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International Researcher IDs

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Publons / Web Of Science ResearcherID: D-2095-2015

ScopusID: 55638090200

Yoksis Researcher ID: 27907

Learning Knowledge

Doctorate 2014 - 2017	Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), Turkey
Postgraduate 2011 - 2014	Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (YI) (Tezli), Turkey
Undergraduate 2007 - 2011	Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Fabrication, development and industrial applications of flame retardant polymeric nanocomposite materials for battery systems, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), 2017

Postgraduate, Production of carbon based conductive nanocomposite coatings and investigation of their potential applications, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (YI) (Tezli), 2014

Academic Titles / Tasks

Associate Professor 2020 - Continues	Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü
Assistant Professor 2018 - 2020	Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü

Lecturer
2013 - 2018

Dokuz Eylul University, Rektörlük, Elektronik Malzemeler Üretimi ve Uygulama
Merkezi

Research Assistant
2012 - 2013

Afyon Kocatepe University, Teknoloji Fakültesi, Metalurji Ve Malzeme
Mühendisliği Bölümü

Supported Projects

1. Yurddaşkal M., Korkmaz M., Project Supported by Higher Education Institutions, Nanomalzeme katkılı epoksi kompozitlerin kendi kendini onarma, elektromanyetik ve mekanik özelliklerinin geliştirilmesi, 2024 - 2026
2. Yurddaşkal M., Erol M., Akalın S. A., Öztürk Y., TUBITAK Project, Gelişmiş Spektral Duyarlılık için ZnO/Si Ultraviyole Fotodedektör Geliştirilmesi, 2024 - 2026
3. Yurddaşkal M., TUBITAK Project, TiO₂ Matrisli Kompozitlerde Grafen Takviyesinin Fotokatalitik Özelliklere Etkisinin Araştırılması, 2024 - 2025
4. Yurddaşkal M., Yılmaz T., Bozathı S. B., Karabaş E., Project Supported by Higher Education Institutions, Çinko Oksit Katkılı Biyobozunur Film Üretimi ve Fotokatalitik/Antimikrobiyal Özelliklerinin İncelenmesi, 2022 - 2023
5. Yurddaşkal M., Karataş T., KOSGEB, Güneş Panellerindeki Kirlenmeyi Azaltarak Enerji Verimliliği Sağlayan Kirlenmeyi Geciktirici, Anti-reflektif ve Fotokatalitik Yüzey Kaplama Malzemesinin Geliştirilmesi ve Uygulanması, 2022 - 2023
6. Yurddaşkal M., Erol M., Yılmaz O., Project Supported by Higher Education Institutions, Kızılötesi ve morötesi ışınları engelleyen ince film kaplamaların geliştirilmesi, 2021 - 2023
7. Yurddaşkal M., Kartal U., Technopark, Endüstriyel Uygulamalar İçin İndirgenmiş Grafen Oksit Üretimi, 2021 - 2023
8. Yurddaşkal M., Erol M., Project Supported by Higher Education Institutions, Elektrokimyasal anotlama yöntemiyle Cam/ITO/ZnO nanoyapıların büyütülmesi ve biyosensör uygulamaları, 2019 - 2022
9. Yurddaşkal M., Doluel E. C., TUBITAK Project, Graphenexpress:Yüksek Kaliteli Grafen Üretimi, 2020 - 2021
10. Yurddaşkal M., TUBITAK Project, Farklı yöntemlerle grafen üretimi ve özelliklerinin incelenmesi, 2018 - 2019
11. Yurddaşkal M., Yıldırım S., Ertuğrul Uygun H. D., Uygun Z. O., TUBITAK Project, KANDA VEYA DİĞER SIVILARDA ŞEKER ÖLÇÜMÜ İÇİN KİŞİSEL KULLANIMA UYGUN YAPAY POLİMERİK TEST STRİPLERİ GELİŞTİRİLMESİ, 2016 - 2017
12. Yurddaşkal M., Yıldırım S., Çelik E., Industrial Thesis Project, Akümülatör sisteminde kullanılan polipropilen bileşenlerinin yanmaya karşı dirençli polimerik nanokompozit malzemelerden üretilmesi geliştirilmesi ve endüstriyel uygulaması, 2013 - 2015
13. Yurddaşkal M., Çelik E., Toparlı M., TÜBİTAK International Multi-Cooperation Project, Reliability and durability of Machines and Mechanisms used for Oil and Gas transportation in Black Sea Region, 2011 - 2014
14. Yurddaşkal M., Çelik E., Project Supported by Higher Education Institutions, Karbon içerikli iletken polimer nanokompozit kaplamaların üretimi ve potansiyel uygulamalarının araştırılması, 2012 - 2013

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Enhanced properties of TiO₂ nanotubes through α -Fe₂O₃ surface decoration: Synthesis, characterization, and performance evaluation**
Doluel E. C., Kartal U., Uzunbayır B., Erol M., Yurddaşkal M., Pulat G., Yavaş A., Güler S.
CERAMICS INTERNATIONAL, vol.24, no.8, pp.1-20, 2024 (SCI-Expanded)
2. **Effects of annealing on the structural and magnetic properties of flame spray pyrolyzed MnFe₂O₄ nanoparticles**
Ozdemir E. T., Yıldırım S., Ozler B., Dikici T., Erol M., Yurddaskal M.

INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, vol.20, no.6, pp.3775-3785, 2023 (SCI-Expanded)

3. **The Effect of Geometrical Characteristics of TiO₂ Nanotube Arrays on the Photocatalytic Degradation of Organic Pollutants**
Kartal U., Uzunbayir B., DOLUEL E. C., YURDDAŞKAL M., EROL M.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, 2023 (SCI-Expanded)
4. **Preparation and photocatalytic performances of ZnO nanostructures: Effects of anodization voltage and time**
Oksuz A. E., Yurddaşkal M., Doluel E. C., Kartal U., Dikici T.
SURFACE AND INTERFACE ANALYSIS, vol.55, no.3, pp.192-200, 2023 (SCI-Expanded)
5. **Production of Zn-doped TiO₂ film with enhanced photocatalytic activity**
Dikici T., Yılmaz O., Akalın A., Demirci S., Gültekin S., Yıldırım S., Yurddaşkal M.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.58, pp.1415-1421, 2022 (SCI-Expanded)
6. **ZnO nanostructures for photocatalytic degradation of methylene blue: Effect of different anodization parameters**
Oksuz A. E., Yurddaskal M., Kartal U., Dikici T., Erol M.
JOURNAL OF THE KOREAN CERAMIC SOCIETY, vol.59, pp.859-868, 2022 (SCI-Expanded)
7. **A comparative study on structural, morphological and photocatalytic properties of anodically grown ZnO nanowires under varying parameters**
Ozdemir E. T., Kartal U., DİKİCİ T., EROL M., YURDDAŞKAL M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.23, pp.27398-27408, 2021 (SCI-Expanded)
8. **Investigation of graphene-based Schottky junction solar cell with heavy-doped silicon**
Jehad A. K., Yurddaşkal M., Güneş F., Zafer C., Kocabaş K.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.24, pp.28856-28869, 2021 (SCI-Expanded)
9. **Energy harvesting nanogenerators: Electrospun beta-PVDF nanofibers accompanying ZnO NPs and ZnO@Ag NPs**
ZEYREK ONGUN M., OĞUZLAR S., Kartal U., YURDDAŞKAL M., CİHANBEĞENDİ Ö.
SOLID STATE SCIENCES, vol.122, 2021 (SCI-Expanded)
10. **Photocatalytic activity of the thermally oxidized Zn-Ni-, Zn-Co-, Ni-Co-, and Zn-Ni-Co-coated alloy films**
DEMİRCİ S., DİKİCİ T., YURDDAŞKAL M.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.57, no.5, pp.1531-1539, 2021 (SCI-Expanded)
11. **Effects of Graphene Oxide Doping on Magnetic and Structural Properties of Bi_{1.6}Pb_{0.4}Sr₂Ca₂Cu₃O_y Superconductor**
BİLGİLİ Ö., YURDDAŞKAL M.
JOURNAL OF ELECTRONIC MATERIALS, vol.50, no.8, pp.4999-5006, 2021 (SCI-Expanded)
12. **Development of alpha-Fe₂O₃/TiO₂ 3D hierarchical nanostructured photocatalysts through electrochemical anodization and sol-gel methods**
Uzunbayir B., Kartal U., DOLUEL E. C., YURDDAŞKAL M., EROL M.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.96, no.2, pp.441-451, 2020 (SCI-Expanded)
13. **Effect of Ag Content on Photocatalytic Activity of Ag@TiO₂/rGO Hybrid Photocatalysts**
DOLUEL E. C., Kartal U., DİKİCİ T., YURDDAŞKAL M.
JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.6, pp.3849-3859, 2020 (SCI-Expanded)
14. **A comparative study for producing few-layer graphene sheets via electrochemical and microwave-assisted exfoliation from graphite powder**
Jehad A. K., KOCABAŞ K., YURDDAŞKAL M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.9, pp.7022-7034, 2020 (SCI-Expanded)
15. **Enhancement of piezoelectric energy-harvesting capacity of electrospun beta-PVDF nanogenerators**

by adding GO and rGO

ZEYREK ONGUN M., OĞUZLAR S., DOLUEL E. C., Kartal U., YURDDAŞKAL M.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.3, pp.1960-1968, 2020 (SCI-Expanded)

