

**Prof. TEMEL VAROL**



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## International Researcher IDs

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## Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 2012 - 2016

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği, Turkey 2010 - 2012

Undergraduate, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 1998 - 2002

## Foreign Languages

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Entrepreneurship, Teknokentlerde Yer Alan/Almak İsteyen Akademisyenlere Yönelik Ar-Ge Projesi Hazırlama Eğitimi, Karadeniz Teknik Üniversitesi, 2022

Project Management, Mühendislik ve Teknolojik Bilimlerde Uygulamalı Proje Yazma Eğitimi, Tübitak 2237-B / Karadeniz Teknik Üniversitesi, 2018

## Dissertations

Doctorate, Nano Partikül Takviyeli Bakır Esaslı Fonksiyonel Derecelendirilmiş Elektrik Kontak Malzemelerinin Üretimi ve Karakterizasyonu, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Makine Mühendisliği / Malzeme, 2016

Postgraduate, AA2024 Matrisli B4C Parçacık Takviyeli Metal Matrisli Kompozitlerin Toz Metalurjisi Yöntemiyle Üretimi ve Özelliklerinin İncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği, 2012

## Research Areas

Mechanical Engineering, Construction and Manufacturing, Tribology, Metallurgical and Materials Engineering, Material science and engineering, Composites, Plating, Production Metallurgy, Powder Metallurgy, Engineering and Technology

## Academic Titles / Tasks

Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2018 - 2018

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2016 - 2018

## Courses

Demirdışı Metal ve Alaşımları, Postgraduate, 2017 - 2018

Statik-Mukavemet, Undergraduate, 2017 - 2018

Seramik Matrisli Kompozitler, Postgraduate, 2017 - 2018

Mühendislik Çizimi, Undergraduate, 2017 - 2018

Tasarım ve Malzeme Seçimi, Undergraduate, 2017 - 2018

Taşınım Olayları, Undergraduate, 2017 - 2018

## Advising Theses

Varol T., BAKIR ESASLI ELEKTRİK KONTAK MALZEMELERİNİN FİZİKSEL VE MEKANİK ÖZELLİKLERİ ÜZERİNE AKIMSIZ KAPLAMA PARAMETRELERİNİN ETKİSİ, Postgraduate, S.BERK(Student), 2022

Varol T., Seçici lazer ergitme yöntemiyle bakır esaslı elektrik kontak malzemelerinin üretimi ve karakterizasyonu, Postgraduate, H.CAN(Student), 2021

Varol T., AA2024 matrisli karbon nanotüp takviyeli metal matrisli nanokompozitlerin toz metalurjisi yöntemiyle üretimi ve özelliklerinin incelenmesi, Postgraduate, H.ÖZER(Student), 2019

## Jury Memberships

Post Graduate, Tez Savunma Jurisi, 19 Mayıs Üniversitesi, June, 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of titanium on the structural, mechanical and surface properties of CoCrFeMnNiTi<sub>x</sub> high entropy alloy fabricated by selective laser melting**  
Bulut C., Yıldız F., VAROL T., Ergüder T. O.  
Intermetallics, vol.169, 2024 (SCI-Expanded)
- II. **The Effect of Milling Time and Hot-Pressing on the Structural Properties and Wear Behavior of CoCrFeMnNi High-Entropy Alloys Fabricated by Mechanical Alloying**  
Bulut C., Yıldız F., Varol T., Akçay S. B., Ergüder T. O.  
High Temperature Corrosion of Materials, vol.101, no.2, pp.225-249, 2024 (SCI-Expanded)
- III. **Influence of post processing on the mechanical properties and wear behavior of selective laser melted Co-Cr-Mo-W alloys**  
VAROL T., AKSA H. C., Yıldız F., AKÇAY S. B., Kaya G., Beder M.  
Tribology International, vol.192, 2024 (SCI-Expanded)
- IV. **Surface modification for improving interfacial, mechanical and thermal performance characteristics in epoxy composites: Electroless nickel enhancement of dendritic copper particle-reinforced epoxy**

AKÇAY S. B., KOCAMAN M., ÇELEBİ M., GÜLER O., VAROL T.

