**RESUME**



**Name and Surname:** Osman DUR
**Title:** Associate Prof. Dr.
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**EDUCATION**

| **Degree** | **Department** | **University** | **Year** |
| --- | --- | --- | --- |
| Bachelor  | Physics | Ondokuz Mayıs University Faculty of Arts and Sciences | 1988 |
| Masters | Physics | Ankara University Faculty of SciencesBudapeşte Technical University/Machinery | 1991 |
| PhD | Physics | Marmara University Faculty of Arts and SciencesFlorida State University, National High Magnetic Field Lab | 1998 |

**ACADEMIC DUTIES**

| **Title** | **Insitute** | **Year** |
| --- | --- | --- |
| Faculty Member (Assoc. Prof.) | Gazi University, Institute of Science, Department of Advanced Technologies | 2022-ongoing |
| Founding Board of Trustees Member | Konya Food and Agriculture University | 2012 |
| Research Assistant | Technical University of Budapest/Mechanical Engineering/Materials/Metallurgy | 1990-1992 |
| Research Assistant | Ankara University, Faculty of Science/Department of Physics/Solid State Physics | 1989-1993 |
| Research Assistant | Florida State University, National High Magnetic Field Lab / HTSC Materials-Coating Technologies | 1995-1997 |
| Research Assistant | Marmara University, Institute of Science | 1994-1998 |

**WORK AND INTEREST AREAS**

**I- R&D, Innovative Technologies Development and Applications**

* Power Electronics and Renewable Energy Technologies
* Metallurgy, Materials, Coatings and Surface Treatments; Wear, Corrosion, Impact, Temperature and Thin Film Technologies,
* New Generation Materials and Application Areas
* Development of High Temperature Superconductors and High Power Superconducting Magnets,
* Development and Applications of Projects Related to Magnetism and Electromagnetic Waves

**II- Science and Technology Policies, Strategies and Management**

* Science and Technology Policies, Strategies,
* The Roles of the State, University and Industry in the Transition to the Knowledge Economy
* Innovative Technologies Development Ecosystem,
* Entrepreneur and Venture Capital Collaboration Models,
* R&D, Incubation Centers, University and Industry Collaboration Models
* Management of Companies Focused on Developing Innovative Technologies

**COURSES GIVEN (UNDERGRADUATE AND GRADUATE COURSES)**

* Solid State Physics, Quantum Mechanics, Electromagnetic Theory, Nuclear Physics, Use of Radio Isotopes in Diagnosis and Treatment, Bachelor's Degree,
* New Developments in Technology, Entrepreneurship and Project Management, Bachelor's Degree,
* New Generation Technological Materials and Application Areas, Master's Degree, PhD,
* Innovative Technologies Development Ecosystem Models, Master's Degree, PhD,

**PROFESSIONAL EXPERIENCES**

1. **DEFENSE INDUSTRY 2016-2023**

In order to have the turbine, internal combustion, hybrid and electric engines required for our country's land, air and sea systems with completely national rights, planning the design, development, testing and production processes starting from white paper; developing the necessary materials, subsystems and production capabilities; planning and training the human resources needed in these areas,

Developing electric, internal combustion and turbine engines, turbine blades, armor, coating and new generation materials for land, air and sea vehicles with the support of the Presidency of Defense Industries,

**BMC GROUP** **2016-2023**

It manufactures various commercial and defense industry vehicles, from civilian and mine-protected armored vehicles such as buses and trucks to tactical wheeled vehicles, from tanks and similar tracked vehicles to unmanned land vehicles, and the necessary power propulsion and subsystems for them.

**BMC Power Inc. Chairman of the Board and Founding General Manager 2016-2023**

BMC Power Inc. was established to develop completely domestic, from design to mass production, engine, control technologies, transmission organs, materials, design, integration, testing and production technologies for military and civilian land vehicles. The company also provides drive technologies, design, integration and testing services for rail systems. Within the scope of the Altay Tank, Tactical Wheeled Armored Vehicle and New Generation Light Armored Vehicle projects received from the Presidency of Defense Industries, the design and prototype development studies of 380, 600, 1000 and 1500 horsepower engines have been developed with completely domestic capabilities and mass production has begun.

