

## Prof. MUSTAFA TOPAKSU

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: L-8797-2018

Yoksis Researcher ID: 22975

### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 1996 - 2004

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 1992 - 1996

Undergraduate, Cukurova University, Fen Edebiyat Fakültesi, Fizik, Turkey 1988 - 1992

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Kubad Abad?a (Konya) ait Selçuklu Seramik ve Çinilerinin Termolüminesans (TL) Tarihlendirilmesi, Yapısının Belirlenmesi ve Teknolojisinin Açıklanması, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2004

Postgraduate, Fizyon İzleri ve Minerallere Fizyon İzleri Yönteminin Uygulanması, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 1996

### Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Nuclear physics, General Nuclear Reactions, Natural Sciences

### Academic Titles / Tasks

Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2014 - Continues

Associate Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2014 - 2014

Associate Professor, Adiyaman University, Fen Edebiyat , Fizik, 2009 - 2014

Assistant Professor, Adiyaman University, Fen Edebiyat , Fizik, 2007 - 2009

## Academic and Administrative Experience

Cukurova University, Fen Bilimleri Enstitüsü, 2017 - Continues  
Cukurova University, Fen Edebiyat Fakültesi, Fizik, 2016 - Continues  
Adiyaman University, Fen Edebiyat Fakültesi, Fizik, 2009 - 2014  
Adiyaman University, Fen Edebiyat Fakültesi, Fizik, 2009 - 2014  
Adiyaman University, 2010 - 2012

## Advising Theses

Topaksu M., Neodimyum (Nd) ve seryum (Ce) katkılı kalsiyum florürün ( $\text{CaF}_2$ ) termolüminesans (TL) özelliklerinin belirlenmesi, Postgraduate, H.YAZAN(Student), 2020  
TOPAKSU M., Samaryum ve Tulyum Katkılı Çinko Borat Fosforlarının Lüminesans Özelliklerinin İncelenmesi ve Termolüminesans Dozimetresi Olarak Kullanılabilirliğinin Araştırılması (Devam Ediyor), Doctorate, K.BULCAR(Student), 2016  
TOPAKSU M., Doğal Apatit Mineralinin Termolüminesans (TL), Optiksel Uyarılmayla Lüminesans (OSL) ve Elektron Spin Rezonans (ESR) Yöntemleriyle İncelenmesi (Devam Ediyor), Doctorate, T.KARAMAN(Student), 2016  
TOPAKSU M., Silisyumca Zengin Minerallerin Lüminesans Özelliklerinin Belirlenmesi (Devam Ediyor), Doctorate, S.BALCI(Student), 2016  
TOPAKSU M., Serpantin Mineralinin Karakterizasyonu ve Lüminesans Özellikleri (Devam Ediyor), Postgraduate, E.. (Student), 2016  
TOPAKSU M., Yarı-deneyisel nükleer reaksiyon tesir kesiti formüllerinin geliştirilmesi ve uygulamaları (Devam Ediyor), Doctorate, S.AKÇA(Student), 2016  
TOPAKSU M., Dose calculations for HDR and/or LDR Brachytherapy sources using Monte Carlo simulation technique and comparison with that of dose measurements (Devam Ediyor), Doctorate, Z.Gizem(Student), 2016  
TOPAKSU M., Titanitlerde Doğal Ve Yapay Fizyon İzlerinin Tavlama Kinetikleri, Postgraduate, M.Mükerrem(Student), 2014  
TOPAKSU M., Lantan Katkılı Çinko Boratların Kinetik Parametrelerinin Belirlenmesi Adiyaman Üniversitesi, Postgraduate, A.Halit(Student), 2014  
TOPAKSU M.,  $\text{Zn}_{1-(x+y)}\text{MnyGdxO}$  ( $y = 0.01$ ;  $x = 0.02, 0.03, 0.04$ ) Bileşiklerinin Yapısal Ve Manyetik Özelliklerinin Araştırılması, Postgraduate, K.BULCAR(Student), 2014  
TOPAKSU M., Doğal Kuvars Minerallerinin TL özellikleri ve Kinetik Parametrelerinin Belirlenmesi., Postgraduate, R.AKKAYA(Student), 2011  
TOPAKSU M., Orta Anadolu fluoritlerinin ( $\text{CaF}_2$ ) termolüminesans (TL) ışımaya tepelerine tavlamanın etkisi, Postgraduate, M.YÜKSEL(Student), 2008

