

## Prof. MUSTAFA TOPAKSU

### Personal Information

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### International Researcher IDs

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

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### 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

## Supervised Theses

Topaksu M., Neodimyum (Nd) ve seryum (Ce) katkılı kalsiyum florürün (CaF<sub>2</sub>) termoluminesans (TL) özelliklerinin belirlenmesi, Postgraduate, H.YAZAN(Student), 2020  
TOPAKSU M., Silisyumca Zengin Minerallerin Lüminesans Özelliklerinin Belirlenmesi (Devam Ediyor), Doctorate, S.BALCI(Student), 2016  
TOPAKSU M., Yarı-deneyssel 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., Samaryum ve Tulyum Katkılı Çinko Borat Fosforlarının Lüminesans Özelliklerinin İncelenmesi ve Termoluminesans Dozimetresi Olarak Kullanılabilirliğinin Araştırılması (Devam Ediyor), Doctorate, K.BULCAR(Student), 2016  
TOPAKSU M., Titanitlerde Doğal Ve Yapay Fizyon İzlerinin Tavlama Kinetikleri, Postgraduate, M.Mükerrem(Student), 2014  
TOPAKSU M., Zn<sub>1-(x+y)</sub>MnyGdxO (y = 0.01; x = 0.02, 0.03, 0.04) Bileşiklerinin Yapısal Ve Manyetik Özelliklerinin Araştırılması, Postgraduate, K.BULCAR(Student), 2014  
TOPAKSU M., Lantan Katkılı Çinko Boratların Kinetik Parametrelerinin Belirlenmesi Adiyaman Üniversitesi, Postgraduate, A.Halit(Student), 2014  
TOPAKSU M., Doğal Kuvars Minerallerinin TL özellikleri ve Kinetik Parametrelerinin Belirlenmesi., Postgraduate, R.AKKAYA(Student), 2011  
TOPAKSU M., Orta Anadolu fluoritlerinin (CaF<sub>2</sub>) termoluminesans (TL) ışımaya tepelerine tavlamanın etkisi, Postgraduate, M.YÜKSEL(Student), 2008

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

- I. **Enhanced photoluminescence properties of Eu<sup>3+</sup>/Li<sup>+</sup> co-doped ZrO<sub>2</sub>: A focus on red and far-red emissions**  
Altowyan A. S., Kaynar U., Aydın H., Coban M., PORTAKAL Z. G., AKÇA ÖZALP S., Hakami J., Ayvacikli M., TOPAKSU M., Can N.  
Journal of Photochemistry and Photobiology A: Chemistry, vol.466, 2025 (SCI-Expanded)
- II. **Anomalous heating rate and kinetic analysis in the thermoluminescence of GdCa<sub>40</sub>(BO<sub>3</sub>)<sub>3</sub>**  
Alajlani Y., Oglakci M., Barad A., Kaynar U., TOPAKSU M., Canimoglu A., Can N.  
Radiation Physics and Chemistry, vol.232, 2025 (SCI-Expanded)
- III. **Thermoluminescence response and kinetic parameters of Tb-doped GdCa<sub>40</sub>(BO<sub>3</sub>)<sub>3</sub> under beta irradiation**  
Alajlani Y., Bulcar K., Oglakci M., Kaynar U., Arslanlar Y. T., TOPAKSU M., Correcher V., Can N.  
Materials Science in Semiconductor Processing, vol.192, 2025 (SCI-Expanded)
- IV. **Thermoluminescence behaviour and kinetic analysis of a novel Tb<sup>3+</sup>-Doped LaCa<sub>4</sub>O(BO<sub>3</sub>)<sub>3</sub> phosphor: Impacts of heating rates and dose**  
Madkhali O., Bulcar K., Barad A., Zelai T., Souadi G., Alathlawi H. J., Kaynar U., TOPAKSU M., Can N.  
Materials Science in Semiconductor Processing, vol.187, 2025 (SCI-Expanded)
- V. **Thermoluminescence study of Nd<sup>3+</sup> doped lanthanum tri-borate phosphor**

Oglakci M., AKÇA ÖZALP S., PORTAKAL UÇAR Z. G., Correcher V., Benavente J., Sonsuz M., Can N., HALEFOĞLU Y. Z., TOPAKSU M.

