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International Researcher IDs

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Biography

1972 yılında İstanbul'da doğdu. 1989 yılında Kabataş Erkek Lisesi'nden mezun oldu. 1994 yılında İstanbul Üniversitesi Mühendislik Fakültesi Kimya Mühendisliğini bitirdi. 1997 yılında aynı üniversitenin Kimya bölümü Fiziksel kimya programında yüksek lisansını tamamladı. 1998 yılında Marmara Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü'nde Uzman kadrosunda göreve başladı. 2012 yılında Marmara Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü Anorganik Kimya Programı'nda doktora eğitimini tamamladı. 2017 yılından beri Marmara Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü Anorganik Kimya Anabilim Dalı'nda Doktor Öğretim Üyesi olarak görev yapmaktadır. Evli ve iki çocuk sahibidir.

Education Information

Doctorate, Marmara University, Faculty of Arts and Sciences, Chemistry, Turkey 1998 - 2012

Postgraduate, Istanbul University, Mühendislik Fakültesi, Kimya Bölümü, Turkey 1994 - 1997

Undergraduate, Istanbul University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1990 - 1994

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Katkılı MNb2O6 (M= Co, Cd, Ni) kolombit bileşiklerinin ergimiş tuz yöntemi ile sentezi ve karakterizasyonu, Marmara Üniversitesi, Faculty of Arts and Sciences, Chemistry, 2012

Postgraduate, Denizde petrol kirliliğinin adsorpsiyon yöntemi ile giderilmesi, İstanbul Üniversitesi, Mühendislik Fakültesi, Kimya Bölümü, 1997

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 1998 - Continues

Courses

Genel Kimya II, Undergraduate, 2017 - 2018
Sınai Kimya, Undergraduate, 2018 - 2019
Anorganik Kimya Laboratuvarı II, Undergraduate, 2017 - 2018
Genel Kimya II Lab., Undergraduate, 2017 - 2018
Bor ve Silisyum Kimyası, Undergraduate, 2017 - 2018
Genel Kimya, Undergraduate, 2018 - 2019
Anorganik Kimya Laboratuvarı I, Undergraduate, 2018 - 2019
Ahşap Kimyası ve Koruma, Undergraduate, 2017 - 2018
Bor ve Silisyum Kimyası, Undergraduate, 2017 - 2018
Anorganik Kimya Laboratuvarı II, Undergraduate, 2017 - 2018
Anorganik Kimya I, Undergraduate, 2017 - 2018
Genel Kimya, Undergraduate, 2017 - 2018
Bor ve Silisyum Kimyası, Postgraduate, 2017 - 2018
Genel Kimya I Lab., Undergraduate, 2017 - 2018
Genel Kimya I, Undergraduate, 2017 - 2018
Anorganik Kimya I, Undergraduate, 2017 - 2018
Anorganik Sınai Kimya, Undergraduate, 2017 - 2018
Bitirme Ödevi, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of boron incorporation on the structural, morphological, and spectral properties of CdNb₂O₆:Dy³⁺ phosphor synthesized by molten salt process**
İlhan M., EKMEKÇİ M. K., Güleryüz L. F.
Materials Science and Engineering: B, vol.298, 2023 (SCI-Expanded)
- II. **Tunable blue–green emission properties of Tb³⁺ doped barium tantalate phosphor**
EKMEKÇİ M. K.
Bulletin of Materials Science, vol.46, no.3, 2023 (SCI-Expanded)
- III. **Judd-Ofelt parameters and X-ray irradiation results of MNb₂O₆:Eu³⁺ (M = Sr, Cd, Ni) phosphors synthesized via a molten salt method**
İlhan M., EKMEKÇİ M. K., Keskin I. C.
RSC ADVANCES, vol.11, no.18, pp.10451-10462, 2021 (SCI-Expanded)
- IV. **Structural and Magnetic Properties of -Doped Powders**
TOPKAYA R., BOYRAZ C., EKMEKÇİ M. K.
JOURNAL OF LOW TEMPERATURE PHYSICS, vol.190, pp.244-255, 2018 (SCI-Expanded)
- V. **Electrospinning, preparation and photoluminescence properties of CoNb₂O₆:Dy³⁺ incorporated polyamide 6 composite fibers**
ERDEM R., İlhan M., EKMEKÇİ M. K., Erdem O.
APPLIED SURFACE SCIENCE, vol.421, pp.240-246, 2017 (SCI-Expanded)
- VI. **Photoluminescence characterization and heat treatment effect on luminescence behavior of BaTa₂O₆:Dy³⁺ phosphor**
İlhan M., EKMEKÇİ M. K., Mergen A., YAMAN C.
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, vol.14, no.6, pp.1134-1143, 2017 (SCI-Expanded)
- VII. **Microstructural and Radioluminescence Characteristics of Nd³⁺ Doped Columbite-Type SrNb₂O₆**

Phosphor

EKMEKÇİ M. K., İlhan M., EGE A., AYVACIKLI M.