Surface and Coatings Technology, vol.478, 2024 (SCI-Expanded)

- V. **The Effect of Heat Treatment on the Mechanical Properties and Oxidation Resistance of AlSi10Mg Alloy**  
Beder M., AKÇAY S. B., VAROL T., ÇUVALCI H.  
Arabian Journal for Science and Engineering, 2024 (SCI-Expanded)
- VI. **The effect of recycled zinc powder content on the properties of novel novolac matrix hybrid composites**  
Kocaman M., Akçay S. B., Güler O., Çuvalcı H., Varol T., Çuvalcı O.  
TRIBOLOGY INTERNATIONAL, vol.188, 2023 (SCI-Expanded)
- VII. **Effect of ball mill time and wet pre-milling on the fabrication of Ti powders by recycling Ti machining chips by planetary milling**  
Çuvalcı O., Varol T., Akçay S. B., Güler O., Çanakçı A.  
POWDER TECHNOLOGY, vol.426, 2023 (SCI-Expanded)
- VIII. **The effect of boron nitride (h-BN) and silicon carbide (SiC) on the microstructure and wear behavior of ZA40/SiC/h-BN hybrid composites processed by hot pressing**  
YALÇIN E. D., ÇANAKÇI A., ÇUVALCI H., VAROL T., KARABACAK A. H.  
KOVVOVE MATERIALY-METALLIC MATERIALS, vol.61, no.4, pp.257-266, 2023 (SCI-Expanded)
- IX. **Mechanical Loading and Tribological Studies on Boron Carbide (B<sub>4</sub>C) and Lead (Pb) Particles Dispersed Epoxy-Based Multilayered Composites**  
Vignesh S., Jappes J. T. W., Adam K. M., Varol T.  
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, vol.2022, 2022 (SCI-Expanded)
- X. **Enhancement of electrical and thermal conductivity of low-cost novel Cu–Ag alloys prepared by hot-pressing and electroless plating from recycled electrolytic copper powders**  
VAROL T., GÜLER O., AKÇAY S. B., ÇUVALCI O.  
Materials Chemistry and Physics, vol.281, 2022 (SCI-Expanded)
- XI. **Novel advanced copper-silver materials produced from recycled dendritic copper powders using electroless coating and hot pressing**  
Varol T., Güler O., Akçay S. B., Aksa H. C.  
Powder Metallurgy, vol.65, no.5, pp.390-402, 2022 (SCI-Expanded)
- XII. **The wear and arc erosion behavior of novel copper based functionally graded electrical contact materials fabricated by hot pressing assisted electroless plating**  
GÜLER O., VAROL T., ALVER Ü., BIYIK S.  
Advanced Powder Technology, vol.32, pp.2873-2890, 2021 (SCI-Expanded)
- XIII. **The effect of machining processes on the physical and surface characteristics of AA2024-B<sub>4</sub>C-SiC hybrid nanocomposites fabricated by hot pressing method**  
Cevik Z. A., KARABACAK A. H., Kok M., ÇANAKÇI A., Kumar S. S., VAROL T.  
JOURNAL OF COMPOSITE MATERIALS, vol.55, no.19, pp.2657-2671, 2021 (SCI-Expanded)
- XIV. **The Effect of Selective Laser Melting Process on the Microstructure, Density, and Electrical Conductivity of Silver-Coated Copper Cores**  
VAROL T., Hacısalıhoğlu İ., Kaya G., GÜLER O., Yıldız F., Aksa H. C., Akçay S. B.  
Journal of Materials Engineering and Performance, vol.30, no.7, pp.5216-5226, 2021 (SCI-Expanded)
- XV. **Microstructure and wear characterization of Al<sub>2</sub>O<sub>3</sub> reinforced silver coated copper matrix composites by electroless plating and hot pressing methods**  
GÜLER O., VAROL T., ALVER Ü., Kaya G., Yıldız F.  
Materials Today Communications, vol.27, 2021 (SCI-Expanded)
- XVI. **The effect of silver coated copper particle content on the properties of novel Cu-Ag alloys prepared by hot pressing method**  
VAROL T., GÜLER O., Akçay S. B., Aksa H. C.  
Powder Technology, vol.384, pp.236-246, 2021 (SCI-Expanded)
- XVII. **Effect of Al<sub>2</sub>O<sub>3</sub> content and milling time on the properties of silver coated Cu matrix composites**

**fabricated by electroless plating and hot pressing**

Güler O., Varol T., Alver E., Çanakçı A.

