Prof. LEVENT PARALI

Personal Information

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Education

Doctorate, Manisa Celal Bayar University, FEN BİLİMLERİ ENSTİTÜSÜ, Turkey 2008 - 2011
Postgraduate, Manisa Celal Bayar University, Fen Bilimleri Enstitüsü, Turkey 2006 - 2008

Foreign Languages

English

Dissertations

Doctorate, Türkiye'xxde çıkartılan dumanlı kuvars, mavi kalsedon ve agat'xxın optik ve elektrik özelliklerinin incelenmesi, 2011
Postgraduate, Bilgisayar kontrollu gerçek zamanlı sıcaklık ölçüm sistemi, 2008

Research Areas

Avesis Research Areas: Electrical and Electronics Engineering, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties
WoS Research Areas: Engineering Electrical & Electronic, Nanoscience & Nanotechnology, Materials Science Composites, Materials Science Ceramics
Scopus Research Areas: Signal Processing, Mechanics of Materials, Ceramics and Composites

Academic Positions

Professor, Manisa Celal Bayar University, Turgutlu Meslek Yüksekokulu, Elektronik Ve Otomasyon, 2025 - Present
Associate Professor, Manisa Celal Bayar University, Turgutlu Meslek Yüksekokulu, Elektronik Ve Otomasyon, 2018 - 2025
Assistant Professor, Manisa Celal Bayar University, Turgutlu Meslek Yüksekokulu, Elektronik Ve Otomasyon, 2013 - 2018
Lecturer, Manisa Celal Bayar University, Turgutlu Meslek Yüksekokulu, Elektronik Ve Otomasyon, 2006 - 2011

Academic and Administrative Experience

Head of Department, Manisa Celal Bayar University, TURGUTLU MESLEK YÜKSEKOKULU, ELEKTRONİK VE OTOMASYON, 2013 - Present

Courses

Associate Degree

PROGRAMLANABİLİR DENETLEYİCİLER, Associate Degree, 2017-2018, 2016-2017, 2015-2016, 2014-2015, 2013-2014, 2012-2013

TEMEL ELEKTRONİK, Associate Degree, 2017-2018, 2016-2017, 2015-2016, 2014-2015, 2013-2014, 2012-2013

SAYISAL ELEKTRONİK, Associate Degree, 2017-2018, 2016-2017, 2015-2016, 2014-2015, 2013-2014, 2012-2013

ARAŞTIRMA YÖNTEM ve TEKNİKLERİ, Associate Degree, 2016-2017, 2014-2015

SİSTEM ANALİZİ ve TASARIMI, Associate Degree, 2016-2017, 2015-2016, 2014-2015

SAYISAL TASARIM, Associate Degree, 2016-2017, 2014-2015, 2013-2014, 2012-2013

SİSTEM ANALİZİ VE TASARIMI I-II, Associate Degree, 2013-2014

ÜNİVERSİTE YAŞAM KÜLTÜRÜ, Associate Degree, 2013-2014

SİSTEM ANALİZİ VE TASARIMI I, Associate Degree, 2012-2013

Supervised Theses

PARALI L., Grafen katkılı nanolif üretimi ve uygulamaları, Postgraduate, Ç.YENER(Student), 2023

PARALI L., Design of a small-scale piezoelectric sensor production system by using programmable logic controller (PLC), Postgraduate, H.SAYID(Student), 2016

Articles

I. **Process–Structure–Property–Performance Relationships in FDM 3D-Printed PVDF/ZnO/MWCNT Electroactive Nanocomposites for Hybrid Triboelectric–Piezoelectric Energy Harvesting**
Tatardar F., Bernas A. A., Latorre A. L., Yıldız Z., Combarro B., Abad M. J., Paralı L.
POLYMER, vol.365, pp.1-15, 2026 (SCI-Expanded, Scopus)

II. **The effect of gamma-irradiation on piezoelectric properties of PVDF/ZnO@Fe-based piezoelectric nanogenerators**
Koç M., Skoumal V., Paralı L., Pechousek J., Sarı A., Jančář A., Tatardar F.
JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.37, no.24, pp.1-20, 2026 (SCI-Expanded, Scopus)

