

# Prof. CEVDET KAYNAK

## Personal Information

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## Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 1988 - 1994

Post Graduate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 1985 - 1988

Under Graduate, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey 1980 - 1985

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Behaviour of short fatigue cracks in a steel with elongated inclusions, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1994

Post Graduate, Growth of short fatigue cracks in 2024-T3 aluminum alloy, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1988

## Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Composites, Polymeric Materials, Nanomaterials, Cellulosic Materials, Engineering and Technology

## Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2006 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2000 - 2006

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1997 - 2000

Expert, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1994 - 1997

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1985 - 1994

## Professional Experience

Mevlana Exchange Program Coordinator, Middle East Technical University, Faculty of Engineering, Department of

Metallurgical and Materials Engineering, 2014 - Continues

Erasmus Coordinator, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2004 - Continues

Head of Department, Middle East Technical University, Graduate School of Natural and Applied Sciences, Polimer Bilimi Ve Teknolojisi (Y) (Tezli), 2008 - 2010

Fakülte Yönetim Kurulu Üyesi, Middle East Technical University, Faculty of Engineering, 1997 - 2000

## Courses

MATERIALS PROCESSING LABORATORY, Under Graduate, 2018 - 2019

FUNDAMENTALS OF MATERIALS SCIENCE AND ENGINEERING, Under Graduate, 2018 - 2019

## Advising Theses

KAYNAK C., Effects of titania particles on the behaviors of polylactide based composites, Post Graduate, U.CAN(Student), 2018

KAYNAK C., ÜNALAN H. E. , Antimicrobial properties of 3d printed silver nanowire/polylactide nanocomposites, Post Graduate, İ.BAYRAKTAR(Student), 2018

KAYNAK C., Synthesis and characterization of conjugated polymers with polyhedral oligomeric silsesquioxane pendant groups, Doctorate, S.ERTAN(Student), 2017

KAYNAK C., Effects of glass fiber content, 3D-printing and weathering on the performance of polylactide, Post Graduate, S.DENİZ(Student), 2017

KAYNAK C., ÜNALAN H. E. , Production and characterization of polylactide/silver nanowire nanocomposite films, Post Graduate, D.DOĞANAY(Student), 2016

KAYNAK C., Properties of polylactide / montmorillonite nanocomposites: Before and after weathering, Post Graduate, B.SARI(Student), 2015

KAYNAK C., Behaviors of polylactide biocomposites reinforced with microcrystalline cellulose, Post Graduate, B.DOĞU(Student), 2015

KAYNAK C., Toughening of polylactide by blending with various elastomeric materials, Post Graduate, Y.MEYVA(Student), 2014

KAYNAK C., Effects of halloysite nanotubes on the mechanical, crystallization, and weathering behaviour of polylactide, Post Graduate, İ.KAYGUSUZ(Student), 2014

KAYNAK C., Contribution of boron compounds and nanoclays on the flame retardancy of aluminium diethylphosphinate in neat and fiber reinforced polyamide-6, Doctorate, O.POLAT(Student), 2014

KAYNAK C., AKATA KURÇ B., Effects of oxidative functionalized and aminosilanized carbon nanotubes on the behaviours of polyamide-6 nanocomposites, Post Graduate, S.ŞANKAL(Student), 2013

KAYNAK C., Use of boron compounds as synergistic flame retardant in low density polyethylene ethylene vinyl acetate blends and nanocomposites, Post Graduate, E.İBİBKAN(Student), 2013

KAYNAK C., PRODUCTION OF SPECTRAL FLARE COMPOSITES AND INVESTIGATION OF POLYMERIC BINDER EFFECT ON RADIOMETRIC PROPERTIES, Doctorate, S.YAYLA(Student), 2013

KAYNAK C., HACALOĞLU J., Effects of nanoparticles on thermal characteristics of polyamide-6, polylactic acid and polystyrene involving various flame retardants, Doctorate, H.KAYA(Student), 2013

KAYNAK C., Flame retardancy of polymer nanocomposites, Doctorate, N.ALİ(Student), 2012

KAYNAK C., Effects of nanoadditives and different conventional flame retardants on the flammability of polystyrene, Post Graduate, B.MELİKE(Student), 2012