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Structural and temperature-dependent photoluminescence properties of  $\text{NaBaB}_3\text{O}_7:\text{Ce}^{3+}, \text{Tb}^{3+}$  phosphors synthesized using the combustion method**  
Altowyan A. S., Oğlakci M., TOPAKSU M., Ozturk E., Hakami J., Coban M., Ozgur Keskin M., Ayvacikli M., Kaynar U., Canimoglu A., et al.  
Advanced Powder Technology, vol.35, no.6, 2024 (SCI-Expanded)
- II. **Beta irradiation-induced thermoluminescence: Glow curve analysis and kinetic parameters in combustion-synthesized undoped  $\text{Ca}_4\text{YO}(\text{BO}_3)_3$**   
Madkhali A., Jabali D., Souadi G., Sonsuz M., Kaynar U., AKÇA ÖZALP S., Ayvacikli M., Madkhali O., TOPAKSU M., Can N.  
Applied Radiation and Isotopes, vol.208, 2024 (SCI-Expanded)
- III. **Radiation-induced thermoluminescence in  $\text{Ca}_5(\text{PO}_4)_3\text{OH}$  powder from eggshell: Trapping parameter assessment**  
Souadi G., Bulcar K., Yucel A., Oğlakci M., SEZER S., Madkhali O., Depci T., Topaksu M., Can N.  
Radiation Physics and Chemistry, vol.217, 2024 (SCI-Expanded)

