

Prof. CEVDET KAYNAK

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-1752-2016

ScopusID: 6603785192

Yoksis Researcher ID: 7923

Education Information

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

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

Undergraduate, 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

Postgraduate, 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

Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2014 - Continues

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

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

Middle East Technical University, Faculty of Engineering, 1997 - 2000

Courses

POLYMER MATERIALS, Undergraduate, 2022 - 2023

MATERIALS ENGINEERING DESIGN I, Undergraduate, 2018 - 2019

MATERIALS PROCESSING LABORATORY, Undergraduate, 2018 - 2019

POLYMER NANOCOMPOSITES, Postgraduate, 2018 - 2019

FUNDAMENTALS OF MATERIALS SCIENCE AND ENGINEERING, Undergraduate, 2018 - 2019

COMPOSITE MATERIALS, Undergraduate, 2017 - 2018

Advising Theses

Kaynak C., Studies on the nanocellulose filled polylactide based biocomposites, Doctorate, B.SARI(Student), 2024

Kaynak C., Plasma surface treatment of PPS/CF thermoplastic composite laminates to improve their film adhesive joining performance, Postgraduate, A.CAN(Student), 2023

Kaynak C., Laser and plasma surface treatments of PPS/CF thermoplastic composite laminates for primer adhesion, Postgraduate, M.ATLIOĞLU(Student), 2023

Kaynak C., Resistance welding of paek / carbon fiber thermoplastic composite laminates, Postgraduate, İ.BAHA(Student), 2023

Kaynak C., Usability of polylactide biopolymer as thermoplastic matrix for woven fiber composite laminates, Postgraduate, G.DEMİROK(Student), 2022

Kaynak C., Use of carbon/epoxy towpregs during dry filament winding of composite flat specimens and pressure vessels, Postgraduate, Y.KEMAL(Student), 2022

Kaynak C., Behaviour of HTPB-polyurethane elastomer material reinforced with micro and nano particles, Postgraduate, E.ERTEN(Student), 2022

Hacaloğlu J., Kaynak C., Effects of boron compounds on thermal degradation behaviour of polymers involving ester linkages, Doctorate, N.NEHİR(Student), 2021

Kaynak C., Studies on polylactide nanocomposites with polyhedral oligomeric silsesquioxane, Doctorate, Y.MEYVA(Student), 2020

Kaynak C., Vibration damping behavior of epoxy matrix composites reinforced with carbon fibers and carbon nanotubes, Postgraduate, E.AVİL(Student), 2019

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

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

KAYNAK C., Effects of titania particles on the behaviours of polylactide based composites, Postgraduate, U.Can(Student), 2018

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

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

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

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

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

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

KAYNAK C., Toughening of polylactide by blending with various elastomeric materials, Postgraduate, Y.MEYVA(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., PRODUCTION OF SPECTRAL FLARE COMPOSITES AND INVESTIGATION OF POLYMERIC BINDER EFFECT ON RADIOMETRIC PROPERTIES, Doctorate, S.YAYLA(Student), 2013

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

KAYNAK C., Use of boron compounds as synergistic flame retardant in low density polyethylene – ethylene vinyl acetate blends and nanocomposites, Postgraduate, E.İBİBİKCAN(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., Effects of nanoadditives and different conventional flame retardants on the flammability of polystyrene, Postgraduate, B.MELİKE(Student), 2012

KAYNAK C., Effects of nanoadditives and different conventional flame redardants on the flammability of polystyrene, Postgraduate, B.Melike(Student), 2012

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

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

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

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

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

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

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

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

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

KAYNAK C., Experimental investigation for mechanical properties of filament wound composite tubes, Postgraduate, 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), Postgraduate, Y.ONUR(Student), 2002

KAYNAK C., Effects of injection pressure and post-curing on the behavior of woven carbon fiber/epoxy composites produced by rtm (resin transfer molding), Postgraduate, Y.Onur(Student), 2002

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

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

KAYNAK C., Studies to increase the toughness of epoxy matrices, Postgraduate, C.ÇELİKBILEK(Student), 2001

