

## Prof. Ali Erçin ERSUNDU

### Personal Information

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### International Researcher IDs

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

ScopusID: 23975619300

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### 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

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  
Malzeme Yapısı ve Kristalografisi, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017  
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 CsPbBr<sub>3</sub> 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.Akıllı(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 VO<sub>2</sub>-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 TiO<sub>2</sub> 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 RE<sup>3+</sup>-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<sup>2+</sup>-doped CsPbBr<sub>3</sub> 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 Dy<sup>3+</sup> and Eu<sup>3+</sup> co-doped NaCaGd(WO<sub>4</sub>)<sub>3</sub> 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 TeO<sub>2</sub>-K<sub>2</sub>TeO<sub>3</sub>-Nb<sub>2</sub>O<sub>5</sub>-BaF<sub>2</sub> Glass Co-Doped with Er<sub>2</sub>O<sub>3</sub>/Ho<sub>2</sub>O<sub>3</sub> and Er<sub>2</sub>O<sub>3</sub>/Yb<sub>2</sub>O<sub>3</sub> 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 Ba<sub>2</sub>GdV<sub>3</sub>O<sub>11</sub> 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 Er<sup>3+</sup>/Yb<sup>3+</sup> co-doped Ba<sub>2</sub>GdV<sub>3</sub>O<sub>11</sub> 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 Sm<sup>3+</sup> and Tm<sup>3+</sup> 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 Eu<sup>3+</sup>/Tb<sup>3+</sup> 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–MoO<sub>3</sub>–TeO<sub>2</sub> 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 Dy<sup>3+</sup>- 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 CsPbBr<sub>3</sub> 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 Eu<sup>3+</sup>/Dy(3+)co-doped CsPbBr<sub>3</sub> 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 CsPbBr<sub>3</sub> 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 Eu<sup>3+</sup> and Tm<sup>3+</sup> co-doped CsPbBr<sub>3</sub> 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 CsPbBr<sub>3</sub> and CdSe/Dy<sup>3+</sup>+CdSe quantum dot doped glass nanocomposite hybrid coupling as color converter for solid-state lighting applications**  
Kibrisli O., Erol E., Çelikbilek Ersundu M., Ersundu A. E.  
CHEMICAL ENGINEERING JOURNAL, vol.420, 2021 (SCI-Expanded)
- XX. **Novel HMO-Glasses with Sb<sub>2</sub>O<sub>3</sub> and TeO<sub>2</sub> 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 Bi<sub>2</sub>O<sub>3</sub>-PbCl<sub>2</sub>-TeO<sub>2</sub> system: Glass forming region, thermal, physical, optical, structural, mechanical and radiation shielding properties**  
ERSUNDU A. E., Sayyed M., Kibrisli 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., 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)
- XXIII. **Size-controlled emission of long-time durable CsPbBr<sub>3</sub> 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)
- XXIV. **Noninvasive Optical Temperature Sensing Behavior of Ho<sup>3+</sup> and Ho<sup>3+</sup>/Er<sup>3+</sup> 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)
- XXV. **The synergistic effect of Er<sup>3+</sup> and Ho<sup>3+</sup> on temporal color tuning of upconversion emission in a glass host via a facile excitation modulation technique for anti-counterfeiting applications**  
Erol E., Kibrishli 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 WO<sub>3</sub> + MoO<sub>3</sub> containing TeO<sub>2</sub> and Sb<sub>2</sub>O<sub>3</sub>-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**  
Kibrishli 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 VO<sub>2</sub>-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 Yb<sup>3+</sup> sensitized Ho<sup>3+</sup>/Tm<sup>3+</sup> doped tellurite glasses**  
Vahedigharehchopogh N., Kibrishli 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-MoO<sub>3</sub>-TeO<sub>2</sub> 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. **Dy<sup>3+</sup> doped tellurite glasses for solid-state lighting: An investigation through physical, thermal, structural and optical spectroscopy studies**  
Kibrishli O., Ersundu A. E., Çelikbilek Ersundu M.  
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.513, pp.125-136, 2019 (SCI-Expanded)
- XXXIII. **Crystallization behavior of WO<sub>3</sub>-MoO<sub>3</sub>-TeO<sub>2</sub> 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 PbCl<sub>2</sub>-TeO<sub>2</sub> 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-Bi<sub>2</sub>O<sub>3</sub>-B<sub>2</sub>O<sub>3</sub> 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 W<sub>2</sub>O<sub>3</sub>-MoO<sub>3</sub>-TeO<sub>2</sub> 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-PbCl<sub>2</sub>-TeO<sub>2</sub> (MeO = Bi<sub>2</sub>O<sub>3</sub>, MoO<sub>3</sub>, Sb<sub>2</sub>O<sub>3</sub>, W<sub>2</sub>O<sub>3</sub>, 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 K<sub>2</sub>O-W<sub>2</sub>O<sub>3</sub>-TeO<sub>2</sub> 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 Sb<sub>2</sub>O<sub>3</sub>-Na<sub>2</sub>O-W<sub>2</sub>O<sub>3</sub>-PbO system**  
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- LXII. **Thermal and Microstructural Characterization of TeO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub> System**  
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- LXV. **Crystallization Kinetics of TeO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub> Glasses**  
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- LXXII. **Effect of Cooling Conditions on Glass Forming Ability of the TeO<sub>2</sub> - WO<sub>3</sub> System**  
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Materials Science and Technology Conference and Exhibition (MS&T'10), Texas, United States Of America, 17 - 21 October 2010, pp.146-155