III. **Optoelectrical stacked dielectric-gated organic thin film transistors for artificial synaptic simulation**
Zhang M., Li W., Zhao C., Tatardar F., Paralı L., Guliakova A., Zhu G.
ORGANIC ELECTRONICS, vol.153, pp.1-10, 2026 (SCI-Expanded, Scopus)

IV. **From Proximity to Contact Perception of Piezoelectric Extended-Gate Amorphous Oxide Thin Film Transistors**
Zhao C., Xu J., Li W., Liu S., Liu R., Tatardar F., PARALI L., Guliakova A. A., Zhu G.
ACS APPLIED MATERIALS & INTERFACES, vol.18, no.18, pp.26448-26461, 2026 (SCI-Expanded, Scopus)

V. **Synergetic Enhancement of Piezoelectric P(VDF-TrFE) Devices toward Weak Signal Perception**
Feng Y., Wu H., Zhao W., Liu D., Tatardar F., PARALI L., Zhu G.
ACS APPLIED ELECTRONIC MATERIALS, vol.8, no.2, pp.941-952, 2026 (SCI-Expanded, Scopus)

VI. **The piezoelectric nanogenerators based on PVDF/BaTiO3/MWCNT ternary composite prepared by the electrospinning method**

Koç M., Guluzade S., Tatardar F., Musayeva N. N., SARI A., PARALI L.
Journal of Materials Science, vol.60, no.48, pp.25481-25503, 2025 (SCI-Expanded, Scopus)

VII. **Piezoelectric PVDF layers for sensors and energy harvesting systems: comparison of the effects of production methods**
Skoumal V., Pechousek J., PARALI L., Koc M.
PHYSICA SCRIPTA, vol.100, no.11, 2025 (SCI-Expanded, Scopus)

VIII. **Enhanced piezoelectric performance of multilayered piezoelectric nanogenerator based on the PVDF/PZT/graphene Electrospun for IoT-based remote monitoring**
Karakulak E., PARALI L., Koç M., Tatardar F., SARI A., Mevsim E., Fataliyeva V.
Surfaces and Interfaces, vol.75, 2025 (SCI-Expanded, Scopus)

IX. **The piezoelectric properties of three-phase electrospun PVDF/PZT/Multiwalled Carbone Nanotube composites for energy harvesting applications**
Koç M., Tatardar F., Musayeva N. N., Guluzade S., SARI A., PARALI L.
Journal of Alloys and Compounds, vol.1003, 2024 (SCI-Expanded, Scopus)

X. **Design, fabrication, and piezoelectric performance evaluation of a nanogenerator for vibrational energy harvesters**
PARALI L.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.13, no.4, pp.896-904, 2024 (TRDizin)

XI. **Affordable and customizable electrospinning set-up based on 3D printed components**
Skoumal V., Pechousek J., PARALI L., Koc M.
PHYSICA SCRIPTA, vol.99, no.7, 2024 (SCI-Expanded, Scopus)

XII. **The output performance evaluations of multilayered piezoelectric nanogenerators based on the PVDF-HFP/PMN-35PT using various layer-by-layer assembly techniques**
PARALI L.
Journal of Materials Science: Materials in Electronics, vol.35, no.11, 2024 (SCI-Expanded, Scopus)

XIII. **The piezoelectric response of electrospun PVDF/PZT incorporated with pristine graphene nanoplatelets for mechanical energy harvesting**
PARALI L., Tatardar F., Koç M., SARI A., Moradi R.
Journal of Materials Science: Materials in Electronics, vol.35, no.1, 2024 (SCI-Expanded, Scopus)

XIV. **Fabrication and Characterization of High Performance PVDF-based flexible piezoelectric nanogenerators using PMN-xPT (x:30, 32.5, and 35) particles**
PARALI L., Koç M., Akça E.
Ceramics International, vol.49, no.11, pp.18388-18396, 2023 (SCI-Expanded, Scopus)

XV. **2D/3D Direct Writing of Thermoplastics through Electrohydrodynamic Printing**
Levent Paralı P., Koç M., Yıldız Z.
Polymer Science - Series A, vol.64, no.5, pp.559-572, 2022 (SCI-Expanded, Scopus)

