

TAMER AKAN

PROF.

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Odunpazarı/ESKİŞEHİR/TÜRKİYE ENG: Eskisehir

Osmangazi University, Science Faculty, Physics Department,
26040 Meselik Campus, Odunpazarı/ESKİSEHIR/TÜRKİYE

International Researcher IDs

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Publons / Web Of Science ResearcherID: GXV-8310-2022

ScopusID: 9274843700

Yoksis Researcher ID: 22458



Biography

Tamer Akan received the B.S. degree in physics from the Istanbul University in 1994 and the Ph.D. degree in Plasma Physics from the Eskişehir Osmangazi University (ESOGU) in 2003 in Turkey. He also worked at the cooperation project between ESOGU and National Institute for Laser, Plasma & Radiation Physics (INFLPR), Bucharest, in Romania and he is co-founder of the Plasma Physics Laboratory of ESOGU. He is also founder and the Director of Cold Plasma Laboratory of ESOGU. He was a Visiting Scientist in INFLPR in 1998. He worked at the Plasma & Spectroscopy Laboratory of Constanta Ovidius University in 2003 in Romania. He was a Post-doctoral Researcher at Old Dominion University's Applied Plasma Technology Laboratory, Frank Reidy Research Center for Bioelectrics in 2006 in USA. He is currently a professor with the Physics. Dr. Akan's research interests are vacuum arcs, applications of non-equilibrium gaseous discharges, cold plasmas, plasma medicine and sterilization process with non-thermal plasmas.

Learning Knowledge

Doctorate
1997 - 2003

Eskişehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Dr), Turkey

Postgraduate
1994 - 1997

Eskişehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (YI) (Tezli),
Turkey

Undergraduate
1990 - 1994

Istanbul University, Faculty Of Science, Department Of Physics, Turkey

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Foreign Language, Yabancı Diller Eğitimi, Eskişehir Osmangazi Üniversitesi, 1998

Vocational Training, Summer School (Quantum Optoelectronic), Bilkent Üniversitesi, 1995

Education Management and Planning, Öğretmenlik Pedagojik Formasyon Eğitimi, İstanbul Üniversitesi, 1993

Dissertations

Doctorate, Investigation of the Basic Properties of the Thermionic Vacuum Arc (TVA), Eskişehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, 2003

Postgraduate, Multi Channel Thermal Microscope, Eskişehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (YI) (Tezli), 1997

Postgraduate, Investigation of the Change of Conductivity with Temperature of Aluminum and Germanium Thin Films Stored by Vacuum Evaporation Technique, Istanbul University, 1994

Academic Titles / Tasks

| | |
|---------------------------------------|--|
| Professor 2014 - Continues | Eskişehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ |
| Associate Professor 2008 - 2014 | Eskişehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ |
| Assistant Professor 2008 - 2008 | Eskişehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ |
| Researcher 2006 - 2007 | Old Dominion University, Engineering And Technology, Center For Bioelectric |
| Research Assistant PhD 2003 - 2007 | Eskişehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ |
| Researcher 2003 - 2003 | "Costanta-Ovidius Üniversitesi", Plasma Spectroscopy Laboratory |
| Research Assistant 1994 - 2003 | Eskişehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ |
| Researcher 1998 - 1998 | National Institute for Laser Plasma and Radiation Physics, National Institute for Laser Plasma and Radiation Physics |

Supported Projects

1. AKAN T., KÜTÜK E. C., Project Supported by Higher Education Institutions, YÜZEY DIELEKTRİK BARIYER DEŞARJ PLAZMA İLE STERİLİZASYON, 2024 - Continues
2. TURHAN E., AKAN T., ÜNAL F., AYDOĞAN Ç., ERGİN S., ÜNAL Ş., AVCI U., ÖNDER S., ELİBOL İLERİ C., Project Supported by Higher Education Institutions, Mısır Tohumlarında Plazmalanmış Su Ön Uygulamasının Çimlenme Kapasitesi, Tuz Stresine Tolerans ve Fusarium Hastalık Etmenine Etkilerinin İncelenmesi, 2024 - Continues
3. KARADUMAN Y., KAYHAN K., AKAN T., Project Supported by Higher Education Institutions, Soğuk Atmosferik Plasma Uygulamasının Tritikale Unlarının Gluten Kalitesi İle Bazı Biyoaktif Bileşenleri Üzerine Etkisi, 2023 - Continues
4. Akan T., TUBITAK Project, Farklı Yüzey İşlemlerinin Eklemeli Yöntemle Üretilen Daimi Kompozit Rezin Materyallerinin Bağlanma Dayanımına Etkilerinin Değerlendirilmesi, 2024 - 2025
5. Kışla D., Akan T., Gündüz G., Gökmen G. G., Project Supported by Higher Education Institutions, Farklı Metal Nanopartikülleri Kullanarak Yüzeylerin Antimikrobiyal Özellikli İnce Film İle Kaplanması ve Karakterizasyonu, 2023 - 2025
6. AKAN T., DURMUŞ Ç., Project Supported by Higher Education Institutions, Termiyonik Vakum Ark (TVA) ile Depolanan Katkısız ve P2O5, CdO ve ZnO katkılı V2O5 İnce Filmlerin Bazı Özelliklerinin İncelenmesi, 2023 - 2024
7. Şahin Z., Özer N. E., Akan T., TUBITAK Project, Dijital ve Konvansiyonel Yöntemlerle Üretilen Protez Kaidelerinin Tamir Edilebilirliğine Çeşitli Yüzey İşlemlerinin Etkisi, 2022 - 2023
8. Usta Kutlu İ., Akan T., Project Supported by Higher Education Institutions, Surface Analysis of Zirconium and Lithium Disilicate Ceramics Following Different Surface Treatments and Non-Thermal Atmospheric Plasma Application, and Investigation of the Shear Bond Strength, 2022 - 2023
9. Kartal S., Akan T., Project Supported by Higher Education Institutions, Argon Atmospheric Pressure Cold Plasma Jet Generation and Modeling, 2021 - 2023
10. Mol Tokay S., Akan T., Kartal S., Coşansu Akdemir S., Tosun Ş. Y., Üçok Alakavuk D., Ulusoy Ş., Doğruyol Bayar H., Bostan K., TUBITAK Project, Effect of Atmospheric Pressure Cold Plasma on Quality of Sea Bass (*Dicentrarchus Labrax*, Linnaeus, 1758), 2020 - 2023
11. Akan T., Yavaş E. S., Çabuk A., Project Supported by Higher Education Institutions, Effect of Atmospheric Cold Plasma on Some Virulence Characteristics of *Staphylococcus aureus*, a Pathogen of ESKAPE, 2022 - 2022
12. Akan T., Durmuş Ç., Project Supported by Higher Education Institutions, Production of Thin Films of TeO₂-ZnO Binary Glass Composition Synthesis by Thermionic Vacuum Arc (TVA), 2021 - 2022
13. Akan T., İlik E., Project Supported by Higher Education Institutions, Production and Investigation of Spectroscopic Characteristics of Nitrogen Cold Plasmas, 2017 - 2019
14. Akan T., İlik E., Tanışlı M., Project Supported by Higher Education Institutions, Investigation of Cold Flowing Radio Frequency Post Discharges, 2014 - 2016
15. Akan T., İlik E., Project Supported by Higher Education Institutions, Investigation of Interaction of Cold Flowing Post-Discharge Plasmas at Low Pressure, 2014 - 2015
16. AKAN T., İLİK E., Project Supported by Higher Education Institutions, Düşük Basıncıta Soğuk-Akan-Post-Deşarj Plazmaların Etkileşiminin İncelenmesi, 2014 - 2015
17. Akan T., Ekem N., Project Supported by Higher Education Institutions, Plasma Processing of High Melting Temperature Materials and Development of Surface Coating Technology, 2005 - 2008
18. Akan T., Laroussi M., Civil Society Organizations of Other Countries Supported Project, Bactericidal Effects of Cold Plasma Technology on *Geobacillus Stearothermophilus* and *Bacillus Atrophaeus* Spores, 2006 - 2007
19. Akan T., Laroussi M., Project Supported by Public Organizations in Other Countries, Effects of Non-Equilibrium Plasmas on Eukaryotic Cells, 2006 - 2007
20. Akan T., Laroussi M., Project Supported by Public Organizations in Other Countries, Large Volume Non-Equilibrium Air Plasma at Atmospheric Pressure: A Novel Method with Low Power Requirements, 2006 - 2007
21. Akan T., Ekem N., Project Supported by Higher Education Institutions, Determination of Plasma Characteristics of RF Gas Discharges and Thermionic Vacuum Arc (TVA) Copper Metal Plasmas Using an Optical Multi-Channel Analyzer (OMA), 2003 - 2006
22. Akan T., Ekem N., Project Supported by Higher Education Institutions, Investigation of Low Temperature and Low

