

Prof. Ali Erçin ERSUNDU

Personal Information

Office Phone: [+90 212 383 4669](tel:+902123834669)

Email: ersundu@yildiz.edu.tr

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

Address: Yıldız Teknik Üniversitesi, Davutpaşa Kampüsü Kimya-Metalurji Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü
KMA317, 34220 Esenler / İstanbul

International Researcher IDs

ScholarID: GnFzDo0AAAAJ

ORCID: 0000-0002-8616-9039

Publons / Web Of Science ResearcherID: AAH-2730-2019

ScopusID: 23975619300

Yoksis Researcher ID: 23008

Biography

Prof. Dr. Ali Erçin Ersundu received his undergraduate degree from Istanbul Technical University, Department of Metallurgical and Materials Engineering in 2005. He later completed his master's and doctoral studies in Istanbul Technical University, Graduate School, Materials Science and Engineering program in 2007 and 2013, respectively. During his doctoral studies, he worked as a visiting researcher at the University of Illinois at Urbana-Champaign, Department of Materials Science and Engineering. In 2014, he started to work as a faculty member in the Department of Metallurgical and Materials Engineering at Yıldız Technical University. He was awarded the title of associate professor and full professor in 2018 and 2023, respectively. He continues to carry out his research at the Glass Research Laboratory of which he is the co-founder.

Prof. Dr. Ali Erçin Ersundu has carried out a wide range of pioneering studies on the development and integration of glass and glass-ceramic-based materials especially for energy and communication systems. Recently, he focused on glass and glass nanocomposites with color conversion properties and by synthesizing different lanthanide ions and quantum dots directly in glass matrices he was able to completely cut off their contact with the external environment, thus preventing their stability and degradation problems, preserving their luminous properties for a long time and expanding their application areas. With his pioneering work in this field, he paved the way for the integration of glass and glass nanocomposites with color conversion properties into new generation opto-electronic and photonic applications such as, solid-state lighting (LED), Agri-PV, luminescent solar concentrators, BIPV systems, three-dimensional volumetric display, optical temperature sensor and anti-counterfeiting.

In addition to his research-development and education-training activities, Prof. Dr. Ali Erçin Ersundu served as the Director of Yıldız Technical University Science and Technology Application and Research Center (Central Research Laboratory) between 2021-2024.

In 2021 he was deemed worthy of the Turkish Academy of Sciences (TÜBA) - Outstanding Young Scientist (GEBİP)

award and became a member of the TÜBA Young Academy. In 2022, he was awarded the METU Prof. Dr. Mustafa N. Parlar Education and Research Foundation Research Incentive Award. Prof. Dr. Ali Erçin Ersundu is married with one little boy.

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Malzeme Bilimi Ve Mühendisliği, Turkey 2007 - 2013
Doctorate, University Of Illinois At Urbana - Champaign (Prof. Waltraud M. Kriven Grubunda Ziyaretçi Araştırmacı), Malzeme Bilimi Ve Mühendisliği, Turkey 2010 - 2012
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Malzeme Bilimi Ve Mühendisliği, Turkey 2005 - 2007
Undergraduate, Istanbul Technical University, Kimya Metalurji Fakültesi , Metalurji Ve Malzeme Mühendisliği, Turkey 2000 - 2005

Dissertations

Doctorate, TELLÜR OKSİT ESASLI ÜÇLÜ SİSTEMLERİN ISIL, KİNETİK VE YAPISAL AÇIDAN İNCELENEREK CAMLAŞMA ÖZELLİKLERİNİN VE FAZ DENGELERİNİN TESPİTİ, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Malzeme Bilimi Ve Mühendisliği / İleri Teknolojiler, 2013
Postgraduate, YERLİ DEMİR CEVHERLERİNİN SÜNGER DEMİR ÜRETİMİNE UYGUNLUĞUNUN ARAŞTIRILMASI, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Malzeme Bilimi Ve Mühendisliği / İleri Teknolojiler, 2007

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Semiconductor and Superconductor Materials, Optical Properties, Glass Technology and Glass Ceramics, Material Characterization, Nanomaterials, Thermal Properties, Structure-Property Relationship, Optical Properties, Spectroscopy of Matter, 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

Academic and Administrative Experience

Manager of Research and Application Center, Yıldız Technical University, Bilim ve Teknoloji Uygulama ve Araştırma Merkezi, 2021 - 2024
Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Metalurji Ve Malzeme Müh. Bölümü, 2015 - 2017
Nişantaşı Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, 2013 - 2014