16. **Formation of Micro- and Nanostructured TiO₂ Films by Anodic Oxidation for Enhanced Photocatalytic Activities**
Yurddaşkal M.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.29, no.6, pp.2214-2225, 2019 (SCI-Expanded)
17. **Wear performance of Fe-Cr-C-B hardfacing coatings: Dry sand/rubber wheel test and ball-on-disc test**
Durmuş H., Comez N., Gül C., Yurddaşkal M., Yurddaşkal M.
INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS, vol.77, pp.37-43, 2018 (SCI-Expanded)
18. **Graphene and carbon black filled conductive nanocomposite films for heating element applications**
YURDDAŞKAL M., DOLUEL E. C., Kartal U., Koksalar A., Celik E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.22, pp.19005-19012, 2018 (SCI-Expanded)
19. **Influence of growth parameters on the properties of TiO₂ films prepared by anodic spark oxidation method and photocatalytic degradation of methylene blue**
Dikici T., Yurddaşkal M., Yıldırım S., Celik E.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.54, no.3, pp.451-458, 2018 (SCI-Expanded)
20. **Quenching and tempering of 51CrV4 (SAE-AISI 6150) steel via medium and low frequency induction**
Çivi C., Yurddaşkal M., Atik E., Celik E.
MATERIALS TESTING, vol.60, no.6, pp.614-618, 2018 (SCI-Expanded)
21. **Fabrication and characterization of novel iodine doped hollow and mesoporous hematite (Fe₂O₃) particles derived from sol-gel method and their photocatalytic performances**
Demirci S., Yurddaşkal M., Dikici T., Sanoglu C.
JOURNAL OF HAZARDOUS MATERIALS, vol.345, pp.27-37, 2018 (SCI-Expanded)
22. **Synergetic effect of antimony trioxide on the flame retardant and mechanical properties of polymer composites for consumer electronics applications**
Yurddaşkal M., Nil M., Öztürk Y., Celik E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.6, pp.4557-4563, 2018 (SCI-Expanded)
23. **Effect of halogen-free nanoparticles on the mechanical, structural, thermal and flame retardant properties of polymer matrix composite**
Yurddaşkal M., Celik E.
COMPOSITE STRUCTURES, vol.183, pp.381-388, 2018 (SCI-Expanded)
24. **The effects of growth conditions on the surface properties and photocatalytic activities of anatase TiO₂ films prepared via electrochemical anodizing and annealing methods**
Dikici T., Yurddaşkal M., Demirci S., Celik E.
JOURNAL OF POROUS MATERIALS, vol.24, no.6, pp.1535-1544, 2017 (SCI-Expanded)
25. **Production, characterization and optimization of thermoelectric module and investigation of doping effects on thermoelectric performances**
Baday C., Yurddaşkal M., Özgül M., Zor M., Celik E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.23, pp.17468-17481, 2017 (SCI-Expanded)
26. **Sol-gel synthesis, characterization, and photoluminescence properties of sub-micron Gd₂O₂S_{0.4} powders**
Aritman İ., Yıldırım S., Ebeoğlugil M. F., Yurddaşkal M., Ertekin K., Celik E.
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.53, no.2, pp.457-463, 2017 (SCI-Expanded)

27. **Carbon black and graphite filled conducting nanocomposite films for temperature sensor applications**
Yurddaşkal M., Erol M., Celik E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.13, pp.9514-9518, 2017 (SCI-Expanded)
28. **Synthesis and Characterization of Gd₂O₃.Pr₃+ Scintillation Material Produced by Sol-Gel Process for Digital Imaging System**
Aritman I., Yıldırım S., Kisa A., Guleryuz L. F., Yurddaşkal M., Dikici T., Celik E.
ACTA PHYSICA POLONICA A, vol.131, no.1, pp.106-108, 2017 (SCI-Expanded)
29. **Synthesis and characterization of Ag doped TiO₂ heterojunction films and their photocatalytic performances**
Demirci S., Dikici T., Yurddaşkal M., Gultekin S., Toparli M., Celik E.
APPLIED SURFACE SCIENCE, vol.390, pp.591-601, 2016 (SCI-Expanded)
30. **Effect of annealing temperature on the surface properties and photocatalytic efficiencies of Cu₂O/CuO structures obtained by thermal oxidation of Cu layer on titanium substrates**
Yurddaşkal M., Dikici T., Celik E.
CERAMICS INTERNATIONAL, vol.42, no.15, pp.17749-17753, 2016 (SCI-Expanded)
31. **Structural and luminescence properties of undoped, Nd³⁺ and Er³⁺ doped TiO₂ nanoparticles synthesized by flame spray pyrolysis method**
Yıldırım S., Yurddaşkal M., Dikici T., Aritman İ., Ertekin K., Celik E.
CERAMICS INTERNATIONAL, vol.42, no.9, pp.10579-10586, 2016 (SCI-Expanded)
32. **Fabrication and characterization of nanostructured anatase TiO₂ films prepared by electrochemical anodization and their photocatalytic properties**
Yurddaşkal M., Dikici T., Yıldırım S., Yurddaşkal M., Toparli M., Celik E.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.651, pp.59-71, 2015 (SCI-Expanded)
33. **A comparative study on the photocatalytic activities of microporous and nanoporous TiO₂ layers prepared by electrochemical anodization**
Dikici T., Yıldırım S., Yurddaşkal M., Erol M., Yigit R., Toparli M., Celik E.
SURFACE & COATINGS TECHNOLOGY, vol.263, pp.1-7, 2015 (SCI-Expanded)
34. **A Comparison on Physical, Structural, and Photocatalytical Properties of TiO₂ Nanopowders Produced Using Sol-Gel and Flame Spray Pyrolysis**
Erol M., Sancakoğlu O., Yurddaşkal M., Yıldırım S., Celik E.
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, vol.10, no.6, pp.931-938, 2013 (SCI-Expanded)

