

Assoc. Prof. MURAT ERDEM

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Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Physics, Turkey 2005 - 2011

Postgraduate, Marmara University, Faculty of Arts and Sciences, Physics, Turkey 2001 - 2004

Undergraduate, Marmara University, Faculty of Arts and Sciences, Physics, Turkey 1999 - 2001

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Neodiyum (Nd+3) katkılı yitriyumsilikat (Nd³⁺:YSO) nanofosfor sentezi, optiksel ve yapısal özellikleri, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Fizik (Dr), 2011

Postgraduate, Lutesyum Fitolasianinlerin Yapısal ve Elektriksel Özellikleri, Marmara Üniversitesi, Faculty of Arts and Sciences, Physics, 2004

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Arts and Sciences, Physics, 2016 - 2018

Research Assistant PhD, Marmara University, Faculty of Arts and Sciences, Physics, 2011 - 2016

Research Assistant, Marmara University, Faculty of Arts and Sciences, Physics, 2001 - 2016

Academic and Administrative Experience

Birim Kalite Komisyonu Üyesi, Marmara University, Faculty of Arts and Sciences, Physics, 2017 - Continues

Fakülte Yönetim Kurulu Üyesi, Marmara University, Faculty of Arts and Sciences, Physics, 2020 - 2022

Deputy Head of Department, Marmara University, Faculty of Arts and Sciences, Physics, 2017 - 2022

Courses

Analog Elektronik, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Fizik II, Undergraduate, 2020 - 2021, 2019 - 2020

Dijital Elektronik, Undergraduate, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017

Mikrokontrolcülerle Proje Uygulamaları, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Fizik I, Undergraduate, 2020 - 2021, 2019 - 2020

Applied Optical Spectroscopy of Solids, Postgraduate, 2019 - 2020

Devre Analizi, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Optik, Undergraduate, 2020 - 2021

Optik, Undergraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of Up Conversion Emissions of Er³⁺/Yb³⁺ Codoped TeO₂-B₂O₃-Nb₂O₅-ZnO-WO₃-TiO₂ Glass Systems for Optical Thermometry**
Caner T. F., Sümer I., Doğan A., ERDEM M., ESMER K., Eryürek G.
ECS Journal of Solid State Science and Technology, vol.12, no.7, 2023 (SCI-Expanded)
- II. **The effect of crosslinker contents on the up-conversion luminescence properties of CdNb₂O₆: Er³⁺ powders embedded in the polyethylmethacrylate (PEMA) networks**
Buhari T., Aktas D. K., Erdem M., Eryurek G.
JOURNAL OF LUMINESCENCE, vol.251, 2022 (SCI-Expanded)
- III. **Bright white light up-conversion luminescence from Yb³⁺/Er³⁺/Tm³⁺ tridoped gadolinium gallium garnet nano-crystals for multicolor and white light-emitting diodes**
ÖRÜCÜ H., Tabanlı S., ERDEM M., ÖZTÜRK Y., Eryürek G.
OPTICAL MATERIALS, vol.131, 2022 (SCI-Expanded)
- IV. **Upconversion Yb³⁺/Er³⁺:La₂Ti₂O₇ phosphors for solid-state lighting and optical thermometry**
ERDEM M., Canturk S. B., Eryürek G.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.270, 2022 (SCI-Expanded)
- V. **Synthesis and characterization of the novel 4-(1-(pyridin-4-yl) ethoxyl) substituted bis(phthalocyaninato) rare earth complexes and investigation of their two-photon absorption-based third-order non-linear optical properties**
Çavuş A., GÖRK G., ERDEM M., ÖZER M.
Journal of Molecular Structure, vol.1247, 2022 (SCI-Expanded)
- VI. **Upconversion Luminescence and Temperature Sensing Characteristics of Ho³⁺/Yb³⁺ co-doped Tellurite Glasses**
Doğan A., Erdem M., Esmer K., Eryürek G.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.00, no.0, pp.0-9, 2021 (SCI-Expanded)
- VII. **Upconversion Yb³⁺/Er³⁺:Gadolinium Gallium Garnet Nanocrystals for White-Light Emission and Optical Thermometry**
Erdem M., Örucü H., Cantürk S. B., Eryürek G.
ACS APPLIED NANO MATERIALS, vol.4, no.7, pp.7162-7171, 2021 (SCI-Expanded)
- VIII. **Investigation of the optical temperature sensing properties of up-converting TeO₂-ZnO-BaO activated with Yb³⁺/Tm³⁺ glasses**
Doğan A., ERDEM M.
Sensors and Actuators, A: Physical, vol.322, 2021 (SCI-Expanded)
- IX. **Investigation of spectral output of Er³⁺ and Yb³⁺/Er³⁺ doped TeO₂-ZnO-BaO glasses for photonic applications**

