

Prof. Miray ÇELİKBİLEK ERSUNDU

Personal Information

Office Phone: [+90 212 383 4688](tel:+902123834688)

Fax Phone: [+90 212 383 4662](tel:+902123834662)

Other Email: miraycelikbilek@gmail.com

Web: <http://www.glass.yildiz.edu.tr>

Address: Yıldız Teknik Üniversitesi Davutpaşa Kampüsü Kimya Metalurji Fakültesi Metalurji ve Malzeme Mühendisliği A 316, 34220, Esenler, İstanbul

International Researcher IDs

ScholarID: CKF9EL4AAAAJ

ORCID: 0000-0002-9828-7147

Publons / Web Of Science ResearcherID: L-7685-2013

ScopusID: 26653353700

Yoksis Researcher ID: 215160

Biography

Prof. Dr. Miray Çelikbilek Ersundu received her BSc, MSc and PhD degrees from Istanbul Technical University, Department of Metallurgical and Materials Engineering in 2008, 2009 and 2013, respectively. In 2014, she started to work as a faculty member in the Department of Metallurgical and Materials Engineering at Yıldız Technical University. She was awarded the title of associate professor and full professor in 2018 and 2023, respectively. She continues to carry out her research at the Glass Research Laboratory of which she is the co-founder.

Prof. Dr. Miray Çelikbilek Ersundu is in the vision of developing solutions for the main problems of today's world such as, energy efficiency, recycling, and carbon emissions, by using the new generation glass and glass-ceramics developed for many advanced technological application areas. Recently, she has focused on glass and glass nanocomposites with color conversion properties, and by synthesizing lanthanides and quantum dots together directly in thermally and chemically durable glass matrices, she prevented the stability and decay problems of quantum dots and ensured that the light properties were preserved for a long time. She paved the way for the integration of glass and glass nanocomposites into next-generation opto-electronic and photonic applications such as solid-state lighting (LED), luminescent solar concentrators for use in building integrated photovoltaics, three-dimensional volumetric displays, optical temperature sensors and anti-counterfeiting applications.

To date, Prof. Dr. Miray Çelikbilek Ersundu has worked as the principal investigator in 5 TUBITAK (1 International), 1 Ministry of Industry, 1 KOSGEB, 16 BAP projects, and as a researcher in 1 Horizon Europe, 7 TUBITAK (1 International), 1 KOSGEB and 11 BAP projects. She has 55 articles published in internationally indexed journals, 3 international book chapters, 81 international and 9 national conference presentations. As of January 2025, her articles were cited 2470 times according to the Google Scholar citation index (h-index 27), and 1837 times according to the web of science index (h-index 24). In addition, she has 4 national and international patent applications that are still under examination.

In 2022, she was deemed worthy of the Turkish Academy of Sciences (TÜBA)-Outstanding Young Scientist (GEBİP)

award and became a member of the TÜBA Young Academy.

Miray Çelikbilek Ersundu is married and has one little boy.

Education Information

Doctorate, Istanbul Technical University, Kimya Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey
2009 - 2013

Postgraduate, Istanbul Technical University, Kimya Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü,
Turkey 2008 - 2009

Undergraduate, Istanbul Technical University, Kimya Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü,
Turkey 2004 - 2008

Foreign Languages

French, C1 Advanced

English, B2 Upper Intermediate

Dissertations

Doctorate, Tellürit Sistemlerin Camlaşma Davranışlarının, Cam Özelliklerinin ve Termokromik Davranışlarının
İncelenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği, 2013

Postgraduate, TeO₂-WO₃ Sisteminin Termal ve Mikroyapısal İncelenmesi, İstanbul Teknik Üniversitesi, Fen Bilim
Enstitüsü, Üretim Metalurjisi , 2009

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Optical Properties, Electrical and Magnetic
Properties, Glass Technology and Glass Ceramics, Nanomaterials, Thermal Properties, Engineering and Technology

Academic Titles / Tasks

Professor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical
And Materials Engineering, 2023 - Continues

Associate Professor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of
Metallurgical And Materials Engineering, 2018 - 2023

Assistant Professor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of
Metallurgical And Materials Engineering, 2018 - 2018

Assistant Professor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of
Metallurgical And Materials Engineering, 2014 - 2018

Courses

Doctorate

Üretim Metalurjisi Termodinamiği , Doctorate, 2017 - 2018

Postgraduate

Basic Metallurgical Diagrams, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Undergraduate

Graduation Project, Undergraduate, 2018 - 2019

Seramik Teknolojilerinde Tasarım Uygulamaları, Undergraduate, 2019 - 2020, 2018 - 2019

Principles of Extractive Metallurgy, Undergraduate, 2018 - 2019

Glass Technology, Undergraduate, 2019 - 2020, 2018 - 2019

Thermodynamics of Solution, Undergraduate, 2018 - 2019

Thermodynamics of Materials, Undergraduate, 2018 - 2019

Metallurgy Kinetics, Undergraduate, 2018 - 2019

Materials Thermodynamics 2, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Principles of Extractive Metallurgy , Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Kinetics, Undergraduate, 2016 - 2017, 2015 - 2016

Metalurji Laboratuvarı, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Ore Dressing, Undergraduate, 2017 - 2018, 2016 - 2017