KAYNAK C., Flame retardancy effects of zinc borate and nanoclay in ABS and boron compounds in PET, Post Graduate, A.ÇAĞIL(Student), 2011

KAYNAK C., A study on the effects of gamma radiation on the properties of polycarbonate, Post Graduate, K.GÖKHAN(Student), 2011

KAYNAK C., Flame retardancy of polyamide compounds and micro/nano composites, Post Graduate, H.ÖZGÜR(Student), 2009

KAYNAK C., TİNCER İ. T. , Photo-oxidative degradation of ABS copolymer, Post Graduate, A.GÜZEL(Student), 2009

Kaynak C., Surface Modification of Resadiye Layered Silicates to be Used in Polymer Nanocomposites, Post Graduate, G.İPEK(Student), 2006

KAYNAK C., Effects of mold temperature and vacuum in resin transfer molding, Post Graduate, E.AKGÜL(Student), 2006

KAYNAK C., Production and characterization of resol type phenolic resin/layered silicate nanocomposites, Post Graduate, C.CEM(Student), 2005

KAYNAK C., Rubber toughening of phenolic resin by using nitrile rubber and amino silane, Post Graduate, O.ÇAĞATAY(Student), 2005

KAYNAK C., Experimental investigation for mechanical properties of filament-wound composite tubes, Post Graduate, E.SALİH(Student), 2004

KAYNAK C., Effects of injection pressure and post-curing on the behaviour of woven carbon fiber/ epoxy composites produced by RTM (resin transfer molding), Post Graduate, Y.ONUR(Student), 2002

KAYNAK C., TİNCER İ. T. , A Study on the flexibility of short carbon fiber reinforced epoxy composites, Post Graduate, Ö.ORGUN(Student), 2002

KAYNAK C., TİNCER İ. T. , Flexibility improvement of short glass fiber reinforced epoxy, Post Graduate, A.ARIKAN(Student), 2001

KAYNAK C., Studies to increase the toughness of epoxy matrices, Post Graduate, C.ÇELİKBİLEK(Student), 2001

KALKANLI A., KAYNAK C., Fatigue behavior of aluminum matrix SiC particulate reinforced composites, Post Graduate, K.SÜHA(Student), 2001

KAYNAK C., TİNCER İ. T. , Flexibility improvement of epoxy resin used in fiber reinfor composites, Post Graduate, A.ÖZTÜRK(Student), 2000

Akovalı G., Kaynak C., Studies on Epoxy Modified with Recycled Rubber, Post Graduate, E.SİPAHI(Student), 1999

KAYNAK C., Fatigue behaviour of filament wound composite tubes under axial loading, Post Graduate, O.MAT(Student), 1999

## Jury Memberships

Award, ODTÜ Prof. Dr. Mustafa N. Parlar Eğitim ve Araştırma Vakfı, Orta Doğu Teknik Üniversitesi, October, 2018

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, June, 2018

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Performance of polylactide against UV irradiation: Synergism of an organic UV absorber with micron and nano-sized TiO<sub>2</sub>**  
CAN U., KAYNAK C.  
JOURNAL OF COMPOSITE MATERIALS, vol.54, pp.2489-2504, 2020 (Journal Indexed in SCI)
- **Contribution of carbon nanotubes to vibration damping behavior of epoxy and its carbon fiber composites**  
Avil E., Kadioglu F., KAYNAK C.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.39, pp.311-323, 2020 (Journal Indexed in SCI)
- **Effects of micro-nano titania contents and maleic anhydride compatibilization on the mechanical performance of polylactide**  
CAN U., KAYNAK C.  
POLYMER COMPOSITES, vol.41, pp.600-613, 2020 (Journal Indexed in SCI)
- **3D printed antibacterial silver nanowire/polylactide nanocomposites**  
Bayraktar I., DOĞANAY D., Coskun S., KAYNAK C., Akca G., ÜNALAN H. E.  
Composites Part B: Engineering, vol.172, pp.671-678, 2019 (Journal Indexed in SCI)
- **Performance comparison of the 3D-printed and injection-molded PLA and its elastomer blend and fiber composites**  
KAYNAK C., Varsavas S. D.  
JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, vol.32, pp.501-520, 2019 (Journal Indexed in SCI)
- **Loss of thermoplastic elastomer toughening in polylactide after weathering**  
Meyva-Zeybek Y., KAYNAK C.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.136, 2019 (Journal Indexed in SCI)

- **Effects of Zinc Borate on the Flame Retardancy Performance of Aluminum Diethylphosphinate in Polyamide-6 and its Composites**

POLAT Ö., KAYNAK C.

