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International Researcher IDs

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Publons / Web Of Science ResearcherID: I-8092-2019

ScopusID: 56401010700

Yoksis Researcher ID: 52590

Education Information

Doctorate, Karabuk University, Mühendislik Fakültesi/Metalurji Ve Malzeme Müh., Malzeme Bilimi, Turkey 2015 - 2018

Undergraduate, Yıldız Technical University, Kimya Metalurji Fakültesi/Metalurji Ve Malzeme Müh., Turkey 2005 - 2010

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Radar soğurucu kompozit malzeme üretimi, Karabuk University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Müh. / Malzeme Bilimi, 2018

Postgraduate, Twip çeliklerinin mekanik ve mikroyapı özelliklerine alaşım elementlerinin etkisi, Karabuk University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Müh. / Malzeme Bilimi, 2015

Research Areas

Mining Engineering and Technology, Metallurgical and Materials Engineering, Material science and engineering, Testing and Control of Materials, Composites, Material Characterization, Nanomaterials, Production Metallurgy, Iron and Steel Production, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yıl University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2018 - Continues

Research Assistant, Karabuk University, Mühendislik Fak., Metalurji Ve Malzeme Müh., 2013 - 2018

Academic and Administrative Experience

Van Yüzüncü Yil University, 2018 - Continues

Courses

Kompozit Malzemeler, Undergraduate, 2018 - 2019

Yerbiliminde Malzemelerin Analitik Teknikleri ve Karakterizasyonu, Postgraduate, 2018 - 2019

Yalıtım ve Kompozit Malzemeler, Postgraduate, 2018 - 2019

Jury Memberships

Post Graduate, Tez Savunma Jürisi, Karabük Üniversitesi, January, 2020

Post Graduate, Tez Savunma Jürisi, Karabük Üniversitesi, January, 2020

Post Graduate, Tez Savunma Jürisi, Karabük Üniversitesi, January, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Ti₂N₂T_x MXene materials derived from Ti₂AlN MAX phases: Their characterization and electrocatalytic activity toward hydrazine electrooxidation**
Ulaş B., Çetin T., Topuz M., Akınay Y.
International Journal of Hydrogen Energy, vol.82, pp.892-900, 2024 (SCI-Expanded)
- II. **Ti₃C₂T_x MXene-functionalized Hydroxyapatite/Halloysite nanotube filled poly- (lactic acid) coatings on magnesium: In vitro and antibacterial applications**
Topuz M., Akınay Y., Karatas E., ÇETİN T.
Journal of Magnesium and Alloys, vol.12, no.9, pp.3758-3771, 2024 (SCI-Expanded)
- III. **Chitosan-based pH-sensitive antibacterial bionanocomposites with laponite immobilized silver nanoparticles for delivery of sunitinib maleate to breast cancers**
Labib P., Mahdavinia G. R., Dehghani A., Nobarzad R. S., Sayyar Z., Jafari H., Najafzadeh K., Akınay Y., Akbari A.
Applied Organometallic Chemistry, vol.38, no.9, 2024 (SCI-Expanded)
- IV. **An Efficient Supported Cu(I) Catalyst for the Amination of Aryl Halides with Sodium Azide**
Fekri S., Mansoori Y., Akınay Y., ÇETİN T., John M.
ChemNanoMat, vol.10, no.6, 2024 (SCI-Expanded)
- V. **Novel Ti₃C₂X₂ MXene supported BaMnO₃ nanoparticles as hydrazine electrooxidation catalysts**
Ulaş B., ÇETİN T., KAYA Ş., Akınay Y., DEMİR KIVRAK H.
International Journal of Hydrogen Energy, vol.58, pp.726-736, 2024 (SCI-Expanded)
- VI. **Binary CeO₂-x/Ag₄V₂O₇ photocatalysts: Impressive performances in detoxification of organic and inorganic pollutants**
Zohari-Moafi M., Habibi-Yangjeh A., Habibi M., Akınay Y.
Molecular Catalysis, vol.556, 2024 (SCI-Expanded)
- VII. **Facile synthesis of ZnO/CeO₂/CeFeO₃ photocatalysts sensitive to visible light with tandem n-n heterojunctions and improved performance towards tetracycline and dye effluent removals**
Andish-Lifshagerd F., Yangjeh A. H., Habibi M., Akınay Y.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A: CHEMISTRY, vol.448, no.115351, pp.1-11, 2024 (SCI-Expanded)
- VIII. **Anchoring modified g-C₃N₄ with Bi₅O₇Br: S-scheme photocatalysts with boosted activities in elimination of inorganic and organic pollutants**
Jalalat Z., Habibi-Yangjeh A., Hemmati-Eslamlu P., Akınay Y.
Inorganic Chemistry Communications, vol.158, 2023 (SCI-Expanded)
- IX. **Oxygen vacancy-rich CeO₂ decorated with Cu₃BiS₃ nanoparticles: Outstanding visible-light**