- IV. **Europium-doped strontium gadolinium oxide phosphor: Investigating structural and photoluminescence characteristics via sol-gel combustion synthesis**  
Sarıkci S., TOPAKSU M., Ozturk E., Souadi G., Madkhali O., Madkhali A., Can N.  
Applied Radiation and Isotopes, vol.205, 2024 (SCI-Expanded)
- V. **Exploring beta irradiation responses in Sr<sup>2+</sup>-Doped hydroxyapatite: A thermoluminescence study**  
Bulcar K., Oglakci M., Altowyan A. S., BİLGİN R., Yucel A., Sezer S., Hakami J., Depci T., TOPAKSU M., Can N.  
Ceramics International, 2024 (SCI-Expanded)
- VI. **Assessment of structural and thermoluminescence characteristics of porcelain used as an electrical insulator**  
Portakal Uçar Z. G., Akça Özalp S., Oğlakçı M., Barad A., Topaksu M.  
AMERICAN CERAMIC SOCIETY, JOURNAL, vol.107, no.1, pp.640-658, 2024 (SCI-Expanded)
- VII. **Synthesis and thermoluminescence behavior of novel Sm<sup>3+</sup> doped YCa<sub>40</sub>(BO<sub>3</sub>)<sub>3</sub> under beta irradiation**  
Altowyan A. S., Sonsuz M., Kaynar U., Hakami J., PORTAKAL UÇAR Z. G., Ayvacikli M., TOPAKSU M., Can N.  
Ceramics International, 2024 (SCI-Expanded)
- VIII. **Thermoluminescence kinetics in beta-irradiated novel ZnGa<sub>20</sub>4:Eu<sup>3+</sup> phosphor produced via gel combustion synthesis**  
Barad A., TOPAKSU M., Hakami J., Can N.  
Ceramics International, 2024 (SCI-Expanded)
- IX. **Thermoluminescence behavior of Ce<sup>3+</sup> doped lanthanum tri-borate phosphor for dosimetry applications**  
Oğlakçı M., Portakal Uçar Z. G., Akça Özalp S., Correcher V., Benavente J. F., Sonsuz M., Can N., Halefoğlu Y. Z., Topaksu M.  
CERAMICS INTERNATIONAL, vol.49, no.22PB, pp.36092-36102, 2023 (SCI-Expanded)
- X. **Anomalous heating rate effect in GdAl<sub>3</sub>(BO<sub>3</sub>)<sub>4</sub>:Dy<sup>3+</sup> under beta radiation stimulation: Analysis of dose response and kinetic parameters**  
Alajlani Y., Oğlakçı M., Bulcar K., Kaynar Ü. H., Portakal Uçar Z. G., Athlawi H., Ayvacikli M., Topaksu M., Can N.  
CERAMICS INTERNATIONAL, vol.49, no.24PA, pp.243-254, 2023 (SCI-Expanded)
- XI. **Unusual heating rates, dose responses and kinetic parameters detected on thermoluminescence from YAl<sub>3</sub>(BO<sub>3</sub>)<sub>4</sub>:Sm<sup>3+</sup> phosphors**  
Altowyan A. S., Kaynar Ü. H., Bulcar K., Oğlakçı M., Portakal Uçar Z. G., Hakami J., Topaksu M., Can N.  
CERAMICS INTERNATIONAL, vol.49, no.20, pp.33291-33304, 2023 (SCI-Expanded)
- XII. **Unravelling the impact of unusual heating rate, dose-response and trap parameters on the thermoluminescence of Sm<sup>3+</sup> activated GdAl<sub>3</sub>(BO<sub>3</sub>)<sub>4</sub> phosphors exposed to beta particle irradiation**  
Souadi G., Kaynar Ü. H., Sonsuz M., Akça Özalp S., Ayvacikli M., Topaksu M., Özmen Ö., Can N.  
RADIATION PHYSICS AND CHEMISTRY, vol.213, pp.111211, 2023 (SCI-Expanded)
- XIII. **Fired shards from selected ancient Anatolian ceramics: a brief review of their mineralogical nature and pedological-microstructural evolution**  
KAPUR S., Kadir S., Kelling G., AKÇA E., TOPAKSU M., SAKARYA N., YEĞİNGİL Z., EREN M., FITZPATRICK E. A.  
Turkish Journal of Earth Sciences, vol.32, no.4, pp.555-576, 2023 (SCI-Expanded)
- XIV. **Anomalous dose behaviour of thermoluminescence glow curves and kinetic analysis of beta irradiated YAl<sub>3</sub>(BO<sub>3</sub>)<sub>4</sub>:Tb phosphor**  
Souadi G., Bulcar K., Kaynar U. H., Ayvacikli M., Topaksu M., Cam-Kaynar S., Can N.  
APPLIED RADIATION AND ISOTOPES, vol.194, 2023 (SCI-Expanded)
- XV. **Comparison of thermoluminescence characteristics of undoped and europium doped YAl<sub>3</sub>(BO<sub>3</sub>)<sub>4</sub> phosphor synthesized by combustion method: Anomalous heating rate, dose response and kinetic analyses**  
Kaynar U. H., Oglakci M., Bulcar K., Benourdjia S., Bakr M., Ayvacikli M., Canimoglu A., Topaksu M., Can N.  
RADIATION PHYSICS AND CHEMISTRY, vol.204, 2023 (SCI-Expanded)
- XVI. **A thermoluminescence study of Tb<sup>3+</sup> doped LaB<sub>3</sub>O<sub>6</sub>: Dosimetric characteristics and kinetic parameters**