MATERIALS TODAY COMMUNICATIONS, vol.24, 2020 (SCI-Expanded)

- XVIII. **Fabrication and characterization of novel layered materials produced by electroless plating and hot pressing**  
Güler O., Alver Ü., Varol T.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.835, 2020 (SCI-Expanded)
- XIX. **Synthesis of SiC nanoparticles by central composite design response surface methodology directed mechanical milling**  
ERDEMİR F., VAROL T., ÇANAKÇI A.  
MICRO & NANO LETTERS, vol.15, no.3, pp.187-190, 2020 (SCI-Expanded)
- XX. **Hot corrosion behaviour of HVOF sprayed Ni<sub>3</sub>Ti and NiTi**  
Reddy N. C., Koppad P. G., Reddappa H. N., Ramesh M. R., Rahn E. R., Varol T.  
SURFACE TOPOGRAPHY-METROLOGY AND PROPERTIES, vol.7, no.2, 2019 (SCI-Expanded)
- XXI. **Investigating the surface integrity of aluminium based composites machined by EDM**  
KUMAR S. S., UTHAYAKUMAR M., KUMARAN S. T., VAROL T., ÇANAKÇI A.  
DEFENCE TECHNOLOGY, vol.15, no.3, pp.338-343, 2019 (SCI-Expanded)
- XXII. **The effect of flake-like morphology on the coating properties of silver coated copper particles fabricated by electroless plating**  
GÜLER O., VAROL T., ALVER Ü., ÇANAKÇI A.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.782, pp.679-688, 2019 (SCI-Expanded)
- XXIII. **Artificial neural network analysis of the effect of matrix size and milling time on the properties of flake Al-Cu-Mg alloy particles synthesized by ball milling**  
VAROL T., ÖZŞAHİN Ş.  
PARTICULATE SCIENCE AND TECHNOLOGY, vol.37, no.3, pp.381-390, 2019 (SCI-Expanded)
- XXIV. **Prediction of effect of reinforcement content, flake size and flake time on the density and hardness of flake AA2024-SiC nanocomposites using neural networks**  
VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.739, pp.1005-1014, 2018 (SCI-Expanded)
- XXV. **Determining the effect of flake matrix size and Al<sub>2</sub>O<sub>3</sub> content on microstructure and mechanical properties of Al<sub>2</sub>O<sub>3</sub> nanoparticle reinforced Al matrix composites**  
VAROL T., ÇANAKÇI A., ÖZKAYA S., ERDEMİR F.  
PARTICULATE SCIENCE AND TECHNOLOGY, vol.36, no.3, pp.312-323, 2018 (SCI-Expanded)
- XXVI. **Artificial neural network-based prediction technique for coating thickness in Fe-Al coatings fabricated by mechanical milling**  
VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş., ERDEMİR F., ÖZKAYA S.  
PARTICULATE SCIENCE AND TECHNOLOGY, vol.36, no.6, pp.742-750, 2018 (SCI-Expanded)
- XXVII. **Physicomechanical properties of spark plasma sintered carbon nanotube-reinforced metal matrix nanocomposites**  
AZARNIYA A., AZARNIYA A., SOVIZI S., HOSSEINI H. R. M., VAROL T., KAWASAKI A., RAMAKRISHNA S.  
Progress in Materials Science, vol.90, pp.276-324, 2017 (SCI-Expanded)
- XXVIII. **Physicomechanical properties of spark plasma sintered carbon nanotube-containing ceramic matrix nanocomposites**  
Azarniya A., Sovizi S., Azarniya A., Boyuk M. R. R. T., VAROL T., Nithyadharseni P., Hosseini H. R. M., Ramakrishna S., Reddy M.  
Nanoscale, vol.9, no.35, pp.12779-12820, 2017 (SCI-Expanded)
- XXIX. **Mechanical and thermal properties of AA7075/TiO<sub>2</sub>/Fly ash hybrid composites obtained by hot forging**  
SHIVANANDA MURTHY K., GIRISH D., KESHAVAMURTHY R., VAROL T., KOPPAD P. G.  
Progress in Natural Science: Materials International, vol.27, no.4, pp.474-481, 2017 (SCI-Expanded)
- XXX. **Fabrication of NanoSiC-Reinforced Al<sub>2</sub>O<sub>3</sub> Matrix Composites by a Novel Production Method**