photocatalytic performance towards tetracycline degradation

Habibi M., Habibi-Yangjeh A., Akinay Y., Khataee A.

Chemosphere, vol.340, 2023 (SCI-Expanded)

- X. **QDs-sized TiO₂-x/Bi₂O₃/BiOCl photocatalysts with tandem n-n heterojunctions: Facile fabrication and impressive visible-light-induced photocatalytic performances**
Jahed-Jaafargolikhanlo M., Habibi-Yangjeh A., Pournemati K., Akinay Y.
Surfaces and Interfaces, vol.41, 2023 (SCI-Expanded)
- XI. **Novel g-C₃N₄ nanorods/Cu₃BiS₃ nanocomposites: Outstanding photocatalysts with p-n heterojunction for impressively detoxification of water under visible light**
Eslamlu P. H., Yangjeh A. H., Akinay Y., Çetin T.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A: CHEMISTRY, vol.443, no.114862, pp.1-12, 2023 (SCI-Expanded)
- XII. **Synthesis and characterization of Pd doped MXene for hydrogen production from the hydrolysis of methylamine borane: Effect of cryogenic treatment**
Karataş ., Çetin T., Akinay Y., Gülcan M.
Journal of the Energy Institute, vol.109, 2023 (SCI-Expanded)
- XIII. **Synthesis and characterization of block copolymer: thermal and morphological properties of SiO₂-filled block copolymer nanocomposites**
Göktaş M., Aykac C., Akinay Y.
POLYMER BULLETIN, vol.80, no.8, pp.8565-8584, 2023 (SCI-Expanded)
- XIV. **A critical mini-review on challenge of gaseous O₃ toward removal of viral bioaerosols from indoor air based on collision theory**
Kakaei K., Padervand M., Akinay Y., Dawi E., Ashames A., Saleem L., Wang C.
Environmental Science and Pollution Research, vol.30, no.36, pp.84918-84932, 2023 (SCI-Expanded)
- XV. **Enhancement of biogas production using SnO₂ nanoparticle-doped mica catalyst**
Kaskun S., Çalhan R., Akinay Y.
Biomass Conversion and Biorefinery, vol.13, no.8, pp.7239-7246, 2023 (SCI-Expanded)
- XVI. **The electromagnetic wave absorption properties of woven glass fiber composites filled with Sb₂O₃ and SnO₂ nanoparticles doped mica pigments**
Akinay Y., Colak B., TURAN M. E., Akkuş İ. N., Çelik Kazıcı H., Kizilcaç A. O.
POLYMER COMPOSITES, vol.43, no.12, pp.8784-8794, 2022 (SCI-Expanded)
- XVII. **Rh (0) nanoparticles impregnated on two-dimensional transition metal carbides, MXene, as an effective nanocatalyst for ammonia-borane hydrolysis**
Karatas Y., Cetin T., Akkus I. N., Akinay Y., Gülcan M.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.8, pp.11411-11423, 2022 (SCI-Expanded)
- XVIII. **Supramolecular Arrangement and DFT analysis of Zinc(II) Schiff Bases: An Insight towards the Influence of Compartmental Ligands on Binding Interaction with Protein**
Chowdhury M. S., Gumus S., Dasgupta S., Majumder I., Bhattacharya A., Das D., Mukhopadhyay J., Bose D., Dasgupta S., Akinay Y., et al.
CHEMISTRYOPEN, vol.11, no.6, pp.1-11, 2022 (SCI-Expanded)
- XIX. **Experimental investigation of the effects of aging and cryogenic treatments on the mechanical properties of superelastic nickel-titanium shape-memory alloys**
Güven S., Altın Karataş M., Gökçaya H., Akinay Y.
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.236, no.12, pp.6752-6759, 2022 (SCI-Expanded)
- XX. **Finite element simulation and experimental investigation on the effect of temperature on pseudoelastic behavior of perforated Ni-Ti shape memory alloy strips**
Altas E., Khosravi F., Gokkaya H., Arab Maleki V., Akinay Y., ÖZDEMİR O., BAYRAKTAR Ö., Kandas H.
SMART MATERIALS AND STRUCTURES, vol.31, no.2, 2022 (SCI-Expanded)
- XXI. **Surface Integrity of NiTi Shape Memory Alloy in Milling with Cryogenic Heat Treated Cutting Tools under Different Cutting Conditions**