- Portakal-Ucar Z. G., Oglakci M., Correcher V., Sonsuz M., Can N., Halefoglul Y. Z., Topaksu M.  
JOURNAL OF LUMINESCENCE, vol.253, 2023 (SCI-Expanded)
- XVII. **Thermoluminescence characteristics and kinetic analyses of europium doped strontium gadolinium oxide phosphor.**  
Sarıkci S., Topaksu M., Madkhali O., Can N.  
Applied radiation and isotopes : including data, instrumentation and methods for use in agriculture, industry and medicine, vol.191, pp.110549, 2023 (SCI-Expanded)
- XVIII. **Synthesis and thermoluminescence study of Eu doped novel LaB03 phosphor: Heating rate, dose response, trapping parameters**  
Sonsuz M., Topaksu M., Hakami J., Can N.  
RADIATION PHYSICS AND CHEMISTRY, vol.201, 2022 (SCI-Expanded)
- XIX. **Samarium doped Ca3Y2B4O12 phosphor prepared by combustion method: Anomalous heating rate effect, dosimetric features, and TL kinetic analyses**  
Hakami J., Oğlakçı M., Portakal Uçar Z. G., Sonsuz M., Kaynar Ü. H., Ayvacıklı M., Topaksu M., Can N.  
JOURNAL OF LUMINESCENCE, vol.251, no.119200, pp.1-11, 2022 (SCI-Expanded)
- XX. **Thermoluminescence characterization and kinetic parameters of Dy3+ activated Ca3Y2B4O12**  
Hakami J., Sonsuz M., Kaynar U. H., Ayvacıklı M., Oglakci M., Topaksu M., Can N.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.525, pp.34-40, 2022 (SCI-Expanded)
- XXI. **Structural and analyses of thermoluminescence glow curves in Sm doped SrGd2O4 phosphor**  
Sarıkci S., Topaksu M., Bakr M., Can N.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.911, 2022 (SCI-Expanded)
- XXII. **Preliminary study on the thermally stimulated luminescence characterization of UVC and beta irradiated tridymite**  
Balci S., Topaksu M., Benavente J. F., Garcia-Guinea J., Correcher V.  
APPLIED RADIATION AND ISOTOPES, vol.186, 2022 (SCI-Expanded)
- XXIII. **Novel Dy incorporated Ca3Y2B4O12 phosphor: Insights into the structure, broadband emission, photoluminescence and cathodoluminescence characteristics**  
Qaisi A. H., Kaynar U. H., Ayvacıklı M., Garcia-Guinea J., Alajlani Y., TOPAKSU M., Can N.  
APPLIED RADIATION AND ISOTOPES, vol.185, 2022 (SCI-Expanded)
- XXIV. **Thermoluminescence glow curve analysis and kinetic parameters of Eu doped Li2MoO4 ceramic phosphors**  
Souadi G., Oglakci M., Kaynar U. H., Correcher V., Benavente J. F., Bulcar K., Ayvacıklı M., Hiziroglu A., Topaksu M., Can N., et al.  
CERAMICS INTERNATIONAL, vol.48, no.13, pp.19258-19265, 2022 (SCI-Expanded)
- XXV. **Kinetic parameters and anomalies in heating rate effects of the thermoluminescence from rock salt from Tuzluca in Turkey**  
Bulcar K., Oglakci M., Hakami J., Topaksu M., Can N., Alma M. H.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.523, pp.8-15, 2022 (SCI-Expanded)
- XXVI. **Anomalous heating rate dependence and analyses of thermoluminescence glow curves in Gd doped ZnB2O4 phosphors**  
Atasoz S., TOPAKSU M., Souadi G., Can N.  
JOURNAL OF LUMINESCENCE, vol.246, 2022 (SCI-Expanded)
- XXVII. **Thermoluminescence glow curve analysis of Ca3Y2B4O12 phosphor prepared using combustion method**  
Hakami J., Sonsuz M., Kaynar Ü. H., Ayvacıklı M., Oğlakçı M., Yüksel M., Topaksu M., Can N.  
APPLIED RADIATION AND ISOTOPES, vol.186, pp.1-6, 2022 (SCI-Expanded)
- XXVIII. **Thermal quenching and evaluation of trapping parameters of thermoluminescence glow-peaks of beta irradiated NaBaBO3: Tb3+ for TLD applications**  
Oglakci M., TOPAKSU M., Alajlani Y., Can N., Karali E. E.