Articles Published in Other Journals

1. **Electrodeposited ZnO Nanostructures on ITO Surfaces: Exploring Their Efficacy for Cholesterol Biosensing Applications**
Erol M., Aykaç A., Dikici T., Yurddaşkal M., Kartal U., Uzunbayır B., Özdemir E. T.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.26, no.78, pp.481-486, 2024 (Peer-Reviewed Journal)
2. **Production of Titanium Dioxide/Reduced Graphene Oxide Composites and Investigation of Their Photocatalytic Properties**
YURDDAŞKAL M., Kartal U., DOLUEL E. C.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.1, pp.249-255, 2020 (ESCI)
3. **Nanopapılı TiO₂ film yüzeyinde TiO₂/ZnO ve TiO₂/CuO heteroyapıların oluşturulması ve fotokatalitik aktivitelerinin incelenmesi**
DİKİCİ T., YURDDAŞKAL M.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.1, pp.63-73, 2019 (Peer-Reviewed Journal)
4. **Anodik spark oksitleme tekniği ile üretilen titanyum dioksit (TiO₂) kaplamaların karakterizasyonu ve**

fotokatalitik özellikleri

DİKİCİ T., YURDDAŞKAL M.

Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.20, no.1, pp.83-93, 2018 (Peer-Reviewed Journal)

5. **Effects of Zn-doping on the photocatalytic activity and microstructures of nanocrystalline SnO₂ powders**
Yurddaşkal M., Yıldırım S., Dikici T., Yurddaskal M., Erol M., Aritman İ., Uygun H. D., Celik E.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.5, pp.9-14, 2018 (Scopus)
6. **Enhanced photocatalytic properties of Sn-doped ZnO nanoparticles by flame spray pyrolysis under UV light irradiation**
Yurddaşkal M., Yıldırım S., Dikici T., Yurddaskal M., Erol M., Aritman İ., Celik E.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.5, pp.15-22, 2018 (Scopus)
7. **Effect of annealing temperatures on the crystallization and photocatalytic activity of micro-nanoporous TiO₂ films produced by electrochemical anodization**
Yurddaskal M., YURDDAŞKAL M., DİKİCİ T., Durmus H.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.5, pp.85-92, 2018 (Scopus)
8. **Soğuk metal transfer kaynağı ile birleştirilmiş AA6061-galvanizli çelik sacların karakterizasyonu**
DURMUŞ H., ÇÖMEZ N., YURDDAŞKAL M.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.8, no.4, pp.835-844, 2017 (Peer-Reviewed Journal)
9. **Preparation and Characterization of TiO₂ Nanofluid by Sol-gel Method for Cutting Tools**
Birlik I., Ak Azem N. F., Yiğit R., Erol M., Yıldırım S., Yurddaşkal M., Sancakoğlu O., Çelik E.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.14, pp.453-460, 2014 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Graphene-Based Photocatalysts for Biomedical Applications**
Yurddaşkal M., Yurddaşkal M., Jehad A. K.
in: Graphene-Based Photocatalysts From Fundamentals to Applications, Mohd Rafie Johan, Muhammad Nihal Naseer, Maryam Ikram, Asad Ali Zaidi, Yasmin Abdul Wahab, Editor, Springer, London/Berlin, Basel, pp.540-554, 2024
2. **Gıda Ambalajlarında Nanoteknoloji Uygulamaları**
KARABAŞ E., YILMAZ T., YURDDAŞKAL M., BOZATLI S. B.
in: Sürdürülebilir Gıda Sistemleri Üzerine Araştırmalar, Bağdatlıoğlu Neriman, Editor, Sidas, İzmir, pp.402-410, 2022
3. **Thermoelectric films for electricity generation**
YURDDAŞKAL M., YURDDAŞKAL M., YILMAZ O., GÜLTEKİN S.
in: Inorganic and Organic Thin Films: Fundamentals, Fabrication, and Applications, Yujun Song, Editor, John Wiley & Sons, Inc., pp.299-328, 2021