Dogan A., Yildirim S. M., ERDEM M., ESMER K., Eryürek G.

NEW JOURNAL OF CHEMISTRY, vol.45, no.8, pp.3790-3799, 2021 (SCI-Expanded)

- X. **Nonlinear optical behavior and optical power limiting characteristics of peripheral symmetrical and non-symmetrical zinc phthalocyanines with nanosecond pulsed excitation**
Erdem M., Korkmaz E., Kösoğlu G., Ahmetli E., Farajzadeh N., Eryürek G., Koçak M.
Polyhedron, vol.195, 2021 (SCI-Expanded)
- XI. **Synthesis, characterization, third-order non-linear optical properties and DFT studies of novel SUBO bridged ball-type metallophthalocyanines**
Alizadeh S., Kösoğlu G., Erdem M., Açar-Selçuki N., Özer M., Salih B., Bekaroğlu Ö.
DALTON TRANSACTIONS, vol.49, no.47, pp.17263-17273, 2020 (SCI-Expanded)
- XII. **Nonlinear optical properties of peripheral symmetrically and non-symmetrically 4-(trifluoromethoxy)phenoxy substituted zinc phthalocyanines**
Farajzadeh N., KÖSOĞLU G., ERDEM M., Eryürek G., Kocak M. B.
SYNTHETIC METALS, vol.266, 2020 (SCI-Expanded)
- XIII. **Enhanced gain bandwidth of Tm³⁺ and Er³⁺ doped tellurite glasses for broadband optical amplifier**
Pepe Y., ERDEM M., Sennaroglu A., Eryürek G.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.522, 2019 (SCI-Expanded)
- XIV. **Crystalline phase effect on the up-conversion processes and white emission of Yb³⁺/Er³⁺/Tm³⁺:Y₂Si₂O₇ nanocrystals**
ERDEM M., Tabanlı S., Eryurek G., Samur R., Di Bartolo B.
DALTON TRANSACTIONS, vol.48, no.19, pp.6464-6472, 2019 (SCI-Expanded)
- XV. **Broadband, White Light Emission from Doped and Undoped Insulators**
Tabanlı S., Yilmaz H. C., Bilir G., Erdem M., Eryurek G., Di Bartolo B., Collins J.
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.7, no.1, 2018 (SCI-Expanded)
- XVI. **Effect of pressure and temperature on the white light produced by Ytterbium (III) doped and undoped Yttrium Silicate nanopowders excited by a laser diode**
Çinkaya Yılmaz H., Eryürek G., Bilir G., ERDEM M., Di Bartolo B.
JOURNAL OF LUMINESCENCE, vol.181, pp.321-326, 2017 (SCI-Expanded)
- XVII. **Blue cooperative upconversion and white light emission from Y₂Si₂O₇:Yb³⁺ nanopowders due to 975-nm infrared excitation**
Eryürek G., Çinkaya Yılmaz H., ERDEM M., Bilir G.
JOURNAL OF NANOPHOTONICS, vol.10, no.2, 2016 (SCI-Expanded)
- XVIII. **Pressure effects on the cooperative emission of Yb³⁺ : Y₂Si₂O₇ nano-powders**
ERDEM M., Eryürek G., Mergen A., Di Bartolo B.
CERAMICS INTERNATIONAL, vol.42, no.1, pp.1501-1506, 2016 (SCI-Expanded)
- XIX. **Structural and optical properties of Nd³⁺ doped columbite SrNb₂O₆**
EKMEKÇİ M. K., ERDEM M., BAŞAK A. S., DANIŞ Ö.
OPTIK, vol.127, no.8, pp.4123-4126, 2016 (SCI-Expanded)
- XX. **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)
- XXI. **Change of spectral output with pressure and white light generation in nanoscale Yb³⁺:Y₂Si₂O₇**
ERDEM M., Eryürek G., Di Bartolo B.
OPTICAL MATERIALS, vol.49, pp.90-93, 2015 (SCI-Expanded)
- XXII. **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)
- XXIII. **Molten salt synthesis and optical properties of Eu³⁺, Dy³⁺ or Nd³⁺ doped NiNb₂O₆ columbite-type phosphors**