- Altas E., Altin Karatas M., Gokkaya H., Akinay Y.
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.30, no.12, pp.9426-9439, 2021 (SCI-Expanded)
- XXII. **Al₂O₃/SiO₂ nanoparticles-coated TiO₂ catalyst on the exhaust pollutants of a diesel engine**
Kaskun Ergani S., Kocaman A., Akinay Y.
Applied Nanoscience (Switzerland), vol.11, pp.2759-2766, 2021 (SCI-Expanded)
- XXIII. **Wear resistance and tribological properties of GNPs and MWCNT reinforced AlSi18CuNiMg alloys produced by stir casting**
Turan M. E., Aydin F., Sun Y., Zengin H., Akinay Y.
Tribology International, vol.164, 2021 (SCI-Expanded)
- XXIV. **Synthesis of 3D Sn doped Sb₂O₃ catalysts with different morphologies and their effects on the electrocatalytic hydrogen evolution reaction in acidic medium**
Akinay Y., Kazici H., Akkuş İ. N., Salman F.
CERAMICS INTERNATIONAL, vol.47, no.20, pp.29515-29524, 2021 (SCI-Expanded)
- XXV. **Nanotube-Boramic Acid Derivative for Dopamine Sensing**
Yigit A., Pınar P., Akinay Y., Alma M. H., Mengeş N.
CHEMISTRYSELECT, vol.6, no.24, pp.6302-6313, 2021 (SCI-Expanded)
- XXVI. **Microstructure and Chemical Analysis in Pseudoexfoliation Syndrome**
Yavuzer K., Akinay Y.
CURRENT EYE RESEARCH, vol.46, no.4, pp.490-495, 2021 (SCI-Expanded)
- XXVII. **Poly(pyrrole-co-styrene sulfonate)-encapsulated MWCNT/Fe-Ni alloy/NiFe₂O₄ nanocomposites for microwave absorption**
Cao Y., Mohamed A. M., Mousavi M., Akinay Y.
Materials Chemistry and Physics, vol.259, 2021 (SCI-Expanded)
- XXVIII. **Improved hydrogen adsorption of ZnO doped multi-walled carbon nanotubes**
Kaskun S., Akinay Y., Kayfeci M.
International Journal of Hydrogen Energy, vol.45, pp.34949-34955, 2020 (SCI-Expanded)
- XXIX. **Characterized nano-size curcumin and rosemary oil for the limitation microbial spoilage of rainbow trout fillets**
Ceylan Z., Meral R., Köse Ş., Sengor G., Akinay Y., DURMUŞ M., UÇAR Y.
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.134, 2020 (SCI-Expanded)
- XXX. **Preparation of nickel doped mesoporous carbon for enhanced microwave absorption performance**
Song H., Chen J., Li H., Akinay Y.
Journal of Magnetism and Magnetic Materials, vol.513, 2020 (SCI-Expanded)
- XXXI. **PEDOT coated Cu-BTC metal-organic frameworks decorated with Fe₃O₄ nanoparticles and their enhanced electromagnetic wave absorption**
Niu H., Liu P., Qin F., Liu X., Akinay Y.
Materials Chemistry and Physics, vol.253, 2020 (SCI-Expanded)
- XXXII. **A novel approach to prepare polyaniline/Polypyrrole@Cu-BTC/NH₂-MIL-101(Fe) MOFs for electromagnetic wave absorption**
Zhou J., Liu D., Xiong Y., Akinay Y.
Ceramics International, vol.46, no.12, pp.19758-19766, 2020 (SCI-Expanded)
- XXXIII. **Synthesis and characterization of the pearlescent pigments based on mica deposited with SiO₂, AlN and TiO₂: First report of its dielectric properties**
Akinay Y., Nuri Akkuş İ. N.
Ceramics International, vol.46, no.11, pp.17735-17740, 2020 (SCI-Expanded)
- XXXIV. **Synthesis of PPy@Ba_{0.5}Sr_{0.5}Fe₁₂O₁₉/CNFs by reverse in-situ polymerization method for microwave absorption applications**
Guo T., Chang S., Akinay Y.
Synthetic Metals, vol.266, 2020 (SCI-Expanded)
- XXXV. **Equivalent analytical model of plain weave composite fabric for electromagnetic shielding applications**

