

Asst. Prof. EMRE AKIN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAO-8953-2020

ScopusID: 57193812982

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Education Information

Doctorate, Marmara University, Faculty of Engineering, Metallurgical and Material Engineering, Turkey 2017 - 2022

Postgraduate, Marmara University, Faculty of Engineering, Metallurgical and Material Engineering, Turkey 2013 - 2017

Undergraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2005 - 2010

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, PRODUCTION AND CHARACTERIZATION OF LOW MASS HIGH TEMPERATURE RESISTANT POLYMER-BASED ADVANCED COMPOSITE MATERIAL, Marmara University, Faculty of Engineering, Metallurgical and Material Engineering, 2022

Postgraduate, Synthesis and characterization of novel polyimide for hydrophobic coating, Marmara Üniversitesi, Faculty of Engineering, Metallurgical and Material Engineering, 2017

Research Areas

Material science and engineering, Mechanical Properties, Composites, Adhesion and Adhesives, Polymeric Materials, Plating, Material Characterization, Thermal Properties, Structure-Property Relationship

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Technology, Metallurgical and Materials Engineering, 2023 - Continues

Research Assistant PhD, Marmara University, Faculty of Technology, Metallurgical and Materials Engineering, 2022 -

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Multi-featured epoxy composites filled with surface-modified PTFE powders treated by Naphthalenide system**
AKIN E., ÇAKIR M., DEMİRER H.
Journal of Applied Polymer Science, vol.141, no.7, 2024 (SCI-Expanded)
- II. **Wear, thermal, corrosion, and physical properties of novel UV-cured nanocomposite hybrid coatings with fluorine-containing silica networks**
ÇAKIR M., AKIN E., Günsay K., ARTIR R.
Journal of Coatings Technology and Research, 2024 (SCI-Expanded)
- III. **Mechanical properties of carbon-aramid hybrid fiber-reinforced epoxy/poly(vinyl butyral) composites**
ÇAKIR M., AKIN E., Renda G.
Polymer Composites, vol.44, no.8, pp.4826-4841, 2023 (SCI-Expanded)
- IV. **Characterization of carbon fiber-reinforced thermoplastic and thermosetting polyimide matrix composites manufactured by using various synthesized PI precursor resins**
ÇAKIR M., AKIN E.
Composites Part B: Engineering, vol.231, 2022 (SCI-Expanded)
- V. **Mechanical properties of low-density heat-resistant polyimide-based advanced composite sandwich panels**
Çakır M., Akın E.
POLYMER COMPOSITES, vol.43, no.2, pp.827-847, 2022 (SCI-Expanded)
- VI. **Coating properties of 1H,1H-perfluorooctylamine-terminated polyimides based on hexafluoroisopropylidene diphthalic anhydride and 1,4,5,8 naphthalenetetracarboxylic dianhydride**
ÇAKIR M., AKIN E., ARTIR R.
JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH, vol.16, no.3, pp.699-710, 2019 (SCI-Expanded)
- VII. **Wear, thermal, and physical properties of fluorine-containing polyimide/silica hybrid nanocomposite coatings**
ÇAKIR M., AKIN E.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.136, no.16, 2019 (SCI-Expanded)
- VIII. **Magnetic and microwave absorption properties of PVB/Fe₃O₄ and PVB/NiFe₂O₄ composites**
AKINAY Y., HAYAT F., ÇAKIR M., AKIN E.
POLYMER COMPOSITES, vol.39, no.10, pp.3418-3423, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Characterization of Coating Properties of UV-curable Fluorine-Containing Coatings**
ÇAKIR M., AKIN E., ulak p.
El-Cezeri Fen ve Mühendislik Dergisi, vol.5, pp.836-844, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis and Characterization of Flexible Butadien Containing Resin for 3D SLA Printers**
Akın E., Çakır M., Berberoğlu B.
Global Summit on Advanced Materials and Sustainable Energy, Van, Turkey, 3 - 04 October 2022