- JOURNAL OF LUMINESCENCE, vol.244, 2022 (SCI-Expanded)
- XXXIX. **Synthesis and beta particle excited thermoluminescence of BaSiF<sub>6</sub> phosphor**  
Souadi G., AKÇA ÖZALP S., Karali E. E., Kaynar U. H., Ayvacikli M., Topaksu M., Can N.  
APPLIED RADIATION AND ISOTOPES, vol.181, 2022 (SCI-Expanded)
- XXX. **Characterization of thermoluminescence kinetic parameters of dolomite after exposure to  $\beta$ -radiation dose**  
Akça Özalp S., Portakal Uçar Z. G., Oğlakçı M., Yüksel M., Halefoğlu Y. Z., Topaksu M.  
JOURNAL OF LUMINESCENCE, vol.240, pp.118427, 2021 (SCI-Expanded)
- XXXI. **Thermoluminescence study and trapping parameters of beta irradiated NaBaB<sub>3</sub>O<sub>7</sub>:Gd<sup>3+</sup> phosphor**  
Oğlakçı M., Topaksu M., Souadi G. O., Can N.  
JOURNAL OF LUMINESCENCE, vol.238, no.118245, pp.1-9, 2021 (SCI-Expanded)
- XXXII. **Paleoseismic history of the Manisa fault zone, Western Anatolia**  
Duran İ., Sözbilir H., Eski S., Softa M., Uytun H., Yüksel M., Topaksu M.  
Turkish Journal Of Earth Sciences, vol.30, no.1, pp.806-832, 2021 (SCI-Expanded)
- XXXIII. **Characterization of thermoluminescence kinetic parameters of beta irradiated B doped Ca<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>OH powder obtained from eggshell.**  
Depci T., Oglakci M., Sezer S., Yücel A., Dogan T., Souadi G., Topaksu M., Can N.  
Applied radiation and isotopes : including data, instrumentation and methods for use in agriculture, industry and medicine, vol.173, pp.109738, 2021 (SCI-Expanded)
- XXXIV. **Thermoluminescence of Ce and Nd co-doped CaF<sub>2</sub> phosphors after beta irradiation**  
Yazan H., Portakal Uçar Z. G., Akça Özalp S., Topaksu M., Townsend P., Can N.  
JOURNAL OF LUMINESCENCE, vol.234, pp.117949, 2021 (SCI-Expanded)
- XXXV. **Effect of Sm<sup>3+</sup> and Mn<sup>2+</sup> incorporation on the structure and luminescence characteristics of Zn<sub>2</sub>SiO<sub>4</sub> phosphor**  
Portakal Uçar Z. G., Doğan T., Akça Özalp S., Kaynar Ü. H., Topaksu M.  
RADIATION PHYSICS AND CHEMISTRY, vol.181, pp.109329, 2021 (SCI-Expanded)
- XXXVI. **Thermoluminescence glow curve analysis and evaluation of trapping parameters of dysprosium doped lanthanum calcium borate La<sub>2</sub>CaB<sub>10</sub>O<sub>19</sub>**  
Bulcar K., Oglakci M., Kaynar U. H., Ayvacikli M., Souadi G., Topaksu M., Can N.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.489, pp.58-68, 2021 (SCI-Expanded)
- XXXVII. **Thermoluminescence study and evaluation of trapping parameters of samarium doped barium silicate phosphor**  
Alajlani Y., Oglakci M., Kaynar U. H., Ayvacikli M., Portakal-Ucar Z. G., TOPAKSU M., Can N.  
JOURNAL OF ASIAN CERAMIC SOCIETIES, vol.9, no.1, pp.268-280, 2021 (SCI-Expanded)
- XXXVIII. **Thermoluminescence glow curves of beta irradiated NaBaB<sub>3</sub>O<sub>7</sub>: Ce<sup>3+</sup> phosphor synthesized by combustion method**  
Oglakci M., TOPAKSU M., Can N.  
SENSORS AND ACTUATORS A-PHYSICAL, vol.315, 2020 (SCI-Expanded)
- XXXIX. **Thermoluminescence properties of beta particle irradiated Ca<sub>3</sub>Al<sub>2</sub>O<sub>6</sub> phosphor relative to environmental dosimetry**  
Bakr M., Portakal-Ucar Z. G., Yüksel M., Kaynar U. H., Ayvacikli M., Benourdja S., Canimoglu A., Topaksu M., Hammoudeh A., Can N.  
JOURNAL OF LUMINESCENCE, vol.227, 2020 (SCI-Expanded)
- XL. **Thermoluminescence of beta-particle induced Bern-4M muscovite**  
Portakal-Uçar Z. G., Akça S., Balci-Yegen S., Yüksel M., Doğan T., Souadi G., Parlak O., Topaksu M., Can N.  
RADIATION PHYSICS AND CHEMISTRY, vol.174, 2020 (SCI-Expanded)
- XLI. **TL and OSL studies on gallium sulfide (GaS) single crystals**  
Işık M., Yüksel M., Topaksu M., Gasanly N. M.  
JOURNAL OF LUMINESCENCE, vol.225, 2020 (SCI-Expanded)
- XLII. **Thermoluminescence behaviour of europium doped magnesium silicate after beta exposure**