Awards

1. Akan T., 2023 TÜRK FİZİK DERNEĞİ ONUR ÖDÜLÜ, Türk Fizik Derneği, August 2023
2. Akan T., 30. Uğur Mumcu Anma Ödülleri Yılın Sağlık Ödülü, Çağdaş Gazeteciler Derneği Ve Tepebaşı Belediyesi, January 2023
3. Akan T., Hizmet Teşekkürü, Esogü Fen Edebiyat Fakültesi, January 2005
4. Akan T., EN BAŞARILI ÇALIŞMA, Türk Fizik Derneği, September 2002

Scholarships

2219 Yurt Dışı Doktora Sonrası Araştırma Bursu, TÜBİTAK, 2006 - 2007

Jury Memberships

Doctorate, Doctorate, Eskişehir Osmangazi Üniversitesi, July, 2024

Doctorate, Doctorate, Eskişehir Osmangazi Üniversitesi, June, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Süleyman Demirel Üniversitesi, June, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskişehir Osmangazi Üniversitesi, June, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ege Üniversitesi, June, 2024
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Eskişehir Osmangazi Üniversitesi, May, 2024

Associate Professor Exam, Associate Professor Exam, ÜAK, May, 2022

Associate Professor Exam, Associate Professor Exam, Uşak Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Eskişehir Osmangazi Üniversitesi, December, 2021

Post Graduate, Post Graduate, Eskişehir Teknik Üniversitesi, June, 2021

Associate Professor Exam, Associate Professor Exam, September, 2020

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Eskişehir Teknik Üniversitesi, January, 2020

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Eskişehir Teknik Üniversitesi, June, 2019

Doctoral Examination, Doctoral Examination, Eskişehir Osmangazi Üniversitesi, May, 2019

Award, ESOGÜ FEN BİLİMLERİ ENSTİTÜSÜ EN BAŞARILI DOKTORA TEZİ ÖDÜLÜ , Eskişehir Osmangazi Üniversitesi, May, 2016

Associate Professor Exam, Associate Professor Exam, ÜAK, April, 2016

Associate Professor Exam, Associate Professor Exam, ÜAK, April, 2015

Associate Professor Exam, Associate Professor Exam, ÜAK, December, 2014

Associate Professor Exam, Associate Professor Exam, ÜAK, December, 2014

Competition, ODTU-OSA ve TFD Fotoğraf Yarışması, Orta Doğu Teknik Üniversitesi, July, 2007

Competition, 2005 Dünya Fizik Yılı Fotoğraf Yarışması, July, 2005

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Zinc oxide nanomaterials: Safeguarding food quality and sustainability**

Gökmen G. G., Mirsafı F. S., Akan T., Leifşner T., Mishra Y. K., Kışla D.

COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY, vol.23, no.6, pp.1-45, 2024 (SCI-Expanded)