Tasarım Uygulamaları, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Bitirme Çalışması, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015

Materials Thermodynamics 1, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Glass Technology, Undergraduate, 2015 - 2016, 2014 - 2015

Hydrometallurgy, Undergraduate, 2014 - 2015

Supervised Theses

Çelikkbilek Ersundu M., Development of ZrO₂-SiO₂ glass ceramics and investigation of their optical and mechanical properties, Doctorate, Y.Çelik(Student), Continues

Çelikkbilek Ersundu M., Development of NIR Excited Lanthanide-Doped Monolithic Glasses For Volumetric Displays, Doctorate, N.Vahedighrehchopogh(Student), Continues

Çelikkbilek Ersundu M., Investigation the effect of electric field assisted ion exchange process on chemical tempering efficiency, Postgraduate, Ö.Doğukan(Student), Continues

Çelikkbilek Ersundu M., Enerji Tasarrufu Sağlayan Low-E Kaplamalı Camların Geliştirilmesi, Postgraduate, H.Can(Student), Continues

Çelikkbilek Ersundu M., Üst enerji dönüşüm yöntemi ile lüminesans özellikli nadir toprak elementi katkı camlarının geliştirilmesi, Doctorate, B.Özlem(Student), Continues

Çelikkbilek Ersundu M., İnce Camların Kimyasal Temperleme Prosesine Banyo Kirliliğinin Etkilerinin İncelenmesi ve Banyo Tuzunun Rejenerasyonu , Doctorate, N.Özben(Student), Continues

Çelikkbilek Ersundu M., Cam Seramik Malzemelerin Kimyasal Temperleme ile Güçlendirilmesi, Doctorate, A.Caner(Student), Continues

Çelikkbilek Ersundu M., Fosfat -Esaslı Camların Çözünme Davranışlarının İncelenmesi ve Kontrollü Salımlı Gübre Olarak Kullanılabilirliklerinin Araştırılması, Postgraduate, B.Kuzu(Student), 2021

Çelikkbilek Ersundu M., Fotovoltaik sistemlerde kullanılan desenli ince camların kimyasal temperlenmesi, Postgraduate, G.Terzi(Student), 2020

Çelikkbilek Ersundu M., İnce Camların Kimyasal Temperlenmesi, Postgraduate, B.Demir(Student), 2020

Çelikkbilek Ersundu M., Investigation of Luminescence and Up-conversion Properties of Holmium, Thulium and Ytterbium Ions Triply-doped Tellurite Glasses, Postgraduate, N.Vahedigharehchopogh(Student), 2020

Çelikkbilek Ersundu M., Farklı Al₂O₃ Oranlarına Sahip Alümina Silikat ve Soda Kireç Silikat Camların Kimyasal Temperlenme Davranışlarının İncelenmesi, Postgraduate, A.Caner(Student), 2019

Çelikkbilek Ersundu M., Alümina Silikat ve Soda Kireç Silikat Camların Kimyasal Temperlenmesinde Kalınlık ve Kesme Etkisinin İncelenmesi, Postgraduate, B.Kayacan(Student), 2018

Çelikkbilek Ersundu M., Synthesis and Investigation of Transition Metal Oxide-doped Heavy Metal Oxide Glasses for Their Evaluation as Large Band Gap Semiconductors, Postgraduate, N.Gedikoğlu(Student), 2018

Çelikkbilek Ersundu M., ZnTe Kuantum Nokta Katkılı Camların Geliştirilmesi ve Kuantum Kısıtlama Özelliklerinin İncelenmesi, Postgraduate, İ.Tunç(Student), 2017

