

## RESEARCHER, ISRAFIL SABIKOGLU, Ph.D.



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Address : Celal Bayar University Science and Letters Faculty Department of Physics  
Muradiye Campus Manisa TURKEY

Language : English - YOKDİL 82,5, YDS 71,25

Marital st : Married with children

Academic title : Assoc.Prof

### Academic Degree:

B.S. : 1996-2000 Celal Bayar University Department of Physics, Turkey

M.S. : 2000-2003 Celal Bayar University Institute of Natural and Applied Science Department of Physics, Turkey

Ph.D : 2007-2011 Celal Bayar University Institute of Natural and Applied Science Department of Physics, Turkey

Assoc.Prof. : 2018-2019 Presidency of Inter-University Committee

### Research Interests:

Solid state synthesis, hydrothermal synthesis, sol-gel method, inorganic chemical synthesis, luminescence, luminescent materials, minerals, piezoelectric properties, piezoelectric sensor, design a composite piezoelectric sensor, polymer-based piezoelectric sensor, lead-free piezoelectric materials.

## SCI/SCI-Expanded Publications:

- 1- **İ. Şabikoğlu**, *Determination of Optical and Structural Properties of Lithium Silicate Ceramics with Different Ratios of Sm Doped*, ;Advanced Powder Technology, 33, 103685, 2022. **DOI: 10.1016/j.appt.2022.103685**
- 2- N. Yenil, F. Yemiş, **İ. Şabikoğlu**, N. Memon, A. Güler, *Comparative Analyses of Few West Turkish Varieties of Pomegranate (Punica granatum L.) Peels for Phenolic Content Using Liquid Chromatography*, Polycyclic Aromatic Compounds, 43-5, 3941-3957, 2023. **DOI: 10.1080/10406638.2022.2080727**
- 3- **İ.Şabikoğlu**, *Statistical Analysis and Susceptibility Properties of Heavy/Light Metal Pollution in Surface Seawater of Izmir Bay*, Environmental Science and Pollution Research, 2021. **DOI: 10.1007/s11356-021-14607-w**
- 4- **İ.Şabikoğlu**, *Energy Harvesting Sensor; PZT0.5-M0.5(M:PVC, PP, PVDF) Composite Thick Film Equipped With SiO<sub>2</sub>*, AIP Conf. Proc. 2178, 030005-1–030005-5, 2019. **DOI: 10.1063/1.5135403**
- 5- U.H.Kaynar, **İ. Şabikoğlu**, *Adsorption of thorium (IV) by amorphous silica; response surface modelling and optimization*, J.of Radioanalytical and Nuclear Chemistry, 318, 823-834, 2018. **DOI 10.1007/s10967-018-6044-5**
- 6- L. Schlattauer, L. Paralı, J. Pechousek, **İ. Şabikoğlu**, C. Celiktas, G. Tektas, P. Novak, A. Jancar and V. Prochazka, *Calibration of gamma-ray detectors using Gaussian photopeak fitting in the multichannel spectra with a LabVIEW-based digital system*, European J. of Physics (SCI-Expanded), 38, 055806, 2017. **DOI: 10.1088/1361-6404/aa7a7a**
- 7- U.H. Kaynar, **İ. Şabikoğlu**, S. Çam Kaynar, M. Eral, *Modelling of Thorium (IV) ions adsorption onto a novel adsorbent material silicon dioxide nano-balls using response surface methodology*, Applied Radiation and Isotopes (SCI-Expanded), V.115, p280-288, 2016. **DOI: 10.1016/j.apradiso.2016.06.033.**
- 8- L.Paralı, J.Pechousek, **İ.Şabikoğlu**, P.Novak, J.Navarik, M.Vujtek, *A Digital Measurement System Based on Laser Displacement Sensor for Piezoelectric Ceramic Discs Vibration Characterization*, Optik-International Journal of Light and Electron Optics, V.27, 1, p85-89, 2016. **DOI: 10.1016/j.ijleo.2015.10.099.**
- 9- H.A.Mahmadv, L.Paralı, M.A.Kurbanov, A.A.Bayramov, F.N.Tatardar, **İ.Şabikoğlu**, *Piezoresistive and Posistor Effects in Polymer-Semiconductor and Polymer-Ferropiezoceramic Composites*, Semiconductors, V.50, 5, p621-626, 2016. **DOI: 10.1134/S1063782616050171.**
- 10- **İ. Şabikoğlu**, L.Paralı, O.Malina, P.Novak, et.al., *The Effect of Neodymium Substitution on the Structural and Magnetic Properties of Nickel Ferrite*, Progress in Natural Science-Materials International, V.25, Issue 3, p215-221, 2015. **DOI: 10.1016/j.pnsc.2015.06.002.**