Refereed Congress / Symposium Publications in Proceedings

1. **Improvement of electromagnetic shielding properties of glass fiber reinforced epoxy composites**
Yılmaz M., Yurddaşkal M.
6. INTERNATIONAL MEDITERRANEAN CONGRESS, Rome, Italy, 13 - 15 August 2024, pp.336-337
2. **Investigation of the effect of voltage on the surface morphologies of Al₂O₃ structures produced by anodic oxidation method**
Balkan S., Yurddaşkal M., Dikici T.
III. International Cankaya Scientific Studies Congress, 28 - 29 February 2024, pp.557-558

3. **Heavy doped semiconductor in graphene Schottky junction solar cell**
Jehad A., KOCABAŞ K., YURDDAŞKAL M., GÜNEŞ F.
Türk Fizik Derneği 37. Uluslararası Fizik Kongresi, Turkey, 1 - 05 September 2021
4. **Graphene-based Schottky junction with highly doped semiconductor**
Jehad A., Kocabaş K., Yurddaşkal M., Güneş F.
5th International Students Science Congress, İzmir, Turkey, 21 - 22 May 2021, pp.71
5. **Effect of different voltages on the morphological and structural properties of ZnO nanowires**
Öksüz A. E., Yurddaşkal M., Dikici T.
4. INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE, MECHANICAL AND AUTOMOTIVE ENGINEERINGS AND TECHNOLOGY, Nevşehir, Turkey, 28 - 30 May 2021, pp.272
6. **The effect of different ohmic back contacts in graphene/silicon Schottky junction solar cell**
Jehad A., Kocabaş K., Yurddaşkal M., Güneş F.
4th International Conference on Physical Chemistry & Functional Materials, Elazığ, Turkey, 8 - 09 April 2021, pp.137
7. **Production and application of CVD graphene in solar cells**
Jehad A., KOCABAŞ K., YURDDAŞKAL M.
6. Uluslararası Öğrenci Sempozyumu, 5 - 06 December 2020
8. **Investigation in graphene/silicon-based Schottky junction solar cell**
Jehad A., KOCABAŞ K., YURDDAŞKAL M.
4th International Students Science Congress, 18 - 19 September 2020
9. **Synthesis of graphene nanolayers from graphite with microwave-assisted liquid phase exfoliation method**
DOLUEL E. C., YURDDAŞKAL M., Kartal U.
5th International Engineering and Natural Sciences Conference 2020, 5 - 06 November 2020
10. **Production of multifunctional new generation fabrics with the ability to reflect ultraviolet and infrared rays by physical vapor deposition method**
Kartal U., YURDDAŞKAL M., DOLUEL E. C.
5th International Engineering and Natural Sciences Conference 2020, 5 - 06 November 2020
11. **Producing the graphene/p-silicon Schottky junction solar cell and investigation the effect of multi-layer graphene in this cell**
Jehad A., KOCABAŞ K., YURDDAŞKAL M.
Türk Fizik Derneği 36. Uluslararası Fizik Kongresi, 1 - 05 September 2020
12. **Fabrication of graphene/Si Schottky junction solar cell**
Jehad A., KOCABAŞ K., YURDDAŞKAL M.
2020 Express conference on the physics of materials and their applications in energy harvesting, 17 - 19 August 2020
13. **A feasible technique to prepare few-layered graphene sheets from pencil lead graphite**
Jehad A., KOCABAŞ K., YURDDAŞKAL M.
V. Uluslararası Öğrenci Sempozyumu, Edirne, Turkey, 6 - 08 December 2019
14. **Development of visible light active Fe₂O₃/TiO₂ nanostructured photocatalysts**
Uzunbayır B., Doluel E. C., Kartal U., YURDDAŞKAL M., EROL M.
8th International Conference on Advanced Technologies, 26 - 30 August 2019
15. **Anotlama parametrelerinin Ti₆Al₄V alaşımı üzerinde oluşturulan TiO₂ nanoyapıların yüzey özelliklerine etkisi**
YURDDAŞKAL M.
3rd International Students Science Congress, İzmir, Turkey, 3 - 04 May 2019
16. **Preparation and characterization of graphene synthesized by different methods**
Jehad A., YURDDAŞKAL M., KOCABAŞ K.
3rd International Students Science Congress, İzmir, Turkey, 3 - 04 May 2019
17. **Investigation of the surface characteristics and photocatalytic properties of TiO₂ layers by anodic oxidation**

ARİTMAN İ., YURDDAŞKAL M.