- Uçar Z. G., Kaynar Ü., DOĞAN T., Souadi G., Ayvacikli M., Canimoglu A., TOPAKSU M., Can N.  
Optical Materials, vol.104, 2020 (SCI-Expanded)
- XLIII. **A study on thermoluminescence behaviour of Eu doped LaB3O6 irradiated with beta particles**  
Halefoğlu Y. Z., Oğlakçı M., Portakal Z. G., Akca S., Souadi G. O., Canimoglu A., Topaksu M., Can N.  
Radiation Physics and Chemistry, vol.168, 2020 (SCI-Expanded)
- XLIV. **Structural and spectroscopic properties of LaAlB3 doped with Eu3+ ions**  
Halefoğlu Y. Z., Oğlakçı M., Yüksel M., Canimoğlu A., Topaksu M., Can N.  
APPLIED RADIATION AND ISOTOPES, vol.154, 2019 (SCI-Expanded)
- XLV. **Thermoluminescence properties of Tb doped Mg2SiO4 after beta irradiation**  
AKÇA S., Portakal Z. G., DOĞAN T., Kucuk N., Canimoğlu A., TOPAKSU M., Can N.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH  
MATERIALS AND ATOMS, vol.458, pp.12-20, 2019 (SCI-Expanded)
- XLVI. **Comparative studies on thermoluminescence characteristics of non-doped Mg2SiO4 prepared via a solid-state reaction technique and wet-chemical method: An unusual heating rate dependence**  
Doğan T., Akça S., Yüksel M., Kucuk N., Ayvacikli M., Karabulut Y., Canimoğlu A., Topaksu M., Can N.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.795, pp.261-268, 2019 (SCI-Expanded)
- XLVII. **Thermoluminescence analysis of beta irradiated ZnB2O4: Pr3+ phosphors synthesized by a wet-chemical method**  
Akca S., Oğlakçı M., Portakal Z. G., Kucuk N., Bakr M., Topaksu M., Can N.  
RADIATION PHYSICS AND CHEMISTRY, vol.160, pp.105-111, 2019 (SCI-Expanded)
- XLVIII. **Synthesis and luminescence characterization of microcrystalline Nd-doped calcium sulfate**  
Yüksel M., Doğan T., Portakal Z. G., Topaksu M.  
APPLIED RADIATION AND ISOTOPES, vol.148, pp.197-203, 2019 (SCI-Expanded)
- XLIX. **Thermoluminescence spectra of Tm doped ZnB2O4 phosphor prepared via a wet-chemical synthesis**  
Bulcar K., Kucuk N., TOPAKSU M., Can N.  
APPLIED RADIATION AND ISOTOPES, vol.147, pp.177-181, 2019 (SCI-Expanded)
- L. **Neutron plus Gamma response of undoped and Dy doped MgB4O7 thermoluminescence dosimeter**  
Iflazoglu S., YILMAZ A. Ö., Kafadar V. E., TOPAKSU M., Yazici A. N.  
APPLIED RADIATION AND ISOTOPES, vol.147, pp.91-98, 2019 (SCI-Expanded)
- LI. **Characterization and thermoluminescence behavior of beta irradiated NaBaBO3 phosphor synthesized by combustion method**  
Oğlakçı M., Akça S., Halefoğlu Y. Z., Doğan T., Ayvacikli M., Karabulut Y., Topaksu M., Can N.  