Research Infrastructure Information

Çelikkbilek Ersundu M., Ersundu A. E., Cam Araştırma Laboratuvarı, November 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Full-color dynamic volumetric displays with tunable upconversion emission from RE³⁺-doped glasses (RE = Ho, Tm, Nd, Yb) under NIR laser excitation**
EKİM U., Özkutay D., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
Light: Science and Applications, vol.14, no.1, 2025 (SCI-Expanded)
- II. **Sm^{2O3}-doped CsPbBr₃ perovskite quantum dot glass nanocomposites for enhanced plant growth lighting**
EKİM U., İLTER E., Çelik H. S., Genç A., Slater T. J., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
Materials Today Chemistry, vol.45, 2025 (SCI-Expanded)
- III. **Tunable photoluminescence and energy transfer in Dy³⁺ and Eu³⁺ co-doped NaCaGd(WO₄)₃ phosphors for pc-WLED applications**
EKİM U., Kachou I., Kallel T., Dammak M., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
Dalton Transactions, vol.54, no.8, pp.3414-3426, 2025 (SCI-Expanded)
- IV. **Investigation of Thermal and Spectroscopic Properties of Tellurite-Based Glasses Doped with Rare-Earth Oxides for Infrared Solid-State Lasers**
Boussetta A., Al-Syadi A. M., Damak K., ERSUNDU A. E., ÇELİKBİLEK ERSUNDU M., Ramadan E., Alshehri A. M., Hussein K. I., Maalej R., Yousef E. S.
Materials, vol.17, no.15, 2024 (SCI-Expanded)
- V. **Optimizing optical thermometry with tri-doped Ba₂GdV₃O₁₁ phosphors: Ratiometric and fluorescence lifetime analysis**
Kachou I., Saidi K., EKİM U., Dammak M., ÇELİKBİLEK ERSUNDU M., Erçin Ersundu A. E.
Heliyon, vol.10, no.9, 2024 (SCI-Expanded)
- VI. **Advanced temperature sensing with Er³⁺/Yb³⁺ co-doped Ba₂GdV₃O₁₁ phosphors through upconversion luminescence**
Kachou I., Saidi K., EKİM U., Dammak M., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
Dalton Transactions, vol.53, no.5, pp.2357-2372, 2024 (SCI-Expanded)
- VII. **Glass-based LED system for indoor horticulture: enhanced plant growth through Sm³⁺ and Tm³⁺ co-doped luminescent glasses**
EKİM U., İlter E., Özcan E., Temürhan Y., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
Physical Chemistry Chemical Physics, vol.25, no.34, pp.23150-23163, 2023 (SCI-Expanded)
- VIII. **The coupling of blue emitting carbon dots with Eu³⁺/Tb³⁺ co-doped luminescent glasses for utilization in white light emitting diodes**
Korkmaz U., Özlem B., EROL E., Alas M. Ö., Genç Altürk R., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
Physical Chemistry Chemical Physics, vol.25, no.16, pp.11452-11463, 2023 (SCI-Expanded)
- IX. **Thermal, optical, structural, and electrical properties of ZnO–MoO₃–TeO₂ glasses**
ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E., Bošák O., Kubliha M., Kostka P.
Ceramics International, vol.49, no.8, pp.12950-12958, 2023 (SCI-Expanded)
- X. **Bright white light emission from blue emitting carbon dot-coated Dy³⁺-doped luminescent glasses**
özlem B., Korkmaz U., EROL E., Alai M. o., Meray Z., Altuerk R. G., Ersundu M., Ersundu A. E.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.926, 2022 (SCI-Expanded)
- XI. **Recyclability of CsPbBr₃ quantum dot glass nanocomposites for their long-standing use in white**

LEDs

Vahedigharehchopogh N., EROL E., Kibrishli O., Genc A., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
JOURNAL OF MATERIALS CHEMISTRY C, vol.10, no.42, pp.16088-16099, 2022 (SCI-Expanded)

- XII. **Ultra-stable Eu³⁺/Dy(3+)co-doped CsPbBr₃ quantum dot glass nanocomposites with tunable luminescence properties for phosphor-free WLED applications**
EROL E., Vahedigharehchopogh N., EKİM U., Uza N., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.909, 2022 (SCI-Expanded)
- XIII. **Synthesis and characterization of newly developed phosphate-based glasses through experimental gamma-ray and neutron spectroscopy methods: Transmission and dose rates**
KAVAZ E., Ersundu M., ERSUNDU A. E., Tekin H.
CERAMICS INTERNATIONAL, vol.48, no.10, pp.13842-13849, 2022 (SCI-Expanded)
- XIV. **CdSe and CsPbBr₃ quantum dot Co-doped monolithic glasses as tunable wavelength convertors**
Kibrishli O., Erol E., ERSUNDU A. E., Ersundu M.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.55, no.10, 2022 (SCI-Expanded)
- XV. **Structural properties and dissolution behavior of new generation controlled release phosphate glass fertilizers**
ÇELİKBİLEK ERSUNDU M., Kuzu B., ERSUNDU A. E.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.576, 2022 (SCI-Expanded)
- XVI. **Color tunable emission from Eu³⁺ and Tm³⁺ co-doped CsPbBr₃ quantum dot glass nanocomposites**
Erol E., Kibrishli O., Ersundu M., ERSUNDU A. E.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.24, no.3, pp.1486-1495, 2022 (SCI-Expanded)
- XVII. **Recent progress in lanthanide-doped luminescent glasses for solid-state lighting applications-a review**
EROL E., Vahedigharehchopogh N., Kibrishli O., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.33, no.48, 2021 (SCI-Expanded)
- XVIII. **Robust CsPbBr₃ and CdSe/Dy³⁺+CdSe quantum dot doped glass nanocomposite hybrid coupling as color converter for solid-state lighting applications**
Kibrishli O., Erol E., Çelikbilek Ersundu M., Ersundu A. E.
CHEMICAL ENGINEERING JOURNAL, vol.420, 2021 (SCI-Expanded)
- XIX. **Novel HMO-Glasses with Sb₂O₃ and TeO₂ for Nuclear Radiation Shielding Purposes: A Comparative Analysis with Traditional and Novel Shields**
Almised G., Tekin H. O., Issa S. A. M., Ersundu M., Ersundu A. E., Kılıç G., Zakaly H. M. H., Ene A.
MATERIALS, vol.14, no.15, 2021 (SCI-Expanded)
- XX. **A thorough investigation of the Bi₂O₃-PbCl₂-TeO₂ system: Glass forming region, thermal, physical, optical, structural, mechanical and radiation shielding properties**
ERSUNDU A. E., Sayyed M., Kibrishli O., Akıllı V., ÇELİKBİLEK ERSUNDU M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.857, 2021 (SCI-Expanded)
- XXI. **A straightforward approach for high-end anti-counterfeiting applications based on NIR laser-driven lanthanide doped luminescent glasses**
Vahedigharehchopogh N., Kibrishli O., Erol E., Çelikbilek Ersundu M., Ersundu A. E.
JOURNAL OF MATERIALS CHEMISTRY C, vol.9, no.6, pp.2037-2046, 2021 (SCI-Expanded)
- XXII. **Size-controlled emission of long-time durable CsPbBr₃ perovskite quantum dots embedded tellurite glass nanocomposites**
Erol E., Kibrishli O., Çelikbilek Ersundu M., Ersundu A. E.
CHEMICAL ENGINEERING JOURNAL, vol.401, 2020 (SCI-Expanded)
- XXIII. **Noninvasive Optical Temperature Sensing Behavior of Ho³⁺ and Ho³⁺/Er³⁺ Doped Tellurite Glasses Through Up and Down-Converted Emissions**
Kibrishli O., Erol E., Vahedigharehchopogh N., Yousef E. S., Çelikbilek Ersundu M., Ersundu A. E.
Sensors And Actuators A-Physical, vol.315, pp.112321, 2020 (SCI-Expanded)
- XXIV. **The synergistic effect of Er³⁺ and Ho³⁺ on temporal color tuning of upconversion emission in a glass host via a facile excitation modulation technique for anti-counterfeiting applications**

