

Assoc. Prof. DOĞAN KAYA

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International Researcher IDs

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Publons / Web Of Science ResearcherID: E-5976-2018

Yoksis Researcher ID: 263800

Biography

Dr. Dogan Kaya is an Assistant Professor at the Department of Physics at Cukurova University in Adana, Turkey.

Dr. Kaya obtained his both B.S. degrees in Physics (*first rank*) and in Mathematics from Cukurova University in Adana, Turkey in 2007, and his M.Sc. degree from the Department of Physics at Texas A&M University, Texas, USA in 2012. The master project was mainly about magnetic nanomaterials for magnetoresistive sensor technology. He moved to the United Kingdom for studying in Nanoscale Physics Research Laboratory (NPRL) at the University of Birmingham and obtained his Ph.D. degree in 2016 under the supervision of Prof. Richard E. Palmer and Assoc. Dr. Quanmin Guo. His doctoral work was high-resolution atomic and molecular imaging and manipulation of individual molecules using ultra-high vacuum Scanning Tunneling Microscopy. After Ph.D., he continued his research in NPRL as a Postdoc. and worked on self-assembled monolayers on Au(111) surface and Fullerene molecules on Graphene surface.

Currently, he works on nanoparticles and their application in magnetic media and catalysis.

Education Information

Doctorate, The University of Birmingham, College Of Engineering And Physical Sciences, Department Of Physics And Astronomy, United Kingdom 2012 - 2016

Postgraduate, Texas A&M University, College Of Science, Department Of Physics And Astronomy, United States Of America 2010 - 2012

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Matematik, Turkey 2004 - 2007

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, Turkey 2003 - 2007

Associate Degree, Mersin University, Mersin Vocational School, Elektrik, Turkey 1999 - 2002

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Education Management and Planning, English Language School, The University of Texas Arlington, 2010

Education Management and Planning, Dil Kursu, Hacettepe Üniversitesi, 2009

Dissertations

Doctorate, Manipulation of Molecules on Surfaces with the Scanning Tunnelling Microscope, The University of Birmingham, College Of Science And Engineering, Department Of Physics And Astronomy, 2016

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Magnetic Properties and Materials, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2022 - Continues
Assistant Professor, Cukurova University, Adana Meslek Yüksek Okulu, Elektronik ve Otomasyon, 2018 - 2022
Research Assistant PhD, Sakarya University, Faculty Of Arts And Sciences, Fizik, 2017 - 2018
Assistant Professor, Cukurova University, Adana Meslek Yüksek Okulu, Elektronik ve Otomasyon, 2017 - 2018
Other, University of Birmingham, College Of Engineering And Physical Sciences, Department Of Physics And Astronomy, 2016 - 2016

Academic and Administrative Experience

Head of Department, Cukurova University, Fen Bilimleri Enstitüsü, Advanced Materials and Nanotechnology, 2024 - Continues
Assistant Manager of Research and Application Center, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2023 - Continues
Erasmus Program Institutional Coordinator, Cukurova University, Adana Meslek Yüksek Okulu, 2018 - 2022
Farabi Program Institutional Coordinator, Cukurova University, Adana Meslek Yüksek Okulu, 2018 - 2022
Mevlana Exchange Program Institutional Coordinator, Cukurova University, Adana Meslek Yüksek Okulu, 2018 - 2022
Head of Department, Cukurova University, Adana Meslek Yüksek Okulu, Elektronik Ve Otomasyon, 2018 - 2022
Sakarya University, Fen-Edebiyat Fakültesi, Fizik, 2017 - 2018

Courses

Nanoteknoloji Dnyasi, Undergraduate, 2023 - 2024
Mesleki İngilizce , Undergraduate, 2023 - 2024
Differential Equations, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Optical properties of NiO films: Effect of nitrogen-doping, substrate temperature and band gap estimation using machine learning**
KAYA D., Hopoğlu H., Çelik A., Akyol M., KARADAĞ F., ŞENADIM TÜZEMEN E., EKİCİBİL A.
Materials Science and Engineering: B, vol.307, 2024 (SCI-Expanded)
- II. **Enhanced photocatalytic activity in AgCu-decorated ZnO nanoparticles under UV and sunlight**
Noua A. E., KAYA D., SİĞIRCIK G., TÜKEN T., KARADAĞ F., EKİCİBİL A.
Journal of Materials Science: Materials in Electronics, vol.35, no.18, 2024 (SCI-Expanded)