INTERNATIONAL POLYMER PROCESSING, vol.34, pp.59-71, 2019 (Journal Indexed in SCI)

- **Weathering degradation performance of PLA and its glass fiber reinforced composite**

Varsavas S. D. , Kaynak C.

MATERIALS TODAY COMMUNICATIONS, vol.15, pp.344-353, 2018 (Journal Indexed in SCI)

- **A Platform to Synthesize a Soluble Poly(3,4-Ethylenedioxythiophene) Analogue**

Ertan S., KAYNAK C., Cihaner A.

JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.55, pp.3935-3941, 2017 (Journal Indexed in SCI)

- **Use of boron oxide and boric acid to improve flame retardancy of an organophosphorus compound in neat and fiber reinforced polyamide-6**

POLAT O., KAYNAK C.

JOURNAL OF VINYL & ADDITIVE TECHNOLOGY, vol.22, pp.300-310, 2016 (Journal Indexed in SCI)

- **Electrical, mechanical and thermal properties of aligned silver nanowire/poly lactide nanocomposite films**

DOĞANAY D., Coskun S., KAYNAK C., ÜNALAN H. E.

COMPOSITES PART B-ENGINEERING, vol.99, pp.288-296, 2016 (Journal Indexed in SCI)

- **Effects of Accelerated Weathering in Poly lactide Biocomposites Reinforced with Microcrystalline Cellulose**

KAYNAK C., Dogu B.

INTERNATIONAL POLYMER PROCESSING, vol.31, pp.410-422, 2016 (Journal Indexed in SCI)

- **Thermal degradation of polystyrene composites. Part II. The effect of nanoclay**

KAYA H., KAYNAK C., HACALOĞLU J.

JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.120, pp.194-199, 2016 (Journal Indexed in SCI)

- **Mechanical and thermal properties of poly lactide/talc microcomposites: before and after accelerated weathering**

KAYNAK C., ERDOĞAN A. R.

POLYMERS FOR ADVANCED TECHNOLOGIES, vol.27, pp.812-822, 2016 (Journal Indexed in SCI)

- **Effects of nanoparticles on thermal degradation of poly lactide/aluminium diethyl phosphinate composites**

Kaya H., Özdemir E., Kaynak C., Hacaloğlu J.

JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.118, pp.115-122, 2016 (Journal Indexed in SCI)

- **Accelerated weathering performance of poly lactide and its montmorillonite nanocomposite**

KAYNAK C., SARI B.

APPLIED CLAY SCIENCE, vol.121, pp.86-94, 2016 (Journal Indexed in SCI)

- **Consequences of accelerated weathering in poly lactide nanocomposites reinforced with halloysite nanotubes**

KAYNAK C., KAYGUSUZ I.

JOURNAL OF COMPOSITE MATERIALS, vol.50, pp.365-375, 2016 (Journal Indexed in SCI)

- **Behavior of poly lactide/microcrystalline cellulose biocomposites: effects of filler content and interfacial compatibilization**

DOĞU B., KAYNAK C.

CELLULOSE, vol.23, pp.611-622, 2016 (Journal Indexed in SCI)

- **Influences of three different ethylene copolymers on the toughness and other properties of poly lactide**

MEYVA Y., KAYNAK C.

PLASTICS RUBBER AND COMPOSITES, vol.45, pp.189-198, 2016 (Journal Indexed in SCI)

- **Toughening of Poly lactide by Bio-Based and Petroleum-Based Thermoplastic Elastomers**

Meyva Y., KAYNAK C.