- Erol E., Kıbrıslı O., Vahedigharehchopogh N., Çelıkbılek Ersundu M., Ersundu A. E.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.22, no.44, pp.25963-25972, 2020 (SCI-Expanded)
- XXV. **Stress in ion exchanged soda-lime silicate and sodium aluminosilicate glasses: Experimental and theoretical comparison**
Macrelli G., Özben N., Kayaalp A. C., ÇELİKBİLEK ERSUNDU M., Sökmen İ.
International Journal of Applied Glass Science, vol.11, no.4, pp.730-742, 2020 (SCI-Expanded)
- XXVI. **Investigation the effect of weathering on chemically strengthened flat glasses**
Gösterişlioğlu Y., Ersundu A. E., Çelıkbılek Ersundu M., Sökmen İ.
Journal of Non-Crystalline Solids, vol.544, 2020 (SCI-Expanded)
- XXVII. **A comparative study on WO₃ + MoO₃ containing TeO₂ and Sb₂O₃-based heavy metal oxide glasses**
ERSUNDU A. E., ÇELİKBİLEK ERSUNDU M., Gedikoğlu N.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.541, 2020 (SCI-Expanded)
- XXVIII. **Instantaneous Color Tuning of Upconversion Emission in a Novel Lanthanide-Doped Monolithic Glass via Excitation Modulation**
Kıbrıslı O., Vahedigharehchopogh N., Ersundu A. E., Çelıkbılek Ersundu M.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.124, pp.10687-10695, 2020 (SCI-Expanded)
- XXIX. **A comparative investigation on thermal, structural and optical properties of W and Nb-doped VO₂-based thermochromic thin**
Ersundu A. E., Çelıkbılek Ersundu M., Doğan E., Güven M.
THIN SOLID FILMS, vol.700, 2020 (SCI-Expanded)
- XXX. **Color tunability and white light generation through up-conversion energy transfer in Yb³⁺+sensitized Ho³⁺/Tm³⁺ doped tellurite glasses**
Vahedigharehchopogh N., Kıbrıslı O., Ersundu A. E., Çelıkbılek Ersundu M.
Journal of Non-Crystalline Solids, vol.525, 2019 (SCI-Expanded)
- XXXI. **Physical, mechanical and gamma-ray shielding properties of highly transparent ZnO-MoO₃-TeO₂ glasses**
Çelıkbılek Ersundu M., Ersundu A. E., Gedikoglu N., Şakar E., Buyıkyıldız M., Kurudirek M.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.524, 2019 (SCI-Expanded)
- XXXII. **Dy³⁺ doped tellurite glasses for solid-state lighting: An investigation through physical, thermal, structural and optical spectroscopy studies**
Kıbrıslı O., Ersundu A. E., Çelıkbılek Ersundu M.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.513, pp.125-136, 2019 (SCI-Expanded)
- XXXIII. **Crystallization behaviour and growth kinetics of ZnTe in soda-lime-silica glass nanocomposites**
Ersundu M.
PHYSICS AND CHEMISTRY OF GLASSES-EUROPEAN JOURNAL OF GLASS SCIENCE AND TECHNOLOGY PART B, vol.60, pp.15-20, 2019 (SCI-Expanded)
- XXXIV. **Crystallization behavior of WO₃-MoO₃-TeO₂ glasses**
Gedikoğlu N., Ersundu A. E., Aydın S., Çelıkbılek Ersundu M.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.501, pp.93-100, 2018 (SCI-Expanded)
- XXXV. **Investigating the influence of transition metal oxides on temperature dependent optical properties of PbCl₂-TeO₂ glasses for their evaluation as transparent large band gap semiconductors**
Gedikoğlu N., Çelıkbılek Ersundu M., Kostka P., Bašinová N., Ersundu A. E.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.748, pp.687-693, 2018 (SCI-Expanded)
- XXXVI. **Investigation on gamma and neutron radiation shielding parameters for BaO/SrO-Bi₂O₃-B₂O₃ glasses**
Sayyed M. I., Lakshminarayana G., Dong M. G., Çelıkbılek Ersundu M., Ersundu A. E., Kityk I. V.
RADIATION PHYSICS AND CHEMISTRY, vol.145, pp.26-33, 2018 (SCI-Expanded)
- XXXVII. **The heavy metal oxide glasses within the WO₃-MoO₃-TeO₂ system to investigate the shielding properties of radiation applications**
Ersundu A. E., Buyukyıldız M., Çelıkbılek Ersundu M., Şakar E., Kurudirek M.
PROGRESS IN NUCLEAR ENERGY, vol.104, pp.280-287, 2018 (SCI-Expanded)