**TR Bor A.Ş. Board Member and Founding Chief Executive Officer 2018-2023**

TR Bor A.Ş. was established to develop and produce strategically important, high value-added critical materials used in high-technology areas by producing boron carbide from boron ore. It carries out R&D, production and commercial activities to meet the hard metal and coating needs in all areas of the industry such as armor, nozzle, abrasive, brake pad, rocket fuel and helicopter propeller, nuclear reactor control rod and radiation shield, diode and thermocouple in the defense and aviation sectors.

**TR MOTOR AŞ Board Member and Founding General Manager 2018-2023**

TR MOTOR A.Ş. was established to develop engine, subsystem, material, integration, test and production technologies for aircraft, helicopters, UAVs and similar aircraft, from design to production, with completely domestic resources and with all rights belonging to our country. The company carries out all processes of the Turbofan Engine and Auxiliary Power Unit (APU) development projects for the National Combat Aircraft (MMU) received from the Presidency of Defense Industries and TUSAŞ.

1. **BERA HOLDING DEPUTY CHAIRMAN OF THE BOARD OF DIRECTORS 2015-2017**

Bera Holding has been operating in a wide range of sectors since 1989. The company maintains a strong presence in the paper, cardboard, printing, packaging, machinery and technology (bearings, cranes, etc.), construction and building materials (concrete plants, prefabricated, PVC, MDF, etc.), marble and minerals (marble, lime, calcite, etc.), food and marketing (pasta, flour, semolina, pulses, biscuits, water, etc.), tourism, petroleum products and textile sectors.

**RULMENTI SA Board Member and General Manager 2015-2017**

RULMENTI SA is a company that has been operating in the global market for 63 years, producing spherical, cylindrical and radial ball bearings.

**URB India Bearing Factory Chairman of the Board 2015-2017**

URB India Bearing Factory was established in India in 2011 and has started construction of a bearing factory in addition to its commercial operations.

**New MGM Co Board Member**  **2015-2017**

New MGM Co. offers production and international marketing services for all types of vehicles with cranes and similar hydraulic technologies.

**KOMGIDA Inc. Chairman of the Board and Founding General Manager 2015-2017**

KOMGIDA AŞ has established a supplier and active marketing network in the food field by completing the installation, production, quality, packaging etc. infrastructures of flour, feed, pasta, legumes, biscuits and wafer factories.

**ADAÇAL Inc. 2015-2017**

ADAÇAL serves the paper, paint, plastic, petroleum and food sectors by producing chemicals such as marble, PCC, aggregates and industrial minerals.

1. **ÇALIK HOLDING DEPUTY CHAIRMAN OF THE BOARD OF DIRECTORS 2007-2014**

Çalık Holding operates in the fields of energy, construction, mining, textile and finance in 34 countries around the world. It develops innovative business models and achieves sustainable growth within the framework of its ongoing activities in various regions.

**Alb Telecom & Eagle Mobile & Çalık Energy Chairman of the Board 2007-2014**

Albania's fixed telecom operator Alb Telecom provides telecom, internet, broadcasting services. Development of Alb Telecom's infrastructure and service diversity such as fiber etc. and expansion of market volume,

Execution of the necessary processes for infrastructure installation, planning, service, market and brand awareness of the new mobile operator Eagle Mobile,

**Çalık Energy, EWE Energy, CETEL, YENIKOM Board Member 2007-2014**

It operates in the fields of installation, commissioning and operation services of power plants that can produce energy from natural gas in different countries of the world, as well as electricity distribution infrastructure construction and operation services.

1. **TRANSPORTATION - MINISTRY OF SCIENCE AND TECHNOLOGY PROJECTS 2002-2008**

Within the scope of our country's space, satellite technologies and e-government transition roadmap, it includes planning the design, production and test processes starting from the white paper, in a way that all rights of satellite, services provided via satellite, space, e-government and technologies related to digital transformation in broadcasting belong to our country; development of necessary materials, subsystems and production capabilities; management of all processes for planning and training the human resources needed in these areas.