- III. **One-pot synthesis of multifunctional ternary PtCuNi alloys: Magnetic properties and efficient hydrogen evolution reaction in alkaline media**
Baldan Işık I., Kaya D., Ekicibil A., Karadağ F.
ELECTROCHIMICA ACTA, vol.477, pp.143794, 2024 (SCI-Expanded)
- IV. **Bifunctional bimetallic PtNi, PtCu, and NiCu nanoparticles: Electrocatalytic activities for hydrogen evolution reaction and magnetic properties**
Baldan Işık I., Kaya D., Işık H. H., Ekicibil A., Karadağ F.
Materials Science and Engineering: B , vol.300, pp.117081, 2024 (SCI-Expanded)
- V. **Comprehensive investigation of Ni-rich PtNi alloy nanoparticles: structural, magnetic, and catalytic properties for efficient alkaline water electrolysis**
Noua A. E., KAYA D., KARADAĞ F., EKİCİBİL A.
Journal of Nanoparticle Research, vol.26, no.1, 2024 (SCI-Expanded)
- VI. **Highly active bimetallic Pt-Cu nanoparticles for the electrocatalysis of hydrogen evolution reactions: Experimental and theoretical insight**
KAYA D., Demiroglu I., Isik I., Isik H., Çetin S., Sevik C., EKİCİBİL A., KARADAĞ F.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.48, no.95, pp.37209-37223, 2023 (SCI-Expanded)
- VII. **Investigating the optical, electronic, magnetic properties and DFT of NiO films prepared using RF sputtering with various argon pressures**
Hopoglu H., KAYA D., Maslov M., Kaya S., Demir L., Altuntas I., Ungan F., AKYOL M., EKİCİBİL A., Tüzemen E.
PHYSICA B-CONDENSED MATTER, vol.661, 2023 (SCI-Expanded)
- VIII. **Electrocatalytic hydrogen evolution on metallic and bimetallic Pd-Co alloy nanoparticles**
Kaya D., Isik H. H., Isik İ., Sigircik G., Tuken T., Karadag F., Ekicibil A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.2, no.3, pp.1-2, 2023 (SCI-Expanded)
- IX. **Preparation of TiO₂/VO_x, TiO₂/SiO₂, and VO_x/SiO₂ nanostructures by hydrothermal methods and determination of their magnetic properties**
Mohammad Hasham M. T., Ay B., Kaya D., Yıldız E., Ekicibil A.
NEW JOURNAL OF CHEMISTRY, vol.47, no.7, pp.3312-3320, 2023 (SCI-Expanded)
- X. **Pressure effect on the structural, magnetic and thermophysical properties of X12Cr13 martensitic stainless steel prepared by powder metallurgy method**
Acar A. N., Kaya D., Ekşi A. K., Ekicibil A.
MATERIALS TODAY COMMUNICATIONS, vol.33, pp.104924-104935, 2022 (SCI-Expanded)
- XI. **Synthesis and characterization of bifunctional Ru doped La-based perovskites for magnetic refrigeration and energy storage systems**
Kılıç Çetin S., Akça G., Kaya D., Ayaş A. O., Ekicibil A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.1, pp.1-11, 2022 (SCI-Expanded)
- XII. **Magnetic and optical properties of ZnO/Ni/ZnO multilayer film on Si(100) and sapphire substrates**
Kaya D., Akyol M., Şenadim Tüzemen E., Ekicibil A.
OPTİK, vol.266, pp.169595-169605, 2022 (SCI-Expanded)
- XIII. **Impact of Li concentration in KMgF₃:Eu,Yb fluoroperovskite on structure and luminescence properties**
Güçkan V., Kaya D., Altunal V., Ekicibil A., Karadağ F., Özdemir A., Yeğingil Z.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.902, pp.163810, 2022 (SCI-Expanded)
- XIV. **Energy storage performance of LiV₃O₈/water-in-salt electrolyte/LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ cell for aqueous lithium-ion batteries**
Kunduracı M., Kılıç Çetin S., Çağlayan U., Mutlu R., Kaya D., Ekicibil A.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.908, pp.116118, 2022 (SCI-Expanded)
- XV. **Magnetically separable low Pt substituted Co nanoparticles: Investigation of structural, magnetic, and catalytic properties**
Kaya D., Işık H. H., Baldan Işık İ., Adanur İ., Wang Y., Akyol M., Karadağ F., Ekicibil A.
PHYSICA B-CONDENSED MATTER, vol.632, no.413765, pp.413765-413770, 2022 (SCI-Expanded)
- XVI. **Synthesis and structural characterization of binary PtNi alloy nanoparticles: investigating magnetic**

transition

Kaya D.