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

KAYNAK C., Flexibility improvement of short glass fiber reinforced epoxy, Postgraduate, A.Arıkan(Student), 2001

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

KAYNAK C., Flexibility improvement of epoxy resin used in fiber reinforced composites, Postgraduate, A.Öztürk(Student), 2000

Akovaı G., Kaynak C., Studies on Epoxy Modified with Recycled Rubber, Postgraduate, E.SİPAHİ(Student), 1999

KAYNAK C., Fatigue behaviour of filament wound composite tubes under axial loading, Postgraduate, O.Mat(Student), 1999

KAYNAK C., Fatigue behaviour of filament wound composite tubes under axial loading, Postgraduate, 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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Parameters influencing electrospun nanofiber diameter of polylactide incorporated with cellulose nanofibrils and nanocrystals**
SARI B., KAYNAK C.
Journal of Thermoplastic Composite Materials, vol.37, no.11, pp.3570-3590, 2024 (SCI-Expanded)
- II. **Improving film adhesive joining performance of poly(phenylene sulfide)/carbon fiber thermoplastic composite laminates by plasma surface treatment**
Uşak A. C., KAYNAK C.
Journal of Thermoplastic Composite Materials, vol.37, no.5, pp.1690-1729, 2024 (SCI-Expanded)
- III. **Influences of laser and plasma surface treatments on the primer paint adhesion for PPS/CF thermoplastic composite laminates**
Atlioglu M., KAYNAK C.
Journal of Thermoplastic Composite Materials, vol.37, no.3, pp.953-982, 2024 (SCI-Expanded)
- IV. **Effects of micro and nano fillers on the mechanical and thermal properties of hydroxyl-terminated polybutadiene-polyurethane based rocket motor liner**
Erten E., Atalar T., KAYNAK C.
Propellants, Explosives, Pyrotechnics, vol.49, no.1, 2024 (SCI-Expanded)
- V. **Obtaining cellulose nanocrystals by acid hydrolysis procedure; and their use as reinforcement in polylactide biocomposites**
Sarı B., KAYNAK C.
Journal of Thermoplastic Composite Materials, 2024 (SCI-Expanded)

