

Prof. İSMAİL KARACAN

Personal Information

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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

Under Graduate, 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 Üniversitesi, Mühendislik Fakültesi, Tekstil Mühendisliği, 2012 - Continues

Associate Professor, Erciyes Üniversitesi, Mühendislik Fakültesi, Tekstil Mühendisliği, 2006 - 2012

Assistant Professor, Erciyes Üniversitesi, Mühendislik Fakültesi, Tekstil Mühendisliği, 2004 - 2006

Assistant Professor, Manchester Institute Of Science And Technology, Mühendislik Fakültesi, Tekstil Mühendisliği, 1994 - 1998

Professional Experience

Head of Department, Erciyes Üniversitesi, Mühendislik Fakültesi, Tekstil Mühendisliği, 2004 - Continues

BAP Scientific Commissioner, Erciyes Üniversitesi, Mühendislik Fakültesi, Tekstil Mühendisliği, 2006 - 2009

Fakülte Akademik Kurul Üyesi, Erciyes Üniversitesi, Mühendislik Fakültesi, Tekstil Mühendisliği, 2006 - 2009

Deputy Head of Department, Erciyes Üniversitesi, Mühendislik Fakültesi, Tekstil Mühendisliği, 2004 - 2009

Courses

LİF BİLGİSİ , Under Graduate, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015

YÜKSEK PERFORMANSLI LİF ÜRETİM TEKNOLOJİLERİ, Post Graduate, 2014 - 2015

POLİMER KİMYASINA GİRİŞ, Under Graduate, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015

AKILLI LİF TEKNOLOJİLERİ, Doctorate, 2008 - 2009, 2009 - 2010, 2011 - 2012, 2012 - 2013, 2014 - 2015

TEKSTİL İPLİK TEKNOLOJİSİ, Under Graduate, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015

YAPAY LİF ÜRETİM TEKNİKLERİ, Post Graduate, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015

İLİMLERİNDE ÖZEL KONULAR, Doctorate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015

YÜKSEK MODÜLLÜ LİF TEKNOLOJİLERİ, Post Graduate, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2011 - 2012, 2012 - 2013, 2013 - 2014

DOKUSUZ YÜZEY TEKNOLOJİLERİ, Under Graduate, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015

TEKSTİL ENDÜSTRİSİNDE NANOBİLİM VE NANOTEKNOLOJİ, Under Graduate, 2013 - 2014

BITİRME ÖDEVİ, Under Graduate, 2009 - 2010, 2010 - 2011, 2011 - 2012

YÜKSEK MODÜLLÜ LİF TEKNOLOJİLERİ, Post Graduate, 2010 - 2011

TEKSTİL VE POLİMER FİZİĞİNİN ESASLARI, Doctorate, 2009 - 2010

YABANCI DİLDE OKUMA VE KONUSMA, Under Graduate, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010

BITİRME ÖDEVİ, Under Graduate, 2008 - 2009

MESLEKİ YABANCI DİL I, Under Graduate, 2006 - 2007, 2007 - 2008, 2008 - 2009

LİF BİLGİSİ , Under Graduate, 2005 - 2006

FINAL YEAR PROJECT (MANCHESTER UNIVERSITY), Under Graduate, 1994 - 1995, 1995 - 1996, 1996 - 1997, 1997 - 1998

HIGH PERFORMANCE FIBRES (MANCHESTER UNIVERSITY) , Post Graduate, 1995 - 1996, 1996 - 1997, 1997 - 1998

COMPUTING PRACTICALS (MANCHESTER UNIVERSITY), Under Graduate, 1994 - 1995, 1995 - 1996, 1996 - 1997, 1997 - 1998

MICROSCOPY AND IMAGE ANALYSIS (MANCHESTER UNIVERSITY) , Under Graduate, 1994 - 1995, 1995 - 1996, 1996 - 1997, 1997 - 1998

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

HIGH PERFORMANCE FIBRES (MANCHESTER UNIVERSITY) , Post Graduate, 1994 - 1995

Advising Theses

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

KARACAN I., Hızlandırılmış Oksidasyon Aşamasının Poliakrilonitril (PAN) esaslı Karbon Lif Üretimi Sırasında Değerlendirilmesi ve Etkilerinin Araştırılması, Post Graduate, 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, Post Graduate, 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, Post Graduate, O.AYAS(Student), 2015

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

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

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

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

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

KARACAN I., Türkiye’de Üretilen Polipropilen Liflerinin Üretim Parametreleri-Mekanik Özellikleri-Molekül Yapısı Arasındaki İlişkilerin Araştırılması ve Bu İlişkilerin İyileştirilmesi, Post Graduate, 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

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

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)

- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)

- XIX. **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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)
- XXIX. **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 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI)

- XXXI. **Molecular structure and orientation of gel-spun polyethylene fibers**
Karacan I.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.101, no.3, pp.1317-1333, 2006 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI)
- XXXVI. **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 (Journal Indexed in SCI)
- XXXVII. **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 (Journal Indexed in SCI Expanded)
- XXXVIII. **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 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **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 (Journal Indexed in SCI)
- XLI. **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 (Journal Indexed in SCI)
- XLII. **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 (Journal Indexed in SCI)
- XLIII. **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 (Journal Indexed in SCI)
- XLIV. **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 (Journal Indexed in SCI)

- XLV. **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 (Journal Indexed in SCI)
- XLVI. **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 (Journal Indexed in SCI)
- XLVII. **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 (Journal Indexed in SCI)
- XLVIII. **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 (Journal Indexed in SCI)
- XLIX. **"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 (Journal Indexed in SCI)

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 I., GUNER S.
TEKSTİL VE MÜHENDİS, vol.22, no.97, pp.1-6, 2015 (National Refreed University Journal)
- 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 I.
International Journal of Chemical, Nuclear, Metallurgical and Materials Engineering, vol.8, no.8, pp.668-670, 2014 (National Non-Refereed 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 I.
International Journal of Chemical, Nuclear, Metallurgical and Materials Engineering, vol.8, no.8, pp.671-673, 2014 (Non-Refreed 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 açılı X-ışını difraksiyonu metodları ile tayini**
Bozdoğan F., KARACAN İ.
TEKSTİL VE MÜHENDİS, vol.87, pp.166-172, 2000 (Other Refereed National Journals)
- V. **High Performance Aramid Fibres and Their Characteristics**
KARACAN İ.
Tekstil Maraton, vol.46, pp.14-26, 2000 (Other Refereed National Journals)
- VI. **Structural Characterisation of high performance aramid fibres**
KARACAN İ.
Journal for Asia on Textile and Apparel, pp.77-80, 1998 (Non-Refreed 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-Refreed Journal)
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KARACAN İ., WANG I.

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

Awards

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

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

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

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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

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

Other Public Institution, Tubitak, Tekstil Enstitüsü

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