Journal Of Materials Science-Materials In Electronics, vol.32, pp.27975-27986, 2021 (SCI-Expanded)

- XVII. Investigation of optical, electronic, and magnetic properties of p-type NiO thin film on different substrates**
KAYA D., AYDINOĞLU H. S., ŞENADIM TÜZEMEN E., EKİCİBİL A.
THIN SOLID FILMS, vol.732, 2021 (SCI-Expanded)
- XVIII. YBCO superconductor added with one-dimensional TiO₂ nanostructures: Frequency dependencies of AC susceptibility, FC-ZFC magnetization, and pseudo-gap studies**
Hannachi E., Slimani Y., Okasha A. T., Yasin G., Iqbal M., Shariq M., Kaya D., Azzouz F. B., Ekicibil A.
Journal Of Alloys And Compounds, vol.883, no.25, pp.160887-160895, 2021 (SCI-Expanded)
- XIX. Investigation of Magnetic Anisotropy in the Ni-Ge and Ni(NiO)-Ge Thin Films**
KAYA D., Akyol M., Wang Y., Guo Q., KARADAĞ F., EKİCİBİL A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1230, 2021 (SCI-Expanded)
- XX. Self-build of C₆₀-C₇₀ Molecular Heterojunctions on Highly Oriented Pyrolytic Graphite**
Guo L., Wang Y., Kaya D., Wang Z., Zhang M., Guo Q.
Applied Surface Science, vol.538, no.20, pp.148142-148152, 2021 (SCI-Expanded)
- XXI. Fe Addition Influence on the Mechanical and Thermophysical Behaviours of PM Alumix 431 Allo**
Acar A. N., Mutlu R. N., Kaya D., Ekşi A. K., Ekicibil A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1, no.1, pp.130031-130045, 2021 (SCI-Expanded)
- XXII. Synthesis of monodisperse CoPt nanoparticles: Structural and magnetic properties**
KAYA D., Adanur I., Akyol M., KARADAĞ F., EKİCİBİL A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1224, 2021 (SCI-Expanded)
- XXIII. Absence of Nonlocal Manipulation of Oxygen Atoms Inserted below the Si(111)-7x7 Surface**
Cobley R. J., KAYA D., Palmer R. E.
LANGMUIR, vol.36, no.27, pp.8027-8031, 2020 (SCI-Expanded)
- XXIV. Properties of fly ash-based lightweight geopolymer concrete prepared using pumice and expanded perlite as aggregates**
Top S., Vapur H., Altner M., Kaya D., Ekicibil A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1202, 2020 (SCI-Expanded)
- XXV. Combining scanning tunneling microscope (STM) imaging and local manipulation to probe the high dose oxidation structure of the Si(111)-7x7 surface**
KAYA D., Cobley R. J., Palmer R. E.
NANO RESEARCH, vol.13, no.1, pp.145-150, 2020 (SCI-Expanded)
- XXVI. Self-Defined Transition State in Hybrid C-70-Au Clusters Created by the Scanning Tunneling Microscope Tip**
KAYA D., Wang Y., Akyol M., KARADAĞ F., EKİCİBİL A., Guo Q.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.123, no.45, pp.27945-27950, 2019 (SCI-Expanded)
- XXVII. Stick-Sudden-Rotation and Structural Polymorphism of (C-70)(m)-(Au)(n) Hybrid Nanoclusters**
Wang Y., KAYA D., GAO J., Guo Q.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.123, no.20, pp.12791-12796, 2019 (SCI-Expanded)
- XXVIII. The effect of electric field on a fullerene molecule on a metal surface by a nano STM tip**
KAYA D.
PHYSICA B-CONDENSED MATTER, vol.557, pp.126-131, 2019 (SCI-Expanded)
- XXIX. Orientational Epitaxy of van der Waals Molecular Heterostructures**
Guo L., Wang Y., KAYA D., Palmer R. E., Chen G., Guo Q.
NANO LETTERS, vol.18, no.8, pp.5257-5261, 2018 (SCI-Expanded)
- XXX. Controlled Manipulation of Magic Number Gold-Fullerene Clusters Using Scanning Tunneling Microscopy**
Kaya D., GAO J., Fard M. R., Palmer R. E., Guo Q.
LANGMUIR, vol.34, no.28, pp.8388-8392, 2018 (SCI-Expanded)