- Kızılçay A. O., Akinay Y.
Journal of Microwave Power and Electromagnetic Energy, vol.54, pp.245-253, 2020 (SCI-Expanded)
- XXXVI. **The influence of MWCNTs on microwave absorption properties of Co/C and Ba-Hexaferrite hybrid nanocomposites**
Peibo L., Yize S., Akinay Y.
Synthetic Metals, vol.263, 2020 (SCI-Expanded)
- XXXVII. **Computation and modeling of microwave absorbing CuO/graphene nanocomposites**
Akinay Y., Kızılçay A. O.
Polymer Composites, vol.41, pp.227-232, 2020 (SCI-Expanded)
- XXXVIII. **Absorbing properties and structural design of PVB/Fe₃O₄ nanocomposite**
Akinay Y., Hayat F., Colak B.
Materials Chemistry and Physics, vol.229, pp.460-466, 2019 (SCI-Expanded)
- XXXIX. **Synthesis and microwave absorption enhancement of BaTiO₃ nanoparticle/polyvinylbutyral composites**
Akinay Y., Hayat F.
JOURNAL OF COMPOSITE MATERIALS, vol.53, pp.593-601, 2019 (SCI-Expanded)
- XL. **Comparison of microwave absorption properties between BaTiO₃/Epoxy and NiFe₂O₄/Epoxy composites**
Akinay Y., Hayat F., Kanbur Y., Gökkaya H., Polat S.
Polymer Composites, vol.39, 2018 (SCI-Expanded)
- XL1. **Magnetic and microwave absorption properties of PVB/Fe₃O₄ and PVB/NiFe₂O₄ composites**
Akinay Y., Hayat F., Çakır M., Akın E.
Polymer Composites, vol.39, no.10, pp.3418-3423, 2018 (SCI-Expanded)
- XLII. **Effect of Ni on the mechanical behavior of a high-Mn austenitic TWIP steel**
Akinay Y., Hayat F.
Materialpruefung/Materials Testing, vol.58, no.5, pp.413-417, 2016 (SCI-Expanded)
- XLIII. **The influence of the heat treatment on mechanical and microstructure properties of Fe-Mn-C high-manganese steel**
Akinay Y., Hayat F.
KOVOLVE MATERIALY-METALLIC MATERIALS, vol.54, no.2, pp.91-96, 2016 (SCI-Expanded)
- XLIV. **Investigation of resistance spot welds between dp450 steel and aluminum alloys**
Akinay Y., Hayat F.
Materialpruefung/Materials Testing, vol.58, no.5, pp.408-412, 2016 (SCI-Expanded)
- XLV. **Mechanical Properties of Pattern Welded 1075-15N20 Steels**
OZKAN F., KIRDAN H., KARA I. H., HUSEM F., OZCELIK S., Akinay Y., CUG H., SUN Y., AHLATCI H.
MATERIALS TESTING, vol.56, no.10, pp.897-900, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Recent progress of electromagnetic wave absorbers: A systematic review and bibliometric approach**
Akinay Y., Güneş Ü., Çolak B., Çetin T.
Elsevier BV, vol.2, no.3, pp.197-206, 2023 (Scopus)
- II. **The Theoretical Description for Psilocin Electrochemical Determination over Cobalt Oxyhydroxide**
Tkach V. V., Kucher M. M., Kushnir M. V., Ivanushko Y. G., Akinay Y., Karakoyun N., Yagodynets P. I., Kormosh Z. O.
Orbital, vol.15, no.1, pp.27-30, 2023 (ESCI)
- III. **Süperelastik NiTi Şekil Hafızalı Alaşımların Mekanik Özelliklerine Yüksek Sıcaklık ve Yaşlandırma Isıl İşleminin Etkisi**
GÜVEN S., ALTIN KARATAŞ M., GÖKKAYA H., AKINAY Y.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.13, no.1, pp.27-34, 2022 (Peer-Reviewed Journal)
- IV. **Design, Synthesis and Antimicrobial Activities of New Carbon Nanotubes Derivatives**