As Türksat AŞ and its subsidiaries, we carry out cooperation studies with universities, government, private sector and R&D centers, establishment and management of companies related to the above-mentioned areas. Within this framework, strategic projects are being developed in order to contribute to our country's digital transformation process and ensure its technological independence.

**TÜRKSAT Chairman of the Board and Founding General Manager**  **2002-2008**

* Establishment of TÜRKSAT AŞ,
* During the privatization process of Türk Telekom, separating the communication, observation satellites and cable TV infrastructures to ensure that they remain as public services and transferring them to TÜRKSAT AŞ,
* Increasing the quality and diversity of infrastructure, content and services to provide uninterrupted service to military and civil organizations, telecom, media and communication companies,
* Training the necessary human resources for the development of domestic communication and observation satellite technologies, creating design, integration and test infrastructures,
* Strengthening the technical infrastructure to provide e-government and e-signature services and increasing the diversity of services provided through e-government,
* Coordinating all legal and technical regulations required for the provision of e-government services with the relevant institutions,
* Implementing appropriate marketing strategies to increase the number of domestic and foreign channels receiving service from TÜRKSAT satellites and to use the entire satellite capacity effectively.

**EURASIASAT Chairman of the Board and General Manager 2002-2008**

In cooperation with Alcatel and Türk Telekom, activities were carried out in Monaco to market satellite capacity utilization services for Turkey, Europe, the Middle East, Central Asia and Africa, to develop new projects and services, and to improve marketing strategies to strengthen the company's economic situation.

**INMARSAT Board Member 2002-2008**

INMARSAT operates as a UK-based international maritime communications services provider.

**INTELSAT Board Member 2002-2008**

INTELSAT operates as a US-based satellite communications services provider.

**EUTELSAT Board Member 2002-2008**

EUTELSAT operates as a France-based satellite communications services provider.

**EU SATELLITE OPERATORS ASSOCIATION (ESOA) 2002-2008**

* It is an organization formed by satellite operators serving the European Union. This organization aims to expand the areas of use of satellite services, increase service diversity, reduce costs and develop projects so that African and Middle Eastern countries can also benefit from satellite services.
* Providing advice on satellite and satellite-related standards and technologies, guiding developments and investments in technology and services, and supporting research and development activities in space technologies are among the duties of this organization.
* Developing strategies by following new developments and activities in satellite, space, telecommunication and information technologies in Europe, developing projects with universities and R&D centers and managing relations with the European Union are also among the goals of this organization.

**AYCELL Deputy Chairman of the Board of Directors 2002-2004**

AYCELL is a company that provides mobile operator services. During this period, studies were carried out to expand the company's coverage area, increase its customer base, solve cash flow problems, diversify the services offered and improve its economic situation by developing new marketing techniques.

1. **ENTREPRENEUR AND INVESTOR 1997- ON GOING**

**TEKNOMED ENGINEERING CO. 1997-2002**

It develops optical medical devices for endoscopy, laparoscopy, ear-nose-throat, ophthalmology and industrial fields. It also provides services on electromagnetic wave measurement and technologies.

**FİDES ENGINEERING CO. 1997-2002**

It offers services on smart buildings, building automation, personnel attendance control systems, electronic security and energy systems.

**TEKNOMOD 1996-On Going**

* Provides material analysis and testing services, focuses on the development of metal and composite-based materials.
* Provides solutions to problems such as corrosion, wear, and impact for businesses with various coating and welding technologies such as electrosparc, microarc, plasma, arcspray, HVOF.
* Works on composite materials such as glass fiber, carbon, fiber, and Kevlar.
* Performs material analysis and prepares samples with crystallography method, and also uses scanning-transmission electron microscope (SEM, TEM) techniques. Thin film preparation techniques, Lithography technique
* Material coating and hardening technologies with different methods
* Radiation measurements and techniques for the diagnosis and use of radioisotopes in treatment
* Insulation and isolation services in electrical, heat, sound, and similar areasMalzeme analiz ve test hizmetleri sunmakta, metal ve kompozit bazlı malzemelerin geliştirilmesine odaklanmaktadır.