2. **Atmospheric cold plasma to maintain sea bass quality: an opportunity for international fish trade**
Ulusoy Ş., Akan T., Kartal S., Üçok D., Tosun Ş. Y., Doğruyol Bayar H., Coşansu Akdemir S., Bostan K., Mol Tokay S.
Processes, vol.12, no.11, pp.1-14, 2024 (SCI-Expanded)
3. **Innovative Pathogen Reduction in Exported Sea Bass through Atmospheric Cold Plasma Technology**
Tosun Ş. Y., Kartal S., Akan T., Mol Tokay S., Coşansu Akdemir S., Üçok D., Ulusoy Ş., Doğruyol Bayar H., Bostan K.
FOODS, vol.13, no.20, pp.1-16, 2024 (SCI-Expanded)
4. **Impact on microbiology and product quality of plasma-activated water treatment on fresh green leafy vegetables**
Gülenç B., Özdemir E., Başaran Akocak P., Kartal S., Akan T.
POSTHARVEST BIOLOGY AND TECHNOLOGY, vol.217, pp.1-13, 2024 (SCI-Expanded)
5. **Antibiofilm Efficacies of Direct and Remote Plasmas and Plasma-Treated Water on Extremophile Halomonas caseinilytica**
Akan T., Çabuk A., Aytar Çelik P., Yavaş E. S., Durmuş Ç.
IEEE TRANSACTIONS ON RADIATION AND PLASMA MEDICAL SCIENCES, vol.8, no.5, pp.571-578, 2024 (SCI-Expanded)
6. **The impact of different surface treatments on repair bond strength of conventionally, subtractive-, and additive-manufactured denture bases**
Şahin Z., Özer N. E., Akan T., Kılıçarslan M. A., Karaağaçlıoğlu L.
JOURNAL OF ESTHETIC AND RESTORATIVE DENTISTRY, vol.36, no.9, pp.1337-1347, 2024 (SCI-Expanded)
7. **An opportunity for post-harvest seafood safety: atmospheric pressure air or helium cold plasma to control Salmonella Enteritidis in sea bass**
Üçok D., Akan T., Kartal S., Tosun Ş. Y., Mol S., Coşansu S., Doğruyol H., Ulusoy Ş., Bostan K.
INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, vol.59, pp.3773-3780, 2024 (SCI-Expanded)
8. **Novel antibacterial nanoscale glass surfaces coated with vanadium pentoxide/phosphorus pentoxide (V2O5-P2O5) thin film by the thermionic vacuum arc plasma**
Kışla D., Akan T., Gökmen G. G., Durmuş Ç.
Journal of Non-Crystalline Solids: X, vol.625, pp.1-11, 2024 (SCI-Expanded)
9. **The effect of various surface treatments on the repair bond strength of denture bases produced by digital and conventional methods**
Şahin Z., Özer N. E., Akan T., Kılıçarslan M. A., Karaağaçlıoğlu L.
ODONTOLOGY / THE SOCIETY OF THE NIPPON DENTAL UNIVERSITY, vol.112, no.3, pp.782-797, 2024 (SCI-Expanded)
10. **Current approaches in water-assisted systems for foodborne microbial inactivation: A review**
Gökmen G. G., Rathod N. B., Guzik P., Kulawik P., Akan T., Kışla D., Ozogul F.
TRENDS IN FOOD SCIENCE AND TECHNOLOGY, vol.143, no.1, pp.1-26, 2024 (SCI-Expanded)
11. **Oxygen plasma treatment of TeO₂—B₂O₃ (boro-tellurite) thin films**
Demirkol U., Durmuş Ç., Akan T.
JOURNAL OF VACUUM SCIENCE AND TECHNOLOGY A, vol.41, no.6, pp.1-12, 2023 (SCI-Expanded)
12. **A surface dielectric barrier discharge reactor for biological treatments**
Akan T., Durmuş Ç.
JOURNAL OF ELECTROSTATICS, vol.126, pp.1-7, 2023 (SCI-Expanded)
13. **Cold plasma application to fresh green leafy vegetables: Impact on microbiology and product quality**
Özdemir E., Başaran P., Kartal S., Akan T.
COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY, vol.22, no.1, pp.4484-4515, 2023 (SCI-Expanded)
14. **Recent developments in antimicrobial surface coatings: Various deposition techniques with nanosized particles, their application and environmental concerns**
Kışla D., Gökmen G. G., Akdemir Evrendilek G., AKAN T., Vlčko T., Kulawik P., Režek Jambrak A., ÖZOĞUL F.
Trends in Food Science and Technology, vol.135, pp.144-172, 2023 (SCI-Expanded)
15. **TeO₂–ZnO (tellurium oxide – Zinc oxide) thin film deposition by the thermionic vacuum arc plasma**
Akan T., Demirkol U., Durmuş Ç.

- PHYSICA B: CONDENSED MATTER, vol.654, no.414694, pp.1-8, 2023 (SCI-Expanded)
16. **Vanadium pentoxide thin films deposited by the thermionic vacuum arc plasma**
Durmuş Ç., AKAN T.
Thin Solid Films, vol.770, 2023 (SCI-Expanded)
 17. **Effects of Air and Helium Cold Plasma on Sensory Acceptability and Quality of Fresh Sea Bass (*Dicentrarchus labrax*)**
Mol S., AKAN T., KARTAL S., Coşansu S., TOSUN Ş. Y., Alakavuk D. Ü., ULUSOY Ş., DOĞRUYOL BAYAR H., Bostan K.
Food and Bioprocess Technology, vol.16, no.3, pp.537-548, 2023 (SCI-Expanded)
 18. **Antibacterial Efficiency of Cadmium Thin Films Deposited by the Thermionic Vacuum Arc**
Akan T., Kışla D., Gökmen G. G., Durmuş Ç.
SURFACE AND COATINGS TECHNOLOGY, vol.456, pp.1-8, 2023 (SCI-Expanded)
 19. **Effect of nonthermal argon plasma treatment on the surface properties and phase transformation of zirconia**
Etibarlı N., ÜSTÜN Ö., AKAN T.
Journal of oral science, vol.65, no.2, pp.136-140, 2023 (SCI-Expanded)
 20. **Direct-Contact and Contact-free Treatment of a DBD-like Non-thermal Atmospheric Pressure Plasma Jet on *Pseudomonas aeruginosa***
Akan T., Çabuk A., Aytar Çelik P., Yavaş E. S., Durmuş Ç.
ROMANIAN BIOTECHNOLOGICAL LETTERS, vol.27, no.3, pp.3498-3506, 2022 (SCI-Expanded)
 21. **kHz Plasma Pencil**
Akan A., Şahin E.
TECHNICAL PHYSICS LETTERS, vol.48, no.4, pp.1-4, 2022 (SCI-Expanded)
 22. **The effect of nonthermal argon plasma surface treatment on the fracture resistance of monolithic zirconia restorations containing tetragonal and cubic grains**
Bozogullari H. N., Yucel H. C., ÜSTÜN Ö., AKAN T., Ozer F.
Journal of Oral Science, vol.64, no.2, pp.124-128, 2022 (SCI-Expanded)
 23. **Deposition of cadmium (II) oxide-reinforced VP glassy thin films by thermionic vacuum arc (TVA) and structural characterization**
İLİK E., Durmus C., KILIÇ G., Gokhan Issever U. G., AKAN T.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.12, pp.16311-16323, 2021 (SCI-Expanded)
 24. **Adding Water Droplets Into Atmospheric Pressure Plasma Jet of Helium**
İlik E., Durmus C., Akan T.
IEEE TRANSACTIONS ON PLASMA SCIENCE, vol.47, pp.5000-5005, 2019 (SCI-Expanded)
 25. **Applying on *Bacillus cereus* of Low-Pressure and Low-Temperature Plasma Jet in a Postdischarge Chamber**
Akan T.
IEEE TRANSACTIONS ON RADIATION AND PLASMA MEDICAL SCIENCES, vol.1, no.5, pp.468-471, 2017 (SCI-Expanded)
 26. **Optical properties of the atmospheric pressure helium plasma jet generated by alternative current (a.c.) power supply**
İlik E., Akan T.
PHYSICS OF PLASMAS, vol.23, 2016 (SCI-Expanded)
 27. **Indirect plasma inactivation by a low temperature atmospheric pressure plasma (LTAPP) system**
AKAN T., ÇABUK A.
JOURNAL OF ELECTROSTATICS, vol.72, no.3, pp.218-221, 2014 (SCI-Expanded)
 28. **Boron processes using thermionic vacuum arc**
AKAN T., Karakas E.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.8, pp.480-482, 2014 (SCI-Expanded)
 29. **Cold Plasma Technology Bactericidal Effects On *Geobacillus Stearothermophilus* And *Bacillus Cereus***

Microorganisms

Morris A. D., McCombs G. B., Akan T., Hynes W. L., Laroussi M., Tolle S. L.