Yiğit A., Almalı M. N., Aknay Y., Mengeş N.

Journal of the Institute of Science and Technology, vol.11, no.2, pp.1420-1429, 2021 (Peer-Reviewed Journal)

V. **Theoretical aspects of the electropolymerization of some hydroquinonic derivatives**

Tkach V. V., Kushnir M., De Oliveira S. C., Lystvan V. V., Dytynchenko I. M., Da Silva A. O., Aknay Y., Luganska O., Yagodynets P., Kormosh Z. O.

Biointerface Research in Applied Chemistry, vol.11, no.1, pp.7994-8000, 2021 (Scopus)

VI. **Synthesis and Dielectric Properties of Magnesium Silicate Hydrate Deposited With SnO₂**

Aknay Y.

Sakarya University Journal of Science (SAUJS), vol.24, no.3, pp.455-459, 2020 (Peer-Reviewed Journal)

Books & Book Chapters

I. **15 - Ceramic-based functional electrode materials for application in solid oxide cell-based electrochemical devices**

Dey S., Bose ., Aknay Y., Mukhopadhyay ., Sharma A. D., Mukhopadhyay J.

in: Surface Modification and Functionalization of Ceramic Composites, Rajan Jose, Fabian Ezema, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.255-288, 2023

II. **Scope and Challenges for Green Synthesis of Functional Nanoparticles**

Chatterjee R., Sarkar S., Dutta A. K., Aknay Y., Dasgupta S., Mukhopadhyay M.

in: Novel Applications of Carbon Based Nano-materials, Swamini CHOPRA, Editor, CRC, New York , New York, pp.274-311, 2023

III. **Microwave-Heating Mechanism and Theory of Material-Microwave Interaction**

Aknay Y.

in: Nanoscale Networking and Communications Handbook, John R Vacca, Editor, CRC, New York , New-York, pp.411-425, 2019

Refereed Congress / Symposium Publications in Proceedings

I. **Blok Kopolimer Sentezi ve Karakterizasyonu ve SiO₂ Katkılı Blok Kopolimer Nanokompozitlerin Özelliklerinin Araştırılması**

Göktaş M., Aykaç C., Aknay Y.

34. Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.175

II. **Porous Cryo-Dried MXene Supported Pd (0) Nanoparticles for The Methylamine-Borane Hidrolysis as An Effective and Stable Catalyst**

Karataş Y., Gülcan M., Aknay Y., Çetin T.

16th NANOSCIENCE & NANOTECHNOLOGY CONFERENCE, Ankara, Turkey, 5 - 08 September 2022, pp.242

III. **Novel Sb₂O₃ and SnO₂ Nanoparticles Decorated Talc Pigments for Broadband Electromagnetic Wave Absorption**

AKINAY Y., AKKUŞ İ. N.

2022 IEEE 12th International Conference "Nanomaterials: Applications & Properties" (IEEE NAP-2022), Krakow, Poland, 11 - 16 September 2022

IV. **Porous Cryo-Dried MXene Supported Pd (0) Nanoparticles for The Methylamine-Borane Hidrolysis as An Effective and Stable Catalyst**

Karataş ., Gülcan M., Aknay Y., Çetin T.

