çelikbilek, M., Ersundu, A., **Aydın, S.** “Preparation and Characterization of Sol-Gel Based VO₂ Thin Film Coated Glasses”, 12th Conference of the European Society of Glass Science and Technology (ESG 2014), September 2014, Parma, Italy.
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ATTENDED ORGANISATIONS

1. 19th International Metallurgy & Materials Congress (IMMC 2018), Istanbul, Turkey (2018).
2. 25th International Congress on Glass (ICG), İstanbul, Türkiye, (2017).
1. 18th International Metallurgy & Materials Congress (IMMC 2016), Istanbul, Turkey (2016).
2. 24th International Congress on Glass (ICG), Shanghai, China, (2016).
3. 144th TMS Annual Meeting and Exhibition, Orlando, Florida, USA, (2015).
4. 12th European Society of Glass Conference (ESG 2014), Parma, Italy, (2014).
5. 17th International Metallurgy & Materials Congress (IMMC 2014), Istanbul, Turkey (2014).

6. 23rd International Glass Congress (ICG'13), Prague, Czech Republic (2013).
7. Materials Science and Technology Conference and Exhibition (MS&T'12), Pittsburgh, Pennsylvania, U.S.A. (2012).
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25. International Conference on Clean Technologies in the Steel Industry, Balatonfüred, Hungary, 6-8 June 2005.

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AWARDS

- İTÜ 2013 Best Doctoral Thesis prepared by Ali Erçin Ersundu (Prof. Dr. Süheyla Aydın as Thesis Administrator)

Ali Erçin Ersundu “Determination of The Glass Properties and Phase Equilibria of the Ternary Tellurium Oxide Based Systems Through Thermal, Kinetic and Structural Investigations”.

MEMBERSHIPS

- American Ceramic Society
- Chamber of Metallurgical Engineers