- VI. **Contribution of cellulose nanofibrils on the strengthening and toughening of neat and blended polylactide specimens; and the differences after 3D-printing**
SARI B., KAYNAK C.
Journal of Thermoplastic Composite Materials, 2024 (SCI-Expanded)
- VII. **Effects of interlayer forms on the resistance welding performance of PAEK/CF thermoplastic composite laminates**
Marti I. B., Kaynak C.
JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, vol.36, no.12, pp.4945-4976, 2023 (SCI-Expanded)
- VIII. **Performance of polylactide biopolymer as matrix material for woven fiber composite laminates**
Demirok G., Kaynak C.
Journal of Thermoplastic Composite Materials, vol.36, no.7, pp.2936-2964, 2023 (SCI-Expanded)
- IX. **Mechanical performance of composite flat specimens and pressure vessels produced by carbon/epoxy towpreg dry winding**
Okten Y. K., KAYNAK C.
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.42, no.11-12, pp.558-576, 2023 (SCI-Expanded)
- X. **Behaviour of PLA/POSS nanocomposites: Effects of filler content, functional group and copolymer compatibilization**
MEYVA ZEYBEK Y., KAYNAK C.
POLYMERS & POLYMER COMPOSITES, vol.29, no.9_SUPPL, 2021 (SCI-Expanded)
- XI. **A comparative study for the behavior of 3D-printed and compression molded PLA/POSS nanocomposites**
MEYVA ZEYBEK Y., KAYNAK C.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, no.16, 2021 (SCI-Expanded)
- XII. **Electrospinning of PLA and PLA/POSS nanofibers: Use of Taguchi optimization for process parameters**
MEYVA ZEYBEK Y., KAYNAK C.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, no.3, 2021 (SCI-Expanded)
- XIII. **Performance of polylactide against UV irradiation: Synergism of an organic UV absorber with micron and nano-sized TiO₂**
CAN U., KAYNAK C.
JOURNAL OF COMPOSITE MATERIALS, vol.54, no.18, pp.2489-2504, 2020 (SCI-Expanded)
- XIV. **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 (SCI-Expanded)
- XV. **Effects of micro-nano titania contents and maleic anhydride compatibilization on the mechanical performance of polylactide**
CAN U., KAYNAK C.
POLYMER COMPOSITES, vol.41, no.2, pp.600-613, 2020 (SCI-Expanded)
- XVI. **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 (SCI-Expanded)
- XVII. **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, no.4, pp.501-520, 2019 (SCI-Expanded)
- XVIII. **Loss of thermoplastic elastomer toughening in polylactide after weathering**
Meyva-Zeybek Y., Kaynak C.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.136, 2019 (SCI-Expanded)
- XIX. **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 (SCI-Expanded)
- XX. **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 (SCI-Expanded)
- XXI. **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, no.23, pp.3935-3941, 2017 (SCI-Expanded)
- XXII. **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, no.3, pp.300-310, 2016 (SCI-Expanded)
- XXIII. **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 (SCI-Expanded)
- XXIV. **Effects of Accelerated Weathering in Poly lactide Biocomposites Reinforced with Microcrystalline Cellulose**
KAYNAK C., Dogu B.
INTERNATIONAL POLYMER PROCESSING, vol.31, no.4, pp.410-422, 2016 (SCI-Expanded)
- XXV. **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 (SCI-Expanded)
- XXVI. **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, no.6, pp.812-822, 2016 (SCI-Expanded)
- XXVII. **Effects of nanoparticles on thermal degradation of poly lactide/aluminium diethylphosphinate composites**
Kaya H., Özdemir E., Kaynak C., Hacaloğlu J.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.118, pp.115-122, 2016 (SCI-Expanded)
- XXVIII. **Accelerated weathering performance of poly lactide and its montmorillonite nanocomposite**
KAYNAK C., SARI B.
APPLIED CLAY SCIENCE, vol.121, pp.86-94, 2016 (SCI-Expanded)
- XXIX. **Consequences of accelerated weathering in poly lactide nanocomposites reinforced with halloysite nanotubes**
KAYNAK C., KAYGUSUZ I.
JOURNAL OF COMPOSITE MATERIALS, vol.50, no.3, pp.365-375, 2016 (SCI-Expanded)
- XXX. **Behavior of poly lactide/microcrystalline cellulose biocomposites: effects of filler content and interfacial compatibilization**
DOĞU B., KAYNAK C.
CELLULOSE, vol.23, no.1, pp.611-622, 2016 (SCI-Expanded)
- XXXI. **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, no.5, pp.189-198, 2016 (SCI-Expanded)
- XXXII. **Toughening of Poly lactide by Bio-Based and Petroleum-Based Thermoplastic Elastomers**
Meyva Y., KAYNAK C.
INTERNATIONAL POLYMER PROCESSING, vol.30, no.5, pp.593-602, 2015 (SCI-Expanded)
- XXXIII. **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, no.9, pp.1321-1333, 2015 (SCI-Expanded)
- XXXIV. **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, no.2, pp.87-112, 2015 (SCI-Expanded)
- XXXV. **Influences of halloysite nanotubes on crystallisation behaviour of polylactide**
Kaygusuz I., KAYNAK C.
PLASTICS RUBBER AND COMPOSITES, vol.44, no.2, pp.41-49, 2015 (SCI-Expanded)
- XXXVI. **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, no.12, pp.1622-1632, 2014 (SCI-Expanded)
- XXXVII. **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, no.7, pp.1350-1361, 2014 (SCI-Expanded)
- XXXVIII. **Effects of oxidative functionalized and aminosilanized carbon nanotubes on the crystallization behaviour of polyamide-6 nanocomposites**
KAYNAK C., Sankal S.
POLYMER BULLETIN, vol.71, no.4, pp.855-873, 2014 (SCI-Expanded)
- XXXIX. **Usability of three boron compounds for enhancement of flame retardancy in polyethylene-based cable insulation materials**
İBİBİKCAN E., KAYNAK C.
JOURNAL OF FIRE SCIENCES, vol.32, no.2, pp.99-120, 2014 (SCI-Expanded)
- XL. **Contribution of nanoclays to the flame retardancy of polyethylene-based cable insulation materials with aluminum hydroxide and zinc borate**
KAYNAK C., İbıbıkcın E.
JOURNAL OF FIRE SCIENCES, vol.32, no.2, pp.121-144, 2014 (SCI-Expanded)
- XLI. **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, no.7, pp.491-502, 2013 (SCI-Expanded)
- XLII. **Effects of nanoclays on the flammability of polystyrene with triphenyl phosphate-based flame retardants**
KAYNAK C., Sipahioglu B. M.
JOURNAL OF FIRE SCIENCES, vol.31, no.4, pp.339-355, 2013 (SCI-Expanded)
- XLIII. **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, no.1, pp.73-84, 2013 (SCI-Expanded)
- XLIV. **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, no.2, pp.75-86, 2013 (SCI-Expanded)
- XLV. **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, no.8, pp.1285-1296, 2012 (SCI-Expanded)
- XLVI. **On the use of magnesium hydroxide towards halogen-free flame-retarded polyamide-6/polypropylene blends**