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14th International Metallurgy & Materials Congress, İstanbul, Turkey, 16 - 18 October 2008, pp.880-888

**LXXIX. Reduction Behavior of Lignite and Coke Fine Containing Pellets**

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**LXXX. The Investigation of Domestic Iron Ores for Sponge Iron Production**

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**LXXXIV. An Important Input for Iron & Steel Production; Ferroalloys**

Aydın S., Ersundu A. E., Gürcan C., Yücel O.

13th International Metallurgy & Materials Congress, İstanbul, Turkey, 9 - 12 November 2006, pp.1175-1183

**LXXXV. Farklı Başlangıç Malzemeleri ve Isıl İşlem Koşullarının Termokromik VO<sub>2</sub> İnce Film Eldesine Etkisi**

Özdemir Yanık M. C., Çelikkbilek Ersundu M., Ersundu A. E., Aydın S.

9. Uluslararası Katılımlı Seramik Kongresi, Afyon, Turkey, 25 - 27 November 2015, pp.146

## Supported Projects

ERSUNDU A. E., İLTER E., Project Supported by Higher Education Institutions, Akıllı Binalara Entegre Fotovoltaik Sistemler için Cam Nanokompozit Esaslı Lüminesans Güneş Yoğunlaştırıcılarının Geliştirilmesi, 2025 - Continues

ERSUNDU A. E., ÇELİKBİLEK ERSUNDU M., EKİM U., DAMMAK M., Project Supported by Higher Education Institutions, Dy3+ ve Eu3+ Katkılı NaCaGd(WO<sub>4</sub>)<sub>3</sub> Esaslı Fosforların Ayarlanabilir Fotolüminesans ve Enerji Transferi Özelliklerinin