Courses

Postgraduate

Malzeme Yapısı ve Kristalografisi, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Undergraduate

Glass Technology, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Solution Thermodynamics, Undergraduate, 2018 - 2019

Phase Diagrams, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Materials Thermodynamics 2, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Materials Thermodynamics, Undergraduate, 2018 - 2019

Technical English II, Undergraduate, 2017 - 2018, 2016 - 2017

Technical English I, Undergraduate, 2016 - 2017, 2015 - 2016

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

Supervised Theses

Ersundu A. E., Development of phosphor containing fluorescent dye added glasses, Doctorate, H.Gülşah(Student), Continues

Ersundu A. E., Development of Thin Glass Compositions, Doctorate, Y.Ateş(Student), Continues

Ersundu A. E., Investigation of lanthanide and perovskite quantum dot co-doped glass nanocomposites using density functional theory, Doctorate, G.Hızlı(Student), Continues

Ersundu A. E., Development of Glass Nanocomposite-Based Luminescent Solar Concentrators for Smart Building-Integrated Photovoltaic Systems, Postgraduate, E.İLTER(Student), Continues

Ersundu A. E., Samarium and Thulium Doped Luminescent Glass-Based LEDs in Indoor Agriculture Applications and Their Effects on Plant Growth, Postgraduate, U.Ekim(Student), 2023

Ersundu A. E., Development of CsPbBr₃ Perovskite Quantum Dot and Lanthanide-doped Glass Nanocomposites for Solid State Lighting Applications, Doctorate, E.Erol(Student), 2022

Ersundu A. E., Lanthanide and/or Quantum Dot Doped Luminescent Glasses/Glass Nanocomposites as Wavelength Convertors for Advanced Opto Electronic Applications, Doctorate, O.Kıbrıslı(Student), 2022

Ersundu A. E., Effect of salt baths contaminated with different calcium compounds on chemical tempering efficiency, Postgraduate, A.Çalı(Student), 2021

Ersundu A. E., Development of Sol-Gel Based Anti-Reflective Coatings for Glasses Used in Photovoltaic Systems, Postgraduate, C.Yıldırım(Student), 2021

Ersundu A. E., Investigation the Effect of Weathering on Chemically Strengthened Thin Flat Glasses, Postgraduate, Y.Ateş(Student), 2020

Ersundu A. E., Investigation of electrical and structural properties in transition metal oxide containing tellurite and antimonite glasses, Postgraduate, O.Başak(Student), 2019

Ersundu A. E., Determination of vitrification behaviour and investigation of radiation shielding properties of bismuth oxide-lead chloride-tellurium oxide system through thermal, optical and structural studies, Postgraduate, V.Akılı(Student), 2019

Ersundu A. E., Development and characterization of niobium-doped vanadium dioxide based thermochromic thin films for energy saving in buildings, Postgraduate, E.Doğan(Student), 2018

Ersundu A. E., Development and characterization of tungsten doped VO₂-based thermochromic thin film coated glasses, Postgraduate, M.Berkay(Student), 2017

Ersundu A. E., Development and characterization of photo-thermo-refractive glasses for three dimensional phase hologram applications, Postgraduate, O.Kıbrıslı(Student), 2017

Ersundu A. E., Aydın S., Investigation of photocatalytic activity of boron and nitrogen doped TiO₂ thin films, Postgraduate, S.Çulhaoğlu(Student), 2015

Ersundu A. E., Aydın S., Preparation and Characterization of Vanadium Oxide - Based Thermochromic Thin Films Produced by Sol-Gel Method, Postgraduate, M.Can(Student), 2014

Jury Memberships

Doctoral Examination, Doctoral Examination, Middle East Technical University, May, 2022
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, May, 2021
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, May, 2021
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, May, 2021
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, May, 2021
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, May, 2021
Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, April, 2021
Doctoral Examination, Doctoral Examination, İzmir Yüksek Teknoloji Enstitüsü, April, 2021
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, December, 2020
Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, June, 2020
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, May, 2019
Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, March, 2019
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, December, 2017
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, November, 2017
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, March, 2017
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, May, 2015
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, May, 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. **Sm²⁺-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. **An Investigation of the Photonic Application of TeO₂-K₂TeO₃-Nb₂O₅-BaF₂ Glass Co-Doped with Er₂O₃/Ho₂O₃ and Er₂O₃/Yb₂O₃ at 1.54 μm Based on Its Thermal and Luminescence Properties**
Boussetta A., Al-Syadi A. M., Albargi H. B., Damak K., ERSUNDU A. E., Ersundu M. Ç., Ramadan E., Alshehri A. M., Hussein K. I., Maalej R., et al.
Materials, vol.17, no.17, 2024 (SCI-Expanded)
- V. **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)
- VI. **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)
- VII. **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)