JOURNAL OF DENTAL HYGIENE : JDH / AMERICAN DENTAL HYGIENISTS' ASSOCIATION, vol.83, no.2, pp.55-61, 2009 (SCI-Expanded)

30. **The plasma pencil: A source of hypersonic cold plasma bullets for biomedical applications**
Laroussi M., Hynes W., AKAN T., Lu X., Tendero C.
IEEE TRANSACTIONS ON PLASMA SCIENCE, vol.36, no.4, pp.1298-1299, 2008 (SCI-Expanded)
31. **Titanium oxidation by pulsed oxygen plasma**
Balbag M. Z., Pat S., Cenik I., Ekem N., AKAN T., BAKSAN B., Vladoiu R., Musa G.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.10, no.3, pp.680-682, 2008 (SCI-Expanded)
32. **Arc-free atmospheric pressure cold plasma jets: A review**
Laroussi M., AKAN T.
PLASMA PROCESSES AND POLYMERS, vol.4, no.9, pp.777-788, 2007 (SCI-Expanded)
33. **MgB₂ superconducting thin films sequentially fabricated using DC magnetron sputtering and thermionic vacuum arc method**
Okur S., Kalkanci M., Pat S., Ekem N., Akan T., Balbag Z., Musa G., Tanoglu M.
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.466, pp.205-208, 2007 (SCI-Expanded)
34. **Study of metal and ceramic thermionic vacuum arc discharges**
AKAN T., Demirkol S., Ekem N., Pat S., Musa G.
PLASMA SCIENCE & TECHNOLOGY, vol.9, no.3, pp.280-283, 2007 (SCI-Expanded)
35. **Boron evaporation and related difficulties**
Balbag M. Z., Pat S., Cenik M. I., AKAN T., Ekem N., Musa G.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.9, no.4, pp.858-861, 2007 (SCI-Expanded)
36. **Carbon synthesis in methane plasma**
Musa G., Ekem N., Pat S., Balbag M. Z., Cenik M. I., AKAN T., Ciupina V., Vladoiu R., Tanisli M., Ozen O.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.9, no.4, pp.871-874, 2007 (SCI-Expanded)
37. **Investigation of carbon produced by methane pulsed discharge**
Musa G., Ekem N., Akan T., Pat S., Balbağ M. Z., Cenik M. İ., Vladoiu R., Tanışlı M., Özen Ö.
PHYSICA STATUS SOLIDI C: CURRENT TOPICS IN SOLID STATE PHYSICS, VOL 14 NO 5, vol.4, no.2, pp.521-523, 2007 (SCI-Expanded)
38. **Boron thin film deposition by using Thermionic Vacuum Arc (TVA) technology**
AKAN T., Ekem N., Pat S., İŞSEVER U. G., Balbag M. Z., Cenik M. I., Vladoiu R., Musa G.
MATERIALS LETTERS, vol.61, no.1, pp.23-26, 2007 (SCI-Expanded)
39. **Sterilization of Staphylococcus aureus by atmospheric pressure pulsed plasma**
Ekem N., AKAN T., Akgun Y., Kiremitci A., Pat S., Musa G.
SURFACE & COATINGS TECHNOLOGY, vol.201, pp.993-997, 2006 (SCI-Expanded)
40. **Plasma Sterilization Using the High Voltage Pulsed Discharge at Atmospheric Pressure**
Akan T., Naci E., Akgün Y., Kiremitçi A., Çabuk A., Pat S., Musa G.
JOURNAL OF APPLIED SCIENCES, vol.6, no.7, pp.1566-1570, 2006 (SCI-Expanded)
41. **Characteristics of boron thin films obtained by TVA technology**
Musa G., Vladoiu R., Ciupina V., Lungu C., Mustata I., Pat S., AKAN T., Ekem N.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.8, no.2, pp.617-620, 2006 (SCI-Expanded)
42. **SURFACE CHARGE INFLUENCE ON THE BREAKDOWN VOLTAGE IN HE**
Akan T., Ciupina V., Vladoiu R., Musa G.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.24, no.2, pp.45-49, 2006 (SCI-Expanded)
43. **Studies on the thermionic vacuum arc discharges in the vapors of Cu-Ag and Cu-Sn alloys**
AKAN T., Ekem N., Pat S., Vladoiu R., Musa G.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.7, no.5, pp.2489-2494, 2005 (SCI-Expanded)
44. **Al₂O₃ THIN FILM DEPOSITION USING THERMIONIC VACUUM ARC**
Akan T., Karakas E., Musa G.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.23, no.3, pp.18-23, 2005 (SCI-Expanded)

45. **Study on Thermionic Vacuum ARC- A novel and advanced technology for surface coating**
PAT S., Ekem N., AKAN T., Küsmüş Ö., Demirkol S., Vladioiu R., Lungu C., Musa G.
Journal of Optoelectronics and Advanced Materials, vol.7, no.5, pp.2495-2499, 2005 (SCI-Expanded)
46. **Variation in thickness of copper films deposited at various distances and angles using the thermionic vacuum arc**
AKAN T., Ekem N.
Turkish Journal of Physics, vol.27, no.3, pp.219-224, 2003 (SCI-Expanded)
47. **Operation parameters of the thermionic vacuum arc discharge**
AKAN T.
Turkish Journal of Physics, vol.27, no.1, pp.69-75, 2003 (SCI-Expanded)

Articles Published in Other Journals

1. **Improvement of the Quality by the Cold Plasma on the Sunn Pest (Eurygaster Integriceps)-Damaged Wheat Flour**
Akn A., Karaduman Y., Akan T.
European Food Science and Engineering, vol.5, no.1, pp.20-25, 2024 (Peer-Reviewed Journal)
2. **Development of A New Device For Applying Atmospheric Pressure Cold Plasma on Foods**
Akan T., Kartal S., Mol Tokay S., Coşansu Akdemir S., Tosun Ş. Y., Üçok Alakavuk D., Ulusoy Ş., Doğruyol H., Bostan K.
Food and Environment Safety, vol.21, no.4, pp.321-332, 2022 (Peer-Reviewed Journal)
3. **AL YAZMALIM**
Akan T.
ÇINARALTI Dergisi, vol.7, no.17, pp.12-14, 2022 (Non Peer-Reviewed Journal)
4. **DUMAN**
Akan T.
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70. **Termiyonik Vakum Ark (TVA) Yöntemi İle Ag-Al₂O₃ Nano-Tabakalı Kompozit Malzeme Üretimi**
Akan T., Ekem N., Demirkol S., Küsmüş Ö., Pat S., Musa G.
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71. **Termiyonik Vakum Ark (TVA) Teknolojisini Kullanarak Bor'un Plazma İle İşlenmesi,**
MUSA G., EKEM N., AKAN T., PAT S., BALBAĞ M. Z., İŞSEVER U. G., CENİK İ.
I. Ulusal Bor Çalıştayı, Ankara, Turkey, 28 - 29 April 2005, pp.163-168
72. **Copper-Silver Alloy Depositions Using Thermionic Vacuum Arc (TVA)**
Akan T., Musa G., Ekem N.
Turkish Physical Society 22rd Physics Congress, Muğla, Turkey, 14 - 17 September 2004, pp.64