INTERNATIONAL POLYMER PROCESSING, vol.30, pp.593-602, 2015 (Journal Indexed in SCI)

- **Effects of oxidative functionalization and aminosilanization of carbon nanotubes on the mechanical and thermal properties of polyamide 6 nanocomposites**

KAYNAK C., ŞANKAL S.

JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, vol.28, pp.1321-1333, 2015 (Journal Indexed in SCI)

- **Influences of halloysite nanotubes on crystallisation behaviour of polylactide**  
Kaygusuz I., KAYNAK C.  
PLASTICS RUBBER AND COMPOSITES, vol.44, pp.41-49, 2015 (Journal Indexed in SCI)
- **Influences of nanoclays on the flame retardancy of fiber-filled and unfilled polyamide-6 with and without aluminum diethylphosphinate**  
KAYNAK C., Polat O.  
JOURNAL OF FIRE SCIENCES, vol.33, pp.87-112, 2015 (Journal Indexed in SCI)
- **Use of maleic anhydride compatibilization to improve toughness and other properties of polylactide blended with thermoplastic elastomers**  
Kaynak C., Meyva Y.  
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.25, pp.1622-1632, 2014 (Journal Indexed in SCI)
- **Influences of aminosilanization of halloysite nanotubes on the mechanical properties of polyamide-6 nanocomposites**  
Erdogan A. R. , Kaygusuz I., KAYNAK C.  
POLYMER COMPOSITES, vol.35, pp.1350-1361, 2014 (Journal Indexed in SCI)
- **Effects of oxidative functionalized and aminosilanized carbon nanotubes on the crystallization behaviour of polyamide-6 nanocomposites**  
KAYNAK C., Sankal S.  
POLYMER BULLETIN, vol.71, pp.855-873, 2014 (Journal Indexed in SCI)
- **Usability of three boron compounds for enhancement of flame retardancy in polyethylene-based cable insulation materials**  
İBİBKAN E., KAYNAK C.  
JOURNAL OF FIRE SCIENCES, vol.32, pp.99-120, 2014 (Journal Indexed in SCI)
- **Contribution of nanoclays to the flame retardancy of polyethylene-based cable insulation materials with aluminum hydroxide and zinc borate**  
KAYNAK C., İbikcan E.  
JOURNAL OF FIRE SCIENCES, vol.32, pp.121-144, 2014 (Journal Indexed in SCI)
- **Use of zinc borate as the third component of a traditional brominated flame retardant system in acrylonitrile butadiene styrene**  
KAYNAK C., ÖZKARACA A. C.  
FIRE AND MATERIALS, vol.37, pp.491-502, 2013 (Journal Indexed in SCI)
- **Effects of nanoclays on the flammability of polystyrene with triphenyl phosphate-based flame retardants**  
KAYNAK C., Sipahioğlu B. M.  
JOURNAL OF FIRE SCIENCES, vol.31, pp.339-355, 2013 (Journal Indexed in SCI)
- **Using various techniques to characterize oxidative functionalized and aminosilanized carbon nanotubes for polyamide matrix**  
Sankal S., KAYNAK C.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.32, pp.75-86, 2013 (Journal Indexed in SCI)
- **Effect of partial substitution of aluminum hydroxide with colemanite in fire retarded low-density polyethylene**  
İsitman N. A. , KAYNAK C.  
JOURNAL OF FIRE SCIENCES, vol.31, pp.73-84, 2013 (Journal Indexed in SCI)
- **The role of nanoparticle geometry in flame retardancy of polylactide nanocomposites containing aluminium phosphinate**  
İsitman N. A. , DOĞAN M., BAYRAMLI E., KAYNAK C.  
POLYMER DEGRADATION AND STABILITY, vol.97, pp.1285-1296, 2012 (Journal Indexed in SCI)
- **On the use of magnesium hydroxide towards halogen-free flame-retarded polyamide-6/polypropylene blends**  
Balakrishnan H., HASSAN A., İŞITMAN N. A. , KAYNAK C.  
POLYMER DEGRADATION AND STABILITY, vol.97, pp.1447-1457, 2012 (Journal Indexed in SCI)
- **Nanomorphology and fire behavior of polystyrene/organoclay nanocomposites containing brominated**

**epoxy and antimony oxide**

Isitman N. A. , Sipahioglu B. M. , KAYNAK C.