İncelenmesi ve Fosfor Dönüşümlü Beyaz Işık Yayan Diyot pc-WLED Uygulamaları için Geliştirilmesi, 2024 - Continues  
Ersundu A. E., Çelikkbilek Ersundu M., TUBITAK Project, Katı hal aydınlatma sistemleri için lüminesans özellikli yeni nesil camların geliştirilmesi, 2020 - 2028  
Ersundu A. E., Çelikkbilek Ersundu M., TUBITAK Project, Yeni nesil güçlendirilmiş fonksiyonel ince cam ve cam seramiklerin geliştirilmesi, 2020 - 2028  
Ersundu A. E., Çelikkbilek Ersundu M., Yerci S., Günbaş E. G., Gürsel Dino İ., EU Supported Other Project, Power Generation from Perovskite Architectural Elements, 2023 - 2026  
Çelikkbilek Ersundu M., Ersundu A. E., Pv K., Horizon Europe Project, AgriPV system with climate, water and light spectrum control for safe, healthier and improved crops production, 2022 - 2026  
Ünsür V., Ersundu A. E., Çelikkbilek Ersundu M., TUBITAK Project, Environmentally friendly Aluminum Metal Paste for New Generation PERC, TOPCon and IBC Solar Cells' Back Contact Formation, 2022 - 2025  
AKYOL F., ERSUNDU A. E., ÇELİKBİLEK ERSUNDU M., NATH D. N., Project Supported by Higher Education Institutions, Düşük Basıncı Kimyasal Buhar Biriktirme Sistemi Kullanılarak Üretilen Geniş Enerji Bant Aralıklı Ga<sub>2</sub>O<sub>3</sub> Yarı İletkeniyle Elektronik Ve Optoelektronik Aygıt Üretilmesi, 2023 - 2024  
Ersundu A. E., Çelikkbilek Ersundu M., TUBITAK Project, Development of Dual Quantum Dot-Doped Glass Nanocomposite-Based Luminescent Solar Concentrators, 2022 - 2024  
Ersundu A. E., Çelikkbilek Ersundu M., Genç A., Vahedigharehchopogh N., Erol E., Project Supported by Higher Education Institutions, Development of recyclable LEDs for sustainability in energy efficient lighting technologies, 2022 - 2023  
ERSUNDU A. E., Ekim U., Project Supported by Higher Education Institutions, Samaryum ve Tulyum Katkılı Lüminesan Cam Bazlı LED'lerin İç Mekan Tarım Uygulamalarında Kullanımları ve Bitki Gelişimine Etkileri, 2022 - 2023  
ERSUNDU A. E., ÖZEN E., TEMÜRHAN Y., Project Supported by Higher Education Institutions, Eu<sup>3+</sup>/Tm<sup>3+</sup> katkılı cam esaslı renk dönüştürücülerin geliştirilmesi ve sera camı olarak kullanım potansiyellerinin değerlendirilmesi, 2022 - 2023  
Ersundu A. E., Çelikkbilek Ersundu M., Korkmaz U., Özlem B., Project Supported by Higher Education Institutions, Development of rare earth element doped glasses reinforced with blue glowing carbon dots for white LED applications, 2022 - 2023  
Ersundu A. E., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Merkezi Araştırma Laboratuvarı İlave Altyapı, 2022 - 2023  
Ersundu A. E., Çelikkbilek Ersundu M., TÜBİTAK International Bilateral Joint Cooperation Program Project, Full-color tunable emission of lanthanide-doped monolithic glasses upon single beam irradiation for laser-based volumetric displays, 2021 - 2023  
ERSUNDU A. E., EROL E., Project Supported by Higher Education Institutions, Katı Hal Aydınlatma Uygulamaları için CsPbBr<sub>3</sub> Perovskit Kuantum Nokta ve Lantanit Katkılı Cam Nanokompozitlerin Geliştirilmesi, 2021 - 2023  
ERSUNDU A. E., Kıbrıslı O., ÇELİKBİLEK ERSUNDU M., EROL E., Project Supported by Higher Education Institutions, Aydınlatma teknolojisinde kullanılmak üzere yüksek ısı ve kimyasal kararlılıkta CsPbBr<sub>3</sub> perovskit kuantum nokta ve lantanit eş-katkılı cam nanokompozitlerin geliştirilmesi, 2021 - 2022  
ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E., Erol E., Kıbrıslı O., Project Supported by Higher Education Institutions, Sahtecilik Karşıtı Uygulamalar için CdSe ve CsPbBr<sub>3</sub> Kuantum Nokta Eş-Katkılı Cam Nanokompozitlerin Geliştirilmesi, 2021 - 2022  
ERSUNDU A. E., ÇELİKBİLEK ERSUNDU M., Project Supported by Higher Education Institutions, Fosfat Esaslı Kontrollü Salımlı Cam Gübrelerin Geliştirilmesi, 2021 - 2022  
ERSUNDU A. E., Kıbrıslı O., Project Supported by Higher Education Institutions, İleri opto-elektronik uygulamalar için dalga boyu dönüştürücüler olarak lantanit ve/veya kuantum nokta katkılı luminesan cam ve cam nanokompozitler, 2020 - 2022  
Çelikkbilek Ersundu M., Ersundu A. E., Genç A., Turan S., TÜBİTAK International Bilateral Joint Cooperation Program Project, Investigation the effect of different plasmonic structure geometries on upconversion efficiency enhancement of RE activated metallic nanoparticles , 2019 - 2022  
Ersundu A. E., Çalı A., Project Supported by Higher Education Institutions, Farklı kalsiyum bileşikleri ile kirletilmiş tuz banyolarının kimyasal temperleme verimliliğine etkisi, 2019 - 2021  
ÇELİKBİLEK ERSUNDU M., ERSUNDU A. E., Gedikoğlu N., Project Supported by Higher Education Institutions, Geniş bant aralıklı kızılötesi lazer camların geliştirilmesi, 2019 - 2021  
ERSUNDU A. E., Gösterişlioğlu Y. A., Project Supported by Higher Education Institutions, Yaşlandırmanın Kimyasal