JOURNAL OF FLUORESCENCE, vol.27, no.3, pp.973-979, 2017 (SCI-Expanded)

- VIII. **Structural and Near-Infrared Properties of Nd³⁺ Activated Lu₃NbO₇ Phosphor**
İlhan M., EKMEKÇİ M. K., ORALTAY R. G., BAŞAK A. S.
JOURNAL OF FLUORESCENCE, vol.27, no.1, pp.199-203, 2017 (SCI-Expanded)
- IX. **Study on molten salt synthesis, microstructural determination and white light emitting properties of CoNb₂O₆:Dy³⁺ phosphor**
EKMEKÇİ M. K., İlhan M., Guleryuz L. F., Mergen A.
OPTİK, vol.128, pp.26-33, 2017 (SCI-Expanded)
- X. **Synthesis and Optical Characterization of Red-Emitting BaTa₂O₆:Eu³⁺ Phosphors**
İlhan M., EKMEKÇİ M. K., Mergen A., YAMAN C.
JOURNAL OF FLUORESCENCE, vol.26, no.5, pp.1671-1678, 2016 (SCI-Expanded)
- XI. **Synthesis and Optical Properties of Novel Red-Emitting PbNb₂O₆: Eu³⁺ Phosphors**
İlhan M., Ekmekçi M. K., Demir A., Demirer H.
JOURNAL OF FLUORESCENCE, vol.26, pp.1637-1643, 2016 (SCI-Expanded)
- XII. **Investigation of Boron-doping Effect on Photoluminescence Properties of CdNb₂O₆: Eu³⁺ Phosphors**
BAŞAK A. S., EKMEKÇİ M. K., ERDEM M., İlhan M., Mergen A.
JOURNAL OF FLUORESCENCE, vol.26, no.2, pp.719-724, 2016 (SCI-Expanded)
- XIII. **Synthesis, characterization and photoluminescence properties of Eu³⁺ doped columbite CdNb₂O₆**
EKMEKÇİ M. K., ERDEM M., İlhan M., BAŞAK A. S., Mergen A.
OPTİK, vol.127, no.4, pp.1918-1921, 2016 (SCI-Expanded)
- XIV. **Structural and optical properties of Nd³⁺ doped columbite SrNb₂O₆**
EKMEKÇİ M. K., ERDEM M., BAŞAK A. S., DANIŞ Ö.
OPTİK, vol.127, no.8, pp.4123-4126, 2016 (SCI-Expanded)
- XV. **Bright white up-conversion emission from sol-gel derived Yb³⁺/Er³⁺/Tm³⁺: Y₂SiO₅ nanocrystalline powders**
ERDEM M., Erguzel O., EKMEKÇİ M. K., ÖRÜCÜ H., Çinkaya Yılmaz H., GENÇ S., Mergen A., Eryürek G., Di Bartolo B.
CERAMICS INTERNATIONAL, vol.41, no.10, pp.12805-12810, 2015 (SCI-Expanded)
- XVI. **Structural and Luminescence Properties of Sm³⁺ Doped TTB -Type BaTa₂O₆ Ceramic Phosphors**
EKMEKÇİ M. K., İlhan M., BAŞAK A. S., DENİZ S.
JOURNAL OF FLUORESCENCE, vol.25, no.6, pp.1757-1762, 2015 (SCI-Expanded)
- XVII. **Structural and Spectroscopic Properties of -Y₂Si₂O₇ Nanopowders Activated with Nd³⁺ Ions**
ERDEM M., EKMEKÇİ M. K., ÖRÜCÜ H., Bilir G.
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, vol.12, no.5, pp.1016-1019, 2015 (SCI-Expanded)
- XVIII. **Synthesis and photoluminescence properties of Dy³⁺ doped white light emitting CdTa₂O₆ phosphors**
İlhan M., EKMEKÇİ M. K.
JOURNAL OF SOLID STATE CHEMISTRY, vol.226, pp.243-249, 2015 (SCI-Expanded)
- XIX. **Molten salt synthesis, visible and near-IR region spectral properties of europium or neodymium doped CoNb₂O₆ columbite niobate**
EKMEKÇİ M. K., ERDEM M., BAŞAK A. S.
DALTON TRANSACTIONS, vol.44, no.12, pp.5379-5385, 2015 (SCI-Expanded)
- XX. **Concentration effect of Er³⁺ ions on structural and spectroscopic properties of CdNb₂O₆ phosphors**
Ghafouri S. A., ERDEM M., EKMEKÇİ M. K., Mergen A., Ozen G.
MATERIALS RESEARCH BULLETIN, vol.60, pp.562-565, 2014 (SCI-Expanded)
- XXI. **Molten salt synthesis and spectral properties of Nd³⁺ doped CdNb₂O₆ columbite phosphors**
EKMEKÇİ M. K., ERDEM M., Mergen A., Ozen G., Di Bartolo B.

