

Prof. İSMAİL KARACAN

Personal Information

Office Phone: [+90 352 437 4937](tel:+903524374937) Extension: 32900

Fax Phone: [+90 352 437 5784](tel:+903524375784)

Email: ismailkaracan@erciyes.edu.tr

Web: <https://avesis.erciyes.edu.tr/ismailkaracan/>

International Researcher IDs

ORCID: 0000-0002-9047-1011

Yoksis Researcher ID: 31753

Education Information

Post Doctorate, University of Leeds, Faculty Of Engineering, Department Of Textile Industries, United Kingdom 1993 - 1994

Post Doctorate, University of Leeds, Faculty Of Science, Inter Disciplinary-Research Center İn Polymer Science And Technology, United Kingdom 1990 - 1993

Post Doctorate, University of Leeds, Faculty Of Engineering, Department Of Textile Industries, United Kingdom 1986 - 1990

Doctorate, University of Leeds, Faculty Of Engineering, Department Of Textile Industries, United Kingdom 1982 - 1986

Undergraduate, University of Leeds, Faculty Of Engineering, Department Of Textile Industries, United Kingdom 1979 - 1982

Associate Degree, Anglia Ruskin University, The College Of West Anglia, Isle Campus, Cambridge, Science Department, Advanced Physics, Advanced Chemistry, Advanced Mathematics, Scientific English, United Kingdom 1978 - 1979

Associate Degree, Newnham Language Center, Grange Road, Cambridge, Department Of English, Advanced English Studies, United Kingdom 1977 - 1978

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, X-ray Diffraction Studies of Aromatic Fibres and Polymers, Leeds College Of Art And Design, Leeds, Faculty Of Engineering, Department Of Textile Industries, 1986

Research Areas

Technical Sciences, Chemical Engineering and Technology, Chemical Technologies, Polymer Technology, Textile Engineering and Technology, Textile Materials, Textile Physics, Metallurgical and Materials Engineering, Material science and engineering, Testing and Control of Materials, Material Characterization, Basic Sciences, Chemistry, Analytical Chemistry, Spectroscopical Methods, Thermal Methods, Physical Chemistry, Polymeric Materials, Liquid Crystals and LCP

Academic Titles / Tasks

Professor, Erciyes University, Mühendislik Fakültesi, Tekstil Mühendisliği, 2012 - Continues
Associate Professor, Erciyes University, Mühendislik Fakültesi, Tekstil Mühendisliği, 2006 - 2012
Assistant Professor, Erciyes University, Mühendislik Fakültesi, Tekstil Mühendisliği, 2004 - 2006
Assistant Professor, Manchester Institute of Science and Technology, Mühendislik Fakültesi, Tekstil Mühendisliği, 1994 - 1998

Academic and Administrative Experience

Erciyes Üniversitesi, Mühendislik Fakültesi, Tekstil Mühendisliği, 2004 - Continues
Erciyes University, 2004 - Continues
Erciyes University, 2004 - Continues
Erciyes Üniversitesi, Mühendislik Fakültesi, Tekstil Mühendisliği, 2006 - 2009
Erciyes Üniversitesi, Mühendislik Fakültesi, Tekstil Mühendisliği, 2006 - 2009
Erciyes Üniversitesi, Mühendislik Fakültesi, Tekstil Mühendisliği, 2004 - 2009

Courses

LİF BİLGİSİ , Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007
YÜKSEK PERFORMANSLI LİF ÜRETİM TEKNOLOJİLERİ, Postgraduate, 2014 - 2015
POLİMER KİMYASINA GİRİS, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007
AKILLI LİF TEKNOLOJİLERİ, Doctorate, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2009 - 2010, 2008 - 2009
TEKSTİL İPLİK TEKNOLOJİSİ, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007
YAPAY LİF ÜRETİM TEKNİKLERİ, Postgraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006
İLİMLERİNDE ÖZEL KONULAR, Doctorate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
YÜKSEK MODULLU LİF TEKNOLOJİLERİ, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006
DOKUSUZ YÜZEY TEKNOLOJİLERİ, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
TEKSTİL ENDÜSTRİSİNDE NANOBİLİM VE NANOTEKNOLOJİ, Undergraduate, 2013 - 2014
BİTİRME ÖDEVİ, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010
YÜKSEK MODULLU LİF TEKNOLOJİLERİ, Postgraduate, 2010 - 2011
TEKSTİL VE POLİMER FİZİĞİNİN ESASLARI, Doctorate, 2009 - 2010
YABANCI DİLDE OKUMA VE KONUSMA, Undergraduate, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007
BİTİRME ÖDEVİ, Undergraduate, 2008 - 2009
MESLEKİ YABANCI DİL I, Undergraduate, 2008 - 2009, 2007 - 2008, 2006 - 2007
LİF BİLGİSİ , Undergraduate, 2005 - 2006
FINAL YEAR PROJECT (MANCHESTER UNIVERSITY), Undergraduate, 1997 - 1998, 1996 - 1997, 1995 - 1996, 1994 - 1995
HIGH PERFORMANCE FIBRES (MANCHESTER UNIVERSITY) , Postgraduate, 1997 - 1998, 1996 - 1997, 1995 - 1996
COMPUTING PRACTICALS (MANCHESTER UNIVERSITY), Undergraduate, 1997 - 1998, 1996 - 1997, 1995 - 1996, 1994 - 1995
MICROSCOPY AND IMAGE ANALYSIS (MANCHESTER UNIVERSITY) , Undergraduate, 1997 - 1998, 1996 - 1997, 1995 -

1996, 1994 - 1995

TEXTURING (MANCHESTER UNIVERSITY), Undergraduate, 1997 - 1998, 1996 - 1997, 1995 - 1996, 1994 - 1995

HIGH PERFORMANCE FIBRES (MANCHESTER UNIVERSITY) , Postgraduate, 1994 - 1995

Advising Theses

KARACAN I., Karbon nanotüp esaslı yüksek performanslı liflerin üretim yöntemleri, mekanik ve yapısal özellikleri ve uygulama alanları, Postgraduate, Ü.KIRKBAŞ(Student), 2016

KARACAN I., Hızlandırılmış Oksidasyon Aşamasının Poliakrilonitril (PAN) esaslı Karbon Lif Üretimi Sırasında Değerlendirilmesi ve Etkilerinin Araştırılması, Postgraduate, A.KILIÇ(Student), 2015

KARACAN I., POLİ(HEKZAMETİLEN ADİPAMİT) (POLİAMİT 66) ESASLI KARBON LİF ÜRETİMİ SIRASINDA ANTİOKSİDAN KULLANIMININ TERMAL STABİLİZASYON VE KARBONİZASYON AŞAMALARINA ETKİLERİNİN ARAŞTIRILMASI, YAPISAL VE MEKANİK ÖZELLİKLERİN KARAKTERİZE EDİLMESİ, Postgraduate, L.ERZURUMLUOĞLU(Student), 2015

KARACAN I., NANOBİLİM VE NANOTEKNOLOJİ YÖNTEMLERİ İLE TEKSTİL YÜZEYLERİNE KAZANDIRILAN ÇOKLU FONKSİYONEL ÖZELLİKLERİNİN, KARAKTERİZASYON YÖNTEMLERİNİN VE KULLANIM ALANLARININ ARAŞTIRILMASI ÜZERİNE BİR ÇALIŞMA, Postgraduate, O.AYAS(Student), 2015

KARACAN I., Alifatik naylon 6 liflerinin karbon lif üretiminde hammadde olarak değerlendirilmesi ve karakterize edilmesi, Postgraduate, H.Meşeli(Student), 2014