- Elmekci M. K., ERDEM M., BAŞAK A. S., İlhan M., Mergen A.
CERAMICS INTERNATIONAL, vol.41, no.8, pp.9680-9685, 2015 (SCI-Expanded)
- XXIV. **White light emission from sol-gel derived gamma-Y₂Si₂O₇ nanoparticles**
ERDEM M., Eryürek G., Di Bartolo B.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.639, pp.483-487, 2015 (SCI-Expanded)
- XXV. **Up conversion based white light emission from sol-gel derived alpha-Y₂Si₂O₇ nanoparticles activated with Yb³⁺, Er³⁺ ions**
ERDEM M., Sitt B.
OPTICAL MATERIALS, vol.46, pp.260-264, 2015 (SCI-Expanded)
- XXVI. **Thermal and size effect on the R lines luminescence in YAG:Cr³⁺**
Erdem M., Ozen G., YAHŞI U., Di Bartolo B.
JOURNAL OF LUMINESCENCE, vol.158, pp.464-468, 2015 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **Molten salt synthesis and spectral properties of Nd³⁺ doped CdNb₂O₆ columbite phosphors**
EKMEKÇİ M. K., ERDEM M., Mergen A., Ozen G., Di Bartolo B.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.591, pp.230-233, 2014 (SCI-Expanded)
- XXX. **Effect of spatial confinement on luminescence of Y₃Al₅O₁₂ nano-particles doped with chromium ions**
Ozen G., ERDEM M., Collins J., Bettinelli M., Di Bartolo B., Piccinelli F., Speghini A.
JOURNAL OF LUMINESCENCE, vol.144, pp.191-197, 2013 (SCI-Expanded)
- XXXI. **Structural and spectroscopic properties of Nd³⁺:Y₂Si₂O₇ phosphors**
ERDEM M., Ozen G., TAV C., Di Bartolo B.
CERAMICS INTERNATIONAL, vol.39, no.6, pp.6029-6033, 2013 (SCI-Expanded)
- XXXII. **Crystallization behaviour of neodymium doped yttrium silicate nanophosphors**
ERDEM M., Ozen G., TAV C.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.31, no.14, pp.2629-2631, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Spectral Investigation of Yb³⁺/Ho³⁺/Tm³⁺:Y₂Si₂O₇ Upconverting Nanophosphors for the Usage of Temperature Sensing**
ERDEM M., ESMER K., Eryürek G.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.10, no.1, pp.55-62, 2023 (Scopus)
- II. **Spectral Outputs of Yb³⁺/Pr³⁺ Doped Tellurite Glasses for Solid-State Lighting**
ERDEM M., Doğan A.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.9, no.1, pp.21-28, 2022 (Scopus)
- III. **CdCr₂/sub₄/sub İnce Filmlerin Çözelti Molaritesinin Yapısal ve Optiksel Özellikleri Üzerindeki Etkileri**
BOYRAZ C., ERDEM M., URFA Y.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.21, pp.88, 2017 (Peer-Reviewed Journal)
- IV. **Concentration and Crystalline Phase Effects on the Spectroscopic Properties of Sol-Gel Synthesized Er³⁺:Y₂Si₂O₇ Nanopowders**
ERDEM M., ÖRÜCÜ H.

Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.21, no.1, pp.173-177, 2017 (Peer-Reviewed Journal)

- V. **Magnetic effect on the phase properties of neodymium-activated yttrium disilicate nanomaterials**
ERDEM M., BOYRAZ C.
TURKISH JOURNAL OF PHYSICS, vol.40, no.3, pp.270-277, 2016 (ESCI)

Books & Book Chapters

- I. **Solid State Synthesis, Structural and Up-Conversion Properties of Yb³⁺/Er³⁺ and Yb³⁺/Tm³⁺/Er³⁺ Doped La₂Ti₂O₇ Phosphors,**
TABANLI S., ERDEM M., Canturk B., MERGEN A., ERYÜREK G.
in: Advanced Study Institute on NATO ASI on Quantum Nano-Photonics,, , Editor, Springer, pp.449-451, 2018
- II. **Investigation of the Luminescence Spectral Profiles and the Efficiencies of Yb³⁺, Nd³⁺, Tm³⁺ Doped Y₂O₃-SiO₂ Nano-phosphors**
ÇINKAYA YILMAZ H., BİLİR G., ERDEM M., ERYÜREK G.
in: Nano-Optics: Principles Enabling Basic Research and Applications, Baldassare Di Bartolo, John Collins, Luciano Silvestri, Editor, Springer Netherlands, pp.441-444, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of Spectral Properties of Er³⁺/Yb³⁺ CO-Doped TeO₂-B₂O₃-Nb₂O₅-ZnO-WO₃-TiO₂ Glass Systems**
CANER T. F., Sümer I., Doğan A., ERDEM M., ESMER K., ERYÜREK G.
International Black Sea Modern Scientific Research Congress, Turkey, 29 September 2022
- II. **OPTICAL AND DIELECTRIC PROPERTIES OF Dy³⁺ DOPED TeO₂-TiO₂-ZnO-WO₃ GLASSES**
Özgür H., Şahin N., Erdem M., Esmer K.
3. HAGIA SOPHIA INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY SCIENTIFIC STUDIES, 15 - 16 September 2021, pp.205
- III. **EFFECT OF Nb₂O₅ ON THE OPTICAL AND DIELECTRIC PROPERTIES OF TELLURITE GLASS SYSTEMS ACTIVATED WITH Dy³⁺ IONS**
Şahin N., Özgür H., Erdem M., Esmer K.
3. HAGIA SOPHIA INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY SCIENTIFIC STUDIES, 15 - 16 September 2021, pp.204
- IV. **DOWNCONVERSION LUMINESCENCE PROPERTIES OF Yb³⁺/Pr³⁺ DOPED TeO₂-ZnO-BaO GLASS SYSTEMS**
Doğan A., ERDEM M., ESMER K., ERYÜREK G.
1st INTERNATIONAL CONGRESS ON NATURAL SCIENCES (ICNAS-2021), Erzurum, Turkey, 10 September 2021
- V. **UP CONVERSION LUMINESCENCE CHARACTERISTICS OF Yb³⁺/Er³⁺ DOPED TELLURITE BASED GLASSES**
CANER T. F., ERDEM M., ESMER K., ERYÜREK G.
1st INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN FUNDAMENTAL AND APPLIED SCIENCES (ISFAS-2021), Erzurum, Turkey, 10 September 2021
- VI. **Non-linear Optik Özellikli Yeni Tip (4- (1- (Piridin-4-il) etoksil)) Süstitüe Double-Decker Ftalosiyanın Komplekslerinin Sentezi ve Karakterizasyonu**
Çavuş A., Kösoğlu G., Erdem M., Özer M.
32. ulusal kimya kongresi, İstanbul, Turkey, 17 - 19 September 2020, pp.220-221
- VII. **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

- VIII. **Temperature sensing behavior in Er³/Yb³ codoped Lutetium oxyorthosilicate nanopowders**
ÖRÜCÜ H., ERDEM M.