- 11- L.Paralı, **İ.Şabikoğlu**, J.Tucek, J.Pechousek, P.Novak, J.Navarik, Dielectric Behaviours at Microwave Frequencies and Mossbauer Effects of Chalcedony, Agate, Zultanite, Chinese Physics B, V.24 issue 5, 059101, 2015. DOI: **10.1088/1674-1056/24/5/059101**.
- 12- **İ.Şabikoğlu**, L.Paralı, *FTIR and VSM Properties of Samarium-Doped Nickel Ferrite*, Functional Material Letters, Vol.7 no.4 1450046, 2014. DOI: **10.1142/S1793604714500465**.
- 13- L.Paralı, **İ.Şabikoğlu**, M.Kurbanov, *Piezoelectric Properties of the New Generation Active Matrix Hybrid (Micro-Nano) Composites*, Applied Surface Science, Vol.318 6-9 2014. DOI: **10.1016/j.apsusc.2013.10.043**.
- 14- **İ.Şabikoğlu**, *Synthesis of Eu and Dy doped  $Sr_3B_2SiO_8$  using solid state reaction and investigation of radio and photoluminescence properties of these materials*, Journal of Alloys and Compounds 556 (2013) 135–138. DOI: **10.1016/j.jallcom.2012.12.114**.
- 15- N.Küçer, **İ.Şabikoğlu**, N.Can, *Measurements of Environmental Pollution in Industrial Area Using Magnetic Susceptibility Method*, Acta Physica Polonica A, V121, p16, 2012.
- 16- M.Ayvacıklı, A.Khatib, A.Ege, **İ.Şabikoğlu**, M.Henini, N.Can, *Absorption and photoluminescence spectroscopy of  $Er^{3+}$ -doped  $SrAl_2O_4$  ceramic phosphors*, Philosophical Magazine & Philosophical Magazine Letters, 92, 4, 194-201, 2012. DOI: **10.1080/09500839.2011.652685**.
- 17- **İ.Şabikoğlu**, M.Ayvacıklı, A.Bergeron, A.Ege, N.Can, *Photoluminescence investigations of  $Li_2SiO_3:Ln$  ( $Ln=Er^{3+}$ ,  $Eu^{3+}$ ,  $Dy^{3+}$ ,  $Sm^{3+}$ ) Phosphors*, J. Of Luminescence, 132, 1597-1602, 2012. DOI: **10.1016/j.jlumin.2012.02.008**.

#### National Publications:

- 1- E.Yıldırım, **İ. Şabikoğlu**, The Software Design Overview by Processing The Recording From Bird'sEye View Images to Determine The Crop Detection and Functionality of The Various Land Types, Iğdır University, Journal of the Institute of Science and Technology, 13(3), 1711-1717, 2023. DOI: **10.21597/jist.1134720**
- 2- **İ.Şabikoğlu**, D.Akbaba Şabikoğlu, Comparison of Environment Noise Intensity Using Ios and Android Based Sound Measurement Applications and Commercial Sound Measurement Devices and Obtaining the Measurement Uncertainty, Van Yüzünyü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 26, 2, 69-79, 2021. DOI: **10.53433/yyufbed.894712**
- 3- L. Paralı **İ. Şabikoğlu**, The Fabrication of Local Piezoelectric Sensors Using Hydraulic Pressing System Based on PLC, CBÜ Journal of Science ISSN 1305-1385 (Ulakbim Tr Index, Index Copernicus, DOAJ, CiteFactor, OAJI), V13, 3, p651-655. DOI: **10.18466/cbayarfbe.339322**
- 4- **İ.Şabikoğlu**, Optical Characterization of  $Eu^{3+}$  Doped and Undoped  $Sr_2CeO_4$  Phosphors, CBÜ Journal of Science ISSN 1305-1385 (Ulakbim Tr Index, Index Copernicus, DOAJ, CiteFactor, OAJI), V12, N1, 2016. DOI: **<http://dx.doi.org/10.18466/cbujos.47793>**.