KARACAN I., Selüloz esaslı karbon lif üretiminde ısıl kararlılık ve karbonizasyon aşamalarının yerine getirilmesi, Postgraduate, A.Gül(Student), 2014

KARACAN I., Karbon lif üretimi açısından poliamid 6.6 (naylon 6.6) liflerinin değerlendirilmesi ve termal stabilizasyon aşamasının yerine getirilmesi, Postgraduate, K.Şahin(Student), 2012

KARACAN I., Aktif-Karbonizasyon Öncesi Selüloz Esaslı Tekstil Malzemelerine Termal Kararlılığın Sağlanması ve Yapısal Özelliklerinin Araştırılması, Postgraduate, T.SOY(Student), 2012

KARACAN I., Türkiye’de Üretilen Poliakrilonitril (PAN) Esaslı Akrilik Liflerinin Karbonizasyon Öncesi Oksidasyon Aşamasının Hızlandırılması ve Karakterizasyonu, Postgraduate, G.ERDOĞAN(Student), 2009

KARACAN I., Türkiye’de Üretilen Polipropilen Liflerinin Üretim Parametreleri-Mekanik Özellikleri-Molekül Yapısı Arasındaki İlişkilerin araştırılması ve Bu İlişkilerin İyileştirilmesi, Postgraduate, H.BENLİ(Student), 2008

Jury Memberships

Associate Professor Exam, DOÇENTLİK SINAV JÜRİSİ, DOKUZ EYLÜL ÜNİVERSİTESİ, October, 2017

Associate Professor Exam, DOÇENTLİK SINAVI, İSTANBUL TEKNİK ÜNİVERSİTESİ, October, 2017

Associate Professor Exam, DOÇENTLİK SINAVI, ULUDAĞ ÜNİVERSİTESİ, October, 2015

Post Graduate, KİLİM DESENLİ DENİM KUMAŞ ÜRETİMİ, ERCİYES ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ , July, 2007

Post Graduate, MAKİNE HALISI ÜRETİM PARAMETRELERİNİN HALI PERFORMANSINA OLAN ETKİLERİNİN ARAŞTIRILMASI, SÜTÇÜ İMAM ÜNİVERSİTESİ, FEN BİLİMLERİ ENSTİTÜSÜ, September, 2006

Published journal articles indexed by SCI, SSCI, and AHCI

I. Multi-step heating strategy during thermal stabilization of polyacrylonitrile multi-filament bundle before carbonization

Hariri H., Tunçel K. Ş., KARACAN İ.

Polymer International, vol.73, no.10, pp.824-832, 2024 (SCI-Expanded)

II. Accelerated multistep thermal stabilization of polyacrylonitrile fibers using an ethylenediamine pretreatment

Tunçel K. Ş., Demirel T., KARACAN İ.

Journal of Materials Science, vol.59, no.30, pp.14078-14093, 2024 (SCI-Expanded)

- III. **Structure and Properties of Thermally Stabilized and Ecologically Friendly Organic Cotton Fibers as a New Activated Carbon Fiber Precursor**
Hariri H., Tuncel K. S., KARACAN İ.
FIBERS AND POLYMERS, vol.25, no.8, pp.2925-2933, 2024 (SCI-Expanded)
- IV. **An Evaluation of the Beneficial Effects of Polyamide 6's Thermal Stabilization by Ferric Chloride Complexation as a Novel Carbon Fiber Precursor**
Demirel T., Tunçel K. Ş., KARACAN İ.
Fibers and Polymers, vol.25, no.4, pp.1301-1312, 2024 (SCI-Expanded)
- V. **A Study on Structural Characterization of Thermally Stabilized PAN Precursor Fibers Impregnated with Ammonium Bromide before Carbonization Stage**
Demirel T., Rahman M. M., Tuncel K. S., KARACAN İ.
FIBERS AND POLYMERS, vol.23, no.11, pp.3046-3057, 2022 (SCI-Expanded)
- VI. **The beneficial effect of eco-friendly chemical impregnation on the thermal stabilization process of poly(hexamethylene adipamide) multifilament**
Rahman M. M., Demirel T., Tuncel K. S., KARACAN İ.
JOURNAL OF MOLECULAR STRUCTURE, vol.1259, 2022 (SCI-Expanded)
- VII. **Improved thermal stability of jute fiber as an eco-friendly precursor for activated carbon fiber processing**
Rahman M., KARACAN İ.
JOURNAL OF POLYMER RESEARCH, vol.29, no.6, 2022 (SCI-Expanded)
- VIII. **Fabrication of carbon fibers from the cupric ion impregnated and thermally stabilized poly(hexamethylene adipamide) precursor**
Erzurumluoglu L., Rahman M. M., Demirel T., KARACAN İ.
JOURNAL OF INDUSTRIAL TEXTILES, vol.51, no.3_suppl, 2022 (SCI-Expanded)
- IX. **The impact of guanidine carbonate incorporation on the molecular structure of polyacrylonitrile precursor fiber stabilized by a multistep heat treatment strategy**
Tuncel K. S., Rahman M. M., Demirel T., KARACAN İ.
POLYMER ENGINEERING AND SCIENCE, vol.62, no.4, pp.1081-1095, 2022 (SCI-Expanded)
- X. **Structural and Thermal Characterization of Chemically Pretreated and Thermally Oxidized Bamboo Fiber in Activated Carbon Fiber Manufacturing**
Rahman M. M., KARACAN İ.
JOURNAL OF NATURAL FIBERS, vol.19, no.16, pp.15085-15099, 2022 (SCI-Expanded)
- XI. **The impact of eco-friendly chemical incorporation on the thermal oxidation process of flax fiber prior to carbonization and activation**
Rahman M. M., KARACAN İ.
JOURNAL OF MATERIALS SCIENCE, vol.57, no.3, pp.2318-2333, 2022 (SCI-Expanded)
- XII. **The effect of the ammonium persulfate and a multi-step annealing approach during thermal stabilization of polyacrylonitrile multifilament prior to carbonization**
Rahman M. M., Demirel T., Tuncel K. S., KARACAN İ.
JOURNAL OF MATERIALS SCIENCE, vol.56, no.26, pp.14844-14865, 2021 (SCI-Expanded)
- XIII. **Characterization of amorphous carbon fibers produced from thermally stabilized polyamide 6 fibers**
KARACAN I., Meşeli H.
JOURNAL OF INDUSTRIAL TEXTILES, vol.47, no.6, pp.1185-1211, 2018 (SCI-Expanded)
- XIV. **Polyacrylonitrile/polyaniline composite nanofiber webs with electrostatic discharge properties**
Kizildag N., Uçar N., Onen A., KARACAN I.
JOURNAL OF COMPOSITE MATERIALS, vol.50, no.28, pp.3981-3994, 2016 (SCI-Expanded)
- XV. **Polyacrylonitrile/polyaniline composite nano/microfiber webs produced by different dopants and solvents**
KIZILDAĞ N., UÇAR N., ÖNEN A., KARACAN I.
JOURNAL OF INDUSTRIAL TEXTILES, vol.46, no.3, pp.787-808, 2016 (SCI-Expanded)
- XVI. **Synergistic effect of polyaniline, nanosilver, and carbon nanotube mixtures on the structure and**

properties of polyacrylonitrile composite nanofiber

Eren O., Uçar N., Onen A., Kizildag N., KARACAN I.