POLYMERS FOR ADVANCED TECHNOLOGIES, vol.23, pp.984-991, 2012 (Journal Indexed in SCI)

- **Thermal degradation of organophosphorus flame-retardant poly(methyl methacrylate) nanocomposites containing nanoclay and carbon nanotubes**  
ORHAN T., Isitman N. A. , HACALOĞLU J., KAYNAK C.  
POLYMER DEGRADATION AND STABILITY, vol.97, pp.273-280, 2012 (Journal Indexed in SCI)
- **Contribution of Nanoclays to the Performance of Traditional Flame Retardants in ABS**  
Ozkaraca A. C. , KAYNAK C.  
POLYMER COMPOSITES, vol.33, pp.420-429, 2012 (Journal Indexed in SCI)
- **Interactions at fiber/matrix interface in short fiber reinforced amorphous thermoplastic composites modified with micro- and nano-fillers**  
Isitman N. A. , Aykol M., KAYNAK C.  
JOURNAL OF MATERIALS SCIENCE, vol.47, pp.702-710, 2012 (Journal Indexed in SCI)
- **Nanostructure of montmorillonite barrier layers: A new insight into the mechanism of flammability reduction in polymer nanocomposites**  
Isitman N. A. , KAYNAK C.  
POLYMER DEGRADATION AND STABILITY, vol.96, pp.2284-2289, 2011 (Journal Indexed in SCI)
- **Thermal degradation mechanisms of aluminium phosphinate, melamine polyphosphate and zinc borate in poly(methyl methacrylate)**  
Orhan T., Isitman N. A. , Hacaloğlu J., Kaynak C.  
POLYMER DEGRADATION AND STABILITY, vol.96, pp.1780-1787, 2011 (Journal Indexed in SCI)
- **Synergistic fire retardancy of colemanite, a natural hydrated calcium borate, in high-impact polystyrene containing brominated epoxy and antimony oxide**  
KAYNAK C., Isitman N. A.  
POLYMER DEGRADATION AND STABILITY, vol.96, pp.798-807, 2011 (Journal Indexed in SCI)
- **Fire Retardant Properties of Intumescent Polypropylene Composites Filled With Calcium Carbonate**  
Isitman N. A. , Dogan M., Bayramli E., KAYNAK C.  
POLYMER ENGINEERING AND SCIENCE, vol.51, pp.875-883, 2011 (Journal Indexed in SCI)
- **Use of Nanoclay as an Environmentally Friendly Flame Retardant Synergist in Polyamide-6**  
KAYNAK C., Gunduz H. O. , Isitman N. A.  
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.10, pp.7374-7377, 2010 (Journal Indexed in SCI)
- **Tailored flame retardancy via nanofiller dispersion state: Synergistic action between a conventional flame-retardant and nanoclay in high-impact polystyrene**  
Isitman N. A. , KAYNAK C.  
POLYMER DEGRADATION AND STABILITY, vol.95, pp.1759-1768, 2010 (Journal Indexed in SCI)
- **Nanoclay and carbon nanotubes as potential synergists of an organophosphorus flame-retardant in poly(methyl methacrylate)**  
Isitman N. A. , KAYNAK C.  
POLYMER DEGRADATION AND STABILITY, vol.95, pp.1523-1532, 2010 (Journal Indexed in SCI)
- **Nanoclay assisted strengthening of the fiber/matrix interface in functionally filled polyamide 6 composites**  
Isitman N. A. , AYKOL M., KAYNAK C.  
COMPOSITE STRUCTURES, vol.92, pp.2181-2186, 2010 (Journal Indexed in SCI)
- **Interfacial Strength in Short Glass Fiber Reinforced Acrylonitrile-Butadiene-Styrene/Polyamide 6 Blends**  
Isitman N. A. , Aykol M., Ozkoc G., BAYRAM G., KAYNAK C.  
POLYMER COMPOSITES, vol.31, pp.392-398, 2010 (Journal Indexed in SCI)
- **Halogen-free Flame Retardants that Outperform Halogenated Counterparts in Glass Fiber Reinforced Polyamides**  
Isitman N. A. , GÜNDÜZ H. O. , KAYNAK C.  
JOURNAL OF FIRE SCIENCES, vol.28, pp.87-100, 2010 (Journal Indexed in SCI)
- **Nanoclay synergy in flame retarded/glass fibre reinforced polyamide 6**  
İŞİTMAN N. A. , GUNDUZ H. O. , KAYNAK C.