- XXXVIII. **Investigation of radiation shielding properties for MeO-PbCl₂-TeO₂ (MeO = Bi₂O₃, MoO₃, Sb₂O₃, WO₃, ZnO) glasses**
Sayyed M. I., Çelikbilek Ersundu M., Ersundu A. E., Lakshminarayana G., Kostka P.
RADIATION PHYSICS AND CHEMISTRY, vol.144, pp.419-425, 2018 (SCI-Expanded)
- XXXIX. **Evaluation of physical, structural properties and shielding parameters for K₂O-WO₃-TeO₂ glasses for gamma ray shielding applications**
Çelikbilek Ersundu M., Ersundu A. E., Sayyed M. I., Lakshminarayana G., Aydın S.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.714, pp.278-286, 2017 (SCI-Expanded)
- XL. **Investigation of gamma radiation shielding properties of lithium zinc bismuth borate glasses using XCOM program and MCNP5 code**
Dong M. G., Sayyed M. I., Lakshminarayana G., Çelikbilek Ersundu M., Ersundu A. E., Nayar P., Mahdi M. A.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.468, pp.12-16, 2017 (SCI-Expanded)
- XLII. **Crystallization kinetics of new heavy metal oxide glasses within the Sb₂O₃-Na₂O-WO₃-PbO system**
Çelikbilek Ersundu M., Ersundu A. E., Soltani M. T., Baazouzi M.
CERAMICS INTERNATIONAL, vol.43, pp.491-497, 2017 (SCI-Expanded)
- XLIII. **Structure and crystallization kinetics of lithium tellurite glasses**
Çelikbilek Ersundu M., Ersundu A. E.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.453, pp.150-157, 2016 (SCI-Expanded)
- XLIV. **The TeO₂-Na₂O System: Thermal Behavior, Structural Properties, and Phase Equilibria**
Kavaklioglu K. B., Aydın S., Çelikbilek M., Ersundu A. E.
INTERNATIONAL JOURNAL OF APPLIED GLASS SCIENCE, vol.6, pp.406-418, 2015 (SCI-Expanded)
- XLV. **Thermochromic behavior of tellurite glasses**
Celikbilek M., ERSUNDU A. E., Zayim E., Aydın S.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.637, pp.162-170, 2015 (SCI-Expanded)
- XLVI. **Characterization of new Sb₂O₃-based multicomponent heavy metal oxide glasses**
Ersundu A. E., Çelikbilek M., Baazouzi M., Soltani M. T., Troles J., Aydın S.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.615, pp.712-718, 2014 (SCI-Expanded)
- XLVII. **Preparation and and characterization of TeO₂-WO₃-Li₂O glasses**
Çelikbilek M., Ersundu A. E., Aydın S.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.378, pp.247-253, 2013 (SCI-Expanded)
- XLVIII. **Glass Formation and Characterization Studies in the TeO₂-WO₃-Na₂O System**
Çelikbilek M., Ersundu A. E., Aydın S.
JOURNAL OF THE AMERICAN CERAMIC SOCIETY, vol.96, pp.1470-1476, 2013 (SCI-Expanded)
- XLIX. **Thermal and microstructural characterization and crystallization kinetic studies in the TeO₂-B₂O₃ system**
Yardimci D., Çelikbilek M., Ersundu A. E., Aydın S.
MATERIALS CHEMISTRY AND PHYSICS, vol.137, pp.999-1006, 2013 (SCI-Expanded)
- L. **Phase equilibria and glass formation studies in the (1-x)TeO₂-xCdO (0.05 ≤ x ≤ 0.33 mol) system**
Karaduman G., Ersundu A. E., Celikbilek M., Solak N., Aydın S.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.32, no.3, pp.603-610, 2012 (SCI-Expanded)
- LI. **Characterization of B₂O₃ and/or WO₃ containing tellurite glasses**
Ersundu A. E., Çelikbilek M., Aydın S.
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- VIII. **The Effect of Weathering on Chemical Strengthened Thin Glasses**
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- IX. **Effect of CdSe and ZnSe on Spectroscopic Properties of White Light Emitting Dy³⁺-Doped Tellurite Glasses**
Kibrıslı O., Ersundu A. E., Çelikbilek Ersundu M.
25th International Congress on Glass (ICG 2019), Massachusetts, United States Of America, 9 - 14 June 2019, pp.160
- X. **Comparative Study on Structural and Electrical Properties of TeO₂ and Sb₂O₃-Based Glasses**
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Kibrıslı O., Çelikbilek Ersundu M., Ersundu A. E.
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- XVIII. **Ion Exchange Strengthening of Silicate Glasses**
Kayaalp C., Kayacan B., Özben N., Atılğan S., Ögüt B., Simurka L., Güldiren D., Okan O. B., Çelikbilek Ersundu M., Sökmen İ.