JOURNAL OF COMPOSITE MATERIALS, vol.50, no.15, pp.2073-2086, 2016 (SCI-Expanded)

- XVII. **The effect of dispersion technique, silver particle loading, and reduction method on the properties of polyacrylonitrile-silver composite nanofiber**
Demirsoy N., Uçar N., Onen A., KARACAN I., Kizildag N., Eren O., Borazan I.
JOURNAL OF INDUSTRIAL TEXTILES, vol.45, no.6, pp.1173-1187, 2016 (SCI-Expanded)
- XVIII. **The effect of the dissolution process and the polyaniline content on the properties of polyacrylonitrile-polyaniline composite nanoweb**
Kizildag N., Uçar N., KARACAN I., Onen A., Demirsoy N.
JOURNAL OF INDUSTRIAL TEXTILES, vol.45, no.6, pp.1548-1570, 2016 (SCI-Expanded)
- XIX. **Effect of differently functionalized carbon nanotubes on the properties of composite nanofibres**
Eren O., Uçar N., Onen A., KARACAN I., Kizildag N., Demirsoy N., Vurur O. F., Borazan I.
Indian Journal of Fibre and Textile Research, vol.41, no.2, pp.138-144, 2016 (SCI-Expanded)
- XX. **Polyacrylonitrile-Polyaniline Composite Nanofiber Webs: Effects of Solvents, Redoping Process and Dispersion Technique**
Uçar N., Kizildag N., Onen A., KARACAN I., Eren O.
FIBERS AND POLYMERS, vol.16, no.10, pp.2223-2236, 2015 (SCI-Expanded)
- XXI. **The effect of carbonization temperature on the structure and properties of carbon fibers prepared from poly(m-phenylene isophthalamide) precursor**
KARACAN I., Erzurumluoğlu L.
FIBERS AND POLYMERS, vol.16, no.8, pp.1629-1645, 2015 (SCI-Expanded)
- XXII. **Formation of Non-graphitizing Carbon Fibers Prepared from Poly(p-phenylene terephthalamide) Precursor Fibers**
KARACAN I., ERZURUMLUOĞLU L.
FIBERS AND POLYMERS, vol.16, no.5, pp.961-974, 2015 (SCI-Expanded)
- XXIII. **The effect of reduction methods and stabilizer (PVP) on the properties of polyacrylonitrile (PAN) composite nanofibers in the presence of nanosilver**
Uçar N., Demirsoy N., Onen A., KARACAN I., Kizildag N., Eren O., Vurur O. F., Sezer E., Ustamehmetoglu B.
JOURNAL OF MATERIALS SCIENCE, vol.50, no.4, pp.1855-1864, 2015 (SCI-Expanded)
- XXIV. **Carbonization behavior of oxidized viscose rayon fibers in the presence of boric acid-phosphoric acid impregnation**
KARACAN I., GÜL A.
JOURNAL OF MATERIALS SCIENCE, vol.49, no.21, pp.7462-7475, 2014 (SCI-Expanded)
- XXV. **THE EFFECT OF POLYANILINE AND AMINE FUNCTIONALIZED CARBON NANOTUBES ON THE PROPERTIES OF COMPOSITE NANOFIBER WEB**
Uçar N., Eren O., Onen A., Kizildag N., Demirsoy N., KARACAN I.
TEKSTİL VE KONFEKSİYON, vol.24, no.3, pp.266-271, 2014 (SCI-Expanded)
- XXVI. **Thermal stabilization of poly(hexamethylene adipamide) fibers in the presence of ferric chloride prior to carbonization**
KARACAN I., Tunçel K. S.
POLYMER DEGRADATION AND STABILITY, vol.98, no.9, pp.1869-1881, 2013 (SCI-Expanded)
- XXVII. **Investigation of structural transformations taking place during oxidative stabilization of viscose rayon precursor fibers prior to carbonization and activation**
Karacan I., Soy T.
JOURNAL OF MOLECULAR STRUCTURE, vol.1041, pp.29-38, 2013 (SCI-Expanded)
- XXVIII. **Enhancement of Oxidative Stabilization of Viscose Rayon Fibers Impregnated with Ammonium Sulfate Prior to Carbonization and Activation Steps**
Karacan I., Soy T.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.128, no.2, pp.1239-1249, 2013 (SCI-Expanded)
- XXIX. **Structure and properties of oxidatively stabilized viscose rayon fibers impregnated with boric acid**

and phosphoric acid prior to carbonization and activation steps

Karacan I., Soy T.

JOURNAL OF MATERIALS SCIENCE, vol.48, no.5, pp.2009-2021, 2013 (SCI-Expanded)

- XXX. **Investigation of the Effect of Cupric Chloride on Thermal Stabilization of Polyamide 6 as Carbon Fiber Precursor**
KARACAN I., Baysal G.
FIBERS AND POLYMERS, vol.13, no.7, pp.864-873, 2012 (SCI-Expanded)
- XXXI. **Ferric Chloride Assisted Thermal Stabilization of Polyacrylonitrile Precursor Fibers Prior to Carbonization**
Karacan I., Erdogan G.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.22, no.5, pp.1016-1027, 2012 (SCI-Expanded)
- XXXII. **The Role of Thermal Stabilization on the Structure and Mechanical Properties of Polyacrylonitrile Precursor Fibers**
KARACAN I., Erdogan G.
FIBERS AND POLYMERS, vol.13, no.7, pp.855-863, 2012 (SCI-Expanded)
- XXXIII. **The role of dry and wet isothermal annealing treatment on the structure and the mechanical properties of isotactic polypropylene fibers**
KARACAN I., BENLİ H.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.124, no.4, pp.3037-3050, 2012 (SCI-Expanded)
- XXXIV. **An investigation on structure characterization of thermally stabilized polyacrylonitrile precursor fibers pretreated with guanidine carbonate prior to carbonization**
KARACAN I., Erdogan G.
POLYMER ENGINEERING AND SCIENCE, vol.52, no.5, pp.937-952, 2012 (SCI-Expanded)
- XXXV. **The Effect of Sulfonation Treatment on the Structure and Properties of Isotactic Polypropylene Fibers Prior to the Carbonization Stage**
KARACAN I., BENLİ H.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.123, no.6, pp.3375-3389, 2012 (SCI-Expanded)
- XXXVI. **A Study on Structural Characterization of Thermal Stabilization Stage of Polyacrylonitrile Fibers Prior to Carbonization**
KARACAN I., Erdogan G.
FIBERS AND POLYMERS, vol.13, no.3, pp.329-338, 2012 (SCI-Expanded)
- XXXVII. **The Influence of Thermal Stabilization Stage on the Molecular Structure of Polyacrylonitrile Fibers Prior to the Carbonization Stage**
KARACAN I., Erdogan G.
FIBERS AND POLYMERS, vol.13, no.3, pp.295-302, 2012 (SCI-Expanded)
- XXXVIII. **The effect of ethylenediamine pretreatment on the molecular structure of thermally stabilized polyacrylonitrile fibers before carbonization**
KARACAN I., Erdogan G.
POLYMER ENGINEERING AND SCIENCE, vol.52, no.3, pp.467-480, 2012 (SCI-Expanded)
- XXXIX. **Use of Sulfonation Procedure for the Development of Thermally Stabilized Isotactic Polypropylene Fibers Prior to Carbonization**
KARACAN I., BENLİ H.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.123, no.1, pp.234-245, 2012 (SCI-Expanded)
- XL. **The Influence of Annealing Treatment on the Molecular Structure and the Mechanical Properties of Isotactic Polypropylene Fibers**
KARACAN I., BENLİ H.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.122, no.5, pp.3322-3338, 2011 (SCI-Expanded)
- XLI. **AN X-RAY DIFFRACTION STUDY FOR ISOTACTIC POLYPROPYLENE FIBRES PRODUCED WITH TAKE-UP SPEEDS OF 2500-4250 M/MIN**
KARACAN I., BENLİ H.