- 5- **İ.Şabikoğlu**, Investigation of Radioluminescence Properties of Eu and Tb Doped  $\text{LuBO}_3$  and  $\text{LaGdPO}_4$ , SDÜ Journal of Science, (Zentralblatt MATH, EBSCOhost, CAS, CAB Abstracts), 17(3), 42-45,

#### **Overseas Experience (Seminar/Workshop etc.)**

- 1- Czechia, Palacky University, Regional center of advanced Technologies and materials, Workshop, "Synthesis of Nd doped Nickel Ferrite magnetic material", Workshop management and experimental method presentation, 7-14 Sep. 2013, Olomouc, Czechia.
- 2- Azerbaijani National Science Academia, 2. Workshop, "Polymer based hybrid piezo sensor's production" 8-12 May. 2013, Workshop management and presentation, Baku, Azerbaijani.
- 3- Azerbaijani National Science Academia, 1. Workshop, "Multi functional photo-piezoelectric sensor's production and electronic measurements" 1-4 Nov. 2012, Workshop management and presentation, Baku, Azerbaijani.

#### **National Projects:**

- 1- Production and characterization of Ferite type materials, BAP 2020-..., 4275 TL, Manager.
- 2- Produce, Design and Characterization of the Piezoelectric Sensors, BAP 2015-016, 22.642 TL, Researcher, 2015-2017.
- 3- Obtaining of the High Resolution Radiation Spectroscopy using by Numerical Signal Processing System, BAP 2012-014, 20.000 TL, Researcher, 2012-2014.
- 4- Synthesis of the Nano-Sized  $\text{LuBO}_3\text{:NTE}$  ve  $\text{La-GdPO}_4\text{:NTE}$  (NTE:Eu, Sm, Dy, Tb) Phosphors using by Hydrothermal Synthesis System, BAP 2012-02, 29.998 TL, Manager, 2012-2013
- 5- Synthesis and Investigation of the Luminescence Properties of Doped Lithium Silicate Glassy Ceramics, BAP 2010-034, 17.162 TL, Researcher, 2010-2012.
- 6- Synthesis, Optical Properties and Characterization of the Lithium Silicate Nitrate and Strontium Boraluminate Glassy Ceramics, BAP 2009-063, 88.000 TL, Researcher, 2009-2011.
- 7- Magnetic Susceptibility and Radioactivity of The Soma Poer Plant's Coal Ashes, BAP 2002/08, 15.000TL, Researcher, 2002-2003.

#### **Proceeding of International Conferences:**

- 1- **İ.Şabikoğlu**, Investigation of Structural Characterization of Dy Doped  $\text{LuBO}_3$  and  $\text{LaGdPO}_4$  Materials, 1st International Conference of Physics, Ankara 17 Augu. 2021.
- 2- **İ.Şabikoğlu**, Dose Response and Optical Characteristics of Natural Stones in Bandırma, Afyon, Çanakkale, and Amasya, 2. International Science and Innovation Congress, Ankara, 22-23 May 2021.