2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), 28 - 29 June 2019

18. **A Practical Method to Synthesis Few-Layered Graphene Sheets via Electrochemical with Microwave Assisted Exfoliation**
Jehad A. K., KOCABAŞ K., YURDDAŞKAL M.
35th International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 4 - 08 September 2019, vol.2178
19. **Effect of annealing temperatures on the crystallization and photocatalytic activity of micro-nanoporous TiO₂ films produced by electrochemical anodization**
YURDDAŞKAL M., YURDDAŞKAL M., DİKİCİ T., DURMUŞ H.
3rd International Porous and Powder Materials Symposium and Exhibition Symposium (PPM2017), Aydın, Turkey, 12 - 15 September 2017
20. **Development of the electrical conductivity in carbon based polymer composites**
YURDDAŞKAL M., EROL M., ÇELİK E.
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21. **Finite element simulation of the substrate effects on the mechanical performance of YBCO-based superconductor thin films**
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22. **Production and characterization of PMMA/TiO₂ composite thin films for dielectric applications**
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23. **Investigation of the substrate effects on the mechanical performance of YBCO coating produced by vacuum evaporation technique**
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24. **Comparison of exfoliated graphene synthesized by mechanical and sonic methods**
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2nd International Students Science Congress, 4 - 05 May 2018
25. **Production and development of graphene and carbon black filled conductive nanocomposites**
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26. **Synergic effect of graphene flake on the heat releasing properties of carbon based polymer composites**
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27. **The effect of acid etching temperature on the surface properties of Ti₆Al₄V**
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28. **Electrical behavior and positive temperature coefficient effect of carbon black and graphite filled conductive polymer composites**
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29. **Synergistic effect of antimony trioxide nanoparticles on the structural, thermal and flame retardant properties of polypropylene**
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30. **Microstructure and photocatalytic properties of Zn-Ni alloy coatings produced by electrodeposition process**
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31. **The effect of Cr/C ratio on the wear resistance of hardfacing coatings**
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2nd International Science Symposium (ISS 2017), Tiflis, Georgia, 5 - 08 September 2017
32. **Photocatalytic Performance of The Iodine Doped Hollow And Mesoporous Hematite (Fe₂O₃) Structure Synthesized Via Sol-Gel Process**
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33. **Effects of Zn-doping on the photocatalytic activity and microstructures of nanocrystalline SnO₂ powders**
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35. **Fabrication and Characterization of Gd₂O₂SO₄:Tb³⁺ Phosphors by Sol-gel Method**
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37. **Effect of halogen free nanoparticles on the mechanical structural thermal and flame retardant properties of polymer matrix composite**
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19th International Conference on Composite Structures, Porto, Portugal, 5 - 08 September 2016
38. **Synthesis and characterization of Gd₂O₂SO₄ Pr³ scintillation material produced by sol gel process for digital imaging system**
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39. **Effect of anodizing voltage on the photocatalytic activities of nanoporous TiO₂ structures**
DİKİCİ T., YURDDAŞKAL M., TOPARLI M.
Cracow Symposium on Physics and Chemistry of Materials (CSPCM 2016), Cracow, Poland, 06 May 2016
40. **Seramik katkılı alev geciktirici polimerik nanokompozit malzemelerin üretilmesi karakterizasyonu ve endüstriyel uygulaması**
Yurddaşkal M., Yıldırım S., Yılmaz S., Turhan A., Çelik E.
IX. Uluslararası Katılımlı Seramik Kongresi, Afyonkarahisar, Turkey, 26 - 28 November 2015, pp.79
41. **PRODUCTION OF CARBON BASED NANOCOMPOSITE COATINGS AND INVESTIGATION OF THE USAGE OF TEMPERATURE SENSOR**
YURDDAŞKAL M., Erol M., Celik E.
International Conference on Production Research - Regional Conference Africa, Europe and the Middle East (ICPR-

AEM) / 3rd International Conference on Quality and Innovation in Engineering and Management (QIEM), Cluj-Napoca, Romania, 1 - 05 July 2014, pp.532-535