- TEKSTİL VE KONFEKSİYON, vol.21, no.3, pp.201-209, 2011 (SCI-Expanded)
- XLII. **THE USE OF INFRARED-SPECTROSCOPY TECHNIQUE FOR THE STRUCTURAL CHARACTERIZATION OF ISOTACTIC POLYPROPYLENE FIBRES**
KARACAN I., BENLİ H.
TEKSTİL VE KONFEKSİYON, vol.21, no.2, pp.116-123, 2011 (SCI-Expanded)
- XLIII. **Molecular structure and orientation of gel-spun polyethylene fibers**
Karacan I.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.101, no.3, pp.1317-1333, 2006 (SCI-Expanded)
- XLIV. **A comparative study of structure-property relationships in highly oriented thermoplastic and thermotropic polyesters with different chemical structures**
Karacan I.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.100, no.1, pp.142-160, 2006 (SCI-Expanded)
- XLV. **Structure-property relationships in high-strength high-modulus polyethylene fibres**
Karacan I.
FIBRES & TEXTILES IN EASTERN EUROPE, vol.13, no.4, pp.15-21, 2005 (SCI-Expanded)
- XLVI. **X-ray diffraction studies of poly(aryl ether ether ketone) fibers with different degrees of crystallinity and orientation**
Karacan I.
FIBERS AND POLYMERS, vol.6, no.3, pp.206-218, 2005 (SCI-Expanded)
- XLVII. **An in depth study of crystallinity, crystallite size and orientation measurements of a selection of poly(ethylene terephthalate) fibers**
Karacan I.
FIBERS AND POLYMERS, vol.6, no.3, pp.186-199, 2005 (SCI-Expanded)
- XLVIII. **Traumatic spinal cord injuries in Turkey: a nation-wide epidemiological study**
Karacan I., KOYUNCU H., PEKEL O., SUMBULOGLU G., Kirnap M., DURSUN H., KALKAN A., CENGİZ A., YALINKILIC A., UNALAN H., et al.
SPINAL CORD, vol.38, no.11, pp.697-701, 2000 (SCI-Expanded)
- XLIX. **Characterisation of Structure and Properties of Polyacrylonitrile-Based Acrylic Fibres**
Bozdoğan F., KARACAN İ., Kitagawa T.
JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY, vol.8, no.3, pp.119-139, 2000 (SCI-Expanded)
- L. **Thermotropic polyesters: synthesis and properties of modified poly(4-oxybenzoate-co-1,4-phenylene isophthalate)s**
Cao J., Erdemir A., KARACAN İ., Tomka J.
POLYMER, vol.36, no.24, pp.4695-4701, 1995 (SCI-Expanded)
- LI. **Thermotropic polyesters: thermal transitions and polymorphism of poly(4-oxybenzoate-co-1,4-phenylene isophthalate)s**
Cao J., KARACAN İ., Tomka J.
POLYMER, vol.36, no.24, pp.2133-2141, 1995 (SCI-Expanded)
- LII. **Molecular orientation in uniaxially, one-way and two-way drawn PVC films**
KARACAN İ., Bower D., Ward I.
POLYMER, vol.35, no.16, pp.3411-3422, 1994 (SCI-Expanded)
- LIII. **Thermotropic polyesters: structure of poly(p-oxybenzoate-co-m-phenylene terephthalate) fibres**
Johnson D., KARACAN İ., Tomka J.
POLYMER, vol.34, no.8, pp.1749-1754, 1993 (SCI-Expanded)
- LIV. **CHARACTERIZATION OF ORIENTATION OF ONE-WAY AND 2-WAY DRAWN ISOTACTIC POLYPROPYLENE FILMS**
KARACAN İ., Taraiya A., Bower D., Ward I.
POLYMER, vol.34, no.13, pp.2691-2701, 1993 (SCI-Expanded)
- LV. **Thermotropic polyesters: effect of m-phenylene disruptors on chain modulus**
Johnson D., KARACAN İ., Tomka J.
POLYMER, vol.33, no.5, pp.983-989, 1992 (SCI-Expanded)

- LVI. **Thermotropic polyesters: orientation of poly(p-oxybenzoate-co-p-phenylene isophthalate) fibres**
Johnson D., KARACAN İ., Tomka J.
POLYMER, vol.32, no.13, pp.2312-2318, 1991 (SCI-Expanded)
- LVII. **Thermotropic polyesters: Synthesis and properties of poly(p-oxybenzoate-co-m-phenylene terephthalate)s**
Brown P., KARACAN İ., Liu J., McIntyre J., Milburn A., Tomka J.
POLYMER INTERNATIONAL, vol.24, no.1, pp.23-32, 1991 (SCI-Expanded)
- LVIII. **Thermotropic polyesters: structure of poly(chloro-1,4 phenylene terephthalate) and its copolymers**
Johnson D., KARACAN İ., Maj P., Tomka J.
POLYMER, vol.31, no.11, pp.1991-1998, 1990 (SCI-Expanded)
- LIX. **Thermotropic polyesters: modelling of the meridional diffraction patterns of poly(p-oxybenzoate-co-p-phenylene isophthalate) fibres**
Erdemir A., Johnson D., KARACAN İ., Tomka J.
POLYMER, vol.31, no.1, pp.8-14, 1990 (SCI-Expanded)
- LX. **FIBERS FROM THERMOTROPIC POLYESTERS - THE USE OF CHAIN MODELING IN STRUCTURAL CHARACTERIZATION**
Johnson D., KARACAN İ., Tomka J.
JOURNAL OF THE TEXTILE INSTITUTE, vol.81, no.4, pp.421-431, 1990 (SCI-Expanded)
- LXI. **"Thermotropic polyesters: structure of oriented poly(p-oxybenzoate-co-p-phenylene isophthalate)s"**
Erdemir A., Johnson D., KARACAN İ., Tomka J.
POLYMER, vol.29, no.4, pp.597-604, 1988 (SCI-Expanded)

Articles Published in Other Journals

- I. **THE EFFECTS OF DOPANT AND SOLVENT ON MORPHOLOGY, CONDUCTIVITY AND MECHANICAL PROPERTIES OF POLYACRYLONITRILE / POLYANILINE COMPOSITE NANOFIBERS**
KIZILDAĞ N., UÇAR N., DEMIRSOY N., SEZER E., USTAMEHMETOĞLU B., EREN O., ONEN A., KARACAN İ., GUNER S.
TEKSTİL VE MÜHENDİS, vol.22, no.97, pp.1-6, 2015 (Scopus)
- II. **Investigation of electrical, thermal and structural properties on polyacrylonitrile nano fiber**
DEMIRSOY N., UCAR N., ONEN A., KIZILDAG N., VURUR O., EREN O., KARACAN İ.
International Journal of Chemical, Nuclear, Metallurgical and Materials Engineering, vol.8, no.8, pp.668-670, 2014
(Non Peer-Reviewed Journal)
- III. **Effect of amine-functionalized carbon nanotubes on the properties of CNT-PAN composite nanofibers,**
EREN O., UÇAR N., ONEN A., KIZILDAG N., VURUR O., DEMIRSOY N., KARACAN İ.
International Journal of Chemical, Nuclear, Metallurgical and Materials Engineering, vol.8, no.8, pp.671-673, 2014
(Non Peer-Reviewed Journal)
- IV. **Poliakrilonitril (PAN) kökenli akrilik liflerinde moleküler oryantasyon parametresi, P2 nin çift kırınım ölçümleri, Fourier Transform polarize infra-red spektroskopisi(FT-IR) ve geniş açı X-ışını difraksiyonu metodları ile tayini**
Bozdoğan F., KARACAN İ.
TEKSTİL VE MÜHENDİS, vol.87, pp.166-172, 2000 (Scopus)
- V. **High Performance Aramid Fibres and Their Characteristics**
KARACAN İ.
Tekstil Maraton, vol.46, pp.14-26, 2000 (Peer-Reviewed Journal)
- VI. **Structural Characterisation of high performance aramid fibres**
KARACAN İ.
Journal for Asia on Textile and Apparel, pp.77-80, 1998 (Non Peer-Reviewed Journal)
- VII. **Infra-red and Raman Spectroscopy in high Performance Fibres**

KARACAN İ.