Journal of Alloys and Compounds, vol.1013, 2025 (SCI-Expanded)

- VI. **Beta-irradiated ZnGa<sub>2</sub>O<sub>4</sub>:Sm<sup>3+</sup> phosphor: Thermoluminescence glow curves and kinetic parameters via gel combustion synthesis**  
Barad A., TOPAKSU M., Hakami J., Kaynar U., AKÇA ÖZALP S., Altowyan A. S., Aydin H., Can N.  
Journal of Alloys and Compounds, vol.1002, 2024 (SCI-Expanded)
- VII. **Structural and temperature-dependent photoluminescence properties of NaBaBO<sub>3</sub>:Ce<sup>3+</sup>, Tb<sup>3+</sup> phosphors synthesized using the combustion**  
Altowyan A. S., Oglakci M., TOPAKSU M., Ozturk E., Hakami J., Coban M., Ozgur Keskin M. Ö., Ayvacikli M., Kaynar U., Canimoglu A., et al.  
ADVANCED POWDER TECHNOLOGY, vol.35, no.6, 2024 (SCI-Expanded)
- VIII. **Beta irradiation-induced thermoluminescence: Glow curve analysis and kinetic parameters in combustion-synthesized undoped Ca<sub>4</sub>YO(BO<sub>3</sub>)<sub>3</sub>**  
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)
- IX. **Radiation-induced thermoluminescence in Ca<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>OH powder from eggshell: Trapping parameter assessment**  
Souadi G., Bulcar K., Yucel A., Oglakci M., SEZER S., Madkhali O., Depci T., Topaksu M., Can N.  
Radiation Physics and Chemistry, vol.217, 2024 (SCI-Expanded)
- X. **Europium-doped strontium gadolinium oxide phosphor: Investigating structural and photoluminescence characteristics via sol-gel combustion synthesis**  
Sarikci S., TOPAKSU M., Ozturk E., Souadi G., Madkhali O., Madkhali A., Can N.  
Applied Radiation and Isotopes, vol.205, 2024 (SCI-Expanded)
- XI. **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)
- XII. **Exploring beta irradiation responses in Sr<sup>2+</sup>-Doped hydroxyapatite: A thermoluminescence study**  
Bulcar K., Oglakci M., Altowyan A. S., BİLĞİN R., Yucel A., Sezer S., Hakami J., Depci T., TOPAKSU M., Can N.  
Ceramics International, 2024 (SCI-Expanded)
- XIII. **Undoped and Eu doped LaCa<sub>4</sub>O(BO<sub>3</sub>)<sub>3</sub> phosphors: Thermoluminescence characteristics with a focus on kinetic parameters, anomalous heating rate, and dose response**  
Bulcar K., Portakal Uçar Z. G., Zelai T., Souadi G., Hakami O., Kaynar U., Madkhali O., Topaksu M., Can N.  
Ceramics International, 2024 (SCI-Expanded)
- XIV. **Thermoluminescence kinetics in beta-irradiated novel ZnGa<sub>2</sub>O<sub>4</sub>:Eu<sup>3+</sup> phosphor produced via gel combustion synthesis**  
Barad A., TOPAKSU M., Hakami J., Can N.  
Ceramics International, 2024 (SCI-Expanded)
- XV. **Tb-doped MgAl<sub>2</sub>O<sub>4</sub> phosphors: A study of structural and luminescence characteristics**  
Halefoğlu Y. Z., Sauadi G., Ayvacikli M., Bulcar K., Topaksu M., Canimoğlu A., Madkhali O., Karmouch R., Can N.  
APPLIED RADIATION AND ISOTOPES, vol.203, pp.1-6, 2024 (SCI-Expanded)
- XVI. **Synthesis and thermoluminescence behavior of novel Sm<sup>3+</sup> doped YCa<sub>4</sub>O(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)
- XVII. **Palaeoseismological assessment for a seismic gap located very close to the epicentre of the 30 October 2020 Samos Earthquake (M<sub>6.9</sub>), western Anatolia, Turkey**  
Öncü U., Sözbilir H., Özkaymak Ç., Softa M., Sümer Ö., Eski S., Spencer J. Q. G., Şahiner E., Yüksel M., Meriç N., et al.  
NATURAL HAZARDS, vol.120, pp.4699-4727, 2024 (SCI-Expanded)
- XVIII. **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)

- XIX. **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., Ayvacıklı M., Topaksu M., Can N.  
CERAMICS INTERNATIONAL, vol.49, no.24PA, pp.243-254, 2023 (SCI-Expanded)
- XX. **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., Ayvacıklı M., Topaksu M., Özmen Ö., Can N.  
RADIATION PHYSICS AND CHEMISTRY, vol.213, pp.111211, 2023 (SCI-Expanded)
- XXI. **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)
- XXII. **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)
- XXIII. **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., Ayvacıklı M., Topaksu M., Cam-Kaynar S., Can N.  
APPLIED RADIATION AND ISOTOPES, vol.194, 2023 (SCI-Expanded)
- XXIV. **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., Benourджа S., Bakr M., Ayvacikli M., Canimoglu A., Topaksu M., Can N.  
RADIATION PHYSICS AND CHEMISTRY, vol.204, 2023 (SCI-Expanded)
- XXV. **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., Halefoglu Y. Z., Topaksu M.  
JOURNAL OF LUMINESCENCE, vol.253, 2023 (SCI-Expanded)
- XXVI. **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)
- XXVII. **Samarium doped Ca<sub>3</sub>Y<sub>2</sub>B<sub>4</sub>O<sub>12</sub> 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)
- XXVIII. **Synthesis and thermoluminescence study of Eu doped novel LaBO<sub>3</sub> phosphor: Heating rate, dose response, trapping parameters**  
Sonsuz M., Topaksu M., Hakami J., Can N.  
RADIATION PHYSICS AND CHEMISTRY, vol.201, 2022 (SCI-Expanded)
- XXIX. **Thermoluminescence characterization and kinetic parameters of Dy<sup>3+</sup> activated Ca<sub>3</sub>Y<sub>2</sub>B<sub>4</sub>O<sub>12</sub>**  
Hakami J., Sonsuz M., Kaynar U. H., Ayvacikli 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)
- XXX. **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)