- XXXI. **Probing Phase Evolutions of Au-Methyl-Propyl-Thiolate Self-Assembled Monolayers on Au(111) at the Molecular Level**
GAO J., Lin H., Qin X., Zhang X., Ding H., Wang Y., Fard M. R., Kaya D., ZHU G., Li Q., et al.
JOURNAL OF PHYSICAL CHEMISTRY B, vol.122, no.25, pp.6666-6672, 2018 (SCI-Expanded)
- XXXII. **Tip-triggered Thermal Cascade Manipulation of Magic Number Gold-Fullerene Clusters in the Scanning Tunnelling Microscope**
Kaya D., BAO D., Palmer R. E., DU S., Guo Q.
NANO LETTERS, vol.17, no.10, pp.6171-6176, 2017 (SCI-Expanded)
- XXXIII. **Growth of Two -Dimensional C-60 Nanoclusters within a Propylthiolate Matrix**
GAO J., GAO J., YAN C., Fard M. R., Kaya D., ZHU G., Guo Q.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.120, no.44, pp.25481-25488, 2016 (SCI-Expanded)
- XXXIV. **Site-Specific Assembly of Fullerene Nanorings Guided by Two-Dimensional Gold Clusters**
Xie Y., Fard M. R., Kaya D., BAO D., Palmer R. E., DU S., Guo Q.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.120, no.20, pp.10975-10981, 2016 (SCI-Expanded)
- XXXV. **Controlling exchange bias in FeMn with Cu**
Kaya D., LAPA P. N., JAYATHILAKA P., KIRBY H., MILLER C. W., ROSHCIN I. V.
JOURNAL OF APPLIED PHYSICS, vol.113, no.17, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **The impact of glass powder on surface and morphological properties of Alumix 431 alloy**
Acar A. N., Kaya D., Ekşi A. K., Ekicibil A.
The International Journal of Materials and Engineering Technology, vol.7, no.1, pp.32-37, 2024 (Peer-Reviewed Journal)
- II. **Structural, Magnetic and Catalytic Properties of FeCo Nanoparticles Synthesized by Polyol Process**
KARADAĞ F., EKİCİBİL A., Tayfun E. C., Erman K., KAYA D.
Adıyaman Üniversitesi Fen Bilimleri Dergisi, vol.13, pp.74-88, 2023 (Peer-Reviewed Journal)
- III. **Scanning Tunnelling Microscopy: Beyond Imaging Surfaces, Atoms and Molecules**
KAYA D.
JOURNAL OF MATERIALS AND ELECTRONIC DEVICES, vol.1, no.1, pp.18-32, 2023 (Peer-Reviewed Journal)
- IV. **Structural and Surface Properties of Glass Powder Coated Cr Steels**
Acar A. N., Kaya D., Ekşi A. K., Ekicibil A.
The International Journal of Materials and Engineering Technology, vol.4, no.2, pp.109-116, 2021 (Peer-Reviewed Journal)
- V. **Structural analysis of pure PtCu₃ nanoparticles synthesized by modified Polyol process**
Kaya D.
Cumhuriyet Science Journal, vol.42, no.3, pp.586-592, 2021 (Peer-Reviewed Journal)
- VI. **Comparing Different Approaches to Form Cobalt Oxide Layer on CoPt Nanoparticles**
Kaya D., Adanur I., Akyol M., Karadağ F., Ekicibil A.
Adıyaman University Journal of Science, vol.10, no.1, pp.353-363, 2020 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Transport Properties of Superconducting Materials**
Ekicibil A., Karadağ F., Kiliç Çetin S., Ayaş A. O., Akça G., Akyol M., Kaya D.
in: Superconducting Materials, Yassine Slimani, Essia Hannachi, Editor, Springer, London/Berlin, Singapore, pp.29-60, 2022
- II. **Supported Two-dimensional Metal Clusters**
Guo Q., Kaya D.