42. **Nanometric measurement of the pre nano scale TiO₂ powders via flame spray pyrolysis: Synthesis, properties and photocatalytical decomposition of methylen blue**
Erol M., Yurddaşkal M., Yıldırım S., Mermer Ö., Baş G., Çakmakçı M., Numan Durakbasa M., Çelik E.
20th IMEKO World Congress 2012, Busan, South Korea, 9 - 14 September 2012, vol.3, pp.1771-1776
43. **Preparation and characterization of TiO₂ nanofluid by sol gel method for cutting tools**
Birlik I., Ak Azem N. F., Yiğit R., Erol M., Yıldırım S., Yurddaşkal M., Sancakoğlu O., Çelik E.
VIII. Uluslararası Katılımlı Seramik Kongresi, Afyonkarahisar, Turkey, 22 - 24 November 2012
44. **Preparation and characterization of TiO₂ nanofluid by sol-gel method for cutting tools**
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VIII. CERAMIC CONGRESS WITH INTERNATIONAL PARTICIPATION, Afyonkarahisar, Turkey, 22 - 24 November 2012
45. **Synthesis and properties of nano scale MgO powders via flame spray pyrolysis for graphene production as a catalyzer material**
Yıldırım S., Yurddaşkal M., Öztürk B., Batar T., Çelik E.
VIII. Uluslararası Katılımlı Seramik Kongresi, Afyonkarahisar, Turkey, 22 - 24 November 2012, pp.60
46. **Nanometric Measurement of the Pre Nano Scale TiO₂ Powders via Flame Spray Pyrolysis: Synthesis, Properties and Photocatalytical Decomposition of Methylene Blue**
Erol M., Yurddaşkal M., Yıldırım S., Mermer Ö., Baş G., Çakmakçı M., Durakbasa N., Çelik E.
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47. **Production and characterization of Fe₃O₄ nanoparticles via flame spray pyrolysis**
Yurddaşkal M., Yıldırım S., Erol M., Çelik E.
8th Nanoscience and Nanotechnology Congress (NanoTR-VIII), Ankara, Turkey, 25 - 29 June 2012
48. **Graphite nanoparticle reinforced polymeric nanocomposites for flexible temperature sensors**
EROL M., YURDDAŞKAL M., MERMER Ö., ÇELİK E.
8th Nanoscience and Nanotechnology Congress (NanoTR-VIII), 25 - 29 June 2012
49. **Graphite Nanoparticles Reinforced Polymeric Nanocomposites for Flexibles temperature Sensors**
Erol M., Yurddaşkal M., Mermer Ö., Çelik E.
8th Nanoscience and Nanotechnology Congress, Ankara, Turkey, 25 - 29 June 2012

Academic and Administrative Experience

2023 - Continues	Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi	Dokuz Eylul University, Rektörlük, Elektronik Malzemeler Üretimi ve Uygulama Merkezi
2023 - Continues	Deputy Director of the Center	Dokuz Eylul University, Rektörlük, Elektronik Malzemeler Üretimi ve Uygulama Merkezi
2021 - Continues	Deputy Head of Department	Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü
2019 - Continues	Deputy Head of Department	Dokuz Eylul University, Fen Bilimleri Enstitüsü, Nanobilim ve Nanomühendislik Anabilim Dalı
2018 - 2019	Deputy Director of the Center	Dokuz Eylul University, Rektörlük, Elektronik Malzemeler Üretimi ve Uygulama Merkezi
2018 - 2019	Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi	Dokuz Eylul University, Rektörlük, Elektronik Malzemeler Üretimi ve Uygulama Merkezi

Courses

ELECTRONIC AND MAGNETIC CERAMICS, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
MALZEME LABORATUVARI, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
BİTİRME PROJESİ HAZIRLIK, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
MALZEME 2, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
BİTİRME PROJESİ, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
METALLURGICAL THERMODYNAMICS, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
MATERIALS FOR ELECTRICAL AND ELECTRONICS ENGINEERING, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
SURFACE TREATMENTS OF MATERIALS, Postgraduate, 2020 - 2021
ELECTRONIC MATERIALS, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
MALZEME BİLGİSİ, Undergraduate, 2019 - 2020, 2018 - 2019
NANOTEKNOLOJİDE ÜRETİM TEKNİKLERİ, Postgraduate, 2019 - 2020