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Kayacan B., Kayaalp A. C., Özben N., Okan B. O., Ögüt B., Sökmen İ., Ersundu A. E., Çelikkbilek Ersundu M.
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- XX. **Comparative radiation shielding study of WO₃/Bi₂O₃-PbCl₂-TeO₂ glass systems as transparent shielding materials**
Akıllı V., Terzi G., Çelikkbilek Ersundu M., Ersundu A. E.
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- XXI. **Comparison of TeO₂ and Sb₂O₃ as Heavy Metal Oxide Glass Formers**
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- XXIII. **The Effect of Nb-doping on thermochromic behavior of VO₂-based thin films forenergy-efficient windows**
Doğan E., Çelikkbilek Ersundu M., Ersundu A. E.
15th International Conference on the Physics of Non-Crystalline Solids & 14th ESG Conference, Brittany, France, 9 - 13 July 2018, pp.510
- XXIV. **Comparison on Chemical Tempering Behavior of Commercial Aluminosilicate and Soda Lime Silicate Glasses**
Kayaalp A. C., Kayacan B., Özben N., Sökmen İ., Ersundu A. E., Çelikkbilek Ersundu M.
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- XXV. **The Effect of Glass Thickness on Chemical Tempering Efficiency**
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- XXVI. **Temperature Dependent Optical and Electrical Properties of Sb₂O₃ and TeO₂-based Heavy Metal Oxide Glasses**
Kırışlı O., Gedikoğlu N., Çelikkbilek Ersundu M., Ersundu A. E.
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- XXX. **Investigating the Crystallization Behavior of WO₃-MoO₃-TeO₂ Glasses**
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12th International Symposium on Crystallization in Glasses and Liquids, Segovia, Spain, 10 - 13 September 2017, pp.126

XXXI. Investigation of Crystallization Behavior of Photo-Thermo-Refractive (PTR) Glasses

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XXXII. Synthesis and Growth Kinetic Studies of ZnTe Quantum Dot-doped Glass Nanocomposites

Tunç İ., Ersundu A. E., Aydın S., Çelikbilek Ersundu M.

12th International Symposium on Crystallization in Glasses and Liquids, Segovia, Spain, 10 - 13 September 2017, pp.127

XXXIII. Tellurite glasses as alternative gamma shielding materials

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Turkish Physical Society 33th International Physics Congress, Muğla, Turkey, 06 September 2017, pp.23

XXXIV. Synthesis of Thermochromic VO₂ Thin Films for Use in Smart Glass Systems

Doğan E., Güven M. B., Çelikbilek Ersundu M., Ersundu A. E.

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XXXV. Preparation and Characterization of W-doped Thermochromic VO₂ Thin Films

Güven M. B., Doğan E., Çelikbilek Ersundu M., Ersundu A. E.

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XXXVI. Holografik Kayıt Malzemeleri

Kıbrıslı O., Ersundu A. E., Çelikbilek Ersundu M.

Ulusal Holografi Konferansı, İstanbul, Turkey, 29 November 2016, pp.6

XXXVII. Investigation of Photocatalytic Activity of Boron or/and Nitrogen-doped TiO₂

Çulhaoğlu S., Ersundu A. E., Çelikbilek Ersundu M., Aydın S.

24th International Congress on Glass (ICG 2016), Shanghai, China, 7 - 11 April 2016, pp.367

XXXVIII. Thermal, Structural and Elastic Measurements of TMO-doped Potassium Tellurite Glasses

Çelikbilek Ersundu M., Ersundu A. E., Soltani M. T., Aydın S.

24th International Congress on Glass (ICG 2016), Shanghai, China, 7 - 11 April 2016, pp.215

XXXIX. Bor ve Azot Katkılı TiO₂ İnce Filmlerin Fotokatalitik Aktivitelerinin İncelenmesi

Çulhaoğlu S., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.

9. Uluslararası Katılımlı Seramik Kongresi, Afyon, Turkey, 26 - 28 November 2015, pp.114

XL. New Multicomponent Antimonite Glasses for Non-Linear Optical Applications

Ersundu A. E., Çelikbilek Ersundu M., Soltani M. T., Aydın S.

TMS 2015 Annual Meeting & Exhibition, Florida, United States Of America, 15 - 19 March 2015, pp.211

XLI. Sol-Gel Dip Coated VO₂-based Thin Films for Smart Window Applications

Özdemir M. C., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.

TMS 2015 Annual Meeting & Exhibition, Florida, United States Of America, 15 - 19 March 2015, pp.211

XLII. Investigation of Thermochromism in Alkali-Tungsten-Tellurite Glasses

Çelikbilek Ersundu M., Ersundu A. E., Zayim E., Aydın S.

12th ESG Conference, Parma, Italy, 21 - 24 September 2014, pp.142

XLIII. Kinetic Investigation of New Heavy Metal oxide Glasses Based on Sb₂O₃

Ersundu A. E., Baazouzi M., Çelikbilek Ersundu M., Soltani M. T., Aydın S.