- VIII. **Glass-based LED system for indoor horticulture: enhanced plant growth through Sm³⁺ and Tm³⁺ co-doped luminescent glasses**
EKİM U, İter 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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **Recyclability of CsPbBr₃ quantum dot glass nanocomposites for their long-standing use in white LEDs**
Vahedigharehchopogh N., EROL E., Kibrisli O., Genc A., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
JOURNAL OF MATERIALS CHEMISTRY C, vol.10, no.42, pp.16088-16099, 2022 (SCI-Expanded)
- XIII. **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)
- XIV. **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)
- XV. **CdSe and CsPbBr₃ quantum dot Co-doped monolithic glasses as tunable wavelength convertors**
Kibrisli O., Erol E., ERSUNDU A. E., Ersundu M.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.55, no.10, 2022 (SCI-Expanded)
- XVI. **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)
- XVII. **Color tunable emission from Eu³⁺ and Tm³⁺ co-doped CsPbBr₃ quantum dot glass nanocomposites**
Erol E., Kibrisli O., Ersundu M., ERSUNDU A. E.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.24, no.3, pp.1486-1495, 2022 (SCI-Expanded)
- XVIII. **Recent progress in lanthanide-doped luminescent glasses for solid-state lighting applications-a review**
EROL E., Vahedigharehchopogh N., Kibrisli O., ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.33, no.48, 2021 (SCI-Expanded)
- XIX. **Robust CsPbBr₃ and CdSe/Dy³⁺+CdSe quantum dot doped glass nanocomposite hybrid coupling as color converter for solid-state lighting applications**
Kibrishi O., Erol E., Çelikbilek Ersundu M., Ersundu A. E.
CHEMICAL ENGINEERING JOURNAL, vol.420, 2021 (SCI-Expanded)
- XX. **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)
- XXI. **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., Kibrışlı O., Akıllı V., ÇELİKBİLEK ERSUNDU M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.857, 2021 (SCI-Expanded)
- XXII. **A straightforward approach for high-end anti-counterfeiting applications based on NIR laser-driven lanthanide doped luminescent glasses**
Vahedigharehchopogh N., Kibrışlı O., Erol E., Çelikbilek Ersundu M., Ersundu A. E.
JOURNAL OF MATERIALS CHEMISTRY C, vol.9, no.6, pp.2037-2046, 2021 (SCI-Expanded)
- XXIII. **Size-controlled emission of long-time durable CsPbBr₃ perovskite quantum dots embedded tellurite glass nanocomposites**
Erol E., Kibrışlı O., Çelikbilek Ersundu M., Ersundu A. E.
CHEMICAL ENGINEERING JOURNAL, vol.401, 2020 (SCI-Expanded)
- XXIV. **Noninvasive Optical Temperature Sensing Behavior of Ho³⁺ and Ho³⁺/Er³⁺ Doped Tellurite Glasses Through Up and Down-Converted Emissions**
Kibrışlı 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)
- XXV. **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., Kibrışlı O., Vahedigharehchopogh N., Çelikbilek Ersundu M., Ersundu A. E.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.22, no.44, pp.25963-25972, 2020 (SCI-Expanded)
- XXVI. **Investigation the effect of weathering on chemically strengthened flat glasses**
Gösterişlioğlu Y., Ersundu A. E., Çelikbilek 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**
Kibrışlı O., Vahedigharehchopogh N., Ersundu A. E., Çelikbilek 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., Çelikbilek 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., Kibrışlı O., Ersundu A. E., Çelikbilek 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**
Çelikbilek Ersundu M., Ersundu A. E., Gedikoglu N., Şakar E., Buyiikyildiz 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**
Kibrışlı O., Ersundu A. E., Çelikbilek Ersundu M.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.513, pp.125-136, 2019 (SCI-Expanded)
- XXXIII. **Crystallization behavior of WO₃-MoO₃-TeO₂ glasses**
Gedikoğlu N., Ersundu A. E., Aydın S., Çelikbilek Ersundu M.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.501, pp.93-100, 2018 (SCI-Expanded)
- XXXIV. **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., Çelikbilek Ersundu M., Kostka P., Bašinová N., Ersundu A. E.

