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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAG-6554-2020

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Education Information

Doctorate, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Makina Müh.Bölümü, Turkey 2016 - 2021

Postgraduate, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Makina Müh.Bölümü, Turkey 2014 - 2016

Undergraduate, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Makina Müh.Bölümü, Turkey 2008 - 2013

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, The Production of Metal Matrix Composites with Different Alternative Binders and Mechanical Behaviors, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Makina Mühendisliği , 2021

Postgraduate, Investigation of tribological and mechanical properties of cryogenic treated micro alloyed steels, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 2016

Research Areas

Mechanical Engineering, Construction and Manufacturing, Tribology, Casting Methods, Welding Methods, Material, Plastic Forming Methods, Machining Methods, Metallurgical and Materials Engineering, Material science and engineering, Testing and Control of Materials, Mechanical Properties, Composites, Thermal Treatment, Plating, Material Characterization, Metallic Materials, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Makina Müh.Bölümü, 2014 - Continues

Research Assistant, Ted University, Faculty Of Engineering, Department Of Mechanical Engineering, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of High-Chromium Ferrous-Based TiC Composite Coating on Microstructural and Corrosion Properties of Steels**
BUYTOZ S., Demiroeren H., KAYA E.
TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, vol.76, no.8, pp.2201-2210, 2023 (SCI-Expanded)
- II. **Tribomechanical and microstructural properties of cathodic arc-deposited ternary nitride coatings**
KAYA E., ULUTAN M.
Ceramics International, vol.48, pp.21305-21316, 2022 (SCI-Expanded)
- III. **Enhancement on the Tool Steel's Surface Properties by Eta Carbide Distribution Mechanism of Cryogenic Treatment**
KAYA E., KILIÇAY K., ULUTAN M.
TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, vol.73, no.10, pp.2673-2682, 2020 (SCI-Expanded)
- IV. **Microstructure and Tribological Properties of Tool Steel AISI O2 After Thorough Cryogenic Heat Treatment**
KAYA E., KILIÇAY K., ULUTAN M.
METAL SCIENCE AND HEAT TREATMENT, vol.62, pp.399-404, 2020 (SCI-Expanded)
- V. **Improvement of microstructural and tribological properties of APS carbide coatings via PTA surface melting**
KILIÇAY K., KAYA E.
TRANSACTIONS OF THE INSTITUTE OF METAL FINISHING, vol.98, no.3, pp.129-137, 2020 (SCI-Expanded)
- VI. **Tribological and Mechanical Properties of Deep Cryogenically Treated Medium Carbon Micro Alloy Steel**
KAYA E., ULUTAN M.
METALS AND MATERIALS INTERNATIONAL, vol.23, no.4, pp.691-698, 2017 (SCI-Expanded)
- VII. **Plasma transferred arc surface modification of atmospheric plasma sprayed ceramic coatings**
ULUTAN M., KILIÇAY K., KAYA E., BAYAR İ.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.30, no.8, pp.3813-3818, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **The Investigation of Production Parameters and Their Effect on the Tribomechanical Properties of the Compression Molded Polymeric Bearing Materials**
KAYA E.
Journal of Materials and Mechatronics:A (Online), vol.1, no.1, pp.38-49, 2023 (Peer-Reviewed Journal)
- II. **Nano WC Kompozitlerde Fe-Ni Oranın Mikroyapı ve Mekanik Özelliklere Etkisi**
KAYA E., ULUTAN M.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.11, no.1, pp.376-393, 2023 (Peer-Reviewed Journal)
- III. **The evaluation Of The Non-Toxic Ferrous Matrix Based WC Reinforced Composites: A Review**
KAYA E., ULUTAN M.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.18, no.2, pp.129-139, 2022 (Peer-Reviewed Journal)
- IV. **The Effects of Different Heat Treatment and Coating Techniques on X120CrMo29-2 Martensitic Stainless Steel**
KAYA E., ULUTAN M., Akbulut A.
Journal of Scientific Reports-A, vol.49, no.2, pp.62-73, 2022 (Peer-Reviewed Journal)
- V. **Investigation Of Tribological And Mechanical Performance Of Cryogenic Treated Medium Carbon Steel, 38mnvs6**
KAYA E., ULUTAN M., KILIÇAY K., BAYAR İ.
Journal Of The Balkan Tribological Association, vol.617, no.627, pp.26-4, 2020 (Scopus)
- VI. **Experimental study on Tribological Performance of SiC Composite Coating Layers**