- 3- **İ.Şabikoğlu**, Energy Harvesting Sensor; PZT0.5-M0.5(M:PVC, PP, PVDF) Composite Thick Film Equipped With SiO<sub>2</sub>, Turkish Physical Society 35th International Physics Congress, 4-8 Sep., Bodrum Muğla, 2019.
- 4- **İ.Şabikoğlu**, Nano SiO<sub>2</sub> Modified PZT PVDF Composite Film, 4th International Ege Composite Symposium (KOMPEGE), 6-8 September, İzmir, TURKEY, 2018.
- 5- **İ. Şabikoğlu**, A synthesizing type of material science, solid state synthesis with a sample doped-NiFe<sub>2</sub>O<sub>4</sub> compound, 1. International University Industry Cooperation, R&D And Innovation Congress, 18-19 December, Manisa Turkey, 2017
- 6- L.Schlattauer, J.Pechousek, L.Paralı, **İ.Şabikoğlu**, C.Celiktas, G.Tektas, P.Novak, A.Jancar, V.Prochazka, Calibration of gamma-ray detectors using Gaussian photopeak fitting in the multichannel spectra with LabVIEW based digital system, International conference on radioanalytical and nuclear chemistry RANC, 10-15 April, Budapest, Hungary, 2016
- 7- **İ.Şabikoğlu**, L.Paralı, M.Kurbanov, Piezoelectric properties of polymer-ferroelectric composites crystallized by plasma electric discharge, 10th Nanoscience and nanotechnology conference, 17-21 June, İstanbul, Turkey, 2014.
- 8- L.Paralı, **İ.Şabikoğlu**, M.A.Kurbanov, F.N.Tatardar, A.A.Bayramov, Piezoresistive and posistors effect in polymer-semiconductor and polymer-ferroelectric ceramic composites, 10th Nanoscience and nanotechnology conference, 17-21 June, İstanbul, Turkey, 2014.
- 9- **İ. Şabikoğlu**, Investigation of radioluminescence properties of Eu<sup>3+</sup> doped Sr<sub>2</sub>CeO<sub>4</sub> phosphors, 31. International Turkish Physical Society Congree, 21-24 July 2014, Bodrum, Turkey.
- 10- **İ.Şabikoğlu**, M.Ayvacıklı, N.Can, Lityum silikat camı seramiğin sentezlenmesi ve katkılandırılması, 27. Turkish Physical Society Congree, 14-17 September 2010, İstanbul, Turkey.
- 11- **İ.Şabikoğlu**, N.Küçer, N.Can, Çevresel Kirliliğin Manyetik Alınganlık Yöntemiyle Göstergesi, 26. Turkish Physical Society Congree, 2009, Turkey (Turkish).
- 12- **İ.Şabikoğlu**, M.Ayvacıklı, S.Uysal, M.Durukan, N.Can, Dumanlı Kuvars Mineralinin TL Spektrumunun ve Tuzak Parametrelerinin İncelenmesi, 25. Turkish Physical Society Congree, 2008, Turkey (Turkish).
- 13- **İ.Şabikoğlu**, S.Çam, F.S.Ereeş, Gölarmara Göl Sularında Manyetik Süseptibilite ve Element Tayini, 24. Turkish Physical Society Congree, 2007, Turkey (Turkish).

#### Proceeding of National Conferences:

- 1- **İ.Şabikoğlu**, Fizikçi, Kimyager ve Biyologlar için günümüzün en iyi iş fırsatı, İş Güvenliği Uzmanlığı, GEFİK 2016, İzmir, 2016.
- 2- **İ.Şabikoğlu**, Çeşitli malzeme sentezleme yöntemleri ve dikkat edilecek hususlar, GEFİK 2013, İzmir, 2013, Turkey (Turkish)