35. International Turkish Physics Congress, 4 - 08 September 2019

- IX. **Synthesis, characterization and luminescence spectroscopy of GGG:Er³,Yb³ nanopowders prepared by sol-gel method**
ÖRÜCÜ H., ERDEM M., ERYÜREK G.

14. Nanoscience and Nanotechnology Conference, 23 - 25 September 2018

- X. **Optical temperature sensing properties of Er³/Yb³ codoped Gadolinium gallium garnet nanopowders**
ÖRÜCÜ H., ERDEM M.

34. International Turkish Physics Congress, 4 - 10 September 2018

- XI. **Nonlinear Optical Absorption and Refraction Properties of Zinc Phthalocyanine Compounds**
ERDEM M., EDEŞ HUYAL F. K., ERYÜREK G., PEKBELGİN KARAOĞLU H. R., KOÇAK M.
the congress of International Turkish World Engineering and Science, 7 - 10 December 2017

- XII. **The Effect of substrate on physical properties of CdCr₂S₄ thin films**
BOYRAZ C., ERDEM M., URFA Y., ÖZDEMİR M.

1 st international Symposium on Multidisciplinary Studies and Innovative Technologies, 2 - 04 November 2017

- XIII. **Laser induced broad anti- Stokes white emission from La₂Ti₂O₇ activated with RE³ ions**
ERDEM M., CANTÜRK B., MERGEN A., ERYÜREK G.

1.st International Symposium on Multidisciplinary Studies and Innovative Technologies, 2 - 04 November 2017

- XIV. **Morphology and Broad White Light Emission properties of Yb³/Er³/Tm³: Y₂Si₂O₇**
SAMUR R., ERDEM M., ERYÜREK G.

1st International Symposium on Multidisciplinary Studies and Innovative Technologies, 2 - 04 November 2017

- XV. **SYNTHESIS AND LUMINESCENCE PROPERTIES OF THULIUM(III) DOPED and THULIUM(III) /NEODYMIUM(III) CODOPED YTTRIUM SILICATE NANOPHOSPHORS**
ÇINKAYA YILMAZ H., ERYÜREK G., ERDEM M., Di Bartolo B.

The Porous and Powder Materials Symposium and Exhibitions- PPM2017, 12 - 15 September 2017

- XVI. **Solid State Synthesis, Structural and Up-Conversion Properties of Yb³⁺/ Er³⁺ and Yb³⁺/ Tm³⁺/ Er³⁺ Doped La₂Ti₂O₇ Phosphors**
Tabanlı S., ERDEM M., Canturk B., Mergen A., Eryürek G.

NATO-Advanced-Study-Institute Conference on Quantum Nano-Photonics, Erice, Italy, 3 - 04 August 2017, pp.449-451

- XVII. **Solid State Synthesis Structural and Up Conversion properties of Yb/Er³ and Yb³/Tm³/Er³ doped La₂Ti₂O₇ phosphors**
TABANLI S., ERDEM M., Canturk B., MERGEN A., ERYÜREK G.

International School of Atomic and Molecular Spect. 34th Quantum Nanooptics, 20 July - 04 August 2017

- XVIII. **Concentration effect on the Nonlinear Optical Absorption of the Novel 4-(2-(dibenzylamino)ethoxyl) Substituted Nickel(II) Phthalocyanine Complex**
ERDEM M., SEMA Ş., EDEŞ F. K., ÖZER M., SALİH B., ERYÜREK G., BEKAROĞLU Ö.

The International ISCMP Joint Science Congress of Materials and Polymers 25-28 August - Metropol Lake Resort - OHRID MACEDONIA, 25 August - 28 July 2017

- XIX. **Synthesis and Luminescence Properties of Lanthanide Doped Gd₃Ga₅O₁₂ Nanopowders**
ÖRÜCÜ H., ERDEM M., MERGEN A., ESMER K., ERYÜREK G.
WITAM 2016, 28 September - 02 October 2016

- XX. **Synthesis and luminescence properties of lanthanide doped Gd₃Ga₅O₁₂ nanopowders**
ÖRÜCÜ H., ERDEM M., MERGEN A., ESMER K., ERYÜREK G.