Books & Book Chapters

- I. **Green Applications with an Advanced Manufacturing Method: Cold Spray Deposition Technology**
Kılıçay K., Dayı S. C., Kaya E., Gürgen S.
in: Advanced Manufacturing Methods: Smart Processes and Modeling for Optimization, Catalin Pruncu, Jamal Zbitou, Editor, CRC, New York, New York, pp.28-56, 2022
- II. **Green Applications with an Advanced Manufacturing Method: Cold Spray Deposition Technology**
KILIÇAY K., DAYI S. C., KAYA E., GÜRGEN S.
in: Advanced Manufacturing Methods Smart Processes and Modeling for Optimization, Catalin I. Pruncu, Jamal Zbitou, Editor, CRC Press, Boca Raton, pp.27-56, 2022
- III. **Aluminum-Lithium Alloys in Aircraft Structures**
Kaya E., Sheikhi M. R., Gürgen S., Kuşhan M. C.
in: Materials, Structures & Manufacturing for Aircraft, Kuşhan Melih Cemal, Gürgen Selim, Sofuoğlu Mehmet Alper, Editor, Springer Nature Switzerland AG, Zürich, pp.1-25, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of the Effect of Different Process Parameters on the Machinability of Ti6Al4V Alloy By Finite Element Method**
KAYA E., KILIÇAY K.
3. International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, IMSMATEC'20, (Online Sempozyum), 24 - 26 June 2020
- II. **Effect of Hertzian Contact Pressure on Tribological Behaviour of Mild Carbon Steel**
GÜLEŞEN M., KILIÇAY K., KAYA E.
Proceedings of XII International scientific conference "Tribology for Mechanical Engineering" TRIBOMASH 2018, Moscow, Russia, Russia, 19 - 21 October 2018
- III. **Experimental Investigation of Different Hard Carbide Layers Coated by Flame Spray Technic on 90MnCrV8**
KILIÇAY K., BAYAR İ., KAYA E., ULUTAN M.
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, İzmir, Turkey, İzmir, Turkey, 10 - 12 April 2018
- IV. **Effect of Different Heat Inputs on Microstructure and Hardness in PTA Layers**
KILIÇAY K., BAYAR İ., KAYA E., ULUTAN M.
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, İzmir, Turkey, İzmir, Turkey, 10 - 12 April 2018
- V. **Precise Measurement of Wear Rate Method for ASTM G-99 Wear Test**
KAYA E., KILIÇAY K., BAYAR İ., ULUTAN M.
1st International Symposium On Innovative Approches In Scientific Studies, Antalya, Turkey, Antalya, Turkey, 11 - 13 April 2018
- VI. **A Comparative Study of Quantitative Image Analyze and X-Ray Diffraction Methods for Carbide Amount in composite coatings on steel**
KILIÇAY K., KAYA E., BAYAR İ., ULUTAN M.
1st International Symposium On Innovative Approches In Scientific Studies, Antalya, Turkey, Antalya, Turkey, 11 - 13 April 2018
- VII. **Numerical and Analytical Analysis of Hertz Contact Pressure in ASTM G99 Wear Test**
KAYA E., KILIÇAY K., ULUTAN M.

1st International Symposium On Innovative Approches In Scientific Studies, Antalya, Turkey, Antalya, Turkey, 11 - 13 April 2018

VIII. Investigation of Process Parameters of AISI 304 Fiber Cut with Fiber Laser

BAYAR İ., KILIÇAY K., KAYA E., ULUTAN M., AKMAN D.

International Congress On Applied Science And technology, Astech'2017, Malaga, Spain, Malaga, Spain, 17 - 20 April 2017

IX. Investigation of Microstructure and Tribological Properties of Molybdenum Coatings

BAYAR İ., ULUTAN M., KILIÇAY K., KAYA E.

International Congress On Applied Science And technology, Astech'2017, Malaga, Spain, Malaga, Spain, 17 - 20 April 2017

X. Experimental Study on Tribological Performance of SiC Composite Coating Layers

KILIÇAY K., ULUTAN M., KAYA E., BAYAR İ.

3rd International Iron Steel Symposium (UDCS'17), Karabük, Turkey, Karabük, Turkey, 3 - 05 April 2017

XI. Investigation of Tribological and Mechanical Performance of Cryogenic Treated Medium Carbon Steel, 38MnVS6

KAYA E., ULUTAN M., KILIÇAY K., BAYAR İ.

3rd International Iron and Steel Symposium (UDCS'17), Karabük, Turkey, Karabük, Turkey, 3 - 05 April 2017, pp.460-464

XII. EFFECT OF AUSTENITIZATION TEMPERATURE ON TRIBOLOGICAL BEHAVIOUR OF MICRO ALLOYED STEEL

ULUTAN M., KILIÇAY K., KAYA E.

International Conference on Material Science and Technology in Cappadocia(IMSTEC 2016), 6 - 08 April 2016

Expert Reports

I. Bilirkişi Raporu

Kuşhan M. C., Ay G. M., Kaya E.

Eskişehir Tüketici Mahkemesi, pp.3, Eskişehir, 2022

Supported Projects

ULUTAN M., KAYA E., Project Supported by Higher Education Institutions, Farklı Alternatif Bağlayıcı Metal Matrisli Kompozitlerin Üretilmesi Ve Mekanik Davranışlarının Araştırılması, 2019 - 2022

ULUTAN M., KAYA E., Project Supported by Higher Education Institutions, Kriyojenik buzul işlem uygulanmış mikro alaşımlı çeliklerin tribolojik ve mekanik özelliklerinin incelenmesi, 2015 - 2016

Scientific Refereeing

INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING, SCI Journal, January 2023

MATERIAL SCIENCE AND TECHNOLOGY, SCI Journal, November 2022

ACS OMEGA, SCI Journal, July 2022

SURFACE AND COATINGS TECHNOLOGY, SCI Journal, July 2022

CRYOGENICS, SCI Journal, February 2022

SURFACE & COATINGS TECHNOLOGY, SCI Journal, January 2022

INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING, SCI Journal, November 2021

SURFACE & COATINGS TECHNOLOGY, SCI Journal, October 2021

JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, SCI Journal, October 2021

INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING, SCI Journal, September 2021

SURFACE & COATINGS TECHNOLOGY, SCI Journal, August 2021

SURFACE & COATINGS TECHNOLOGY, SCI Journal, May 2021

Metrics

Publication: 29

Citation (WoS): 31

Citation (Scopus): 37

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H-Index (Scopus): 3