73. **Effect of the Stored Charges on the Dielectric Walls of the Discharge Devices on the Breakdown Voltage in Helium**
Akan T., Ciupina V., Vladou R., Musa G.
Turkish Physical Society 22rd Physics Congress, Muğla, Turkey, 14 - 17 September 2004, pp.63
74. **Studies on Cu-Ag and Cu-Sn Thermionic Vacuum Arc (TVA) Discharges**
Akan T., Ekem N., Vladou R., Musa G.
Seventeenth European Conference on Atomic & Molecular Physics of Ionized Gases (ESCAMPIG-17), Constanta, Romania, 1 - 05 September 2004, pp.233-234
75. **Bakır Buharlarında Termiyonik Vakum Ark(TVA) Deşarjının Akım-Voltaj Karakteristiklerinin İncelenmesi**
AKAN T., EKEM N., MUSA G.
21. Türk Fizik Derneği Fizik Kongresi, Turkey, 11 - 14 September 2002
76. **Bakır Buharlarında Termiyonik Vakum Ark (TVA) Deşarjının Breakdown Voltajının İncelenmesi,**
AKAN T., EKEM N., MUSA G.
21. Türk Fizik Derneği Fizik Kongresi, Turkey, 11 - 14 September 2002
77. **Termiyonik Vakum Ark (TVA) İle Cam Taban Üzerine Oluşturulan Bakır Filmlerin Metalurjik Mikroskop İle İncelenmesi**
AKAN T., EKEM N., MUSA G., PAT S.
21. Türk Fizik Derneği Fizik Kongresi, Turkey, 11 - 14 September 2002
78. **Çok Kanallı Termal Mikroskop İle Sepiolitin Isıl İletkenlik Katsayısının ve Bakır-Sepiolit Yüzeyinin Termal Görüntüsü**
BAYKUL M. C., IŞIK İ., SAĞDIÇ F., AKAN T.
VIII. Ulusal Kil Sempozyumu, Kütahya, Turkey, 24 - 27 September 1999, pp.187-193
79. **Multi-Channel Thermal Microscopy**
Baykul M. C., Akan T.
3rd General Conference of the Balkan Physical Union, Cluj, Romania, 2 - 05 September 1997, pp.336
80. **Malzeme Analiz Tekniklerinden Elektron Mikroskopları ve Çok Kanallı Termal Mikroskop**
AKAN T., BAYKUL M. C.
I. Kızılırmak Fen Bilimleri Sempozyumu, Kırıkkale, Turkey, 14 - 16 May 1997, pp.451-459

Other Publications

1. **Düşük Basınç Plazmalarındaki Çoklu Gaz Karışımı Radyasyonunun İncelenmesi**
Akan T., Musa G.
Other, pp.1-100, 2005
2. **Studies on Multiple Gas Mixture Radiation in Low Temperatures Plasmas**
Akan T., Musa G.
Other, pp.1-100, 2005
3. **DC Glow Deşarj Deneyleri I**
Musa G., Akan T.
Experiment, pp.1-50, 2001
4. **Plazma Fiziği I**
Musa G., Akan T.
Lecture Note, pp.1-143, 2001
5. **Metal Buharlarında Isıtılmış Katotlu Deşarj Çalışmalarının İncelenmesi**
Akan T., Musa G.
Other, pp.1-100, 2000
6. **Contribution to the Studies of the Discharge with Heated Cathode in Metal Vapors**
Akan T., Musa G.
Other, pp.1-100, 2000

7. **Physics Laboratory Manual (Electric and Optic Experiments)**
Baykul M. C., Akan T., Sađdıç F.
Experiment, pp.1-24, 1997
8. **Physics Laboratory Manual (Mechanic and Heat Experiments)**
Baykul M. C., Akan T.
Experiment, pp.1-35, 1995

Expert Reports

1. **2024/173**
Akan T.
ESKİŞEHİR CUMHURİYET BAŞSAVCILIđI, pp.40, Eskişehir, 2024
2. **2024/37993**
Akan T.
ESKİŞEHİR CUMHURİYET SAVCILIđI, pp.20, Eskişehir, 2024
3. **2023/37709**
Akan T.
ESKİŞEHİR CUMHURİYET BAŞSAVCILIđI, pp.21, Eskişehir, 2023

Academic and Administrative Experience

| | | |
|------------------|--|---|
| 2024 - Continues | Faculty Board Member | Eskisehir Osmangazi University, FEN FAKÜLTESİ |
| 2024 - Continues | Head of Department | Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fen Bil.Enst.Md.Lüğü |
| 2024 - Continues | Head of Department | Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ |
| 2020 - Continues | Danışma Kurulu Üyesi | Eskisehir Osmangazi University, REKTÖRLÜK |
| 2018 - Continues | Chairperson of Department Promotion and Alumni Relations Commission | Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ |
| 2009 - Continues | Farabi Program Institutional Coordinator | Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ |
| 2021 - 2022 | Head of Department | Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ |
| 2018 - 2021 | Head of Department | Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ |
| 2013 - 2016 | Head of Department | Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ |
| 2010 - 2013 | Faculty Management Board Member | Eskisehir Osmangazi University, ZİRAAT FAKÜLTESİ |
| 2010 - 2013 | Head of Department | Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Fizik Bölümü |
| 2010 - 2013 | Program Evaluation Board Member | Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ |
| 2010 - 2013 | Faculty Board Member | Eskisehir Osmangazi University, ZİRAAT FAKÜLTESİ |