16th NANOSCIENCE & NANOTECHNOLOGY CONFERENCE, Ankara, Turkey, 5 - 08 September 2022, pp.242

V. **KOMPOZİT MALZEMELERİN X BANT FREKANS BÖLGESİNDE RADAR SOĞURUCU ÖZELLİKLERİNİN İNCELENMESİ**

KIZILÇAY A. O., AKINAY Y., ŞAHİN E.

8th INTERNATIONAL APPLIED SCIENCES CONGRESS, Diyarbakır, Turkey, 25 December 2021

- VI. **Efficiency of ZnO doped pyrite for COD removal from mixed dye solutions by heterogeneous Fenton process**
Aknay Y., Öztürk D., Özgüven A.
World Congress on Applied Nanotechnology (W-CAN), 24 - 26 November 2021, pp.1
- VII. **Enhanced Mechanical Properties of polystyrene coated Surface Modified Quartz based proppants**
Akkuş İ. N., Zengin A., Aknay Y.
2nd Graphene Summit, Oregon, United States Of America, 15 - 16 November 2021, vol.2, pp.1
- VIII. **Synthesis of BaO Modified MXene catalyst for the hydrogen evolution reaction**
ÇETİN T., AKINAY Y.
Global Virtual Summit on Carbon, Graphene, 0D, 1D, and 2D materials, United States Of America, 22 July 2021
- IX. **Synthesis of Sn doped Sb₂O₅ particles and their optical and electrochemical properties**
AKINAY Y., AKKUŞ İ. N., Salman F., ÇELİK KAZICI H.
2nd Global Virtual Summit on Advances in Materials, Physics & Chemistry Science, England, 18 February 2021
- X. **Photocatalytic CO₂ Reduction and Thermal Properties of Alumina/Silica Coated TiO₂ Nanoparticles**
Aknay Y., Akkuş İ. N.
Materials Chemistry and Physics (Materials Chemistry 2020), London, United Kingdom, 11 - 12 September 2020, vol.2, pp.47
- XI. **The optic and dielectric properties of CuO deposited barite pigments**
Aknay Y., Akkuş İ. N.
INTERNATIONAL SYMPOSIUM ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND SCIENCE, Şanlıurfa, Turkey, 22 - 24 November 2019, pp.1325-1330
- XII. **Preparation and characterization of CuO/Muscovite flakes pearlescent pigment with UV absorption and high NIR reflectance**
Aknay Y., Akkuş İ. N.
3rd International Symposium on Natural Hazards and Disaster Management, Van, Turkey, 25 - 27 October 2019, pp.265-270
- XIII. **COATING OF SILICON ACRYLATE NANOCOMPOSITE CONTAINING FLUORINE CHAINS AND SILICA ON LOW CARBON STEEL BY UV CURING METHOD**
ÇAKIR M., AKIN E., AKINAY Y.
The International Aluminium-Themed Engineering And Natural Sciences Conference, 4 - 06 October 2019
- XIV. **EPOKSI-/BaFe₂O₄ EPOKSI-/PANI KAPLI- BAF₂O₄ C, I-FT KATMANLI HI-BRİ-D KOMPOZİTLERİN MI-KRODALGA ABSORBLAMA ÖZELLİKLERİNİN İNCELENMESİ**
Aknay Y.
13. ULUSAL KI-MYA MÜHENDİSLİĞİ KONGRESİ (UKMK-2018), Van, Turkey, 3 - 06 September 2019, pp.7236-7240
- XV. **Thermal Properties of Graphene Reinforced Fe-Cr- Ni-Cu Alloys Produced by Powder Metallurgy**
Aknay Y., TURAN M. E.
Fourth International Iron and Steel Symposium, Karabük, Turkey, 4 - 06 April 2019, pp.370-373
- XVI. **Complex permittivity, complex permeability and microwave absorption properties of BaTiO₃/PVB composites**
Aknay Y., HAYAT F., GOKKAYA H.
1st International Conference of Advanced Materials and Manufacturing Technologies (ICAMT'17), Karabük, Turkey, 25 - 27 October 2017
- XVII. **Preparation and study on radar absorbing materials of epoxy-Fe₃O₄ composites and the influence of PANI on microwave absorbing properties of NiFe₂O₄/PVB composites**
Aknay Y., HAYAT F.
20th International Conference on Advanced Nanotechnology, Amsterdam, Netherlands, 11 - 12 September 2017
- XVIII. **Thermal, Structural and Mechanical Characterization of Sn-Bi-Cu Hypereutectic Alloy**
Aknay Y., MEYDANERİ TEZEL F., ATALAY AKGUN N.
The 3rd International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 3 - 07 May 2017, pp.499