Journal for Asia on Textile and Apparel, pp.101-104, 1997 (Non Peer-Reviewed Journal)

VIII. **Structural studies of isotactic polypropylene fibres**

KARACAN İ., WANG I.

TEKSTİL VE MÜHENDİS, vol.11, pp.3-16, 1997 (Peer-Reviewed Journal)

IX. **Developments in high-strength high-modulus fibres: the R & D goals**

Tomka J., KARACAN İ., Johnson D.

Textile Month, pp.20-34, 1993 (Non Peer-Reviewed Journal)

Books & Book Chapters

I. **An Assessment of The Impact of Cupric Ion Complexation on Thermal Stabilization of Polyamide 66 As Carbon Fiber Precursor**

KARACAN İ., Tunçel K. Ş.

in: RECENT RESEARCH ADVANCES IN APPLIED POLYMER SCIENCE, VOL.5, CHAPTER 1, PANDALAI, S.G., Editor, Research Signpost, Kerala, pp.1-35, 2013

II. **Characterisation of Structure and Properties of a Selection of Polyacrylonitrile (PAN)-based Acrylic Fibers produced in Turkey**

Bozdoğan F., KARACAN İ., Tiyek İ.

Ege Üniversitesi Tekstil Ve Konfeksiyon Araştırma-Uygulama Merkezi, İzmir, 2004

III. **Poliakrilonitril (PAN) kökenli akrilik liflerinin yapı ve özelliklerinin tanımlanması üzerine bir araştırma**

BOZDOĞAN F., KARACAN İ.

Ege Üniversitesi Tekstil Ve Konfeksiyon Araştırma-Uygulama Merkezi, İzmir, 2000

IV. **Structure-Property relationships in polypropylene fibres**

KARACAN İ.

in: Polypropylene: A-Z Guide, Karger-Kocsis, J., Editor, Kluwer Academic Publishers, London, pp.783-789, 1999

V. **Molecular and Microstructural Modelling of Fibres**

Johnson D., Tomka J., KARACAN İ.

in: Advances in Fibre Science, Mukhopadhyay, S.K., Editor, The Textile Institute, Manchester, pp.81-206, 1992

Other Publications

I. **Thermal Stabilization of Polyacrylonitrile Fibers, SPE Plastics Research Online, 15 May 2012**

KARACAN İ.

Other, pp.1-3, 2012

Supported Projects

KARACAN İ., KILIÇ A., Project Supported by Higher Education Institutions, Hızlandırılmış Oksidasyon Aşamasının Poliakrilonitril PAN esaslı Karbon Lif Üretimi Sırasında Değerlendirilmesi ve Etkilerinin Araştırılması, 2015 - 2016

KARACAN İ., MEŞELİ H., ERZURUMLUOĞLU L., ÖZPOZAN T., Project Supported by Higher Education Institutions, Alifatik ve Aromatik Poliamit esaslı Karbon Lif Üretimi ve Karakterizasyonu, 2012 - 2015

KARACAN İ., GÜL A., Project Supported by Higher Education Institutions, SELÜLOZ ESASLI KARBON LİF ÜRETİMİNDE ISIL KARARLILIK VE KARBONİZASYON AŞAMALARININ YERİNE GETİRİLMESİ, 2013 - 2014

KARACAN İ., TUNÇEL K. Ş., Project Supported by Higher Education Institutions, Karbon lif üretimi açısından naylon liflerinin değerlendirilmesi ve termal stabilizasyon aşamasının yerine getirilmesi, 2010 - 2013

KARACAN İ., SOY T., Project Supported by Higher Education Institutions, AKTİF-KARBONİZASYON ÖNCESİ SELÜLOZ

ESASLI TEKSTİL MALZEMELERİNİN TERMAL KARARLILIĞININ SAĞLANMASI VE YAPISAL ÖZELLİKLERİNİN ARAŞTIRILMASI, 2009 - 2011

KARACAN İ., ERDOĞAN G., tekoğlu o., BENLİ H., Project Supported by Higher Education Institutions, DOĞAL VE SENTETİK TEKSTİL MALZEMELERİNE KİMYASAL YÖNTEMLER İLE ALEV ISI VE YANMA DİRENÇ ÖZELLİKLERİNİN KAZANDIRILMASI VE YAPISAL ÖZELLİKLERİNİN İNCELENMESİ, 2009 - 2011

KARACAN İ., ERDOĞAN G., Project Supported by Higher Education Institutions, TÜRKİYE'DE ÜRETİLEN POLİAKRİLONİTRİL (PAN) ESASLI AKRİLİK LİFLERİNİN KARBON LİF ÜRETİMİ ÖNCESİ GEREKLİ OLAN OKSİDASYON AŞAMASININ HIZLANDIRILMASI ÜZERİNE BİR ARAŞTIRMA, 2008 - 2009

KARACAN İ., GÜLDESTE A., KARTAL Ş., ÖZPOZAN T., Project Supported by Higher Education Institutions, ORGANİK ESASLI FT-IR SPEKTROFOTOMETRE VE ELEMENTEL ANALİZ YÖNTEMLERİ İLE MOLEKÜLER YAPI ÖZELLİKLERİNİN KARAKTERİZASYONU VE SONUÇLARIN DEĞERLENDİRİLMESİ, 2008 - 2009

KARACAN İ., BENLİ H., Project Supported by Higher Education Institutions, TÜRKİYEDE ÜRETİLEN POLİPROPİLEN LİFLERİNİN ÜRETİM PARAMETRELERİ- MEKANİK ÖZELLİKLERİ-MOLEKÜL YAPISI ARASINDAKİ İLİŞKİLERİNİN ARAŞTIRILMASI VE BU İLİŞKİLERİN İYİLEŞTİRİLMESİ., 2006 - 2008

ÖZPOZAN N., KAYACIER A., KARACAN İ., Project Supported by Higher Education Institutions, ANORGANİK, GIDA VE ORGANİK POLİMER ESASLI LİF ÖRNEKLERİNİN DİFERANSİYEL TARAMALI KALORİMETRE(DSC) CİHAZI İLE ISIL ÖZELLİKLERİNİN İNCELENMESİ, 2006 - 2007

KARACAN İ., GÜLDESTE A., ÖZPOZAN N., TÜRKÖĞLU O., Project Supported by Higher Education Institutions, ORGANİK VE ANORGANİK ÖRNEKLERİN EŞZAMANLI TERMOGRAVİMETRİK ANALİZ VE DİFERANSİYEL TERMAL ANALİZ (TGA/DTA) SİSTEMİ İLE TERMAL ÖZELLİKLERİNİN İNCELENMESİ VE İRDELENMESİ, 2006 - 2007

KARACAN İ., Project Supported by Higher Education Institutions, SUNI VE DOĞAL LİF ÖZELLİKLERİNİN ÖLÇÜLMESİ., 2005 - 2007

KARACAN I., Other International Funding Programs, Structural studies of flax fibres grown in the UK, as part of Non-wood cellulose fibres in non-woven fabrics, 1993 - 1994

KARACAN I., Other International Funding Programs, Processing and molecular orientation of one-way and two way drawn isotactic polypropylene and PVC films, 1990 - 1993