Refereed Congress / Symposium Publications in Proceedings

- I. **The Impact of Glass Powder on Surface and Morphological Properties of Alumix 431 Alloy**
Acar A. N., Kaya D., Ekşi A. K., Ekicibil A.
The 5th International Conference of Materials and Engineering Technology (TICMET'23), Trabzon, Turkey, 13 - 16 November 2023, pp.345
- II. **Synthesis and Evaluation of Bimetallic Pt₆₂Ni₃₈ Electrocatalyst for Hydrogen Evolution Reaction**
Baldan Işık I., Kaya D., Işık H. H., Ekicibil A., Karadağ F.
6th International Conference on Physical Chemistry & Functional Materials, Adana, Turkey, 13 - 14 June 2023, no.27, pp.42
- III. **Effect of 10% Portland limestone cement powder on the morphological properties of X12Cr13 martensitic stainless steels**
Acar A. N., Kaya D., Ekşi A. K., Ekicibil A.
4th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2022), Ankara, Turkey, 14 - 16 December 2022, pp.570-574
- IV. **Hydrothermal Synthesis and Structure Properties of NiMnO₃ for Supercapacitors Electrode Material**
Koca D., Kaya D., Tüken T.
4TH INTERNATIONAL EURASIAN CONFERENCE ON SCIENCE, ENGINEERING AND TECHNOLOGY (EURASIANSCIENTECH), Ankara, Turkey, 14 - 16 December 2022, pp.149
- V. **INVESTIGATION OF BIMETALIC Pt₃₀Co₇₀ NANOPARTICLE FOR ELECTROCHEMICAL HYDROGEN EVOLUTION**
Baldan Işık I., Kaya D., Işık H. H., Ekicibil A., Karadağ F.
9th International Marmara Sciences Congress, Kocaeli, Turkey, 09 December 2022, pp.88-93
- VI. **THE STRUCTURAL ANALYSIS OF Pt₁₈Cu₈₂ ALLOY CATALYST FOR HYDROGEN EVOLUTION REACTION IN ALKALINE MEDIA**
IŞIK H. H., KAYA D., BALDAN IŞIK İ., KARADAĞ F., EKİCİBİL A.
9th International Marmara Sciences Congress, Kocaeli, Turkey, 09 December 2022, pp.12
- VII. **Surface and Structural Properties of Martensitic Stainless Steel –Glass Powder Composite Materials Prepared by Powder Metallurgy Method**
Acar A. N., Kaya D., Ekşi A. K., Ekicibil A.
The 4th International Conference of Materials and Engineering Technology (TICMET'22), İstanbul, Turkey, 8 - 10 September 2022, pp.99-103
- VIII. **INVESTIGATION OF HYDROGEN EVOLUTION REACTION WITH LOW-Pt LOADING IN PtCu ALLOY**
Baldan Işık İ., Işık H. H., Kaya D., Ekicibil A., Karadağ F.
IV. INTERNATIONAL CONFERENCE ON NATURAL SCIENCES AND TECHNOLOGIES (ICONAT-2022), Antalya, Turkey, 24 August 2022, pp.73
- IX. **ENHANCED HER PROCESS WITH ULTRA-SMALL Pt₂₅Au₇₅ ALLOY NANOPARTICLES**
Işık H. H., Baldan Işık İ., Kaya D., Karadağ F., Ekicibil A.
IV. INTERNATIONAL CONFERENCE ON NATURAL SCIENCES AND TECHNOLOGIES (ICONAT-2022), Antalya, Turkey, 24 August 2022, pp.72
- X. **THE CATALYTIC PROPERTIES OF TRIMETALIC Pt₃₅Cu₃₈Co₂₇ NANOPARTICLE**
Baldan Işık I., Işık H. H., Kaya D., Karadağ F., Ekicibil A.
8th INTERNATIONAL MARMARA SCIENCE AND SOCIAL CONGRESS, Kocaeli, Turkey, 14 - 16 May 2022, pp.53
- XI. **The Structural Properties Of Pt₂₀Cu₈₀ Catalyst For Hydrogen Evolution Reaction**
Işık H. H., Baldan Işık I., Kaya D., Karadağ F., Ekicibil A.
8th International Marmara Sciences Congress, Kocaeli, Turkey, 14 - 16 May 2022, pp.52
- XII. **Structural And Surface Properties Of Glass Powder Coated Cr Steels**

Acar A. N., Kaya D., Ekşi A. K., Ekicibil A.