XVI. **Design of a 3D Printed Open Source Humanoid Robot**
PARALI L., SARI A., ESEN M.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.11, no.2, pp.411-420, 2022 (TRDizin)

XVII. **Piezoelectric and magnetoelectric evaluations on PVDF/CoFe2O4based flexible nanogenerators for energy harvesting applications**
Koç M., Dönmez Ç. E. D., PARALI L., SARI A., Aktürk S.
Journal of Materials Science: Materials in Electronics, vol.33, no.10, pp.8048-8064, 2022 (SCI-Expanded, Scopus)

XVIII. **Piezoelectric and magnetoelectric properties of PVDF/NiFe2O4 based electrospun nanofibers for flexible piezoelectric nanogenerators**
PARALI L., Demirci Dönmez Ç. E., Koç M., Aktürk S.
Current Applied Physics, vol.36, pp.143-159, 2022 (SCI-Expanded, Scopus)

XIX. **Characterization of β-PVDF-based nanogenerators along with Fe2O3 NPs for piezoelectric energy harvesting**
ZEYREK ONGUN M., PARALI L., OĞUZLAR S., Pechousek J.
Journal of Materials Science: Materials in Electronics, vol.31, no.21, pp.19146-19158, 2020 (SCI-Expanded, Scopus)

XX. **Fabrication and vibrational energy harvesting characterization of flexible piezoelectric nanogenerator (PEN) based on PVDF/PZT**
Koç M., PARALI L., Şan O.
Polymer Testing, vol.90, 2020 (SCI-Expanded, Scopus)

XXI. **Estimating elasticity modulus of the piezo ceramic disc (PCD) using basic mathematical modelling**
PARALI L., SARI A., MALGACA L., Pechousek J., Latal F.
Optik, vol.173, pp.146-156, 2018 (SCI-Expanded, Scopus)

XXII. **Calibration of a Platinum Resistance Thermometer (Pt-100) and Its Measurement Uncertainty Analysis**
PARALI L., DURMAZ F., AYDIN O.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.14, no.1, pp.41-49, 2018 (TRDizin)

XXIII. **The Fabrication of Local Piezoelectric Sensors Using Hydraulic Pressing System Based on PLC**
PARALI L., ŞABİKOĞLU İ.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.13, no.3, pp.651-655, 2017 (TRDizin)

XXIV. **The artificial neural network modelling of the piezoelectric actuator vibrations using laser displacement sensor**
PARALI L., Sari A., KILIÇ U., CİHANBEĞENDİ Ö., Pechousek J.
JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTECHNICKY CASOPIS, no.5, pp.371-377, 2017 (SCI-Expanded, Scopus)

XXV. **Calibration of gamma-ray detectors using Gaussian photopeak fitting in the multichannel spectra with a LabVIEW-based digital system**
Schlattauer L., PARALI L., Pechousek J., ŞABİKOĞLU İ., Celiktas C., Tektas G., Novak P., Jancar A., Prochazka V.
European Journal of Physics, vol.38, no.5, 2017 (SCI-Expanded, Scopus)

XXVI. **Determining Resonance and Antiresonance Frequencies of Piezoelectric Actuator by Digital Measurement System Based on Laser.**
PARALI L., ŞAHİN Ö., SARI A., PECHOUSEK J.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.13, no.2, pp.523-528, 2017 (TRDizin)

XXVII. **Piezoresistive and posistor effects in polymer-semiconductor and polymer-ferropiezoceramic composites**
Mamedov H., PARALI L., Kurbanov M., Bayramov A., Tatardar F., ŞABİKOĞLU İ.
Semiconductors, vol.50, no.5, pp.621-626, 2016 (SCI-Expanded, Scopus)

XXVIII. **A digital measurement system based on laser displacement sensor for piezoelectric ceramic discs vibration characterization**
PARALI L., Pechousek J., Şabikoʇlu İ., Novak P., Navarik J., Vujtek M.
OPTIK, vol.127, no.1, pp.84-89, 2016 (SCI-Expanded, Scopus)