Articles Published in Other Journals

- I. **Structural and Dielectric Properties of Eu³⁺, B³⁺ co-doped CoNb₂O₆ Ceramic**
İLHAN M., EKMEKÇİ M. K., ESMER K.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.11, no.2, pp.765-774, 2024 (Scopus)
- II. **Structural Properties, Photoluminescence, and Judd-Ofelt Parameters of Eu³⁺- Doped CoNb₂O₆ Phosphor**
ilhan m., Guleryuz L. f., Ekmekçi M. K.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.10, no.3, pp.745-756, 2023 (Scopus)
- III. **Influence of Europium Doping on the Crystallization, Morphology, and Cathodoluminescent Properties of PbNb₂O₆:Eu³⁺ Phosphors**
EKMEKÇİ M. K.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.9, no.4, pp.1129-1140, 2022 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **INVESTIGATION OF PHYSICAL PROPERTIES OF EU³⁺ DOPED COLUMBITE CDNB₂O₆ POWDERS**
GÜLER A., BOYRAZ C., EKMEKÇİ M. K.
ICAPM 2019 MADRID, 22 - 23 November 2019
- II. **Photoluminescence and optical temperature sensing properties of Er³⁺/Yb³⁺ codoped cadmium niobate**
ERDEM M., CANTÜRK S. B., EKMEKÇİ M. K., ÖRÜCÜ H.
35. International Turkish Physics Congress, 4 - 08 September 2019
- III. **Structural and Optical Properties of Nd³⁺ Doped Bata₂O₆ Phosphor**
İLHAN M., EKMEKÇİ M. K., ÇATALGÖL Z., SAMUR R.
8. International Advanced Technologies Symposium, 19 - 22 October 2017, vol.1, pp.4224-4227
- IV. **Physical Properties of Eu³⁺ Doped Columbite CdNb₂O₆ Powders**
BOYRAZ C., GÜLER A., TOPKAYA R., EKMEKÇİ M. K.
10 th international conference on magnetism and superconductivity MSM 2017, 18 - 21 September 2017
- V. **Morphology and Luminescence Characteristics of Yttriumdisilicate doped with Yb³⁺ Er³⁺ Ho³⁺ and Tm³⁺**
BOYRAZ C., ERDEM M., EKMEKÇİ M. K., TAV C., ERYÜREK G.
2 nd world congress on new technologies ICNFA, 18 - 19 August 2016
- VI. **Synthesis characterization and photoluminescence properties of Er³⁺ Y₂Si₂O₇ nanophosphors**
ERDEM M., Orucu H., EKMEKÇİ M. K.
Applied Physics and Mathematics Rome (Italy), 25 - 27 July 2016
- VII. **Synthesis characterizations and photoluminescence properties of Er³⁺ Y₂Si₂O₇ nanophosphors**
ERDEM M., ÖRÜCÜ H., EKMEKÇİ M. K.
Global Conferences on Applied Physics and Mathematics Rome (Italy), ROMA, Italy, 25 - 27 July 2016
- VIII. **Structural and Optical Properties of Nd³⁺ Doped Columbite SrNb₂O₆**
EKMEKÇİ M. K., ERDEM M., BAŞAK A. S., MERGEN A.
20th International Conference on Solid Compounds of Transition Elements, SCTE-2016, 11 - 15 April 2016
- IX. **Investigation of Boron doping effect on photoluminescence properties of Dy³⁺ CdNb₂O₆ phosphors**
BAŞAK A. S., ERDEM M., EKMEKÇİ M. K.
20th International Conference on Solid Compounds of Transition Elements, SCTE-2016, Zaragoza, Spain, 11 - 15 April 2016
- X. **Structural and Spectroscopic Properties of Er³⁺ CdNb₂O₆ Phosphors**
ERDEM M., EKMEKÇİ M. K., Sanaz G., MERGEN A., ERYÜREK G.