The 3rd International Conference of Materials and Engineering Technology (TICMET'21), Gaziantep, Turkey, 5 - 06 November 2021, pp.252

- XIII. **Formation of p-Type NiO Thin Films on Different Substrates: Structural, Electrical, Optical, and Magnetic Properties**
Kaya D., Aydınoğlu H. S., Şenadım Tüzemen E., Ekicibil A.
International Conference on Oxide Materials for Electronic Engineering -fabrication, properties and applications, Lviv, Ukraine, 28 September - 02 October 2021, pp.38
- XIV. **Chemically Synthesized Binary Pd-Co Alloys: Structural and Magnetic Properties**
Kaya D., Adanur İ., Akyol M., Karadağ F., Ekicibil A.
International Conference on Oxide Materials for Electronic Engineering- fabrication, properties and applications, Lviv, Ukraine, 28 September - 02 October 2021, pp.27
- XV. **Magnetically Separable PtCo Alloys for Hydrogen Evolution Catalysis**
KAYA D.
8th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG-2021), Elazığ, Turkey, 14 - 16 July 2021, pp.55
- XVI. **Structure analysis of bimetallic Pt_{0.5}Cu_{0.5} nanoparticle synthesized by modified polyol method**
Işık H. H., Kaya D., Karadağ F., Ekicibil A.
8th International Conference on Materials Science and Nanotechnology for Next Generation (MSNG2021), Elazığ, Turkey, 14 - 16 July 2021, pp.88
- XVII. **'Structural Analysis of multifunctional Cu_{0.5}Co_{0.5} nanoparticles synthesised by polyol process**
Çetin F., Tayfun E., Işık H., Kaya D., Karadağ F., Ekicibil A.
8th International Conference on Materials Science and Nanotechnology for Next Generation (MSNG2021), Elazığ, Turkey, 14 - 16 July 2021, pp.77
- XVIII. **Structural and Electrical Properties of p-tye NiO Thin Films Produced by Thermal Evaporation on Different Substrates**
Aydınoğlu H., Kaya D., Şenadım Tüzemen E., Ekicibil A.
2 nd International Conference on Light and Light –based Technologies (ICLLT), Ankara, Turkey, 26 - 28 May 2021, pp.106
- XIX. **Structural and Magnetic Properties of PtPdCo Nanoparticles**
KAYA D.
14th International European Conference On Mathematics, Engineering, Natural & Medical Sciences, Győr, Hungary, 26 - 28 March 2021, pp.283
- XX. **Controlling Physical and Magnetic Properties of CoPt Nanoparticles**
Kaya D., Adanur İ., Akyol M., Karadağ F., Ekicibil A.
International Conference of Condensed Matter and Material Science , Adana, Turkey, 14 - 19 October 2019, pp.1
- XXI. **Magnetic Properties of NiGe/Au/C60 Thin Films at 5 K**
Kaya D., Akyol M., Wang Y., Guo Q., Karadağ F., Ekicibil A.
6th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019), Niğde, Turkey, 16 - 18 October 2019, pp.301-304
- XXII. **Magnetic Properties of Pt-doped Co nanoparticles at 20 K**
KAYA D., Adanur İ., Akyol M., KARADAĞ F., EKİCİBİL A.
International Conference on Condensed Matter and Materials Science, Adana, Turkey, 14 - 19 October 2019, pp.14-19
- XXIII. **Physical Properties of CoPt Magnetic Core-Shell Nanoparticles**
KAYA D., Adanur İ., Akyol M., KARADAĞ F., EKİCİBİL A.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Turkey, 25 - 27 April 2019, pp.1
- XXIV. **Beyond Imaging Surfaces and Molecules with Scanning Tunneling Microscopy**
KAYA D.
Bilkent Üniversitesi Kimya Sermineri, Ankara, Turkey, 18 December 2018

XXV. Au₃₅ Nano clusters and fullerene molecules on graphene surface using Scanning Tunneling Microscopy

KAYA D., Guo L., Palmer R. E., Guo Q.

13th Nanoscience and Nanotechnology Conference, Antalya, Turkey, 22 - 25 October 2017

XXVI. The Effect of STM tip on the Hybrid (C₆₀)_n-(Au)_m Clusters: Electric Field

KAYA D., Fard M. R., Palmer R. E., Guo Q.

International Conference on Condensed Matter and Materials Science (ICCMMS-2017), Adana, Turkey, 11 - 15 October 2017

XXVII. Controlling Nanoscale Fullerene-Gold Clusters with Scanning Tunneling Microscopy

KAYA D.