2ND INTERNATIONAL CONGRESS ON THE WORLD OF TECHNOLOGY AND ADVANCED MATERIALS, 28 September - 02 October 2016

- XXI. **Synthesis and Characterization of Gadolinium Gallium Garnet nanopowders by sol gel method**
ÖRÜCÜ H., ERDEM M.

Turkish Physical Society 32nd International Physics Congress, 6 - 09 September 2016

- XXII. **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
- XXIII. **Synthesis characterization and photoluminescence properties ofEr³⁺ Y₂Si₂O₇ nanophosphors**
ERDEM M., Orucu H., EKMEKÇİ M. K.
Applied Physics and MathematicsRome (Italy), 25 - 27 July 2016
- XXIV. **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
- XXV. **Spectroscopic Properties of Sol Gel Synthesized Y₂Si₂O₇ Nd³⁺ Nanopowders based on concentration and cyristalline phase**
ÖRÜCÜ H., ERDEM M., ERYÜREK G.
Global Conferences on Applied Physics and Mathematics Rome (Italy, 25 - 27 July 2016
- XXVI. **Structural and Optical Properties of Rare Earth Nano Crystalline Oxides Embedded in Polymethyl Methacrylate**
TABANLI S., BİLİR G., ERDEM M., ERYÜREK G.
TechConnect World Innovation Conference, United States Of America, 22 - 25 May 2016, vol.4, pp.217-220
- XXVII. **Effect of Pressure and Excitation Power on Up conversion Assisted White Light Emission in Yttrium Oxide and Silicate Nanophosphors**
ERYÜREK G., ERDEM M., BİLİR G.
TechConnect World Innovation Conference, 22 - 25 May 2016, vol.4, pp.234-238
- XXVIII. **Investigation of Boron doping effect on photoluminescence properties of Dy³⁺ CdNb₂O₆phosphors**
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
- XXIX. **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
- XXX. **On the pressure dependence of White light emitted by NIR excited Ytterbium III doped Yttrium Silicate**
ÇINKAYA YILMAZ H., ERYÜREK G., KELLY C., BİLİR G., ERDEM M., COLLINS J., BARTOLO B. D.
2016 Spring Meeting APS New England Section, 1 - 02 April 2016
- XXXI. **Optical base pressure sensing ability of Yb³⁺ Y₂Si₂O₇ nanoparticles**
ERDEM M., ERYÜREK G., Bartolo B. D.
TechConnect World Innovation Conference, United States Of America, 22 - 25 May 2016, vol.4, pp.251-255
- XXXII. **Phase Dependent Magnetic Properties of Neodymium Doped Yttrium Disilicate Y₂Si₂O₇**
ERDEM M., BOYRAZ C.
6th International Conference on NANOTECHNOLOGY, Roma, Italy, 7 - 09 November 2015
- XXXIII. **Phase Dependent Magnetic Properties of Neodymium Doped Yttriumdisilicates**
ERDEM M., BOYRAZ C.
6th International Conference on Nanotechnology(NANOTECHNOLOGY '15), Italy, 7 - 09 November 2015, vol.55, pp.142-148
- XXXIV. **Cooperative and White Light Emission from Yb and Yb Er Doped Y₂Si₂O₇ Nanopowders**
BALDASSARE D. B., ERDEM M., JOHN C., BRYAN S., JOSEPH L.
228th ECS Meeting (October 11-15, 2015) Phoenix, USA, 11 - 15 October 2015
- XXXV. **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
- XXXVI. **White Upconversion Emission From Yb³⁺ Er³⁺ Tm³⁺ Y₂Si₂O₅ 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
- XXXVII. **Pressure Effect On The Yb₃ Y₂Si₂O₇ Nano Powders**
ERDEM M., TAV C., MERGEN A., ERYÜREK G., BALDASSARE D. B.
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- XXXVIII. **Phase dependent Spectroscopic properties of Neodymium or Erbium doped Yttriumdisilicates**
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