- 3- C.Uçak, G.Gök, S.Sop, **İ.Şabikoğlu**, M.Ayvacıklı, R.Gümüş, A.Ege, N.Can, Doğal zultanit taşının optik ve radyolüminesans özellikleri, 5. Lüminesans Dozimetri Kongresi, Mersin, 2011, Tukey (Turkish).
- 4- M.Ayvacıklı, A.Ege, **İ.Şabikoğlu**, N.Can,  $\text{SrAl}_2\text{O}_4\text{:Eu}$  seramik fosforunun lüminesans özellikleri, 5. Lüminesans Dozimetri Kongresi, Mersin, 2011 Turkey (Turkish).
- 5- O.Dinçer, A.Ege, M.Ayvacıklı, **İ.Şabikoğlu**, N.Can, Terbiyum ile katkılandırılmış lityum borat fosforunun sentezi ve lüminesans karakterizasyonu, 5. Lüminesans Dozimetri Kongresi, Mersin, 2011 Turkey (Turkish).
- 6- **İ.Şabikoğlu**, N.Can,  $\text{Li}_2\text{SiO}_3$  camı seramiğin sentezlenmesi, katkılandırılması ve lüminesans özellikleri, 5. Lüminesans Dozimetri Kongresi, Mersin, 2011 Turkey (Turkish).
- 7- D.Göksoy, S.Uçkaç, **İ.Şabikoğlu**, M.Ayvacıklı, N.Can, Türkiyede'ki bazı doğal taşların optiksel özelliklerinin ve mineral yapılarının incelenmesi, 4. Luminesans Dozimetri Kongresi Gaziantep 20-22 Sept. 2010 Turkey (Turkish).
- 8- M.Koyun, M.Ayvacıklı, **İ.Şabikoğlu**, A.Ege, N.Can, Kuvars minerallerinin optiksel ve lüminesans özelliklerinin incelenmesi, 4. Luminesans Dozimetri Kongresi Gaziantep 20-22 Sept. 2010 Turkey (Turkish).
- 9- G.Gök, D.Tatlıdil, C.Uçak, S.Sop, B.Aralar, İ.Kalp, **İ.Şabikoğlu**, N.Can, Çeşitli mermer türlerinin ışıldaama özelliklerinin termolüminesans bazında incelenmesi, 4. Luminesans Dozimetri Kongresi Gaziantep 20-22 Sept. 2010 Turkey (Turkish).
- 10- M.Ayvacıklı, **İ.Şabikoğlu**, A.Ege, N.Can, Nadir toprak elementleri (Eu,Er,Dy,Sm) ile katkılandırılmış boralüminat seramiklerinin sentezi ve lüminesans özelliklerinin incelenmesi, 4. Luminesans Dozimetri Kongresi Gaziantep 20-22 Sept. 2010 Turkey (Turkish).
- 11- **İ.Şabikoğlu**, N.Can, Kalsit Mineralinin TL ve Optiksel Soğurma Ölçümlerinin İncelenmesi, Tam Metin, 10. Ulusal Nükleer Bilimler Kongresi, 2009 Turkey (Turkish).
- 12- **İ.Şabikoğlu**, S.Çam, F.S.Ereeş, N.Can, Soma Kömür küllerinin manyetik süseptibilite ve radyoaktivite değerlerinin incelenmesi, 9. Nükleer Bilimler ve Teknolojileri Kongresi, 2005 Turkey (Turkish).
- 13- **İ.Şabikoğlu**, N.Can, Kömür küllerinin manyetik süseptibilitesi, 21. Fizik Kongresi, 2002 Turkey (Turkish).
- 14- S.Çam, **İ.Şabikoğlu**, Y.Gültekin, F.S.Ereeş, N.Can, Çeşitli sigara külü örneklerinde toplam radyoaktivite içerikleri ile manyetik süseptibilite arasındaki ilişkinin incelenmesi, 21. Fizik Kongresi, 2002 Turkey (Turkish).