1. International Conference on Materials Science and Nanotechnology for Next Generation (MSNG-2017), Sarajevo, Bosnia And Herzegovina, 28 - 30 June 2017

Supported Projects

ALTUNAL V., KARADAĞ F., EKİCİBİL A., KAYA D., Project Supported by Higher Education Institutions, Perovskit Tabanlı Lüminesans Yayan Fonksiyonel Malzemelerin Geliştirilmesi, 2023 - Continues

KAYA D., Tayfun E. C., Project Supported by Higher Education Institutions, PtAu Nanoparçacıkların Ferromanyetik Geçiş Elementleri ile Katkılanması ve Yapısal ve Manyetik Özelliklerinin Araştırılması, 2023 - Continues

KAYA D., AYDIN İ., AKYOL M., Tayfun E. C., Project Supported by Higher Education Institutions, Hidrojen Yakıt Teknolojisi için Geri Dönüştürülebilir Çok Fonksiyonlu (Pt_{0,75}Au_{0,25})_xM_{1-x} (M: Fe, Co ve Ni) Nanoyapıların Katalitik ve Manyetik Özelliklerinin Geliştirilmesi, 2023 - Continues

Acar A. N., Kaya D., Ekşi A. K., Ekicibil A., Project Supported by Higher Education Institutions, Paslanmaz çelik çimento-cam tozu kompozit malzeme üretimi ve yapısal fiziksel ve mekaniksel özelliklerinin incelenmesi, 2021 - 2023

KAYA D., EKİCİBİL A., KARADAĞ F., Adanur İ., Baldan IŞIK İ., IŞIK H. H., Project Supported by Higher Education Institutions, Modifiye Edilmiş Polyol Yöntemi ile Çok Fonksiyonlu CoPtCu Çekirdek-Kabuk Nanoparçacık Üretimi, Yapısal ve Katalitik Özelliklerinin İncelenmesi, 2021 - 2023

Kaya D., Karadağ F., Ekicibil A., Baldan Işık İ., Işık H. H., Project Supported by Higher Education Institutions, Modifiye Edilmiş Polyol Yöntemi ile Çok Fonksiyonlu Co-PtCu Çekirdek-Kabuk Nanoparçacık Üretimi, Yapısal ve Katalitik Özelliklerinin İncelenmesi, 2021 - 2022

Karadağ F., Ayaş A. O., Ekicibil A., Işık H. H., Akyol M., Kılıç Çetin S., Kaya D., BALDAN IŞIK İ., Project Supported by Higher Education Institutions, Cu Katkılı Pt Nanoparçacıkların Katalitik Özelliklerinin İncelenmesi ve Elektronik Özelliklerinin Yoğunluk Fonksiyonel Teorisi Density Functional Theory Yöntemi ile Araştırılması, 2021 - 2022

Ekicibil A., Karadağ F., Kaya D., Ayaş A. O., Baldan Işık İ., Işık H. H., Project Supported by Higher Education Institutions, PtAu Nanoparçacıkların Manyetik ve Katalitik Özelliklerinin İncelenmesi, 2020 - 2022

Ekicibil A., Kaya D., Karadağ F., Akyol M., Ayaş A. O., Project Supported by Higher Education Institutions, PtAu Nanoparçacıkların Manyetik ve Katalitik Özelliklerinin Araştırılması, 2020 - 2022

Karadağ F., Ekicibil A., Kaya D., Akyol M., Project Supported by Higher Education Institutions, Manyetik ince filmlerin manyeto-optik özelliklerinin geliştirilmesi, 2020 - 2022

Kaya D., Ekicibil A., Altunal V., Yeğingil Z., NATO Supported Research Project, Determination of exposed dose and radioactive source identity in radiological emergency, 2019 - 2022

KAYA D., EKİCİBİL A., KARADAĞ F., AKYOL M., Adanur İ., Project Supported by Higher Education Institutions, Co Nano Yapıların Pd ile Katkılanıp Yapısal ve Manyetik Özelliklerinin İncelenmesi, 2019 - 2021

KAYA D., AKYOL M., Adanur İ., KARADAĞ F., EKİCİBİL A., Project Supported by Higher Education Institutions, CoPtCoOx ÇekirdekKabuk Nano Yapıların Manyetik Özelliklerinin İncelenmesi, 2018 - 2019

KAYA D., Project Supported by Higher Education Institutions, Taramalı tünellemeli mikroskop ile 2 boyutlu Fulleren nanoyapıların araştırılması, 2018 - 2018

Metrics

Publication: 71

Citation (WoS): 95

Citation (Scopus): 109

H-Index (WoS): 5

H-Index (Scopus): 5

Congress and Symposium Activities

24. Yoğun Madde Fiziği Toplantısı, Invited Speaker, Ankara, Turkey, 2018

Bilkent Kimya Bölümü Seminerleri, Invited Speaker, Ankara, Turkey, 2018

The Effect of STM tip on the Hybrid (C60)_n-(Au)_m Clusters: Electric Field, Attendee, Adana, Turkey, 2017