Courses

ATMOSFERİK BASINÇ PLAZMA, Undergraduate, 2024 - 2025, 2023 - 2024
SOĞUK PLAZMALAR I, Postgraduate, 2024 - 2025, 2020 - 2021, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
YÜKSEK LİSANS TEZ ÇALIŞMASI, Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023
PLAZMA FİZİĞİNE GİRİŞ II, Undergraduate, 2023 - 2024
UZMANLIK ALAN DERSİ (DR), Doctorate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
DOKTORA TEZ ÇALIŞMASI, Doctorate, 2024 - 2025, 2023 - 2024, 2022 - 2023
ATMOSFERİK BASINÇ PLAZMALAR I II, Undergraduate, 2023 - 2024, 2022 - 2023
ÖĞRETMENLİK UYGULAMASI, Undergraduate, 2024 - 2025
UZMANLIK ALAN DERSİ (YL), Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
FİZİKTE NOBEL ÖDÜLLERİ, Undergraduate, 2023 - 2024
Physics I, Undergraduate, 2024 - 2025, 2021 - 2022
FİZİK I LAB, Undergraduate, 2024 - 2025
PLAZMA FİZİĞİNE GİRİŞ I, Undergraduate, 2024 - 2025
ATMOSFER FİZİĞİNE GİRİŞ, Undergraduate, 2022 - 2023
PHYSICS I LAB, Undergraduate, 2023 - 2024
FİZİK, Undergraduate, 2023 - 2024
PLAZMA MATERYAL İŞLEME I, Doctorate, 2023 - 2024, 2019 - 2020, 2018 - 2019, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
ELEKTROMANYETİK TEORİ, Undergraduate, 2023 - 2024
PHYSICS II, Undergraduate, 2022 - 2023, 2021 - 2022, 2015 - 2016, 2014 - 2015
PHYSICS II LAB, Undergraduate, 2022 - 2023, 2009 - 2010
İSTATİSTİKSEL MEKANİK VE UYGULAMALARI, Doctorate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
PHYSICS I (A), Undergraduate, 2022 - 2023, 2021 - 2022
ATMOSFERİK BASINÇ PLAZMALAR I (A), Undergraduate, 2022 - 2023
PHYSICS II, Undergraduate, 2021 - 2022, 2015 - 2016
NÜKLEER FİZİK II, Undergraduate, 2021 - 2022
PHYSICS I (B), Undergraduate, 2021 - 2022, 2014 - 2015
Physics I, Undergraduate, 2021 - 2022
Nükleer Fizik I, Undergraduate, 2021 - 2022
PLAZMA MATERYAL İŞLEME II, Doctorate, 2019 - 2020, 2018 - 2019, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
FİZİKTE BİLİM TARİHİ I, Undergraduate, 2020 - 2021
SOĞUK PLAZMALAR II, Postgraduate, 2019 - 2020, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
ELEKTROMANYETİK TEORİ I, Undergraduate, 2018 - 2019, 2014 - 2015, 2013 - 2014, 2012 - 2013
ELEKTROMANYETİK TEORİ II, Undergraduate, 2018 - 2019, 2014 - 2015, 2013 - 2014, 2012 - 2013
FİZİK I(İ.Ö.), Undergraduate, 2017 - 2018
FİZİK II, Undergraduate, 2017 - 2018
KLASİK MEKANİK I, Undergraduate, 2017 - 2018
KLASİK MEKANİK II, Undergraduate, 2017 - 2018
MODERN FİZİK, Undergraduate, 2017 - 2018
FİZİK II(İ.Ö.), Undergraduate, 2017 - 2018

MODERN FİZİK LAB, Undergraduate, 2017 - 2018
FİZİK I (B), Undergraduate, 2018 - 2019, 2014 - 2015
FİZİK I, Undergraduate, 2017 - 2018, 2016 - 2017
FİZİK I (B), Undergraduate, 2018 - 2019, 2015 - 2016
FİZİK A, Undergraduate, 2017 - 2018
ATMOSFERİK BASINÇ PLAZMALAR II, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
ATMOSFERİK BASINÇ PLAZMALAR I, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
ATMOSFER FİZİĞİ, Undergraduate, 2014 - 2015, 2013 - 2014, 2011 - 2012, 2010 - 2011
ATMOSFERİK BASINÇ PLAZMALAR II, Undergraduate, 2013 - 2014, 2011 - 2012, 2010 - 2011, 2009 - 2010
FİZİK I LAB (B), Undergraduate, 2013 - 2014
ELEKTROMANYETİK TEORİ II, Undergraduate, 2012 - 2013
İSTATİSTİK FİZİK, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
ELEKTRO MANYETİK TEORİ I, Undergraduate, 2012 - 2013
ATMOSFERİK BASINÇ PLAZMALAR I, Undergraduate, 2012 - 2013, 2010 - 2011, 2009 - 2010
TERMODİNAMİK, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010
İSTATİSTİK FİZİK, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
ÖĞRETMENLİK UYGULAMASI, Undergraduate, 2011 - 2012
FİZİK I LAB (A), Undergraduate, 2011 - 2012
FİZİK I (B), Undergraduate, 2011 - 2012, 2010 - 2011
TERMODİNAMİK, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010
FİZİK I LAB (B), Undergraduate, 2011 - 2012, 2010 - 2011
FİZİK (A), Undergraduate, 2010 - 2011, 2009 - 2010
PHYSICS I LAB (A), Undergraduate, 2009 - 2010

Advising Theses

Karaduman Y., Akan T., Soğuk Atmosferik Plasma Uygulamasının Triticale Unlarının Gluten Kalitesi ile Bazı Biyoaktif Bileşenleri Üzerine Etkisi, Postgraduate, K.KAYHAN(Student), Continues
Kışla D., Akan T., Investigation of Antimicrobial Characteristics of the Surfaces Coated with Amorphous Metal Alloy (BAlSi) Synthesized by Boron (B), Aluminum (Al) and Silicon (Si) Nanoparticles, Doctorate, G.GURUR(Student), Continues
Akan T., Molibden Temelli Yenilikçi Malzemelerin Plazma Destekli Teknolojilerle Üretilmesi, Doctorate, U.DEMİRKOL(Student), Continues
Akan T., Yüzey Dielektrik Bariyer Deşarj Plazma İle Sterilizasyonu , Postgraduate, E.CEREN(Student), Continues
Çabuk A., Akan T., Investigation of Inactivation Mechanisms of Atmospheric Cold Plasma Application on Bacterial Biofilms, Doctorate, S.YAVAŞ(Student), 2024
Akan T., Investigation of some properties of undoped and P2O5, CdO, and ZnO doped V2O5 thin films deposited by the Thermionic Vacuum Arc (TVA), Doctorate, Ç.DURMUŞ(Student), 2024
Akan T., Kilohertz Plasma Pencil, Doctorate, E.ŞAHİN(Student), 2022
Akan T., Production and Investigation of Nitrogen Gas Discharges, Postgraduate, Ç.DURMUŞ(Student), 2018
Akan T., Production of Cold Flowing Post-Discharge Plasma Reactors and Investigation on Their Some Properties, Doctorate, E.İLİK(Student), 2017
Akan T., Argon Plasma Jet Generation, Postgraduate, O.KESKİN(Student), 2017
Akan T., The Investigation of Luminescent Discharge Characteristics, Postgraduate, E.FURKAN(Student), 2016
Akan T., The Investigation of Plasmas Flowed to Another Post-Discharge Chamber at Low Pressure, Postgraduate, Y.YUNUS(Student), 2015
Akan T., Application On Bacteria of Air DC Post-Discharge Plasma at Low Pressure and Temperature, Postgraduate, K.KOLBAY(Student), 2014
Akan T., Atmospheric pressure plasma jets, Postgraduate, E.DALLI(Student), 2013