Advising Theses

Yurddaşkal M., Polimer polielektrik komplekslerin biyoaktif enkapsülasyonu potansiyelinin araştırılması, Postgraduate, E.ULUDERE(Student), Continues
Yurddaşkal M., Construction of metal oxide based heterostructures for photocatalytic and photoelectrochemical systems, Doctorate, E.BARIŞ(Student), Continues
Yurddaşkal M., Development of anti-reflective and photocatalytic coatings for photovoltaic applications, Doctorate, T.KARATAŞ(Student), Continues
Yurddaşkal M., Production and improvement of carbon coated glass fiber composites for electromagnetic interference shielding applications, Postgraduate, O.KÖKSAL(Student), Continues
Yurddaşkal M., Development and characterization of Al₂O₃ coatings with different surface morphologies by anodic spark oxidation, Postgraduate, S.BALKAN(Student), Continues
Yurddaşkal M., Ti₆Al₄V alaşımının anotlanması ile oluşan yüzey özelliklerinin incelenmesi, Postgraduate, T.KAAN(Student), Continues
Yurddaşkal M., Development of flexible and wearable self-powered triboelectric nanogenerators and sensors, Doctorate, M.ATAY(Student), Continues
Yurddaşkal M., Investigation of structural, electrical and optical properties of semiconductor metal oxide based coatings, Doctorate, A.EMRECAN(Student), Continues
Yurddaşkal M., Cam elyaf takviyeli kompozitlerde grafen katkısının mekanik özelliklere etkisinin incelenmesi, Postgraduate, E.TAHMASEBZADEH(Student), Continues
Yurddaşkal M., Cam elyaf takviyeli epoksi kompozitlerin elektromanyetik kalkanlama özelliklerinin geliştirilmesi, Doctorate, M.YILMAZ(Student), Continues
Yurddaşkal M., Investigation of mechanical thermal and electrical properties of polymer matrix composites, Postgraduate, O.ÇETİNKAYA(Student), Continues
Yurddaşkal M., Yılmaz T., ZnO Katkılı Fotokatalitik Aktif Ambalaj Üretimi, Postgraduate, E.KARABAŞ(Student), 2023
Yurddaşkal M., Yüksek kaliteli grafen sentezi ve enerji depolama uygulamaları için grafen bazlı malzemelerin kullanımının araştırılması, Postgraduate, E.CAN(Student), 2022
Yurddaşkal M., ZnO nanoyapıların üretilmesi, karakterizasyonu ve uygulama alanlarının araştırılması, Postgraduate, A.EMRE(Student), 2021
Yurddaşkal M., Ultraviyole koruma ve kızılötesi gizlilik uygulamaları için fiziksel buhar biriktirme yoluyla çok fonksiyonlu kaplamaların üretimi, karakterizasyonu ve geliştirilmesi, Postgraduate, U.KARTAL(Student), 2021
KOCABAŞ K., YURDDAŞKAL M., silisyum schottky eklemli güneş hücresinin incelenmesi, Doctorate, A.KHALAF(Student), 2021

Activities in Scientific Journals

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, Editor, 2020 - Continues
COATINGS, Special Issue Editor, 2021 - 2022

Scientific Refereeing

INTERNATIONAL ADVANCED RESEARCHES AND ENGINEERING JOURNAL, National Scientific Refreed Journal, April 2022
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, January 2022
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, March 2021
POLİTEKNİK DERGİSİ, National Scientific Refreed Journal, May 2020
DİCLE ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ, National Scientific Refreed Journal, May 2020
POLİTEKNİK DERGİSİ, National Scientific Refreed Journal, May 2020
DOKUZ EYLÜL ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ FEN VE MÜHENDİSLİK DERGİSİ, National Scientific Refreed Journal, April 2020
CERAMICS INTERNATIONAL, Journal Indexed in SCI-E, November 2019
POLİTEKNİK DERGİSİ, National Scientific Refreed Journal, March 2019
DOKUZ EYLÜL ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ FEN VE MÜHENDİSLİK DERGİSİ, National Scientific Refreed Journal, January 2019
ACS NANO, Journal Indexed in SCI-E, January 2019
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, Journal Indexed in SCI-E, December 2018
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, December 2018
JOURNAL OF HAZARDOUS MATERIALS, Journal Indexed in SCI-E, December 2018
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, September 2018
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, August 2018
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, August 2018
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, August 2018
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, July 2018
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, July 2018
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, May 2018
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, April 2018
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, Journal Indexed in SCI-E, April 2018
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, April 2018
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, Journal Indexed in SCI-E, February 2018
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, February 2018
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, December 2017
MATERIALS LETTERS, Journal Indexed in SCI-E, December 2017
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, Journal Indexed in SCI-E, November 2017
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, Journal Indexed in SCI-E, November 2017
REVISTA DE METALURGIA, Journal Indexed in SCI-E, November 2017
SURFACE & COATINGS TECHNOLOGY, Journal Indexed in SCI-E, October 2017
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, Journal Indexed in SCI-E, September 2017
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, Journal Indexed in SCI-E, June 2017
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, Journal Indexed in SCI-E, April 2017
CERAMICS INTERNATIONAL, Journal Indexed in SCI-E, March 2017
JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, March 2017
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, Journal Indexed in SCI-E, March 2017

JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, November 2016

JOURNAL OF ALLOYS AND COMPOUNDS, Journal Indexed in SCI-E, July 2016

Tasks In Event Organizations

Yurddaşkal M., International Congress of Science, Mathematics and Engineering, Scientific Congress, Turkey, Kasım 2019

Metrics

Publication: 104

Citation (WoS): 541

Citation (Scopus): 638

H-Index (WoS): 13

H-Index (Scopus): 13

Research Areas

Metallurgical and Materials Engineering, Ceramic Materials, Semiconductor and Superconductor Materials, Optical Properties, Testing and Control of Materials, Mechanical Properties, Physical Properties, Electrical and Magnetic Properties, Chemical and Electrochemical Properties, Corrosion and Corrosion Protection, Composites, Polymeric Materials, Biomaterials, Physical Metallurgy, Thermal Treatment, Plating, Material Characterization, Mechanical Metallurgy, Metallic Materials, Nanomaterials, Thermal Properties, Structure-Property Relationship, Electrolytic Coating, Non Metallic Materials Production