**Founding President of Entrepreneurship Academy 2009-2013**

Studies have been carried out to provide the necessary training to support entrepreneurial businessmen and to create companies that develop innovative technologies, and to bring together individuals, companies, universities and R&D centers with national and international centers that develop innovative technologies.

**Vice President of Entrepreneurial Businessmen Foundation 2009- On going**

It has brought together investors with the projects of academics in order to increase the efficiency of traditional industry and to help transform it into innovative technologies.

**Member of the Board of Directors of the Rowing Federation 2017-2021**

**Member of the Board of Directors of the Judo Federation 2005-2007**

**PUBLICATIONS**

1. **Journals**
2. **National**

1226156 N. Sözbir, M. Bulut, Ş. Gulgonul, O. Dur, Düzce University Journal of Science &Technology 12 (2024)798-826 **Simultaneous development of Space Activities and the Economy in Turkey**

M-827-6206 Gulgonul Senol, Sozbir Nedim, Dur Osman, (2023). Düzce University **Journal of Science &Technology 11(2023)1296-1302, Starter selection for Diesel Engine**

M-141-5446 Kaplan Halit, Dölen Melik, DUR OSMAN (2004). **Mikro Elektro Mekanik Sistemler üretim Teknikleri II**. Endüstri ve Otomasyon, 46-54.

M-141-5424 Kaplan Halit, Dölen Melik, DUR OSMAN (2004). **Mikro Elektronik Mekanik Sistemler Uretim Teknikleri I**. Endüstri ve Otomasyon, 18-19.

1. **International**

M-768-8367 DUR OSMAN (2022). **Kırınım teorisindeki bir takım iki boyutlu problemlerin çözümlenebilmesi için efektif bir metot**. Gazi Universitesi Mühendislik Mimarlık Fakültesi Dergisi, 37(2), 1103-1110., Doi: 10.17341/gazimmfd.869834 (Quarter Slice=Q4)

M-629-1810 Sobol Oleg, DUR OSMAN (2020). **Structural engineering of multi-period composite nitride vacuum-arc coating based on (TiAlSi)N**. Materials Today. Proceedings

M-629-3109 Postelnyk H.O., Sobol O.V., Kucerova L., DUR OSMAN (2020). **Structure and Properties of Multiperiod Vacuum-Arc Coatings Based on Chromium Nitride**. Functional Materials (Quarter Slice=Q4)

M-785-8259 Sobol O.V., Pinchuk N.V., Meylekhov A.A., Subbotina V.V., DUR OSMAN, Stolbovoy V.A., Kovteba D.V. (2020). **Structural engineering of multi-period (TiMo)N/ZrN vacuum arc coatings**. Functional Materials, 27(4), 736-743., Doi: 10.15407/fm27.04.736 (Quarter Slice=Q4)

M-629-1729 Sobol O.V., DUR OSMAN, Postelnyk A.A., Kraievska Zh.V. (2019). **Structural engineering and functional propertiesof vacuum-arc coatings of high-entropy (TiZrNbVHf)N and (TiZrNbVHfTa)N alloys nitrides**. Functional Materials (Quarter Slice=Q4)

M-629-1769 Sobol Oleg, DUR OSMAN (2019). **Effect of the deposition temperature on the phasestructural state and hardness of ion-plasma coatings obtained on the basis of the quasi-binary WB2-TiB2 system**. Functional Materials (Quarter Slice=Q4)

M-629-1784 Sobol Oleg, DUR OSMAN (2019). **A Study of the Effect of Deposition Conditions on the Phase-Structural State of ION-Plasma WC - TiC Coatings**. Eastern-European Journal of Enterprise Technologies

M-629-2591 Veliyev Eldar I., KARACUHA KAMIL, KARACUHA ERTUGRUL, DUR OSMAN (2018). **The Use of the Fractional Derivatives Approach to Solve the Problem of Diffraction of a Cylindrical Wave on an Impedance Strip**. Progress in Electromagnetics Research Letters, Doi:10.2528/PIERL.18032202 (Quarter Slice=Q4)49231435854-202 Basım Tarihi: 23/03/2023 15:46:40 Sayfa: 2

M-629-0382 Oguz K., ÖZDEMIR MUSTAFA, DUR OSMAN, Coey J. M. D. (2012). **Low magnetisation alloys for in-plane spin transfer torque devices**. JOURNAL OF APPLIED PHYSICS, 111(11), Doi:10.1063/1.4723824 (Quarter Slice=Q1)

M-141-5077 DUR OSMAN, Özkul Tarık, Genç Ismail H. (2009).