- POLYMER DEGRADATION AND STABILITY, vol.94, pp.2241-2250, 2009 (Journal Indexed in SCI)
- **Mechanical properties, flammability and char morphology of epoxy resin/montmorillonite nanocomposites**  
KAYNAK C., Nakas G. I. , Isitman N. A.  
APPLIED CLAY SCIENCE, vol.46, pp.319-324, 2009 (Journal Indexed in SCI)
  - **Mechanical Performance of Resol Type Phenolic Resin/Layered Silicate Nanocomposites**  
Tasan C. C. , KAYNAK C.  
POLYMER COMPOSITES, vol.30, pp.343-350, 2009 (Journal Indexed in SCI)
  - **Use of Different Alkylammonium Salts in Clay Surface Modification for Epoxy-Based Nanocomposites**  
Nakas G. I. , KAYNAK C.  
POLYMER COMPOSITES, vol.30, pp.357-363, 2009 (Journal Indexed in SCI)
  - **Interfacial Interactions and Flammability of Flame-Retarded and Short Fiber-Reinforced Polyamides**  
Gunduz H. O. , Isitman N. A. , Aykol M., KAYNAK C.  
POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING, vol.48, pp.1046-1054, 2009 (Journal Indexed in SCI)
  - **Effects of RTM mold temperature and vacuum on the mechanical properties of epoxy/glass fiber composite plates**  
KAYNAK C., AKGÜL E., Isitman N. A.  
JOURNAL OF COMPOSITE MATERIALS, vol.42, pp.1505-1521, 2008 (Journal Indexed in SCI)
  - **Strength of short fiber reinforced polymers: Effect of fiber length distribution**  
Aykol M., Isitman N. A. , FİRLAR E., KAYNAK C.  
POLYMER COMPOSITES, vol.29, pp.644-648, 2008 (Journal Indexed in SCI)
  - **Effects of production parameters on the structure of resol type phenolic resin/layered silicate nanocomposites**  
Kaynak C., Tasan C. C.  
EUROPEAN POLYMER JOURNAL, vol.42, pp.1908-1921, 2006 (Journal Indexed in SCI)
  - **Rubber toughening of phenolic resin by using nitrile rubber and amino silane**  
Kaynak C., ÇAĞATAY O.  
POLYMER TESTING, vol.25, pp.296-305, 2006 (Journal Indexed in SCI)
  - **Effects of injection pressure in resin transfer moulding RTM of wovencarbon fibre epoxy composites**  
KAYNAK C., Kaş Y. O.  
Polymers Composites, vol.14, pp.55-64, 2006 (Journal Indexed in SCI Expanded)
  - **Effects of SiC particulates on the fatigue behaviour of an Al-alloy matrix composite**  
Kaynak C., BOYLU S.  
MATERIALS & DESIGN, vol.27, pp.776-782, 2006 (Journal Indexed in SCI)
  - **Effects of injection pressure in resin transfer moulding (RTM) of woven carbon fibre/epoxy composites**  
Kaynak C., Kas Y.  
POLYMERS & POLYMER COMPOSITES, vol.14, pp.55-64, 2006 (Journal Indexed in SCI)
  - **Use of split-disk tests for the process parameters of filament wound epoxy composite tubes**  
Kaynak C., ERDİLLER E. S. , PARNAS L., ŞENEL F.  
POLYMER TESTING, vol.24, pp.648-655, 2005 (Journal Indexed in SCI)
  - **Matrix and interface modification of short carbon fiber-reinforced epoxy**  
Kaynak C., ÖRGÜN Ö., Tincer T.  
POLYMER TESTING, vol.24, pp.455-462, 2005 (Journal Indexed in SCI)
  - **Ultrasonic (C-scan) and microscopic evaluation of resin transfer molded epoxy composite plates**  
KAŞ Y. O. , Kaynak C.  
POLYMER TESTING, vol.24, pp.114-120, 2005 (Journal Indexed in SCI)
  - **Modification of epoxy by a liquid elastomer and solid rubber particles**  
ÇELİKBİLEK C., AKOVALI G., Kaynak C.  
POLYMER BULLETIN, vol.51, pp.429-435, 2004 (Journal Indexed in SCI)
  - **Use of silane coupling agents to improve epoxy-rubber interface**  
KAYNAK C., Celikbilek C., Akovali G.  
European Polymer Journal, vol.39, pp.1125-1132, 2003 (Journal Indexed in SCI)
  - **Flexibility improvement of short glass fiber reinforced epoxy by using a liquid elastomer**