XXIX. **Effects of Electric Discharge Plasma Treatment on the Thermal Conductivity of Polymer–Metal Nitride/Carbide Composites**
PARALI L., Kurbanov M. A., Bayramov A. A., Tatardar F. N., Sultanakhmedova R. I., Xanlar H. G.
Journal of Electronic Materials, vol.44, no.11, pp.4322-4333, 2015 (SCI-Expanded, Scopus)

XXX. **The electret effects of crystallized polymer-ferropiezoelectric composite under electric discharge plasma**
PARALI L.
Journal of Electrostatics, vol.76, pp.89-94, 2015 (SCI-Expanded, Scopus)

XXXI. **The effect of neodymium substitution on the structural and magnetic properties of nickel ferrite**
ŞABİKOĞLU İ., PARALI L., Malina O., Novak P., Kaslik J., Tucek J., Pechousek J., Navarik J., Schneeweiss O.
Progress in Natural Science: Materials International, vol.25, no.3, pp.215-221, 2015 (SCI-Expanded, Scopus)

XXXII. **Dielectric behaviors at microwave frequencies and Mossbauer effects of chalcedony, agate, and zultanite**
PARALI L., Şabikoʇlu İ., Tucek J., Pechousek J., Novak P., Navarik J.
CHINESE PHYSICS B, vol.24, no.5, 2015 (SCI-Expanded, Scopus)

XXXIII. **OBTAINING HIGH RESOLUTION RADIATION SPECTROSCOPY BY DIGITAL SIGNAL PROCESSING**

SYSTEM AND ITS CALIBRATION
PARALI L., DURMAZ F., PECHOUSEK J.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.10, no.2, pp.94-104, 2015 (TRDizin)

XXXIV. **Piezoelectric properties of the new generation active matrix hybrid (micro-nano) composites**
PARALI L., Şabikoğlu İ., Kurbanov M. A.
APPLIED SURFACE SCIENCE, vol.318, pp.6-9, 2014 (SCI-Expanded, Scopus)

XXXV. **FTIR and VSM properties of samarium-doped nickel ferrite**
ŞABİKOĞLU İ., PARALI L.
Functional Materials Letters, vol.7, no.4, 2014 (SCI-Expanded, Scopus)

XXXVI. **Luminescence behaviour and Raman characterization of dendritic agate in the Dereyalak village (Eskisehir), Turkey**
Paral L., Garcia Guinea J., Kibar R., Cetin A., Can N.
JOURNAL OF LUMINESCENCE, vol.131, no.11, pp.2317-2324, 2011 (SCI-Expanded, Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Improving the output performance of self-poled PVDF-based piezoelectric nanogenerator through the additional poling process**
SARI A., PARALI L.
5th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2024), Ankara, Turkey, 26 - 28 June 2024, (Full Text)

II. **Elastic Piezoelectric Nanogenerator Design**
YENER Ç., KÖŞKER F. B., PARALI L., ÜNLÜ C. G.
The 17th Nanoscience & Nanotechnology Conference (ID-137), İzmir, Turkey, 27 - 29 August 2023, pp.63, (Summary Text)

III. **Comparative evaluation of PVDF based piezoelectric nanogenerator (PNG) under various resistive loads for energy harvesting applications**
PARALI L., Koc M., SARI A.
6th International Conference on Electrical Engineering, ICEE 2020, Virtual, Istanbul, Turkey, 25 - 27 September 2020, (Full Text)

IV. **Fabrication and Characterization of High Sensitive Flexible β-PVDF Based Piezoelectric Nanogenerator.**
ZEYREK ONGUN M., PARALI L., OĞUZLAR S., YILDIRIM S.
1st International Balkan Chemistry Congress, Edirne, Turkey, 17 - 20 September 2018, pp.282, (Summary Text)

V. **Determining Energy Dissipation Characteristic of a Piezoelectric Actuator using Digital Measurement System.**
SARI A., PARALI L., PECHOUSEK J.
2nd International Energy and Engineering Conference., Gaziantep, Turkey, 12 - 13 October 2017, (Full Text)

VI. **Vibration modelling of piezoelectric actuator (PEA) using Simulink software**
PARALI L., SARI A.
4th International Conference on Electrical and Electronics Engineering, ICEEE 2017, Ankara, Turkey, 8 - 10 April 2017, pp.153-157, (Full Text)