Memberships / Tasks in Scientific Organizations

ESOGÜ Translasyonel Tıp Uygulama ve Araştırma Merkezi, Member of Science Committee, 2021 - Continues, Turkey
Türk Fizik Derneği Eskişehir Temsilciliği, Chairman, 2016 - Continues, Turkey
Türk Fizik Derneği, Member, 1994 - Continues, Turkey
Türk Fizik Derneği, Executive Board Member, 2013 - 2019, Turkey
Türk Fizik Derneği Ankara Şubesi, Chairman, 2014 - 2016, Turkey
Balkan Fizik Birliği, Member, 1994 - 1996, Turkey

Scientific Refereeing

PHYSICA B: CONDENSED MATTER, SCI Journal, October 2024
POSTHARVEST BIOLOGY AND TECHNOLOGY, SCI Journal, October 2024
MATERIALS LETTERS, SCI Journal, October 2024
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, October 2024
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, October 2024
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, QUANTUM PLASMA TEKNOLOJİ ANONİM ŞİRKETİ, Turkey, October 2024
NUTRIRE, SCI Journal, September 2024
HELIYON, SCI Journal, September 2024
MATERIALS CHEMISTRY AND PHYSICS, SCI Journal, June 2024
IEEE TRANSACTIONS ON PLASMA SCIENCE, Journal Indexed in SCI-E, May 2024
TUBITAK Project, 1501 - Industry R & D Projects Support Program, BIOMEDAP BİYOMEDİKAL MEDİKAL TIBBİ CİHAZ ELEKTRİK ELEKTRONİK KİMYA ARGE ÜRETİM İTH. İHR. SAN. VE TİC. LTD. ŞTİ. (ISPARTA), Türkiye, Turkey, December 2023
SCIENTIFIC REPORTS, SCI Journal, November 2023
INNOVATIVE FOOD SCIENCE AND EMERGING TECHNOLOGIES, SCI Journal, November 2023
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Turkey, October 2023
JOURNAL OF PROSTHODONTICS, Journal Indexed in SCI-E, September 2023
JOURNAL OF VACUUM SCIENCE AND TECHNOLOGY A, SCI Journal, July 2023
SOLID STATE SCIENCES, Journal Indexed in SCI-E, June 2023
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, May 2023
MATERIALS LETTERS, SCI Journal, May 2023
MATERIALS LETTERS, SCI Journal, March 2023
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, January 2023
PHYSICS OF PLASMAS, SCI Journal, September 2022
IEEE TRANSACTIONS ON PLASMA SCIENCE, Journal Indexed in SCI-E, May 2022
MATERIALS LETTERS, SCI Journal, May 2022
IEEE Transactions On Plasma Science, SCI Journal, March 2022
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, March 2022
Journal Of Optoelectronics And Advanced Materials, Journal Indexed in SCI-E, March 2022
MATERIALS LETTERS, Journal Indexed in SCI-E, January 2022
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, November 2021
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, DAVİTAP MÜH., Turkey, November 2021
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, August 2021
the Open Dentistry Journal, Journal Indexed in ESCI, August 2021
Innovative Food Science & Emerging Technologies, Journal Indexed in SCI-E, August 2021
PARTICULATE SCIENCE AND TECHNOLOGY, SCI Journal, August 2021
MATERIALS LETTERS, SCI Journal, July 2021
INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES, SCI Journal, July 2021

INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES, SCI Journal, June 2021
Project Supported by Higher Education Institutions, BAP PhD, Ankara University, Turkey, June 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Turkey, June 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Turkey, June 2021
TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, TÜBİTAK, Turkey, June 2021
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Turkey, April 2021
TUBITAK Project, 2236 - Program for Supporting International Researchers, Yildiz Technical University, Turkey, April 2021
Bursa Uludağ Üniversitesi Ziraat Fakültesi Dergisi (Online), National Scientific Refreed Journal, January 2021
INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES, SCI Journal, January 2021
MATERIALS LETTERS, SCI Journal, January 2021
TUBITAK Project, 3501 - National Young Researcher Career Development Program, Turkey, September 2020
TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Turkey, June 2020
TUBITAK Project, 1002 - Quick Support Program, Turkey, April 2020
Scientific Publication, ETİK DEĞERLENDİRME KOMİSYONU, Eskişehir Technical University, Turkey, March 2020
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Turkey, January 2020
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Eskişehir Osmangazi University, Turkey, January 2020
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Turkey, October 2019
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Turkey, May 2019
TUBITAK Project, 3501 - National Young Researcher Career Development Program, Turkey, March 2019
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, September 2018
INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES, SCI Journal, August 2018
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Turkey, July 2018
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, SCI Journal, June 2018
CANADIAN JOURNAL OF PHYSICS, SCI Journal, February 2018
MATERIALS LETTERS, SCI Journal, January 2018
AFYON KOCATEPE ÜNİVERSİTESİ FEN VE MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, December 2017
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, November 2017
CANADIAN JOURNAL OF PHYSICS, SCI Journal, October 2017
PHYSICS OF PLASMAS, SCI Journal, September 2017
PHYSICS OF PLASMAS, SCI Journal, July 2017
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, May 2017
MATERIALS LETTERS, SCI Journal, February 2017
PARTICULATE SCIENCE AND TECHNOLOGY, SCI Journal, October 2016
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, May 2016
JOURNAL OF ELECTROSTATICS, SCI Journal, November 2015
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, October 2015
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, October 2014
JOURNAL OF ELECTROSTATICS, SCI Journal, July 2014
JOURNAL OF ELECTROSTATICS, SCI Journal, July 2014
MATERIALS LETTERS, SCI Journal, January 2014
IEEE TRANSACTIONS ON PLASMA SCIENCE, SCI Journal, December 2013
JOURNAL OF ELECTROSTATICS, SCI Journal, November 2013
MATERIALS LETTERS, SCI Journal, January 2013
MATERIALS LETTERS, SCI Journal, November 2012
MATERIALS LETTERS, SCI Journal, September 2012
Journal Of Electrostatics, Journal Indexed in SCI-E, September 2012
MATERIALS LETTERS, SCI Journal, June 2012
MATERIALS LETTERS, SCI Journal, April 2012