KARACAN I., Other International Funding Programs, Structural Studies of Thermotropic Polyesters and Polyesteramids, 1987 - 1990

Scientific Refereeing

JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, June 2018

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, June 2018

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, June 2018

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, June 2018

JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, May 2018

OPEN CHEMISTRY JOURNAL, SCI Journal, May 2018

JOURNAL OF MATERIALS SCIENCE, SCI Journal, May 2018

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, May 2018

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, April 2018

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, March 2018

FIBERS AND POLYMERS, SCI Journal, March 2018

TEKSTİL VE KONFEKSİYON, SCI Journal, March 2018

JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, March 2018

JOURNAL OF MATERIALS SCIENCE, SCI Journal, February 2018

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, February 2018

TEKSTİL VE KONFEKSİYON, SCI Journal, February 2018

JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, February 2018

ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, SCI Journal, February 2018

JOURNAL OF MATERIALS SCIENCE, SCI Journal, February 2018

ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, SCI Journal, January 2018
FIBERS AND POLYMERS, SCI Journal, January 2018
POLYMER ENGINEERING AND SCIENCE, SCI Journal, January 2018
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, January 2018
JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, December 2017
JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, December 2017
JOURNAL OF MATERIALS SCIENCE, SCI Journal, December 2017
ROYAL SOCIETY OF CHEMISTRY, POLYMER CHEMISTRY, SCI Journal, December 2017
PROJE HAKEMLİĞİ, Other Journals, November 2017
POLYMER ENGINEERING AND SCIENCE, SCI Journal, November 2017
THERMOCHIMICA ACTA, SCI Journal, November 2017
ROYAL SOCIETY OF CHEMISTRY ADVANCES, SCI Journal, October 2017
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, September 2017
JOURNAL OF MATERIALS SCIENCE, SCI Journal, September 2017
THERMOCHIMICA ACTA, SCI Journal, August 2017
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, August 2017
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, August 2017
JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, July 2017
JOURNAL OF MATERIALS SCIENCE, SCI Journal, June 2017
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, May 2017
JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, May 2017
FIBERS AND POLYMERS, SCI Journal, May 2017
CELLULOSE, SCI Journal, April 2017
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, April 2017
CARBON, SCI Journal, April 2017
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, March 2017
JOURNAL OF MATERIALS SCIENCE, SCI Journal, March 2017
CARBON, SCI Journal, March 2017
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, March 2017
JOURNAL OF MATERIALS SCIENCE, SCI Journal, February 2017
TEKSTİL VE MÜHENDİS, National Scientific Refreed Journal, February 2017
COMPOSITES PART-A, SCI Journal, February 2017
JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, February 2017
NANOSCALE, SCI Journal, January 2017
JOURNAL OF TEXTILE INSTITUTE, SCI Journal, January 2017
COMPOSITES PART-A, SCI Journal, January 2017
CELLULOSE, SCI Journal, January 2017
JOURNAL OF MATERIALS SCIENCE, SCI Journal, December 2016
NANOSCALE, SCI Journal, December 2016
JOURNAL OF MATERIALS SCIENCE, SCI Journal, December 2016
AR-GE MERKEZİ BAŞVURU DEĞERLENDİRME VE DENETİM KOMİSYONU, Other Journals, November 2016
JOURNAL OF MATERIALS SCIENCE, SCI Journal, October 2016
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, SCI Journal, October 2016
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, SCI Journal, October 2016
JOURNAL OF MATERIALS SCIENCE, SCI Journal, October 2016
JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, October 2016
JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, July 2016
JOURNAL OF MATERIALS SCIENCE, SCI Journal, July 2016
EUROPEAN POLYMER JOURNAL, SCI Journal, June 2016
JOURNAL OF MATERIALS SCIENCE, SCI Journal, June 2016
FIBERS AND POLYMERS, SCI Journal, May 2016

MATERIALS LETTERS, SCI Journal, April 2016
TUBITAK Project, April 2016
TUBITAK Project, April 2016
TUBITAK Project, April 2016
RSC ADVANCES, SCI Journal, March 2016
FIBERS AND POLYMERS, SCI Journal, February 2016
JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, December 2015
JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, November 2015
JOURNAL OF TEXTILE INSTITUTE, SCI Journal, November 2015
POLYMER ENGINEERING AND SCIENCE, SCI Journal, September 2015
JOURNAL OF MATERIALS SCIENCE, SCI Journal, August 2015
JOURNAL OF INDUSTRIAL TEXTILES, SCI Journal, August 2015
CARBON, SCI Journal, August 2015
Project Supported by Higher Education Institutions, August 2015
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, July 2015
CARBON, SCI Journal, June 2015
PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, June 2015
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, June 2015
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, June 2015
CARBON, SCI Journal, May 2015
TUBITAK Project, May 2015
TUBITAK Project, May 2015
TUBITAK Project, May 2015
TUBITAK Project, May 2015
FIBERS AND POLYMERS, SCI Journal, April 2015
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, April 2015
FIBERS AND POLYMERS, SCI Journal, March 2015
POLYMER ENGINEERING AND SCIENCE, SCI Journal, March 2015
COMPOSITES SCIENCE AND TECHNOLOGY, SCI Journal, March 2015
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, February 2015
THERMOCHIMICA ACTA, SCI Journal, November 2014
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, November 2014
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, October 2014
JOURNAL OF MATERIALS SCIENCE, SCI Journal, September 2014
JOURNAL OF MATERIALS SCIENCE, SCI Journal, August 2014
FIBERS AND POLYMERS, SCI Journal, August 2014
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, July 2014
FIBERS AND POLYMERS, SCI Journal, July 2014
JOURNAL OF MATERIALS SCIENCE, SCI Journal, July 2014
FIBERS AND POLYMERS, SCI Journal, May 2014
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, May 2014
TUBITAK Project, May 2014
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, April 2014
TUBITAK Project, April 2014
THERMOCHIMICA ACTA, SCI Journal, March 2014
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, January 2014
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, October 2013
MACROMOLECULAR RESEARCH, SCI Journal, September 2013
FIBERS AND POLYMERS, SCI Journal, September 2013
FIBERS AND POLYMERS, SCI Journal, August 2013
JOURNAL OF MATERIALS SCIENCE, SCI Journal, August 2013

EXPRESS POLYMER LETTERS, SCI Journal, August 2013
FIBERS AND POLYMERS, SCI Journal, August 2013
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, July 2013
FIBERS AND POLYMERS, SCI Journal, July 2013
JOURNAL OF MATERIALS SCIENCE, SCI Journal, July 2013
JOURNAL OF MATERIALS SCIENCE, SCI Journal, July 2013
FIBERS AND POLYMERS, SCI Journal, July 2013
TUBITAK Project, July 2013
JOURNAL OF MATERIALS SCIENCE, SCI Journal, June 2013
FIBERS AND POLYMERS, SCI Journal, June 2013
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, June 2013
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, June 2013
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, May 2013
FIBERS AND POLYMERS, SCI Journal, May 2013
INDUSTRIAL & ENGINEERING CHEMICAL RESEARCH, SCI Journal, May 2013
JOURNAL OF MATERIALS SCIENCE, SCI Journal, May 2013
FIBERS AND POLYMERS, SCI Journal, May 2013
TUBITAK Project, May 2013
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, April 2013
JOURNAL OF MATERIALS SCIENCE, SCI Journal, April 2013
JOURNAL OF MATERIALS SCIENCE, SCI Journal, April 2013
JOURNAL OF MATERIALS SCIENCE, SCI Journal, March 2013
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, February 2013
CARBON, SCI Journal, February 2013
JOURNAL OF MATERIALS SCIENCE, SCI Journal, February 2013
JOURNAL OF MATERIALS SCIENCE, SCI Journal, February 2013
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, February 2013
FIBERS AND POLYMERS, SCI Journal, February 2013
MACROMOLECULAR RESEARCH, SCI Journal, January 2013
FIBERS AND POLYMERS, SCI Journal, January 2013
OPTICS AND LASERS IN ENGINEERING, SCI Journal, November 2012
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, October 2012
TUBITAK Project, October 2012
TUBITAK Project, October 2012
TUBITAK Project, October 2012
TUBITAK Project, October 2012
OPTICS AND LASERS IN ENGINEERING, SCI Journal, September 2012
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, September 2012
TEKSTİL VE KONFEKSİYON, SCI Journal, July 2012
TUBITAK Project, April 2012
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, March 2012
EXPRESS POLYMER LETTERS, SCI Journal, February 2012
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, January 2012
TEKSTİL VE KONFEKSİYON, National Scientific Refreed Journal, December 2011
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, December 2011
TUBITAK Project, November 2011
TUBITAK Project, November 2011
TUBITAK Project, November 2011
TUBITAK Project, November 2011
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, August 2011
CARBON, SCI Journal, May 2011