**Recommended Policy Changes in University Industry and Government Relations in the Weak of Recent Economic Crisis**. MASAUM Journal of Basic and Applied Sciences

M-141-4877 Arda L., Sacli O. A., Tomsic M, DUR OSMAN, Hascicek Y. S. (2007). **Field dependence of the critical current density of MgB2 Cu wire for coil development**. Superconductor Science and Technology, 20, 1054-1058., Doi: 10.1088/0953-2048/20/10/026

M-150-1275 DUR OSMAN, Saçlı Ömer Asım, Aktas Bekir, Hasçiçek Yusuf S., SCIVER S.W. Van (1999).

**Magnetoresistivity of silver and silver-zirkonium as Sheathing high temperature superconductivity**. Turkish Journal of Physics, 23(1), 199-201.

M-629-1943 Hascicek Y. S., Boutemy B., DUR OSMAN, L. ffekbein W., O'Reilly J., Bird M. D., Eyssa Y.M. (1996).

**Contact Resistance as a Function of Surface Finish Between Cu-Ag Bitter Disks**. National High Magnetic Field Laboratory, 155-156.

M-788-4340 DUR OSMAN, Hasçiçek Yusuf S. (1996). **Magnetoresistivity of Silver and Silver Alloys as Sheath Materials**. National High Magnetic Field Laboratory

M-629-2368 Hasçiçek Yusuf S., DUR OSMAN, SCIVER S.W. Van (1996). **Jc and In-Situ Lorentz Force Straining of HTS Conductors Up to 30 Tesla**. National High Magnetic Field Laboratory

1. **Conference Papers**
2. **National**

**Tc- Antimon Trisülfür Kolloid’in Radyoformasötik Kiti haline getirilmesi ve Krararlılık Kontrollerinin yapılması**, CAKIR NESRIN, Berkem Mustafa, SUNGUR AYSE, DUR OSMAN (2004). XVIII. National Chemistry Congress, Kars, 2004, (Full text paper) B-784-8265

**Ikili ve üçlü Ferromagnetik alasım filmlerinin Spin Dalga rezonans SDR Incelemeleri,**

ÖZDEMIR MUSTAFA, Öner Y, Saçlı Ömer Asım, DUR OSMAN, Aktas Bekir (1995). 15. TFD Conferance, (Abstract statement) B-142-3825

**Degisik kalınlıktaki NiMn ince filmlerinin Intrinsic Yüzey Anizotropi incelemeleri** DUR OSMAN, Sacli O. A., ÖZDEMIR MUSTAFA, Öner Y., Aktas Bekir (1995). 15. TFD Conferance, (Abstract statement) B-142-3848

1. **International**

**How to make technology transfer projects successful observations and suggestions**,

Özkul Tarık, DUR OSMAN (2007). 4. IEEE Conference and exhibitions, Manama, (Full text paper) B-141-5175

**Models and suggestions for structuring innovation-centric universities to initiate knowledge based economies in the region**, Özkul Tarık, DUR OSMAN (2007). 4th IEEE GCC, (Full text paper) B-784-7247

**A Review About Current Status and Future of Blade-Vane Materials**, DUR OSMAN (2020). International Conference on Advanced Materials Science & Engineering and High Tech Devices Applications; Exhibition (ICMATSE 2020), (Full text paper) B-785-2360

**Electrical Properties of Sol-Gel MgO - ZrO2 Insulation Coatings under Compression for Magnet Technology**, Cakiroglu O., Arda L., Aslanoglu Z., Akin Y., DUR OSMAN, Kaplan A., Hasçiçek Yusuf S. (2003). International Cryogenic Materials Conference, 711, 184-192., Doi: 10.1063/1.1774568, (Full text paper) B-784-7196