- II. **URETHANE ACRYLATE AND SILICON ACRYLATE CONTAINING NOVEL EPOXY ACRYLATE SYSTEMS FOR SLA 3D PRINTERS**
Çakır M., Akin E., Berberoğlu B.
International Congress on Innovation Technologies & Engineering, İzmir, Turkey, 2 - 04 September 2022
- III. **PREPERATION AND CHARACTERIZATION OF NOVEL MODIFIED GRAPHENE OXIDE REINFORCED NANOCOMPOSITE MATERIALS BY SLA 3D PRINTER**
Akin E., Çakır M., Berberoğlu B.
2rd International Natural Science, Engineering and Materials Technology Conference, Kırklareli, Turkey, 15 - 17 September 2022
- IV. **Synthesis and Characterization of Flexible Polydimethylsiloxane Containing Resin for 3D SLA Printers**
Akin E., Çakır M., Berberoğlu B.
Global Summit on Advanced Materials and Sustainable Energy, Van, Turkey, 3 - 04 October 2022
- V. **MECHANICAL PROPERTIES OF EPOXY/PVB BLENDS BY SOLUTION CASTING**
ÇAKIR M., AKIN E., RENDA G.
The International Conference on Material Science and Technology (IMSTEC 2019), 18 - 20 October 2019
- VI. **Investigation Of Thermal And Surface Properties Of Transparent Polyurethane Coatings Containing Fluorine Chains**
ÇAKIR M., AKIN E., KURT M. B.
The International Aluminium-Themed Engineering And Natural Sciences Conference, 2 - 04 October 2019
- VII. **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, 2 - 04 October 2019
- VIII. **INVESTIGATION OF THE EFFECT OF BLOWING AGENT AND SURFACTANT CONCENTRATION ON ISOCYANATE-BASED POLYIMIDE FOAMS**
kılıç v., AKIN E., ÇAKIR M., topcu H. M.
IV INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS) 02-06 MAY 2018, UKRAINE, 2 - 06 May 2018
- IX. **INVESTIGATION OF THE EFFECT OF GRAPHENE OXIDE CONCENTRATION ON ISOCYANATE-BASED POLYIMIDE FOAMS**
kılıç v., AKIN E., ÇAKIR M., topcu H. M.
IV INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS) 02-06 MAY 2018, UKRAINE, 2 - 06 May 2018
- X. **Preparation and study on radar absorbing materials of epoxy-Fe₃O₄ composites and the influence of PANI on microwave absorbing properties of NiFe₂O₄/PVB composites**
AKINAY Y., HAYAT F., AKIN E., ÇAKIR M.
20th International Conference on Advanced Nanotechnology, Netherlands, 11 September - 12 December 2017, vol.3, pp.3043-3050
- XI. **Investigation on Coating Properties of Epoxyacrylate Containing Long Fluorine Chains Cured by UV method**
AKIN E., ÇAKIR M., Ulak P., Topcu H. M., Kılıç V.
Joint Science Congress of Materials and Polymers, 23 - 28 August 2017
- XII. **Determining the Coating Performance of UV Curable Hydrophobic Coating onto PMMA**
ÇAKIR M., AKIN E., TOPCU H. M., KILIÇ V.
Joint Science Congress of Materials and Polymers, 23 - 28 August 2017
- XIII. **Preparation of Graphene Oxide Containing Isocyanate-based Polyimide Foam**
KILIÇ V., AKIN E., ÇAKIR M., TOPCU H. M.
Joint Science Congress of Materials and Polymers, 23 - 28 August 2017
- XIV. **TWO STEP METHOD FOR PRODUCING SILICA AEROGEL**
Topcu H. M., ÇAKIR M., AKIN E., Kılıç V.

Joint Science Congress of Materials and Polymers, 23 - 28 August 2017

XV. Synthesis and characterization of novel polyimide for hydrofobic coating

AKIN E., ÇAKIR M., ARTIR R.

16 th International Materials Symposium (IMSP'2016), Denizli, Turkey, 12 - 14 October 2016, pp.1529-1536

XVI. Mechanical, Thermal and Surface Properties of a Novel Hybrid Polyimide Containing Fluorine Chains

Akın E., Çakır M., Akınay Y.

European Advanced Materials Congress, Stockholm, Sweden, 23 - 25 August 2016

Scientific Refereeing

Journal of Innovative Engineering and Natural Science, National Scientific Refreed Journal, December 2022

POLYMER COMPOSITES, SCI Journal, September 2022

Journal of Innovative Engineering and Natural Science, National Scientific Refreed Journal, July 2022

POLYMER COMPOSITES, SCI Journal, March 2022

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, March 2022

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, February 2022

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, February 2022

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, January 2022

POLYMER COMPOSITES, SCI Journal, January 2022

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, January 2022

MACROMOLECULAR MATERIALS AND ENGINEERING, SCI Journal, September 2021

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, August 2021

IRANIAN POLYMER JOURNAL, SCI Journal, May 2021

IRANIAN POLYMER JOURNAL, SCI Journal, April 2021

IRANIAN POLYMER JOURNAL, SCI Journal, March 2021

IRANIAN POLYMER JOURNAL, SCI Journal, February 2021

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, November 2020

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, September 2020

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, June 2020

IRANIAN POLYMER JOURNAL, SCI Journal, May 2020

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, May 2020

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, April 2020

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, March 2020

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, March 2020

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, February 2020

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, October 2018

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, June 2018

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, May 2018

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, May 2018

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, February 2018

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, October 2017

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, September 2017

Metrics

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