- XXXI. **Thermoluminescence glow curve analysis of Ca<sub>3</sub>Y<sub>2</sub>B<sub>4</sub>O<sub>12</sub> 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)
- XXXII. **Structural and analyses of thermoluminescence glow curves in Sm doped SrGd<sub>2</sub>O<sub>4</sub> phosphor**  
Sarikci S., Topaksu M., Bakr M., Can N.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.911, 2022 (SCI-Expanded)
- XXXIII. **Thermoluminescence glow curve analysis and kinetic parameters of Eu doped Li<sub>2</sub>MoO<sub>4</sub> ceramic phosphors**  
Souadi G., Oglakci M., Kaynar U. H., Correcher V., Benavente J. F., Bulcar K., Ayvacikli M., Hiziroglu A., Topaksu M., Can N., et al.  
CERAMICS INTERNATIONAL, vol.48, no.13, pp.19258-19265, 2022 (SCI-Expanded)
- XXXIV. **Novel Dy incorporated Ca<sub>3</sub>Y<sub>2</sub>B<sub>4</sub>O<sub>12</sub> phosphor: Insights into the structure, broadband emission, photoluminescence and cathodoluminescence characteristics**  
Qaisi A. H., Kaynar U. H., Ayvacikli M., Garcia-Guinea J., Alajlani Y., TOPAKSU M., Can N.  
APPLIED RADIATION AND ISOTOPES, vol.185, 2022 (SCI-Expanded)
- XXXV. **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)
- XXXVI. **Anomalous heating rate dependence and analyses of thermoluminescence glow curves in Gd doped ZnB<sub>2</sub>O<sub>4</sub> phosphors**  
Atasoz S., TOPAKSU M., Souadi G., Can N.  
JOURNAL OF LUMINESCENCE, vol.246, 2022 (SCI-Expanded)
- XXXVII. **Thermoluminescence glow curve analysis of Ca<sub>3</sub>Y<sub>2</sub>B<sub>4</sub>O<sub>12</sub> 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)
- XXXVIII. **Thermal quenching and evaluation of trapping parameters of thermoluminescence glow-peaks of beta irradiated NaBaBO<sub>3</sub>: Tb<sup>3+</sup> 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)
- XL. **Characterization of thermoluminescence kinetic parameters of dolomite after exposure to β-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)
- XL1. **Thermoluminescence study and trapping parameters of beta irradiated NaBaBO<sub>3</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)
- XLII. **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)
- XLIII. **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)

- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **A study on thermoluminescence behaviour of Eu doped LaB<sub>3</sub>O<sub>6</sub> irradiated with beta particles**  
Halefoglu Y. Z., Oglakci M., Portakal Z. G., Akca S., Souadi G. O., Canimoglu A., Topaksu M., Can N.  
Radiation Physics and Chemistry, vol.168, 2020 (SCI-Expanded)
- LI. **Structural and spectroscopic properties of LaAlB<sub>3</sub>O<sub>7</sub> doped with Eu<sup>3+</sup> ions**  
Halefoğlu Y. Z., Oğlakçı M., Yüksel M., Canimoğlu A., Topaksu M., Can N.  
APPLIED RADIATION AND ISOTOPES, vol.154, 2019 (SCI-Expanded)
- LII. **Thermoluminescence properties of Tb doped Mg<sub>2</sub>SiO<sub>4</sub> 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)
- LIII. **Comparative studies on thermoluminescence characteristics of non-doped Mg<sub>2</sub>SiO<sub>4</sub> 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)
- LIV. **Thermoluminescence analysis of beta irradiated ZnB<sub>2</sub>O<sub>4</sub>: Pr<sup>3+</sup> 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)
- LV. **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)
- LVI. **Neutron plus Gamma response of undoped and Dy doped MgB<sub>4</sub>O<sub>7</sub> thermoluminescence dosimeter**  
Ifiazoglu S., YILMAZ A. Ö., Kafadar V. E., TOPAKSU M., Yazici A. N.  
APPLIED RADIATION AND ISOTOPES, vol.147, pp.91-98, 2019 (SCI-Expanded)
- LVII. **Thermoluminescence spectra of Tm doped ZnB<sub>2</sub>O<sub>4</sub> phosphor prepared via a wet-chemical synthesis**  
Bulcar K., Kucuk N., TOPAKSU M., Can N.  
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