Au₃₅ Nano clusters and fullerene molecules on graphene surface using Scanning Tunneling Microscopy, Attendee, Antalya, Turkey, 2017

International Conference on Materials Science and Nanotechnology for Next Generation (MSNG-2017), Invited Speaker, Sarajevo, Bosnia And Herzegovina, 2017

Electron induced manipulation using Scanning Tunneling Microscopy: Oxygen and Chlorobenzene Molecules on the Si(111)-7x7 Surface, Attendee, Sarajevo, Bosnia And Herzegovina, 2017

International Conference on Materials Science and Nanotechnology for Next Generation (MSNG-2017), Session Moderator, Sarajevo, Bosnia And Herzegovina, 2017

3th International Nanoscience and Nanotechnology for next Generation, Invited Speaker, Antalya, Turkey, 2016

3. International of Advanced and Functional Material Technologies (AFMAT-2016), Session Moderator, Antalya, Turkey, 2016

3th International Nanoscience and Nanotechnology for next Generation, Session Moderator, Antalya, Turkey, 2016

International of Advanced and Functional Material Technologies (AFMAT-2016), Invited Speaker, Antalya, Turkey, 2016

The Manipulation of Oxygen and Chlorobenzene Molecules on the Si(111)-7x7 Surface with Scanning Tunneling Microscopy, Attendee, İzmir, Turkey, 2016

Cascade Manipulation of Hybrid (C60)_m-(Au)_n Clusters with STM Tip, Attendee, Nottingham, United Kingdom, 2015

Cascade Manipulation of Hybrid (C60)_m-(Au)_n Clusters with STM Tip, Attendee, Birmingham, United Kingdom, 2015

Formation, Size Distribution and Temperature Dependence of Novel, Hybrid (C60)_m?(Au)_n clusters on the Au(111) surface, Attendee, Genoa, Italy, 2015

Site-Selected Manipulation of Magic Number (C60)_m?(Au)_n clusters on Au(111), Attendee, Genoa, Italy, 2015

Size distribution and temperature dependence of (C60)_m-(Au)_n clusters on Au(111) surface studied with VT-STM, Attendee, Birmingham, United Kingdom, 2015

Suppression of Atomic Manipulation in the STM by the STM Tip, Attendee, Coventry, United Kingdom, 2014

Non-local Manipulation of Chlorobenzene Molecule on the Si(111)-7x7 Surface with STM: Tip Suppression of Desorption, Attendee, Birmingham, United Kingdom, 2013

Tip Suppression of Non-local Desorption for Chlorobenzene on Si(111)-7x7 with the STM, Attendee, Paris, France, 2013

Nonlocal Desorption of Chlorobenzene on Si(111)-7x7 in the STM, Attendee, Birmingham, United Kingdom, 2013

Thermally-Assisted Electron-Induced Nonlocal Desorption in the STM, Attendee, Nottingham, United Kingdom, 2013

Effect of Cu Layer on Exchange Bias in FeMn, Attendee, Texas, United States Of America, 2012

Effect of Cu Layer on Exchange Bias in FeMn, Attendee, Massachusetts, United States Of America, 2012

Effect of Cu Layer on FeMn Magnetic Properties, Attendee, Texas, United States Of America, 2011

MgB₂ Fiziksel Özelliklerinin Arastirilmesi, Attendee, Muğla, Turkey, 2008

Scholarships

YURT DIŞINA LİSANSÜSTÜ ÖĞRENİM GÖRME, Ministry of Education, 2009 - Continues

2211 - Yurt İçi Lisansüstü Burs Programı, TÜBİTAK, 2008 - Continues

Yüksek Lisans Bursu, Foundation, 2007 - Continues

Lisans Bursu, Foundation, 2006 - Continues

Awards

KAYA D., Moreton Travel Award, University of Birmingham, December 2015

KAYA D., Moreton Travel Award, University of Birmingham, September 2014

KAYA D., Moreton Travel Award, University of Birmingham, September 2013

KAYA D., Conference Travel Award, Texas A&M University, March 2012

KAYA D., Conference Travel Award, Texas A&M University, January 2011

KAYA D., Bölüm Birincisi, Çukurova Üniversitesi Fizik Bölümü, June 2007

Non Academic Experience

Nanoscale Physics Research Lab at University of Birmingham