CARBON, SCI Journal, April 2011
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, March 2011
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, February 2011
POLYMER ENGINEERING AND SCIENCE, SCI Journal, January 2011
Project Supported by Higher Education Institutions, January 2011
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, December 2010
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, June 2010
TUBITAK Project, May 2010
TUBITAK Project, May 2010
TUBITAK Project, May 2010
TUBITAK Project, May 2010
TUBITAK Project, May 2010
TUBITAK Project, May 2010
TUBITAK Project, April 2010
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, March 2010
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, February 2010
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, January 2010
JOURNAL OF BALKAN TRIBOLOGICAL SOCIETY, SCI Journal, December 2009
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, November 2009
TUBITAK Project, November 2009
TUBITAK Project, June 2009
TUBITAK Project, May 2009
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, April 2009
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, March 2009
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, February 2009
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, January 2009
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, December 2008
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, August 2008
TUBITAK Project, July 2008
TUBITAK Project, July 2008
TUBITAK Project, July 2008
TUBITAK Project, July 2008
JOURNAL OF THE TEXTILE INSTITUTE, SCI Journal, April 2008
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, January 2008
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, December 2007
TUBITAK Project, October 2007
TUBITAK Project, October 2007
TUBITAK Project, October 2007
TUBITAK Project, July 2007
TUBITAK Project, July 2007
TUBITAK Project, July 2007
TUBITAK Project, July 2007
TUBITAK Project, July 2007
TUBITAK Project, July 2007
TUBITAK Project, July 2007
TUBITAK Project, July 2007
TUBITAK Project, July 2007
TUBITAK Project, July 2007
TUBITAK Project, July 2007
MACROMOLECULES, SCI Journal, May 2007
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, March 2007
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, October 2006
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, July 2006

JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, June 2006
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, May 2006
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, March 2006
FIBERS AND TEXTILES IN EASTERN EUROPE, SCI Journal, December 2005
FIBERS AND TEXTILES IN EASTERN EUROPE, SCI Journal, November 2005
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, November 2005
FIBERS AND TEXTILES IN EASTERN EUROPE, SCI Journal, October 2005
FIBERS AND TEXTILES IN EASTERN EUROPE, SCI Journal, September 2005
FIBERS AND TEXTILES IN EASTERN EUROPE, SCI Journal, September 2005
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, July 2005
POLYMER ENGINEERING AND SCIENCE, SCI Journal, June 2005
JOURNAL OF APPLIED POLYMER SCIENCE, SCI Journal, June 2005
FIBERS AND TEXTILES IN EASTERN EUROPE, SCI Journal, January 2005

Scientific Consultations

TUBITAK, Project Consultancy, Erciyes University, Mühendislik Fakültesi, Tekstil Mühendisliği, Turkey, 2013 - 2015

Metrics

Publication: 76
Citation (WoS): 564
Citation (Scopus): 441
H-Index (WoS): 13
H-Index (Scopus): 12

Congress and Symposium Activities

The effects of dopant and solvent on morphology, conductivity and mechanical properties of polyacrylonitrile (PAN) / polyaniline (PANI) composite nanofibers, N. KIZILDAĞ, N. UÇAR, N. DEMİRSOY, E. SEZER, B. USTAMEHMETOĞLU, O. EREN, A. ÖNEN, İ. KARACAN, S. GÜNER, 6th International İstanbul Textile Conference on Future Technical Textiles (Oral Presentation), October, 2014, ISTANBUL (TURKEY), Attendee, İstanbul, Turkey, 2014

Effect of Amine-Functionalized Carbon Nanotubes on the Properties of CNT-PAN Composite Nanofibers, N. UÇAR, N. KIZILDAĞ, İSMAİL KARACAN, O. EREN, H. A. ÖNEN, N. DEMİRSOY, , In Proceedings of ICNET 2014 : International Conference on Nanoscience, Engineering and Technology, Vol. 8(8), pp521-524 (Oral Presentation), August-2014, Italy (Venice), Attendee, VENEDİK, Italy, 2014

Composite Polyacrylonitrile Nanofiber Containing Silver Nanoparticles, N. UÇAR, N. KIZILDAĞ, N. DEMİRSOY, Ö.F. VURUR, H. A. ÖNEN, O. EREN, İSMAİL KARACAN, In Proceedings of ICNET 2014 : International Conference on Nanoscience, Engineering and Technology, Vol. 8(8), pp515-517 (Oral Presentation), August-2014, Italy (Venice), Attendee, VENEDİK, Italy, 2014

The Effect of Polyaniline and Carbon Nanotubes on the Properties of PAN Nanofibers, O. EREN, N. KIZILDAĞ, İSMAİL KARACAN, N. UÇAR, H. A. ÖNEN, N. DEMİRSOY, In Proceedings of ICNET 2014 : International Conference on Nanoscience, Engineering and Technology, Vol. 8(8), pp515-517 (Oral Presentation), August-2014, Italy (Venice), Attendee, VENEDİK, Italy, 2014

The Importance of Reduction Methods and Ratio of PVP for Composite PAN-Silver Nanofiber, Ö.F. VURUR, B. USTAMEHMETOĞLU, M. TAŞCAN, N. KIZILDAĞ, N. UÇAR, E. SEZER, İSMAİL KARACAN, N. DEMİRSOY, H. A. ÖNEN ,O. EREN, 14th AUTEX World Textile Conference (Oral Presentation), May 2014, Turkey (Bursa), Attendee, BURSA, Turkey, 2014

Conducting Polyacrylonitrile (PAN)/Polyaniline (PANI) Composite Nanofibers Produced by Electrospinning Method, N.