- VAROL T., ÇANAKÇI A., YALÇIN E. D.  
Arabian Journal for Science and Engineering, vol.42, no.5, pp.1751-1764, 2017 (SCI-Expanded)
- XXXI. **An investigation on wear behavior of Cu-graphite nanocomposites prepared by flake powder metallurgy**  
VAROL T., ÇANAKÇI A.  
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.69, no.1, pp.8-14, 2017 (SCI-Expanded)
- XXXII. **THE EFFECT OF FLAKE MICROSTRUCTURE ON THE PREPARATION AND PROPERTIES OF Cu-GRAPHITE SINTERED NANOCOMPOSITES**  
VAROL T., ÇANAKÇI A.  
POWDER METALLURGY AND METAL CERAMICS, no.55, pp.426-436, 2016 (SCI-Expanded)
- XXXIII. **Fabrication of NanoSiC-Reinforced Al2024 Matrix Composites by a Novel Production Method**  
VAROL T., ÇANAKÇI A., YALÇIN E. D.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, no.10, pp.1-10, 2016 (SCI-Expanded)
- XXXIV. **The effect of type and ratio of reinforcement on the synthesis and characterization Cu-based nanocomposites by flake powder metallurgy**  
VAROL T., ÇANAKÇI A.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.649, pp.1066-1074, 2015 (SCI-Expanded)
- XXXV. **Corrosion and wear behavior of functionally graded Al2024/SiC composites produced by hot pressing and consolidation**  
ERDEMİR F., ÇANAKÇI A., VAROL T., ÖZKAYA S.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.644, pp.589-596, 2015 (SCI-Expanded)
- XXXVI. **Development and characterization of bronze-Cr-Ni composites produced by powder metallurgy**  
ÇANAKÇI A., VAROL T., ÇUVALCI H., ERDEMİR F., ÖZKAYA S.  
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.22, no.4, pp.425-432, 2015 (SCI-Expanded)
- XXXVII. **Artificial neural network to predict the effect of heat treatment, reinforcement size, and volume fraction on AlCuMg alloy matrix composite properties fabricated by stir casting method**  
ÇANAKÇI A., VAROL T., ÖZŞAHİN Ş.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.78, pp.305-317, 2015 (SCI-Expanded)
- XXXVIII. **New Coating Technique for Al-B4C Composite Coatings by Mechanical Milling and Composite Coating**  
ÇANAKÇI A., VAROL T., ERDEMİR F., ÖZKAYA S.  
POWDER METALLURGY AND METAL CERAMICS, vol.53, no.11-12, pp.672-679, 2015 (SCI-Expanded)
- XXXIX. **Synthesis and characterization of hybrid nanocomposite powders via mechanical alloying**  
ÇANAKÇI A., VAROL T., ÇUVALCI H., ERDEMİR F., ÖZKAYA S.  
REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, vol.45, no.1, pp.67-72, 2015 (SCI-Expanded)
- XL. **NEW COATING TECHNIQUE FOR Al-B4C COMPOSITE COATINGS BY MECHANICAL MILLING AND COMPOSITE COATING**  
ÇANAKÇI A., VAROL T., ERDEMİR F., ÖZKAYA S.  
POWDER METALLURGY AND METAL CERAMICS, pp.672-678, 2015 (SCI-Expanded)
- XLI. **Synthesis and Characterization of Hybrid Nanocomposite powders via Mechanical Alloying**  
ÇANAKÇI A., VAROL T., ÇUVALCI H., ERDEMİR F., ÖZKAYA S.  
REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, no.45, pp.67-72, 2015 (SCI-Expanded)
- XLII. **Modeling of the Prediction of Densification Behavior of Powder Metallurgy Al-Cu-Mg/B4C Composites Using Artificial Neural Networks**  
VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş.  
ACTA METALLURGICA SINICA-ENGLISH LETTERS, vol.28, no.2, pp.182-195, 2015 (SCI-Expanded)
- XLIII. **SYNTHESIS AND CHARACTERIZATION OF HYBRID NANOCOMPOSITE POWDERS VIA MECHANICAL ALLOYING**  
ÇANAKÇI A., VAROL T., ÇUVALCI H., ERDEMİR F., ÖZKAYA S.  
REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, vol.45, no.1, pp.67-72, 2015 (SCI-