Temperli İnce Düz Camlara Etkisinin İncelenmesi, 2019 - 2020

ERSUNDU A. E., Başak O., Project Supported by Higher Education Institutions, Geçiş Metal Oksit İçeren Tellürit ve Antimonat Camların Elektriksel ve Yapısal Özelliklerinin İncelenmesi, 2019 - 2020

ERSUNDU A. E., ÇELİKBİLEK ERSUNDU M., Kıbrıslı O., Project Supported by Higher Education Institutions, LED uygulamaları için Ho2O3, Er2O3, Tm2O3 içeren çok bileşenli camların ışma özelliklerinin incelenmesi, 2018 - 2020

Ersundu A. E., Çelikkbilek Ersundu M., TÜBİTAK Project, Yüksek aydınlatma verimli beyaz LED eldesi amacıyla kuantum nokta ve nadir toprak elementi ikili katkısının tellürit nanokompozit camların ışma ve renk özelliklerine etkisinin incelenmesi, 2017 - 2020

ERSUNDU A. E., Akıllı V., Project Supported by Higher Education Institutions, Bizmut Oksit-Kurşun Klorür-Tellür Oksit Sisteminin Isıl, Optik ve Yapısal Açından İncelenerek Camlaşma Davranışlarının Belirlenmesi ve Camların Radyasyon Zırhlama Özelliklerinin İncelenmesi, 2018 - 2019

ÇELİKBİLEK ERSUNDU M., YÜKSELİCİ M. H., ERSUNDU A. E., Project Supported by Higher Education Institutions, II-VI Kuantum Noktaların Soda-Kireç ve Boro-Silikat Camlarda Kontrollü Kristalizasyonu ve Kuantum Kısıtlama Özelliklerinin İncelenmesi, 2017 - 2019

Ersundu A. E., Çelikkbilek Ersundu M., TÜBİTAK Project, Investigation of the effect of structural transformations on electrical conduction properties of transition metal oxide-doped heavy metal oxide glasses, 2017 - 2019

Çelikkbilek Ersundu M., Ersundu A. E., Technopark, Türkiye Cam Sektörünün Mevcut Durumu ve Cam Sektörü Açısından Üniversite Sanayi İş Birliği Yol Haritası, 2018 - 2018

ERSUNDU A. E., Doğan E., Project Supported by Higher Education Institutions, Binalarda Enerji Tasarrufu Sağlayan Niobyum Katkılı Vanadyum Dioksit Esaslı Termokromik İnce Filmlerin Geliştirilmesi ve Karakterizasyonu, 2017 - 2018