12th ESG Conference, Parma, Italy, 21 - 24 September 2014, pp.126

XLIV. Preparation and Characterization of Sol-Gel Based VO₂ Thin Film Coated Glasses

Özdemir M., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.

12th ESG Conference, Parma, Italy, 21 - 24 September 2014, pp.207

XLV. Low Cost Preparation of VO₂-Based Thermochromic Thin Films

Özdemir M., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.

17th International Metallurgy & Materials Congress, İstanbul, Turkey, 11 - 13 September 2014, pp.518-522

- XLVI. Temperature Dependent Optical and Electrical Investigation of Alkali-Tungsten-Tellurite Glasses**
Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
17th International Metallurgy & Materials Congress, İstanbul, Turkey, 11 - 13 September 2014, pp.323-328
- XLVII. Synthesis and Characterization of Silver Containing Soda-Lime Glasses**
Guldiren D., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
17th International Metallurgy & Materials Congress, İstanbul, Turkey, 11 - 13 September 2014, pp.329-334
- XLVIII. Color Change in Transition Metal Oxide Doped Tellurite Glasses**
Saygılı M., Sipahioğlu C., Yurdakul Z., Yuceturk K., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
17th International Metallurgy & Materials Congress, İstanbul, Turkey, 11 - 13 September 2014, pp.315-322
- XLIX. Chemically Strengthened Soda-Lime Glasses via Ion Exchange Process**
Erdem I., Guldiren D., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
17th International Metallurgy & Materials Congress, İstanbul, Turkey, 11 - 13 September 2014, pp.335-340
- L. Thermal And Structural Characterization of Quaternary Antimonite Glasses**
Ersundu A. E., Çelikbilek Ersundu M., Soltani M. T., Aydın S.
17th International Metallurgy & Materials Congress, İstanbul, Turkey, 11 - 13 September 2014, pp.323-328
- LI. Thermodynamic and Kinetic Investigation of Alkali Containing Tungsten-Tellurite Glasses**
Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
23rd International Congress on Glass (ICG 2013), Praha, Czech Republic, 1 - 05 July 2013, pp.454
- LII. Glass Formation Behavior in Different Binary and Ternary Tellurite Glass Systems**
Ersundu A. E., Çelikbilek Ersundu M., Aydın S.
23rd International Congress on Glass (ICG 2013), Praha, Czech Republic, 1 - 05 July 2013, pp.453
- LIII. Thermal and Structural Properties of the TeO₂-WO₃-Li₂O Glasses**
Yardımcı D., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
Materials Science and Technology Conference and Exhibition (MS&T'12), Pennsylvania, United States Of America, 7 - 11 October 2012, pp.243-248
- LIV. Phase Separation in Two Glass Former Containing WO₃-TeO₂-B₂O₃ System**
Ersundu A. E., Çelikbilek Ersundu M., Aydın S.
Materials Science and Technology Conference and Exhibition (MS&T'12), Pennsylvania, United States Of America, 7 - 11 October 2012, pp.257-261
- LV. Investigation of Glass Formation and Structural Properties in the TeO₂-WO₃-Na₂O System**
Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
Materials Science and Technology Conference and Exhibition (MS&T'12), Pennsylvania, United States Of America, 7 - 11 October 2012, pp.229-236
- LVI. Phase Equilibria and Glass Formation Studies in the TeO₂-Na₂O System**
Kavaklıoğlu K., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
Materials Science and Technology Conference and Exhibition (MS&T'12), Pennsylvania, United States Of America, 7 - 11 October 2012, pp.237-242
- LVII. Thermal Behavior and Non-Isothermal Kinetic Studies of Lithium-Tellurite Glasses**
Kavaklıoğlu K., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
16th International Metallurgy & Materials Congress, İstanbul, Turkey, 13 - 15 September 2012, pp.1
- LVIII. Thermal Investigation and Crystallization Behavior of Zinc-Tellurite Glasses**
Irmak T., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
16th International Metallurgy & Materials Congress, İstanbul, Turkey, 13 - 15 September 2012, pp.352-357
- LIX. Investigation of Thermal and Structural Behavior of Alkali Oxide Containing Tungsten-Tellurite Glasses**
Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
16th International Metallurgy & Materials Congress, İstanbul, Turkey, 13 - 15 September 2012, pp.339-345
- LX. Glass Formation and Structural Studies in the TeO₂-WO₃-B₂O₃ System**
Ersundu A. E., Çelikbilek Ersundu M., Aydın S.
16th International Metallurgy & Materials Congress, İstanbul, Turkey, 13 - 15 September 2012, pp.253-260
- LXI. Investigation of Phase Separation Region in the TeO₂-B₂O₃ System**

Yardımcı D., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.