**Contact Resistance as a Function of Surface Finish Between Cu-Ag Bitter Disks**, Hasçiçek Yusuf S., Boutemy B., DUR OSMAN, Loffelbein W., O'Reilly J., Bird M., Eyssa Y.M. (1997). 15th International Conference on Magnet Technology (MT-15), (Full text paper) B-788-4266

**Structural Engineering of Nanocomposite Coatings Based on Tungsten and Titanium Carbides**, Sobol Oleg, DUR OSMAN (2020). 3rd International Conference on Design, Simulation, Manufacturing: The Innovation Exchange, DSMIE-2020, Doi: 10.1007/978-3-030-50794-7\_54, (Full text paper) B-784-8217

**Fractional Derivative Method in the Problem of Diffraction of a Cylindrical Wave on An Impedence Strip**, KARACUHA KAMIL, Veliyev Eldar I., KARACUHA ERTUGRUL, DUR OSMAN (2018). COMPUTATIONAL METHODS AND TELECOMMUNICATION IN ELECTRICAL ENGINEERING AND FINANCE, (Full text paper) B-784-8302

**Present Status and Future Prospects of Powder Metallurgy (PM) Route Manufactured High Pressure Turbine (HPT) Disks**, DUR OSMAN (2020). International Conference on Advanced Materials Science & Engineering and High Tech Devices Applications; Exhibition (ICMATSE 2020), (Full text paper) B-785-2358 49231435854-202 Basım Tarihi: 23/03/2023 15:46:40 Page: 3

**The effect of tempering On Corrosion Fatique Performence of Mo Ti V Microalloy Steel in an Aquous H2S Solution**, Wazzan A.A., Alp T., DUR OSMAN (2004). International Mechanical Engineering Conference(Full text paper) B-141-5137

**Magnetoresistivity of silver magnesium sheath material for Bi based temperature superconductor**, DUR OSMAN, Nakamae J., Schwartz J., Hascicek Y. S. (1996).. 1996 Applied Superconductivitiy Conference- Pittsburgh, (Full text paper) B-141-5522

1. **Books**
2. **International**

**Book Chapters**

**Advances in Design, Simulation and Manufacturing III**, (Structural Engineering of Nanocomposite Coatings Based on Tungsten and Titanium Carbides) (2020)., DUR OSMAN, Springer, Basım sayısı:1, ISBN:978-3-030-50794-7, English (Scientific Book) K-629-3071

**Non-integer Derivative Method in Electromagnetic Wave Scattering ProblemsTheory and Applications**, (Chapter 4, Diffraction by the Strip with Fractional Boundary Condition) (2020)., DUR OSMAN, Kontrast, Editör: Veliyev, Eldar I., Basım sayısı:1, Sayfa Sayısı 216, ISBN:978- 617-7405-34-3, English (Scientific Book) K-629-1176

**DIRECTED THESIS**

Preparation of Tc-99m antimony trisulfide colloid into radiopharmaceutical kit and stability checks, NESRIN CAKIR, (2003). Marmara University, Thesis No: 136071, Registration No: 143531 (Completed) YT-143-531

**ARTICLE REVIEW**

Bilecik Seyh Edebali University Journal of Science, Peer Review, Effects of Sintering Temperature on Mechanical Properties and Biocompatibility of Porous TiZr Alloy Produced by Powder Metallurgy, Bilecik Seyh Edebali University Journal of Science, Review, 15.03.2022 -15.03.2022 (National) 504871

**PATENTS**

Space and Aviation Systems Fatigue Sensor, Patent Applicants: TURKSAT SATELLITE COMMUNICATION CABLE TV AND ISLETME ANONYMOUS COMPANY, Patent Inventors: Osman Dur, Halit Kaplan, Melik Dilen, Patent Number: TPE P 101 PA-130-3

**AWARDS**

Marmara University, PhD Single Graduate 1998,

Marmara University, Institute of Science, Researcher of the Year Award Candidate, TÜBİTAK 1997,

Turkish Petroleum Foundation Research Scholarship, 1996

Ankara University, Institute of Science, Master's Single Graduate 1991

Research Scholarship, Hungarian Government, 1991

Research Scholarship, Malaysian Government, 1989

Ondukuz Mayıs University, Faculty of Science, First Place in School, 1988