ERSUNDU A. E., KIBRISLI O., YÜKSELİCİ M. H., ÇELİKBİLEK ERSUNDU M., Project Supported by Higher Education Institutions, Işığa Duyarlı Camlarda Bragg Izgaraların Oluşturulması ve Karakterizasyonu, 2017 - 2018

ERSUNDU A. E., Project Supported by Higher Education Institutions, Sol-jel yöntemi ile tungsten katkılı VO2 esaslı ince film kaplamaların geliştirilmesi ve termokromik özelliklerinin belirlenmesi, 2015 - 2018

ERSUNDU A. E., Project Supported by Higher Education Institutions, TUNGSTEN KATKILI VO2 ESASLI TERMOKROMİK İNCE FİLM KAPLAMALI CAMLARIN GELİŞTİRİLMESİ VE KARAKTERİZASYONU, 2016 - 2017

ERSUNDU A. E., Project Supported by Higher Education Institutions, Üç Boyutlu Faz Hologram Uygulamaları İçin Foto-Termo-Refraktif Camların Geliştirilmesi ve Karakterizasyonu, 2016 - 2017

Ersundu A. E., Yükselici M. H., Development Agency, Hologram Araştırma ve Eğitim Laboratuvarı, 2015 - 2017

Ersundu A. E., Çelikkbilek Ersundu M., KOSGEB, Kimyasal temperlenmiş yüksek mekanik dayanımlı camlar, 2014 - 2016

Ersundu A. E., Çelikkbilek Ersundu M., TÜBİTAK Project, İyon değişim prosesi ile kimyasal temperlenmiş yüksek mekanik dayanımlı camlar, 2015 - 2015

Çelikkbilek Ersundu M., Ersundu A. E., KOSGEB, Enerji Tasarrufu Sağlayan Termokromik Kaplamalı Akıllı Camların Geliştirilmesi, 2013 - 2015

Ersundu A. E., Aydın S., TÜBİTAK Project, İyon Değişim Prosesi ile Silika Esaslı Camlara Antibakteriyel Özellik Kazandırılması ve Camların Antibakteriyel Aktivitelerinin ve Yüzey Özelliklerinin İncelenmesi, 2013 - 2015

Ersundu A. E., Çelikkbilek Ersundu M., Aydın S., Project Supported by Higher Education Institutions, Soda Kireç Camlara İyon Değişim Prosesi ile Antibakteriyel Özellik Kazandırılması, 2013 - 2015

Ersundu A. E., Çelikkbilek Ersundu M., Project Supported by Other Official Institutions, Sıcaklık Etkisiyle Optik Özellik Değiştiren Yeni Nesil Termokromik Kaplamalı Akıllı Camlar, 2013 - 2014

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

Ersundu A. E., Çelikkbilek Ersundu M., Aydın S., Project Supported by Higher Education Institutions, Sodyum-Tellürit Camların Termokromik Uygulamalarda Kullanımı Amacıyla Geliştirilmesi ve Sistemin Termal, Yapısal ve Spektroskopik Açından İncelenmesi, 2011 - 2013

Ersundu A. E., Aydın S., Project Supported by Higher Education Institutions, TeO2-WO3-CdO Sisteminin Termodinamik ve Kinetik İncelenmesi, 2011 - 2011

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

Ersundu A. E., Aydın S., Yücel O., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Yerli Kaynaklardan Yararlanarak Çelik Üretimi İçin Alternatif Hammadde - Sünger Demir - Üretimi ve Kullanımı, 2005 - 2007



## Scientific Research / Working Group Memberships

Cam Arařtırma 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 Arařtırma Teřvik Ödülü, Odtü Prof. Dr. Mustafa N. Parlar Eğitim Ve Arařtırma 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 Arařtırma Geliřtirme Müh. San. Tic. Ltd. Şti., Genel Müdür