- JOURNAL OF ALLOYS AND COMPOUNDS, vol.748, pp.687-693, 2018 (SCI-Expanded)
- XXXV. **The effect of UV exposure and heat treatment on crystallization behavior of photosensitive glasses**
Kibrish O, Ersundu A. E.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.124, 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., Çelikbilek 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., Buyukyildiz M., Çelikbilek 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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **Thermal and microstructural characterization and crystallization kinetic studies in the TeO₂-B₂O₃ system**
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- XXXVIII. **Kinetic Investigation of New Heavy Metal oxide Glasses Based on Sb₂O₃**
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12th ESG Conference, Parma, Italy, 21 - 24 September 2014, pp.142
- XL. **Synthesis and Characterization of Silver Containing Soda-Lime Glasses**
Guldiren D., Çelikkbilek Ersundu M., Ersundu A. E., Aydın S.
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- XLI. **Chemically Strengthened Soda-Lime Glasses via Ion Exchange Process**
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- XLII. **Temperature Dependent Optical and Electrical Investigation of Alkali-Tungsten-Tellurite Glasses**
Çelikkbilek Ersundu M., Ersundu A. E., Aydın S.
17th International Metallurgy & Materials Congress, İstanbul, Turkey, 11 - 13 September 2014, pp.323-328
- XLIII. **Thermal And Structural Characterization of Quaternary Antimonite Glasses**
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17th International Metallurgy & Materials Congress, İstanbul, Turkey, 11 - 13 September 2014, pp.323-328

- XLIV. 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
- XLV. Low Cost Preparation of VO₂-Based Thermochromic Thin Films**
Ozdemir M., Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
17th International Metallurgy & Materials Congress, İstanbul, Turkey, 11 - 13 September 2014, pp.518-522
- XLVI. Glass Formation Behavior in Different Binary and Ternary Tellurite Glass Systems**
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23rd International Congress on Glass (ICG 2013), Praha, Czech Republic, 1 - 05 July 2013, pp.453
- XLVII. 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
- XLVIII. Thermal and Structural Properties of the TeO₂-WO₃-Li₂O Glasses**
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- L. Phase Separation in Two Glass Former Containing WO₃-TeO₂-B₂O₃ System**
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- LII. 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
- LIII. Investigation of Thermal and Structural Behavior of Alkali Oxide Containing Tungsten-Tellurite Glasses**
Çelikbilek Ersundu M., Ersundu A. E., Aydın S.
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- LIV. Thermal Behavior and Non-Isothermal Kinetic Studies of Lithium-Tellurite Glasses**
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16th International Metallurgy & Materials Congress, İstanbul, Turkey, 13 - 15 September 2012, pp.1
- LV. 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
- LVI. Thermal Investigation and Crystallization Behavior of Zinc-Tellurite Glasses**
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- LVII. Effect of Na₂O Addition on Tungsten-Tellurite Glasses**
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- LVIII. Thermal Behavior and Kinetics of Glass Transition in B₂O₃ Containing Tungsten-Tellurite Glasses**
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- LX. Glasses of TeO₂-ZnO System for Fiber-Optic Applications**
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Ersundu A. E., Kriven W.
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- LXXI. Characterization Studies in the Glassy Region of the TeO₂-B₂O₃ System**
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Scientific Research / Working Group Memberships

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

Metrics

Publication: 145

Citation (WoS): 971

Citation (Scopus): 1915

H-Index (WoS): 19

H-Index (Scopus): 25

Awards

Ersundu A. E., Odtü Parlar Vakfı Araştırma Teşvik Ödülü, Odtü Prof. Dr. Mustafa N. Parlar Eğitim Ve Araştırma Vakfı, February 2023

Ersundu A. E., Turkish Academy of Sciences (TÜBA) Outstanding Young Scientists Award (GEBİP), Türkiye Bilimler Akademisi, December 2021

ERSUNDU A. E., Best Oral Presentation Award, Materials Research Society of Serbia - 17YRC 2018, December 2018

ERSUNDU A. E., İTÜ 2013 Yılı En Başarılı Tez Ödülü, İstanbul Teknik Üniversitesi, June 2014

ERSUNDU A. E., Metalik Fikirler II. Arge Proje Pazarı, Öğrenci Kategorisi Birincisi, Metalik Fikirler II. Arge Proje Pazarı, November 2013

Non Academic Experience

Güvenli Cam Araştırma Geliştirme Müh. San. Tic. Ltd. Şti., Genel Müdür