Expanded)

- XLIV. **Effects of a new pre-milling coating process on the formation and properties of an Fe-Al intermetallic coating**  
ÇANAKÇI A., ERDEMİR F., VAROL T., Dalmis R., ÖZKAYA S.  
POWDER TECHNOLOGY, vol.268, pp.110-117, 2014 (SCI-Expanded)
- XLV. **Effect of process parameters on the formation of Fe-Al intermetallic coating fabricated by mechanical alloying**  
ÇANAKÇI A., ERDEMİR F., VAROL T., ÖZKAYA S.  
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.21, no.6, pp.595-600, 2014 (SCI-Expanded)
- XLVI. **Microstructure and properties of AA7075/Al-SiC composites fabricated using powder metallurgy and hot pressing**  
ÇANAKÇI A., VAROL T.  
POWDER TECHNOLOGY, vol.268, pp.72-79, 2014 (SCI-Expanded)
- XLVII. **Physical and mechanical properties of stir-casting processed AA2024/B4Cp composites**  
ÇANAKÇI A., Arslan F., VAROL T.  
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.21, no.4, pp.505-515, 2014 (SCI-Expanded)
- XLVIII. **Microstructure and Abrasive Wear Behavior of CuSn10-Graphite Composites Produced by Powder Metallurgy**  
ÇANAKÇI A., ÇUVALCI H., VAROL T., ERDEMİR F., ÖZKAYA S., YALÇIN E. D.  
POWDER METALLURGY AND METAL CERAMICS, vol.53, pp.275-287, 2014 (SCI-Expanded)
- XLIX. **Prediction of Effect of Reinforcement Size and Volume Fraction on the Abrasive Wear Behavior of AA2014/B4Cp MMCs Using Artificial Neural Network**  
ÇANAKÇI A., ÖZŞAHİN Ş., VAROL T.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.39, no.8, pp.6351-6361, 2014 (SCI-Expanded)
- L. **Microstructure and properties of Fe-Al intermetallic coatings on the low carbon steel synthesized by mechanical alloying**  
ÇANAKÇI A., VAROL T., ERDEMİR F., ÖZKAYA S., Mindivan H.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.73, pp.849-858, 2014 (SCI-Expanded)
- LI. **Prediction of the influence of processing parameters on synthesis of Al2024-B4C composite powders in a planetary mill using an artificial neural network**  
VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş.  
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.21, no.3, pp.411-420, 2014 (SCI-Expanded)
- LII. **Prediction of the influence of processing parameters on synthesis of composite powders in planetary mill using artificial neural network**  
VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş.  
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.21, no.3, pp.411-420, 2014 (SCI-Expanded)
- LIII. **Synthesis of novel CuSn10-graphite nanocomposite powders by mechanical alloying**  
ÇANAKÇI A., VAROL T., ÇUVALCI H., ERDEMİR F., ÖZKAYA S., YALÇIN E. D.  
MICRO & NANO LETTERS, vol.9, no.2, pp.109-112, 2014 (SCI-Expanded)
- LIV. **Determining the effect of process parameters on particle size in mechanical milling using the Taguchi method: Measurement and analysis**  
ÇANAKÇI A., ERDEMİR F., VAROL T., Patir A.  
MEASUREMENT, vol.46, no.9, pp.3532-3540, 2013 (SCI-Expanded)
- LV. **Artificial neural network modeling to effect of reinforcement properties on the physical and mechanical properties of Al2024-B4C composites produced by powder metallurgy**  
VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş.  
COMPOSITES PART B-ENGINEERING, vol.54, pp.224-233, 2013 (SCI-Expanded)
- LVI. **Effect of weight percentage and particle size of B4C reinforcement on physical and mechanical properties of powder metallurgy Al2024-B4C composites**  
VAROL T., ÇANAKÇI A.