- XIX. **Fabrication and Mechanical Behavior of Aluminum- Matrix Composites Reinforced with Boron Nitride Particles**
Aknay Y., AKGÜL Y.
3rd Iron and Steel Symposium (UDCS'17), Karabük, Turkey, 3 - 05 April 2017, pp.535
- XX. **The Influence of Heat Treatment on Structural Transformations of NiTi alloy**
Aknay Y., MEYDANERI TEZEL F.
3rd Iron and Steel Symposium (UDCS'17), Karabük, Turkey, 3 - 05 April 2017, pp.536
- XXI. **Investigation of the Effect of TiC Content on the Mechanical Properties of the Aluminum/TiC Composites**
Aknay Y., AKGÜL Y., TURAN M. E.
3rd Iron and Steel Symposium (UDCS'17), Karabük, Turkey, 3 - 05 April 2017, pp.534
- XXII. **Microstructural analysis in the twinning induced plasticity (TWIP) steel: Carbide precipitates, twinning formation and mechanical properties**
Aknay Y., HAYAT F., ŞAHİN S.
6th International Conference on Science, Management, Engineering and Technology 2017 (ICSMET 2017), Dubai, United Arab Emirates, 15 - 16 February 2017, pp.1-7
- XXIII. **Thermal and Surface Properties of a Novel Hybrid Polyimide Containing Fluorine Chains**
Aknay Y., AKIN E., ÇAKIR M.
European Advanced Materials Congress, Stockholms, Sweden, 23 - 26 August 2016, pp.1
- XXIV. **Effect of graphene nanosheets on crystal structure of polyamide 66 nanofibers European Advanced Materials Congress**
Aknay Y., POLAT S.
European Advanced Materials Congress, Stockholms, Sweden, 23 - 25 August 2016, pp.1
- XXV. **The Influence of annealing Temperature and Alloying Elements on Formation of carbides and Twinning**
Aknay Y., HAYAT F.
International Conference on Research in Education and Science (ICRES) Conference, Muğla, Turkey, 19 - 22 May 2016, pp.182
- XXVI. **The Evaluation of The Impact Performance of Twinning Induced Plasticity TWIP Steel**
Aknay Y., HAYAT F.
International Conference on Research in Education and Science (ICRES) Conference, Muğla, Turkey, 19 - 22 May 2016, pp.173
- XXVII. **Effect of the Heat Treatment on Mechanical Properties of High Manganese Steel**
Aknay Y., HAYAT F.
Proceedings of the International Conference on Mining, Material and Metallurgical Engineering, Praga, Czech Republic, 11 - 12 August 2014
- XXVIII. **Mechanical Properties of Pre treated Fumed Silica Reinforced Epoxy Nanocomposite**
Aknay Y., AKIN E., ÇAKIR M.
IMSTEC 2016, Nevşehir, Turkey, 6 - 08 April 2014, pp.87-90

Supported Projects

Aknay Y., Toktaş A., Üstün D., Yıldız S. A., TUBITAK Project, Çok Katmanlı Elektromanyetik Girişim Kalkanlayıcı (Çemkal) Fiber Takviyeli Hibrit Kompozit Panel, 2022 - 2024

Aknay Y., AKKUŞ İ. N., Project Supported by Higher Education Institutions, Doğu Anadolu Bölgesinde Bulunan Jeotermal ve Maden Kaynaklarında Bulunan Kıymetli Metal Li Sb Sn ve Hammaddelerin Disten Quartz Trona Elde Edilmesi ve Fonksiyonlaştırılması, 2022 - 2023