VII. **Linearity of The Mössbauer Spectrum Velocity Scale Evaluation Utilizing Laser Vibrometer**
Kohout P., Kouril L., Navarik J., Novak P., Pechousek J., PARALI L.
The International Conference on the Applications of the Mössbauer Effect ICEMA-2015, 13 - 18 September 2015, (Summary Text)

VIII. **Estimating Elasticity Modulus of the Piezo Ceramic Disc Using Basic Mathematical Modelling**
PARALI L., SARI A., PECHOUSEK J., LATAL F.
4th International Eurasian Conference on Mathematical Science and Applications, Atina, Greece, 31 August - 03 September 2015, pp.139-140, (Summary Text)

IX. **Piezoelectric Properties of Polymer Ferropiezoelectric Composites Crystallized by Plasma Electric Discharge**
ŞABİKOĞLU İ., PARALI L., KURBANOV M.
10th Nanoscience and Nanotechnology Conference, 17 - 21 June 2014, (Summary Text)

X. **Piezoresistive and posistors effect in polymer-semiconductor and polymer-ferropiezpceramic composites**
PARALI L., ŞABİKOĞLU İ., Kurbanov M., Tatardar F., Bayramovov A.
10th Nanoscience and nanotechnology conference, 17 - 21 June 2014, vol.1, pp.355, (Summary Text)

XI. **MODELLING OF POSITIONING ACCURACY OF HYDRAULIC DRIVEN CURVILINEAR MOTIONS**
PİNAR A. M., GÜLLÜ A., PARALI L.
5th International Advanced Technologies Symposium, Karabük, Turkey, 13 - 15 May 2009, (Full Text)

XII. **Visual Based Measurement System with FPGA Hardware**
PARALI L.
5th International Advanced Technologies Symposium, Karabük, Turkey, 13 - 15 May 2009, (Full Text)

XIII. **PIN DISC PIN PLATE PIN RING JOURNAL BEARING WEAR TEST RIG DESIGN AND MANUFACTURING**
PARALI L.
5th International Advanced Technologies Symposium, Karabük, Turkey, 13 - 15 May 2009, (Full Text)

XIV. **Oto Boyama ve Kurutma Sisteminin PIC Mikrodenetleyici Tabanlı Otomasyonu ve SCADA Uygulaması**
TAŞTAN M., Uykan S., PARALI L.
III. Otomasyon Sempozyumu, Denizli, Turkey, 11 - 12 November 2005, (Full Text)

Funded Projects

PARALI L., SARI A., KOÇ M., Project Supported by Higher Education Institutions, PVDF/PZT tabanlı esnek piezoelektrik nano-jeneratörlerin üretilmesi ve çok katmanlı paketleme yöntemiyle piezoelektrik performanslarının geliştirilmesi, 2023 - 2024

PARALI L., Project Supported by Higher Education Institutions, BAP Other, Programlanabilir Lojik Kontrollü Piezoelektrik Sensör Üretim Sistemi ve Yöntemi İle İlgili Mevcut Olan 03.03.2016 Tarihli, 2016/02813 Başvuru Numaralı Patent Başvuru Sürecinin Yürütülmesi., 2018 - 2019

TAŞTAN M., GÖKOZAN H., SARI A., PARALI L., Project Supported by Higher Education Institutions, Lazer Tabanlı Sayısal Ölçüm Sistemi ile Piezoelektrik Sensörlerin Titreşim Özelliklerinin Belirlenmesi, 2016 - 2017

SARI A., GÖKOZAN H., TAŞTAN M., PARALI L., Project Supported by Higher Education Institutions, Lazer Tabanlı Sayısal Ölçüm Sistemi ile Piezoelektrik Sensörlerin Titreşim Özelliklerinin Belirlenmesi., 2016 - 2017

GÖKOZAN H., SARI A., TAŞTAN M., PARALI L., Project Supported by Higher Education Institutions, Lazer Tabanlı Sayısal Ölçüm Sistemi ile Piezoelektrik Sensörlerin Titreşim Özelliklerinin Belirlenmesi, 2015 - 2017