- METALS AND MATERIALS INTERNATIONAL, vol.19, no.6, pp.1227-1234, 2013 (SCI-Expanded)
- LVII. **Formation of Fe-Al intermetallic coating on low-carbon steel by a novel mechanical alloying technique**  
ÇANAKÇI A., ERDEMİR F., VAROL T., ÖZKAYA S.  
POWDER TECHNOLOGY, vol.247, pp.24-29, 2013 (SCI-Expanded)
- LVIII. **Effect of particle size and ratio of B4C reinforcement on properties and morphology of nanocrystalline Al2024-B4C composite powders**  
VAROL T., ÇANAKÇI A.  
POWDER TECHNOLOGY, vol.246, pp.462-472, 2013 (SCI-Expanded)
- LIX. **Effect of volume fraction and size of B4C particles on production and microstructure properties of B4C reinforced aluminium alloy composites**  
ÇANAKÇI A., Arslan F., VAROL T.  
MATERIALS SCIENCE AND TECHNOLOGY, vol.29, no.8, pp.954-960, 2013 (SCI-Expanded)
- LX. **Analysis of the effect of a new process control agent technique on the mechanical milling process using a neural network model: Measurement and modeling**  
ÇANAKÇI A., VAROL T., ÖZŞAHİN Ş.  
MEASUREMENT, vol.46, no.6, pp.1818-1827, 2013 (SCI-Expanded)
- LXI. **Synthesis and characterization of nanocrystalline Al 2024-B4C composite powders by mechanical alloying**  
VAROL T., ÇANAKÇI A.  
PHILOSOPHICAL MAGAZINE LETTERS, vol.93, no.6, pp.339-345, 2013 (SCI-Expanded)
- LXII. **Prediction of effect of volume fraction, compact pressure and milling time on properties of Al-Al203 MMCs using neural networks**  
ÇANAKÇI A., VAROL T., ÖZŞAHİN Ş.  
METALS AND MATERIALS INTERNATIONAL, vol.19, no.3, pp.519-526, 2013 (SCI-Expanded)
- LXIII. **STRUCTURAL EVOLUTION AND CHARACTERIZATION OF NANOSTRUCTURED Al-Al203 COMPOSITE FABRICATED BY MECHANICAL ALLOYING METHOD**  
ÇANAKÇI A., VAROL T.  
REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, vol.43, no.3, pp.312-319, 2013 (SCI-Expanded)
- LXIV. **Modeling the influence of a process control agent on the properties of metal matrix composite powders using artificial neural networks**  
ÇANAKÇI A., ÖZŞAHİN Ş., VAROL T.  
POWDER TECHNOLOGY, vol.228, pp.26-35, 2012 (SCI-Expanded)
- LXV. **Effects of amount of methanol on characteristics of mechanically alloyed Al-Al203 composite powders**  
ÇANAKÇI A., VAROL T., Nazik C.  
MATERIALS TECHNOLOGY, vol.27, no.4, pp.320-327, 2012 (SCI-Expanded)
- LXVI. **The effect of mechanical alloying on Al203 distribution and properties of Al203 particle reinforced Al-MMCs**  
ÇANAKÇI A., VAROL T., Ertok S.  
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.19, no.3, pp.227-235, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Electrodeposition of hard chromium on the interior surface of infantry rifle barrels: an experimental investigation**  
Yıldız U. T., VAROL T., AKÇAY S. B., PÜRÇEK G.  
The International Journal of Materials and Engineering Technology, vol.6, no.2, pp.66-69, 2023 (Peer-Reviewed Journal)

- II. **Selection of natural reinforcement material with multi-criteria decision-making methods for polymer composite materials developed for gun bodies**  
KANDEMİR Y., Varol T., aslan m.  
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.13, no.4, pp.911-926, 2023 (Peer-Reviewed Journal)
- III. **Intuitionistic Fuzzy Decision-Making Methodology for Barrel Material Selection**  
KANDEMİR Y., Varol T., Yıldız U. T.  
Karadeniz Fen Bilimleri Dergisi, vol.13, no.3, pp.814-832, 2023 (Peer-Reviewed Journal)
- IV. **Yüksek Al<sub>2</sub>O<sub>3</sub> Oranları ile Takviye Edilmiş Al-Cu-Mg Alaşımlarının Sıcak Pres Yöntemi ile Üretimi**  
AKÇAY S. B., VAROL T., AKSA H. C., GÜLER O.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.11, no.1, pp.111-124, 2023 (Peer-Reviewed Journal)
- V. **The Effect of Mechanical Alloying Time on the Hardness and Electrical Conductivity Properties of Cu-Cr Alloys Produced by Hot Pressing Method**  
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