NATO Advanced Study Institute : NANO-STRUCTURES FOR OPTICS AND PHOTONICS. Erice, Sicily, Italy, 25 - 27 September 2015

- XI. **White Upconversion Emission From Yb₃ Er₃ Tm₃ Y₂SiO₅ Nano Powders**
ERDEM M., OLGUN E., EKMEKÇİ M. K., ÇINKAYA YILMAZ H., ÖRÜCÜ H., MERGEN A., ERYÜREK G., BALDASSARE D. B.
International Powder Porous Materials 2015, 15 September 2015
- XII. **Phase dependent Spectroscopic properties of Neodymium or Erbium doped Yttriumdisilicates**
ERDEM M., EKMEKÇİ M. K., Collins J., TAV C., MERGEN A., ERYÜREK G., Di Bartolo B.
International Powder Porous Materials, 15 - 19 September 2015
- XIII. **Synthesis and Optical Properties of Nd₃ doped Lu₃NbO₇ Phosphors**
EKMEKÇİ M. K., ERDEM M.
Luminescence and ESR Dosimetry (LumiDoz 9), 2 - 04 September 2015
- XIV. **Synthesis and Photoluminescence Properties of Ba₂Be₂B₂O₇ Sm₃**
PEKGÖZLÜ İ., EKMEKÇİ M. K.
Luminescence and ESR Dosimetry (LumiDoz 9), 2 - 04 September 2015
- XV. **Synthesis and Luminescent Properties of Europium Doped Rhombohedral type PbNb₂O₆ phosphors**
EKMEKÇİ M. K., ERDEM M.
LUMIDOZ 9: THE 9TH INTERNATIONAL CONFERENCE ON LUMINESCENCE AND ESR DOSIMETRY, Turkey, 2 - 04 September 2015
- XVI. **Synthesis and Optical Properties of Nd₃ doped Ln₃NbO₇ Phosphors**
EKMEKÇİ M. K., ERDEM M.
LUMIDOZ 9: THE 9TH INTERNATIONAL CONFERENCE ON LUMINESCENCE AND ESR DOSIMETRY, Turkey, 02 September 2014 - 04 September 2015
- XVII. **Upconversion White Blue and Red emission from Yb₃ Er₃ Tm₃ Y₂SiO₅ nanocrystalline powders**
OLGUN E., ERDEM M., EKMEKÇİ M. K., ERYÜREK G., BALDASSARE D. B.
American Physical Society New England Section Spring 2015 Meeting, 24 - 25 April 2015
- XVIII. **Structural And Luminescence Properties Of CdNb₂O₆ Er₃**
ERDEM M., EKMEKÇİ M. K., GHAFOURI S., MERGEN A., ERYÜREK G.
Nato Advanced Study Institute On Nano-Structures For Optics And Photonics, 4 July - 19 April 2013
- XIX. **Properties of Erbium doped Cadmium Niobate Powders**
ERYÜREK G., ERDEM M., EKMEKÇİ M. K., MERGEN A.
Complex Luminescence Phenomena in Inorganic Materials, Erice, Sicily, Italy, Sicily, Italy, 30 - 15 August 2014
- XX. **MICROSTRUCTURE AND LUMINESCENCE PROPERTIES OF Er₃₊ DOPED CdNb₂O₆ COLUMBITE OXIDES SYNTHIZED BY MOLTEN SALT TECHNIQUE**
Ghafouri S., ERDEM M., EKMEKÇİ M. K., MERGEN A., Gökçe H., ERYÜREK G.
The International Porous and Powder Materials Symposium and Exhibition, İzmir, Turkey, 03 September 2013
- XXI. **Micro Structure and Luminescence properties of Er₃ doped cdnb₂O₆ Columbite Oxides Synthesised by Molten Salt Technique**
SANAZ G., ERDEM M., EKMEKÇİ M. K., MERGEN A., GÖKÇE H., ERYÜREK G.
International Porous and Powder Materials, 3 - 06 September 2013
- XXII. **Spectroscopic Properties of Nd₃ Cdnb₂O₆ Phosphors**
ERDEM M., EKMEKÇİ M. K., MERGEN A., ERYÜREK G., BALDASSARE D. B.
International Porous and Powder Materials, 3 - 06 September 2013
- XXIII. **Molten salt synthesis and luminescent properties of europium doped NiNb₂O₆ columbites**
EKMEKÇİ M. K., MERGEN A.
Ulusal Kimya Kongresi, Turkey, 1 - 06 October 2012
- XXIV. **Effect of Boron doping on the Luminescence properties of Europium doped CdNb₂O₆ Columbite Oxides**
EKMEKÇİ M. K., MERGEN A.
International Symposium on Boron. Borides and Related Materials, 11 - 17 September 2011

Metrics

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H-Index (Scopus): 10