KAYNAK C., ARIKAN A., Tincer T.

Polymer, vol.44, pp.2433-2439, 2003 (Journal Indexed in SCI)

- **Influences of liquid elastomer additive on the behavior of short glass fiber reinforced epoxy**  
Arikan A., Kaynak C., Tincer T.  
POLYMER COMPOSITES, vol.23, pp.790-805, 2002 (Journal Indexed in SCI)
- **Flexibility improvement of epoxy resin by liquid rubber modification**  
Kaynak C., ÖZTÜRK A., Tincer T.  
POLYMER INTERNATIONAL, vol.51, pp.749-756, 2002 (Journal Indexed in SCI)
- **Effects of Scrap Rubber Particles on the Mechanical Behaviour of Epoxy**  
KAYNAK C., Sipahi Sağlam E., Akovalı G.  
International Journal Of Polymeric Materials, vol.51, pp.133-150, 2002 (Journal Indexed in SCI Expanded)
- **Effects of liquid rubber modification on the behaviour of epoxy resin**  
ÖZTÜRK A., KAYNAK C., Tincer T.  
European Polymer Journal, vol.37, pp.2353-2363, 2001 (Journal Indexed in SCI)
- **Uniaxial fatigue behavior of filament-wound glass-fiber/epoxy composite tubes**  
KAYNAK C., MAT O.  
Composites Science and Technology, vol.61, pp.1833-1840, 2001 (Journal Indexed in SCI)
- **Studies on epoxy modified with recycled rubber**  
Sipahi-Saglam E., Kaynak C., Akovalı G., YETMEZ M., AKKAŞ N.  
POLYMER ENGINEERING AND SCIENCE, vol.41, pp.514-521, 2001 (Journal Indexed in SCI)
- **A fractographic study on toughening of epoxy resin using ground tyre rubber**  
KAYNAK C., Sipahi-Saglam E., Akovalı G.  
Polymer, vol.42, pp.4393-4399, 2001 (Journal Indexed in SCI)
- **Inclusion induced anisotropy of short fatigue crack growth in steel**  
KAYNAK C., Ankara A., Baker T.  
MATERIALS SCIENCE AND TECHNOLOGY, vol.12, pp.557-562, 1996 (Journal Indexed in SCI)
- **Initiation and early growth of short fatigue cracks at inclusions**  
KAYNAK C., Ankara A., Baker T.  
MATERIALS SCIENCE AND TECHNOLOGY, vol.12, pp.421-426, 1996 (Journal Indexed in SCI)
- **A comparison of short and long fatigue crack growth in steel**  
KAYNAK C., Ankara A., Baker T.  
International Journal of Fatigue, vol.18, pp.17-23, 1996 (Journal Indexed in SCI)
- **Effects of short cracks on fatigue life calculations**  
KAYNAK C., ANKARA A., Baker T.  
International Journal of Fatigue, vol.18, pp.25-31, 1996 (Journal Indexed in SCI)
- **Short fatigue crack growth in AL 2024-T3 and AL 7075-T6**  
KAYNAK C., Ankara A.  
Engineering Fracture Mechanics, vol.43, pp.769-778, 1992 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **Effects of glass fiber reinforcement and thermoplastic elastomer blending on the mechanical performance of polylactide**  
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## **Tasks In Event Organizations**

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## **Invited Congress and Symposium Activities**

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## **Citations**

Total Citations (WOS):1574

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