#### Reviewer/Editor in Journal:

- 1- Reviewer; Applied Physics A, 2023
- 2- Reviewer; Journal of materials research, 2020
- 3- Editor, Nanotechnology and nanomaterials research, 2019

- 4- Reviewer; Inorganic and Nano-Metal Chemistry, 2019
- 5- Reviewer; Journal of Radioanalytical and Nuclear Chemistry, 2019
- 6- Reviewer; Journal of Materials Science, 2018, 2019
- 7- Editor; Journal of Material Sciences and Applications, 2017.
- 8- Reviewer; Süleyman Demirel University, Journal of Natural and Applied Science, 2016
- 9- Reviewer; Journal of Materials Science, 2016
- 10- Reviewer; Celal Bayar University Journal of Science, 2016
- 11- Reviewer; Applied Surface Science, 2014.
- 12- Reviewer; Luminescence: The Journal of Biological and Chemical Luminescence, 2013.
- 13- Reviewer; Solid State Communications, 2013.

#### **Be Assigned in National/International Conference**

- 1- 50. Tubitak (The Scientific and Technological Research Council of Turkey) High School Students Research Project Competition, **Jury Membership** in Aegean Region in Turkey, February 2019.
- 2- 2017 Conference on Functional Materials and Applications (FMA 2017), 3-5 January 2017 Guilin China, **Member of Scientific Committee**, China.  
<http://www.engii.org/conf/FMA/2017Jan>
- 3- The 3th International Conference on Mechanical Science and Technology (CMSE 2016), 25, 26 August 2016, Sanya China, **Member of Tehnical Program Committee**, China.  
<http://www.icmses.com/index.html>
- 4- 2016 International Conference on Advanced Electronic Science and Technology, 19-21 August 2016 Shenzhen China, **Member of Scientific Committee and Technical Program Committee**, China. <http://www.aest2016.org/>
- 5- 12<sup>th</sup> Nanoscience and Nanotechnology Conference, 03-05 June 2016 Gebze Turkey, **Member of Scientific Committee**, Gebze Technical University, Kocaeli, Turkey.  
<http://www.nanotr12.org/>
- 6- 1<sup>st</sup> International Conference on Green Chemistry and Sustainable Energy Technologies, September 30-October 3 2015 İzmir Turkey, **Member of Scientific Committee**, Katip Çelebi University, İzmir, Turkey. <http://gcsti2015.org/>
- 7- National 6<sup>th</sup> Luminescence Dosimetry Conference, 11-13 Sep. 2012, **Member of Executive Committee**, Çeşme, İzmir, Turkey.
- 8- National 2<sup>nd</sup> Luminescence Dosimetry Conference, 21-23 August 2008, **Member of Executive Committee**, Celal Bayar University, Manisa, Turkey.

#### **Lecturing Experience**

- 1- Basic programming – Matlab (2021-...)

- 2- Basic computer sciences – Arduino programming (2020-...)
- 3- Statistic physics (2020-...)
- 4- Elektrik and Electronic (2020 - ...)
- 5- Basic Computer Programming (Matlab- Bioengineering, English) 2019
- 6- Electrical Circuits and Electronic (Computer Engineering, English) (2019)
- 7- Spectrometers (2019)
- 8- Vibrations and Waves (2019)
- 9- Differential Equations (2018)
- 10- General Physics (2017-...)
- 11- Occupational Health and Safety (Department of Physics) (2017-2020).
- 12- Physics Laboratory (Mechanic and Electric- Engineering Faculty, English) (2013-2018)
- 13- Mechanic and Electrical Physics Laboratory – Engineering and Science Faculty English, (2011-2018)
- 14- Analog and Digital Electronics Laboratory – Science Faculty (2000-2018)

#### **Concultyancy**

- 1- İSG Teknik Ölçüm A.Ş., Occupational health and safety laboratory accreditation. 2014- present
- 2- İSG İzmir Ortak Sağlık ve Güvenlik Birimi Dan. San. Tic. Ltd.Şti, İş Güvenliği Eğitim ve Danışmanlığı, 2014- present
- 3- Elektrik Elektronik Üzerine Çalışan Özel Sektör Katılımcılarına, İş Güvenliği Eğitimleri Danışmanlığı. 2014- present

#### **Public/Private sector duties**

- 1- Researcher in Manisa Celal Bayar University, 2000 – present
- 2- Co-partner and funder of İSG Teknik Ölçüm A.Ş., 2014 – present