KIZILDAĞ, N. DEMİRSOY, İSMAİL KARACAN, B. USTAMEHMETOĞLU, N. UÇAR, O. EREN, E. SEZER, Fiber Society's Spring 2014 Conference (Oral Presentation), May 2014, Czech Republic (Liberec), Attendee, LIBEREC, Czech Republic, 2014

PAN/CNT/AgNP composite nanowebs: Effect of CNT functionalization and Ag+ reduction on properties of composite nanofiber webs, İSMAİL KARACAN, N. UÇAR, H.A. ÖNEN, N. KIZILDAĞ, Nanotech Tunisia 2014 and MEET Tunisia 2014 international joint Conferences and Exhibition (Oral Presentation), April 2014, Tunisia (Hamamet), Attendee, HAMAMET, Tunisia, 2014

The Effect of Modified CNT and Processing Parameters on Properties of CNT-PAN Composite Nanofiber Web, O. EREN, H. A. ÖNEN, M. TAŞCAN, B. USTAMEHMETOĞLU, N. KIZILDAĞ, E. SEZER, N. UÇAR, H. AÇIKGÖZ, İSMAİL KARACAN, 13th İzmir Textile and Apparel Symposium (Oral Presentation), April 2014, Turkey (Antalya), Attendee, ANTALYA, BELEK, Turkey, 2014

Characterization of crystallization and molecular orientation of polyester nanofibers, Şebnem Düzyer, Ash Hockenberger and ISMAIL KARACAN, Proceedings of NanoTR6, 6th Nanoscience and Nanotechnology Conference (Oral Presentation), Attendee, ÇEŞME, Turkey, 2010

Studies of structure-property relationships in high performance fibres, ISMAIL KARACAN, N. Shah, V. Markova, and B. Dal, The Extended Abstracts of The Polymer Processing Society, 14th Annual Conference, (Oral Presentation), Attendee, YOKOHOMA, Japan, 1998

Structure and properties of high performance fibres produced from wholly aromatic polymers, I. Karacan, N. Shah and V.R. Markova, Abstracts of the Fibre Society Fall General Conference, Tennessee (Oral Presentation), Attendee, KNOXVILLE, United States Of America, 1997

Structural studies of high performance fibres produced from liquid crystalline polymers, I. Karacan, Proceedings of 4th Asian Textile Conference, Taipei, Taiwan, Republic of China, pp 162- 68 (Oral Presentation), Attendee, TAICHUNG, Thailand, 1997

The use of infra-red and Raman spectroscopy in the structural studies of high performance fibres, I. Karacan, Proceedings of The Textile Institute Yarn and Fibre Science Joint Conference, Section A Paper 3 (Oral Presentation), Attendee, MANCHESTER, United Kingdom, 1996

Structural studies of liquid crystalline polyesters, I. Karacan, Proceedings of VIIth International İzmir Textile and Apparel symposium, pp. F148-160 (Oral Presentation), Attendee, ÇEŞME, Turkey, 1996

Non-wood cellulose fibres in non-woven fabrics, I.A. Ansari, D.J. Johnson and I. Karacan, Proceedings of Pira International / Silsoe Research Institute Joint Conference, Volume II, Paper 26, Non-wood fibres for industry, 23-24 March 1994, Silsoe Research Institute (Oral Presentation), Attendee, BEDFORDSHIRE, United Kingdom, 1994

Characterisation of orientation of one-way and two-way drawn PVC films, I. Karacan, D.I. Bower, and I.M. Ward, IRC in Polymer Science and Technology, University of Leeds, IRC industrial club members meeting, (Poster Presentation), Attendee, LEEDS, United Kingdom, 1993

Molecular orientation in one-way and two-way drawn polypropylene films, I. Karacan, D.I. Bower, and I.M. Ward, IRC in Polymer Science and Technology, University of Leeds, IRC industrial club members meeting, (Poster Presentation), Attendee, LEEDS, United Kingdom, 1993

The use of molecular modelling in the development of high-strength high-modulus fibres, J.G. Tomka, D.J. Johnson, and I. Karacan, Proceedings of 2nd Textile Science, pp 45-53 (Oral Presentation), Attendee, LIBEREC, Czech Republic, 1993

Molecular orientation in uniaxially oriented PVC films, I. Karacan, D.I. Bower, and I.M. Ward, IRC in Polymer Science and Technology, University of Leeds, 65th Birthday Conference in honour of Prof. I.M. Ward, (Poster Presentation), Attendee, LEEDS, United Kingdom, 1993

Molecular Modelling of Thermotropic Liquid Crystalline Polymers, I. Karacan, D.J. Johnson and J.G. Tomka, San Fransisco Meeting of American Chemical Society (Oral Presentation), Attendee, SAN FRANSISCO, United States Of America, 1992

Modelling of high performance fibres: I. Karacan, D.J. Johnson, and J.G. Tomka, 4th International Conference on Polymer Processing Machinery, IRC in Polymer Science and Technology and the Plastics and Rubber Institute, (Poster Presentation), Attendee, BRADFORD, United Kingdom, 1991

Molecular modelling of thermotropic polyesters: I. Karacan, D.J. Johnson and J.G. Tomka, Polymer Processing, Structure and Properties Conference organized by IRC in Polymer Science and Technology, Bodington Hall, University of Leeds, (Poster Presentation), Attendee, LEEDS, United Kingdom, 1991

Molecular Modelling of Thermotropic Liquid Crystalline Polymers, I. Karacan, D.J. Johnson and J.G. Tomka, Physical Aspects of Polymer Science, IRC in Polymer Science and Technology (Oral Presentation), Attendee, LEEDS, United

Kingdom, 1991

Molecular and microstructural modelling of fibres, D.J. Johnson, I. Karacan and J.G. Tomka, in 'Proceedings of the International Conference on Fibre and Textile Science', The Institute of Textile Science, pp 93-98 (Oral Presentation), Attendee, OTTOWA, Canada, 1991

Chain Modelling in the development of main-chain thermotropic copolyesters, D.J. Johnson, I. Karacan and J.G. Tomka, Abstracts of the Sixth Annual Meeting of the Polymer Processing Society (Oral Presentation), Attendee, PARIS, France, 1990

Chain modelling in the development of main-chain thermotropic copolyesters, D.J. Johnson, I.Karacan and J.G. Tomka, 6th Annual Meeting of the Polymer Processing Society, (Poster Presentation), Attendee, NICE, France, 1990

Structure and properties of liquid crystalline copolyesters, D.J. Johnson, I.Karacan and J.G. Tomka, Speciality Polymers'88, 3rd Conference on New Polymeric Materials, 1988 (Poster Presentation), Attendee, CAMBRIDGE, United Kingdom, 1988

Scholarships

Yabancı dil, lisans ve lisans üstü (Doktora) eğitim bursu (İngiltere), Sümerbank (1977-1986), Other Government Agencies, 1980 - Continues

Awards

KARACAN I., BİLİMSEL YAYIN ÖDÜLÜ, TÜBİTAK, December 2013

KARACAN I., BİLİMSEL YAYIN ÖDÜLÜ, TÜBİTAK, December 2012

KARACAN I., BİLİMSEL YAYIN ONUR ÖDÜLÜ, ERCİYES ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ, October 2012

KARACAN I., BİLİMSEL YAYIN ÖDÜLÜ, TÜBİTAK, November 2011

KARACAN I., BİLİMSEL YAYIN ONUR ÖDÜLÜ, ERCİYES ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ, October 2005

KARACAN I., FELLOW OF THE TEXTILE INSTITUTE, THE TEXTILE INSTITUTE, UNITED KINGDOM, March 1996

KARACAN I., CHARTERED PHYSICIST, THE INSTITUTE OF PHYSICS, UNITED KINGDOM, January 1994

KARACAN I., ASSOCIATE OF THE TEXTILE INSTITUTE, THE TEXTILE INSTITUTE, UNITED KINGDOM, January 1990

Non Academic Experience

Ay-Star Tekstil Ltd Şti.

Business Establishment Private, Ay-Star Tekstil Ltd. Şti., Kalite-Kontrol

Other Public Institution, Tubitak, Tekstil Enstitüsü

TUBİTAK, Tekstil Enstitüsü (Bursa)

Business Establishment Private, Korteks Mensucat Sanayi Ve Ticaret Aş, Bursa, Araştırma-Geliştirme

Korteks Mensucat Ticaret ve Sanayi AŞ

Leeds University, Department of Textile Industries

Leeds University, Interdisciplinary Research Center in Polymer Science and Technology

Leeds University, Department of Textile Industries