JOURNAL OF ELECTROSTATICS, SCI Journal, March 2012
surface and Coatings Technology, Other Indexed Journal, February 2011
MATERIALS LETTERS, SCI Journal, December 2010
MATERIALS LETTERS, SCI Journal, July 2010
JOURNAL OF FOOD ENGINEERING, SCI Journal, March 2008
Surface and Coatings Technology, Other Indexed Journal, July 2007
Sigma Mühendislik ve Fen Bilimleri Dergisi, Other Journals, April 2006

Scientific Consultations

Anadolu Üniversitesi, Project Consultancy, Eskişehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, Turkey, 2014 - 2016

Tasks In Event Organizations

Akan T., 40th International Physics Congress of the Turkish Physical Society , Scientific Congress, Muğla, Turkey, Eylül 2024
Akan T., Turkish Physical Society 36th International Physics Congress, Scientific Congress, İstanbul, Turkey, Eylül 2020
Akan T., Turkish Physical Society 35th International Physics Congress, Scientific Congress, Muğla, Turkey, Eylül 2019
Akan T., Turkish Physical Society 34th International Physics Congress , Scientific Congress, Muğla, Turkey, Eylül 2018
Atay F., KÜRKCÜOĞLU G. S., AKAN T., VI. ULUSAL GÜNEŞ VE HİDROJEN ENERJİSİ KONGRESİ, Scientific Congress, Eskişehir, Turkey, Mayıs 2018
Akan T., Turkish Physical Society 33rd International Physics Congress , Scientific Congress, Muğla, Turkey, Eylül 2017
Akan T., Turkish Physical Society 32nd International Physics Congress , Scientific Congress, Muğla, Turkey, Eylül 2016
Atay F., KÜRKCÜOĞLU G. S., AKAN T., KURTARAN S., V. ULUSAL GÜNEŞ VE HİDROJEN ENERJİSİ KONGRESİ, Scientific Congress, Eskişehir, Turkey, Mayıs 2016
Akan T., KURTARAN S., Adım Fizik Günleri V, Scientific Congress, Eskişehir, Turkey, Nisan 2016
Akan T., 9th International Physics Conference of the Balkan Physical Union , Scientific Congress, İstanbul, Turkey, Ağustos 2015
Akan T., The 42nd IEEE International Conference on Plasma Science, Head of Session of High-Pressure and Thermal Plasma Processing, Scientific Congress, Antalya, Turkey, Mayıs 2015
Akan T., 31. Uluslar arası TFD Fizik Kongresi , Scientific Congress, Muğla, Turkey, Temmuz 2014
Atay F., KÜRKCÜOĞLU G. S., AKAN T., IV. ULUSAL GÜNEŞ VE HİDROJEN ENERJİSİ KONGRESİ, Scientific Congress, Eskişehir, Turkey, Mayıs 2014
Akan T., 1. Uluslar arası Plazma Teknolojileri Kongresi , Scientific Congress, Kayseri, Turkey, Nisan 2014
Akan T., First International Middle East Plasma Science Conference , Scientific Congress, Antalya, Turkey, Nisan 2014
Akan T., Adım Fizik Günleri III, Scientific Congress, Isparta, Turkey, Nisan 2014
Akan T., 30. Uluslar arası TFD Fizik Kongresi, Scientific Congress, İstanbul, Turkey, Eylül 2013
Akan T., 29. Uluslar arası TFD Fizik Kongresi, Scientific Congress, Muğla, Turkey, Eylül 2012
Akan T., III. Ulusal Güneş ve Hidrojen Sempozyumu , Scientific Congress, Eskişehir, Turkey, Haziran 2012
Akan T., 28. Uluslar arası TFD Fizik Kongresi, Scientific Congress, Muğla, Turkey, Eylül 2011
Akan T., I. MYOMAT , Scientific Congress, Eskişehir, Turkey, Temmuz 2009
Akan T., II. Ulusal Güneş ve Hidrojen Sempozyumu , Scientific Congress, Eskişehir, Turkey, Temmuz 2008
Akan T., 6. BPU-Uluslar arası Fizik Konferansı , Scientific Congress, İstanbul, Turkey, Ağustos 2006
Akan T., I. Ulusal Güneş ve Hidrojen Sempozyumu, Scientific Congress, Eskişehir, Turkey, Temmuz 2006
Akan T., 2005 Dünya Fizik Yılı ile ilgili ESOGU Basın Toplantısı, Social Activities, Eskişehir, Turkey, Mart 2005

Mobility Activity

Post Doc, Post Doc, Old Dominion University, United States Of America, 2006 - 2007

Bilateral Colloboration Agreement, Guest Researcher, "Costanta-Ovidius Üniversitesi", Romania, 2003 - 2005

Bilateral Colloboration Agreement, Guest Researcher, National Institute for Laser Plasma and Radiation Physics, Romania, 1998 - 2005

Metrics

Publication: 167

Citation (WoS): 878

Citation (Scopus): 1050

H-Index (WoS): 11

H-Index (Scopus): 13

Invited Talks

Soğuk Plazmaların Biyolojik Hücreler, Tıp, Gıda ve Ziraat Uygulamaları, Seminar, FATİH FEN LİSESİ, Turkey, October 2023

Soğuk Plazmaların Biyolojik Hücreler, Tıp, Gıda ve Ziraat Uygulamaları, Seminar, YENİ YOL OKULLARI, Turkey, June 2023
ESOGÜ Tematik Alan 1: Yenilikçi Malzeme, Biyomalzeme Teknolojileri Çalıştayı, Workshop, Eskişehir Osmangazi Üniversitesi, Turkey, January 2023

Soğuk Plazmaların Biyolojik Hücreler, Tıp, Gıda ve Ziraat Uygulamaları, Conference, Eskişehir Osmangazi Üniversitesi, Turkey, December 2020

Eğitim ve Kariyer Yönetimi, Conference, Subaşı Hacı Ali Saruhan Lisesi, Turkey, October 2017

Kariyer Planlama ve Bilim, Conference, Şehit Piyade Astsubay Çavuş Soner ÖZÜBEK İÖO ve OÖO, Turkey, January 2016

Fizik Çözümlenmeleri Poster Sunum Organizasyonu, Conference, Eskişehir Osmangazi Üniversitesi, Turkey, September 2015

Kuantum Fiziği, Conference, Eskişehir Cumhuriyet Lisesi, Turkey, January 2012

Plazma ve Uygulamaları, Conference, Boğaziçi Üniversitesi, Turkey, March 2008

Maddenin 4. Hali, Conference, Eskişehir Fen Lisesi, Turkey, May 2005

Türk Tabipler Birliği 8 Mart Dünya Kadınlar Günü Konferansı Tarihe İsmi Yazdıran Bayan Fizikçiler, Conference, Eskişehir Osmangazi Üniversitesi, Turkey, March 2005

Research Areas

Atomic and Molecular Physics, Gases, Plasmas and Electrical Discharges Physics, Natural Sciences

Non Academic Experience

Public Corporation