Öztürk D., Çelik Kazıcı H., ŞİRP Z., Akınay Y., Özgüven A., Project Supported by Higher Education Institutions, Tekstil Endüstrisi Atıksularından KOİ Gideriminin Heterojen Elektro Fenton Prosesi ile İncelenmesi ve Proses Koşullarının Optimizasyonu, 2021 - 2023

Akınay Y., Çelik Kazıcı H., Kızılcay A. O., TUBITAK Project, Sedef Pigment Katkılı Radar Soğurucu Yapısal Kompozitlerin Üretilmesi Ve Geliştirilmesi, 2020 - 2023

Gümüş S., Taşdemir V., Akınay Y., Görmez G., Project Supported by Higher Education Institutions, Mineral ölçüm altyapısının güçlendirilmesi çalışmaları, 2020 - 2022

Akınay Y., Bildirici İ., Aktaş N., Project Supported by Higher Education Institutions, Yüzüncü Yıl Üniversitesi Bilim Araştırma ve Uygulama Merkezinin Altyapısının Güçlendirilmesi, 2009 - 2022

Akınay Y., AKKUŞ İ. N., Project Supported by Higher Education Institutions, Polimer Kaplı Kuartz Ve Kaolinit Mikropartikül Esaslı Hidrolik Çatlatma Proppantların Geliştirilmesi Ve Karakterizasyonu, 2021 - 2021

Akınay Y., Akkuş İ. N., Project Supported by Higher Education Institutions, CuO ve Fe₃O₄ kaplı SiO₂ ve Muskovit partiküllerin optik ve termal özelliklerinin incelenmesi: Bu partiküllerin farklı pigment karışımları ile akrilik bazlı boya maddesi olarak hazırlanması ve karakterizasyonu, 2019 - 2021

Scientific Refereeing

ACS Applied Materials & Interfaces/Morphology Design of Co-electrospinning MnO-VN/C Nanofibers for Enhancing the Microwave Absorption Performances, SCI Journal, February 2020

Journal of Alloys and Compounds /Dielectric metamaterial absorber based on resonant and tunable strontium titanate artificial atoms , SCI Journal, December 2019

Polymer Composites/MECHANICAL, TRIBOLOGICAL AND BIOLOGICAL PROPERTIES OF CARBON FIBER/HYDROXYAPATITE REINFORCED HYBRID COMPOSITES, SCI Journal, November 2019

Journal of the European Ceramic Society/Enhanced high temperature dielectric polarization of Barium titanate/Magnesium aluminum spinel composites and their potential in microwave absorbing , SCI Journal, August 2019

Journal of Vinyl & Additive Technology/Structural, Electrical, Thermal and Gas Sensing Properties of New Conductive Blend Nanocomposites Based on Polypyrrole/Phenothiazine/Silver Doped Zinc Oxide, SCI Journal, May 2019

ACS Applied Materials & Interfaces/Synthesis and Microwave Absorption Properties of Sulfur-Free Expanded Graphite/Fe₃O₄ Composites, SCI Journal, April 2019

Journal of Alloys and Compounds/Flexible and ultrathin electrospun regenerate cellulose nanofibers and d-Ti₃C₂T_x (MXene) composite film for electromagnetic shielding, SCI Journal, February 2019

Journal of Composite Materials/Investigation of wear and corrosion behavior of GNPs doped B₄C reinforced Al-Si matrix semi-ceramic hybrid composites, SCI Journal, February 2019

Journal of Vinyl & Additive Technology/Structural, optical and magnetic properties of Se_{0.95}Fe_{0.05} /PANI nanocomposites, SCI Journal, January 2019

Metrics

Publication: 84

Citation (WoS): 164

Citation (Scopus): 772

H-Index (WoS): 9

H-Index (Scopus): 20

Congress and Symposium Activities

7th International Symposium on Innovative Technologies in Engineering and Science, Session Moderator, Şanlıurfa, Turkey, 2019

Fourth International Iron and Steel Symposium (UDCS'19), Session Moderator, Karabük, Turkey, 2019

Non Academic Experience

Business Establishment Private, Kuralkan Motorlu Araçlar A.Ş

Kanuni Motorlu Araçlar Üretim A.Ş

Business Establishment Private, Türksa Makina İmalat A.Ş

TÜRKSA Makina İmalat A.Ş

Teknik Alüminyum