CERAMICS INTERNATIONAL, vol.45, pp.7011-7017, 2019 (SCI-Expanded)
- LII. **Cathodoluminescence and thermoluminescence of ZnB2O4:Eu3+ phosphors prepared via wet-chemical synthesis**  
DOĞAN T., Tormo L., AKÇA S., Kucuk N., Garcia Guinea J., Karabulut Y., Ayvacikli M., Oglakci M., TOPAKSU M., Can N.  
CERAMICS INTERNATIONAL, vol.45, no.4, pp.4918-4925, 2019 (SCI-Expanded)
- LIII. **Preparation and photoluminescence properties of aluminate phosphors produced by combustion synthesis**  
Halefoğlu Y. Z., Yüksel M., Derin H., Can N., Topaksu M., Ozturk E., Karacaoglu E.  
APPLIED RADIATION AND ISOTOPES, vol.142, pp.46-50, 2018 (SCI-Expanded)
- LIV. **UV effect on the cathodo- and thermoluminescence properties of a gem-quality Cr-rich diaspore (alpha-AlOOH)**  
TOPAKSU M., Correcher V., Boronat C., Garcia-Guinea J., Portakal Z. G., AKÇA S.  
APPLIED RADIATION AND ISOTOPES, vol.141, pp.101-106, 2018 (SCI-Expanded)
- LV. **Anomalous heating rate response of beta irradiated Sm3+ and Tb3+ doped BaAl2O4 phosphors**  
Kaynar U. H., Guvener E., Ayvacikli M., DOĞAN T., Balci-Yegen S., Oglakci M., TOPAKSU M., Karabulut Y., Canimoglu A., Benourdja S., et al.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.764, pp.523-529, 2018 (SCI-Expanded)
- LVI. **Heating rate properties and kinetic parameters of thermoluminescence glow curves of La-doped zinc borate**

- Yüksel M., Doğan T., Balci-Yegen S., Akça S., Portakal Z. G., Kucuk N., Topaksu M.  
RADIATION PHYSICS AND CHEMISTRY, vol.151, pp.149-155, 2018 (SCI-Expanded)
- LVII. Thermoluminescence behavior of Sm<sup>3+</sup> activated ZnB<sub>2</sub>O<sub>4</sub> phosphors synthesized using low temperature chemical synthesis method**  
Bulcar K., Doğan T., Akça S., Yüksel M., Ayvacıklı M., Karabulut Y., Kucuk N., Canımoglu A., Can N., Topaksu M.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.428, pp.65-71, 2018 (SCI-Expanded)
- LVIII. Doping Sm<sup>3+</sup> into ZnB<sub>2</sub>O<sub>4</sub> phosphors and their structural and cathodoluminescence properties**  
Kucuk N., Bulcar K., DOĞAN T., Garcia Guinea J., Portakal Z. G., Karabulut Y., Ayvacıklı M., Canımoglu A., TOPAKSU M., Can N.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.748, pp.245-251, 2018 (SCI-Expanded)
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## Non Academic Experience

Adıyaman Üniversitesi

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