- Balakrishnan H., HASSAN A., İŞİTMAN N. A., KAYNAK C.
POLYMER DEGRADATION AND STABILITY, vol.97, no.8, pp.1447-1457, 2012 (SCI-Expanded)
- XLVII. **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, no.6, pp.984-991, 2012 (SCI-Expanded)
- XLVIII. **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, no.3, pp.273-280, 2012 (SCI-Expanded)
- XLIX. **Contribution of Nanoclays to the Performance of Traditional Flame Retardants in ABS**
Ozkaraca A. C., KAYNAK C.
POLYMER COMPOSITES, vol.33, no.3, pp.420-429, 2012 (SCI-Expanded)
- L. **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, no.2, pp.702-710, 2012 (SCI-Expanded)
- LI. **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, no.12, pp.2284-2289, 2011 (SCI-Expanded)
- LII. **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 (SCI-Expanded)
- LIII. **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, no.5, pp.798-807, 2011 (SCI-Expanded)
- LIV. **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, no.5, pp.875-883, 2011 (SCI-Expanded)
- LV. **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, no.11, pp.7374-7377, 2010 (SCI-Expanded)
- LVI. **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, no.9, pp.1523-1532, 2010 (SCI-Expanded)
- LVII. **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, no.9, pp.1759-1768, 2010 (SCI-Expanded)
- LVIII. **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, no.9, pp.2181-2186, 2010 (SCI-Expanded)
- LIX. **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, no.3, pp.392-398, 2010 (SCI-Expanded)

- LX. **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, no.1, pp.87-100, 2010 (SCI-Expanded)
- LXI. **Nanoclay synergy in flame retarded/glass fibre reinforced polyamide 6**
İŞITMAN N. A., GUNDUZ H. O., KAYNAK C.
POLYMER DEGRADATION AND STABILITY, vol.94, no.12, pp.2241-2250, 2009 (SCI-Expanded)
- LXII. **Mechanical properties, flammability and char morphology of epoxy resin/montmorillonite nanocomposites**
KAYNAK C., Nakas G. I., Isitman N. A.
APPLIED CLAY SCIENCE, vol.46, no.3, pp.319-324, 2009 (SCI-Expanded)
- LXIII. **Mechanical Performance of Resol Type Phenolic Resin/Layered Silicate Nanocomposites**
Tasan C. C., KAYNAK C.
POLYMER COMPOSITES, vol.30, no.3, pp.343-350, 2009 (SCI-Expanded)
- LXIV. **Use of Different Alkylammonium Salts in Clay Surface Modification for Epoxy-Based Nanocomposites**
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