PARALI L., ŞABİKOĞLU İ., Project Supported by Higher Education Institutions, BAP Research Project, Piezoelektrik Sensörlerin Tasarımı, Üretilmesi ve Karakterizasyonu, 2015 - 2017

PARALI L., ŞABİKOĞLU İ., Project Supported by Higher Education Institutions, Piezoelektrik Sensörlerin Tasarımı, Üretilmesi ve Karakterizasyonu., 2015 - 2017

ŞABİKOĞLU İ., PARALI L., Project Supported by Higher Education Institutions, Piezoelektrik Sensörlerin Tasarımı Üretilmesi ve Karakterizasyonu, 2015 - 2017

PARALI L., ŞABİKOĞLU İ., Project Supported by Higher Education Institutions, Sayısal Sinyal İşleme Sistemi ile Yüksek Çözünürlüklü Radyasyon Spektroskopisinin Elde Edilmesi., 2012 - 2015

PARALI L., ÇETİN A., Project Supported by Higher Education Institutions, OSL Sisteminin Kurulması, Kalibrasyonu ve Örnek Spektrumların Alınması., 2008 - 2010

Kibar R., Can N., Harmanşah C., Paralı L., Çetin A., Project Supported by Higher Education Institutions, BAP Research Project, OSL sisteminin kurulması, Kalibrasyonu ve Örnek Spektrumların Alınması, 2008 - 2010

PARALI L., Project Supported by Higher Education Institutions, Bilgisayar Destekli Gerçek Zamanlı Ölçme ve Kontrol Sistemi., 2008 - 2010

PARALI L., KARABULUT Y., Project Supported by Higher Education Institutions, Bilgisayar Kontrollü Gerçek Zamanlı

Sıcaklık Veri Toplama Sistemi, 2007 - 2009

Patent

PARALI L., PROGRAMLANABİLİR LOJİK KONTROLLÜ PİEZOELEKTRİK SENSÖR ÜRETİM SİSTEMİ VE YÖNTEMİ, Patent, CHAPTER H Electricity, Standard Registration, 2022

Peer Reviews in Scientific Publications

INTERNATIONAL JOURNAL OF MINERAL PROCESSING, Other journals, April 2025
SMART MATERIALS AND STRUCTURES, Other journals, April 2025
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, Other journals, April 2025
Other journals, April 2025
APPLIED SURFACE SCIENCE, Other journals, April 2025
Other journals, January 2018
IEEE ACCESS, Other journals, January 2018
MEASUREMENT AND CONTROL, Other journals, January 2018
Other journals, January 2018

Metrics

Publication: 50
Citation (WoS): 291
Citation (Scopus): 455
H-Index (WoS): 10
H-Index (Scopus): 12

Awards

PARALI L., Tübitak 2242 Üniversite Öğrencileri Araştırma Proje Yarışmaları Türkiye Üçüncülüğü-Proje Danışmanlık Ödülü, TÜBİTAK, January 2022
PARALI L., Tübitak 2242 Üniversite Öğrencileri Araştırma Proje Yarışmaları Türkiye Birinciliği - Proje Danışmanlık Ödülü, TÜBİTAK, January 2020
PARALI L., The electret effects of crystallized polymer-ferropiezoelectric composite under electric discharge plasma, TÜBİTAK, January 2015

Artistic Activity

PARALI L., Energy Harvesting Systems, May 2016
PARALI L., Calibration and Tracebility of Scintillation Detectors using Gamma Ray Digital Measurement System, September 2013
PARALI L., Polymer based hybrid piezo sensor’s production., May 2013
PARALI L., Multi functional photo-piezoelectric sensor’s production and their electronic measurements, December 2012

Non Academic Experience

VESTEL ELEKTRONİK AŞ., ELEKTRONİK SERVİS MÜHENDİSİ-EGİTİM ŞEFİ
POLİNAS PLASTİK AŞ., ELEKTRONİK METROLOJİ VE KALİBRASYON SORUMLUSU
VESTEL ELEKTRONİK AŞ, ELEKTRİK ELEKTRONİK LABORATUVARLAR ŞEFİ