16th International Metallurgy & Materials Congress, İstanbul, Turkey, 13 - 15 September 2012, pp.346-351

- LXII. Characterization of Glasses in the TeO₂-WO₃-CdO System**
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Materials Science and Technology Conference and Exhibition (MS&T'11), Ohio, United States Of America, 16 - 20 October 2011, pp.48-54
- LXIII. Thermal Behavior and Kinetics of Glass Transition in B₂O₃ Containing Tungsten-Tellurite Glasses**
Çelikbilek Ersundu M., Yardımcı D., Ersundu A. E., Solak N., Aydın S.
Materials Science and Technology Conference and Exhibition (MS&T'11), Ohio, United States Of America, 16 - 20 October 2011, pp.55-61
- LXIV. Effect of Na₂O Addition on Tungsten-Tellurite Glasses**
Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
Materials Science and Technology Conference and Exhibition (MS&T'11), Ohio, United States Of America, 16 - 20 October 2011, pp.192
- LXV. Glasses of TeO₂-ZnO System for Fiber-Optic Applications**
Celayir U., Ceren M., Gönülhan B., Jadidi P., Kavaklıoğlu K. B., Saraçoğlu K., Çelikbilek Ersundu M., Ersundu A. E., Solak N., Aydın S.
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- LXVI. Thermal and Microstructural Characterization of TeO₂-B₂O₃ System**
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17th International Symposium on Boron, Borides and Related Materials, İstanbul, Turkey, 11 - 17 September 2011, pp.286
- LXVII. Characterization Studies on the B₂O₃ Containing Tungsten-Tellurite Glasses**
Çelikbilek Ersundu M., Yardımcı D., Ersundu A. E., Solak N., Aydın S.
17th International Symposium on Boron, Borides and Related Materials, İstanbul, Turkey, 11 September 2011 - 17 September 2017, pp.291
- LXVIII. Characterization Studies in the WO₃-CdO System**
Çelikbilek Ersundu M., Ersundu A. E., Solak N., Aydın S.
12th International Conference and Exhibition of the European Ceramic Society, Stockholm, Sweden, 19 - 23 June 2011, pp.1
- LXIX. Characterization Studies in the WO₃-CdO System**
Çelikbilek Ersundu M., Ersundu A. E., Solak N., Aydın S.
12th International Conference and Exhibition of the European Ceramic Society (ECERS 2011), Stockholm, Sweden, 19 - 23 June 2011, pp.1
- LXX. Investigation of the Glass Formation in the TeO₂-CdO System**
Karaduman G., Çelikbilek Ersundu M., Ersundu A. E., Solak N., Aydın S.
3rd International Congress on Ceramics, Osaka, Japan, 14 - 18 November 2010, pp.1
- LXXI. Crystallization Kinetics of TeO₂-B₂O₃ Glasses**
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3rd International Congress on Ceramics, Osaka, Japan, 14 - 18 November 2010, pp.1
- LXXII. Formation of the delta-TeO₂ Phase in the Ternary TeO₂-WO₃-CdO System**
Ersundu A. E., Karaduman G., Çelikbilek Ersundu M., Solak N., Aydın S.
3rd International Congress on Ceramics, Osaka, Japan, 14 - 18 November 2010, pp.1
- LXXIII. Characterization Studies in the TeO₂-WO₃ System**
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15th International Metallurgy & Materials Congress, İstanbul, Turkey, 11 - 13 November 2010, pp.2166-2174
- LXXIV. Characterization Studies in the Glassy Region of the TeO₂-B₂O₃ System**
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Çelikbilek Ersundu M., Ersundu A. E., KOSGEB, Enerji Tasarrufu Sağlayan Termokromik Kaplamalı Akıllı Camların Geliştirilmesi, 2013 - 2015

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Çelikbilek Ersundu M., Aydın S., Project Supported by Higher Education Institutions, Tellürit Cam Sistemlerin Termokromik Özelliklerinin Araştırılması, 2013 - 2013

Aydın S., Zayim E., TUBITAK Project, Termokromik Uygulamalarda Kullanım Amacıyla Alkali Oksit Katkılı Tungsten-Tellürit Cam Sistemlerin Geliştirilmesi Ve Termal, Yapısal, Spektroskopik Açından İncelenmesi, 2011 - 2013

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Aydın S., Öveçoğlu M. L., Eryürek G., TUBITAK Project, Fiber Optik Kuvvetlendirici Ve Lazer Uygulamalarında Kullanılan TeO2-WO3-CdO Sisteminde Faz Dengelerinin Tespiti Ve Sistemin Termodinamik - Optik İncelenmesi, 2008 - 2010

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Scientific Research / Working Group Memberships

Cam Arařtırma Grubu, Yıldız Technical University, Türkiye, www.glass.yildiz.edu.tr, 2014 - Continues

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Publication: 144

Citation (WoS): 974

Citation (Scopus): 1927

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Awards

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ÇELİKBİLEK ERSUNDU M., Metalik Fikirler II. Arge Proje Pazarı Birincilik Ödülü, İstanbul Demir ve Demirdışı Metaller İhracatçıları Birlięi, November 2013

ÇELİKBİLEK ERSUNDU M., Hayatımın Fikri, Gençlik için Giriřimcilik Birincilik Ödülü, AVEA & TOG, November 2009

ÇELİKBİLEK ERSUNDU M., 9. Yönetim Bilimleri Kongresi, İnovasyon Proje Yarışması Birincilik Ödülü, İstanbul Teknik Üniversitesi İşletme Mühendislięi, April 2008

Non Academic Experience

Akıllı Cam Arařtırma Geliřtirme Mühendislik Sanayi Ticaret Limited Şirketi, Genel Müdür
Arçelik A.Ş., Mühendis