

## Prof. MEHMET KARAHAN



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### Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Tekstil Mühendisliği (Dr), Turkey 1994 - 1999

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Tekstil Mühendisliği (YI) (Tezli), Turkey 1991 - 1994

Undergraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, Tekstil Mühendisliği Bölümü, Turkey 1987 - 1991

### Research Areas

Technical Textiles

### Academic Titles / Tasks

Professor, Bursa Uludağ University, TEKNİK BİLİMLER MYO, TEKSTİL, GİYİM, AYAKKABI VE DERİ, 2014 - Continues

Associate Professor, Bursa Uludağ University, TEKNİK BİLİMLER MYO, TEKSTİL, GİYİM, AYAKKABI VE DERİ, 2009 - 2014

Assistant Professor, Bursa Uludağ University, TEKNİK BİLİMLER MYO, TEKSTİL, GİYİM, AYAKKABI VE DERİ, 2000 - 2009

Lecturer PhD, Bursa Uludağ University, TEKNİK BİLİMLER MYO, TEKSTİL, GİYİM, AYAKKABI VE DERİ, 1998 - 2000

Research Assistant, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, TEKSTİL MÜHENDİSLİĞİ, 1993 - 1998

### Academic and Administrative Experience

Head of Department, Bursa Uludağ University, Teknik Bilimler Myo, Tasarım, 2018 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- Comparative study of virgin and recycled polyethylene terephthalate and polypropylene intermingled thermoplastic composites**

Karahan M., Ozyurt I., Atalay S. O., Turan S. Y., Haji A., Karahan N.

POLYMER COMPOSITES, 2024 (SCI-Expanded)

- II. **Relationship between elastic properties and energy absorption of different types of aramid and UHMWPE composites used in ballistic protection** Relația dintre proprietățile elastice și absorbția de energie a diferitelor tipuri de compozite cu fibre aramidice și UHMWPE utilizate în protecția balistică  
Ari A., KARAHAN M.  
Industria Textila, vol.75, no.4, pp.484-497, 2024 (SCI-Expanded)
- III. **The comparative analysis of energy dissipation behaviour of woven and UD para-aramid fabrics** Analiza comparativă a comportamentului de disipare al energiei a materialelor para-aramidice țesute și unidirecționale  
Ari A., KARAHAN M.  
Industria Textila, vol.75, no.5, pp.658-668, 2024 (SCI-Expanded)
- IV. **Mechanical properties of aramid and UHMWPE thermoplastic composites: numerical and experimental trials** Proprietățile mecanice ale compozitelor termoplastice din fibre aramidice și UHMWPE: încercări numerice și experimentale  
Ari A., KARAHAN M., Nasır M. A.  
Industria Textila, vol.75, no.5, pp.633-643, 2024 (SCI-Expanded)
- V. **Comparison of mechanical and flammability properties of thermoplastic and thermoset matrix glass fibre woven fabric composites** Comparația proprietăților mecanice și de inflamabilitate ale compozitelor din țesături din fibră de sticlă termoplastică și matrice termofixată  
Ari A., KARAHAN M., KARAHAN N., Yedekçi B.  
Industria Textila, vol.75, no.5, pp.565-576, 2024 (SCI-Expanded)
- VI. **Comparative analysis of natural fibres characteristics as composite reinforcement**  
Ari A., KARAHAN M., Kopar M., Ahrari M., Khan R. M. W. U., Hussain M.  
INDUSTRIA TEXTILA, vol.74, no.4, pp.403-411, 2023 (SCI-Expanded)
- VII. **Comparative evaluation of mechanical properties of short aramid fiber on thermoplastic polymers**  
Ari A., BAYRAM A., KARAHAN M., Arslan O.  
MATERIALS SCIENCE-POLAND, vol.41, no.1, pp.161-176, 2023 (SCI-Expanded)
- VIII. **A Review of Cellulosic Natural Fibers' Properties and Their Suitability as Reinforcing Materials for Composite Panels and Applications**  
Ari A., KARAHAN M., Ahmed H. A. M., Babiker O., Dehset R. M. A.  
AATCC JOURNAL OF RESEARCH, vol.10, no.3, pp.163-183, 2023 (SCI-Expanded)
- IX. **Investigation of impact properties of para-aramid composites made with a thermoplastic-thermoset blend**  
Khan M. I., Umair M., Hussain R., KARAHAN M., Nawab Y.  
JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, vol.36, no.2, pp.866, 2023 (SCI-Expanded)
- X. **Evaluation of the mechanical properties of chopped carbon fibre reinforced polypropylene, polyethylene, polyamide 6, and polyamide 12 composites**  
Ali A., Ali B., KARAHAN M., Secgin K.  
INDUSTRIA TEXTILA, vol.74, no.2, pp.175-183, 2023 (SCI-Expanded)
- XI. **Modeling the consumption of sewing thread for stitch class 301 through image analysis by using Fourier series**  
Javed Z., Ahmad F., Khan Q., Naeem M. S., Javaid M. U., Jabbar A., Hassan Z., KARAHAN M.  
TEXTILE RESEARCH JOURNAL, vol.92, no.15-16, pp.2792-2799, 2022 (SCI-Expanded)
- XII. **Comparison of the mechanical properties of chopped glass, carbon, and aramid fiber reinforced polypropylene**  
Ari A., BAYRAM A., KARAHAN M., Karagoz S.  
POLYMERS & POLYMER COMPOSITES, vol.30, 2022 (SCI-Expanded)
- XIII. **The effect of manufacturing parameters on various composite plates under ballistic impact**  
Ari A., Karahan M., Kopar M., Ahrari M.  
Polymers and Polymer Composites, vol.30, 2022 (SCI-Expanded)

- XIV. **Geometrical Model to Determine Sewing Thread Consumption for Stitch Class 406**  
Rehman A. u., Rasheed A., Javed Z., Naeem M. S., Ramzan B., Karahan M.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.29, no.6, pp.72-76, 2021 (SCI-Expanded)
- XV. **Comparative Analysis of the Performances of Six Taguchi-Based Multi-Response Optimisation Techniques for Product Development in Textiles**  
Ahmad N., Kamal S., Raza Z. A., Abid S., Javed Z., KARAHAN M.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.29, no.5, pp.100-108, 2021 (SCI-Expanded)
- XVI. **Adsorption Kinetics of an Activated Carbon Glass Composite Prepared Using Acrylic Waste Through Laser Treatment**  
Gilani S. Q. Z., Wiener J., Naeem M. S., Javed Z., Jabbar A., Abid H. A., KARAHAN M.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.29, no.4, pp.81-89, 2021 (SCI-Expanded)
- XVII. **Evaluation of photovoltaic panels using different nano phase change material and a concise comparison: An experimental study**  
Jamil F., Ali H. M., Nasir M. A., KARAHAN M., Janjua M., Naseer A., Ejaz A., Pasha R. A.  
Renewable Energy, vol.169, pp.1265-1279, 2021 (SCI-Expanded)
- XVIII. **Multi-Response Optimisation for the Development of an Activated Carbon Web as Interlining for Higher Electrical Conductivity and EMI Shielding Using Grey Relational Analysis**  
Naeem M. S., Ahmad N., Javed Z., Jabbar A., Rehman A. U., Zubair M., Gilani S. Q. Z., Ahmad Z., Karahan M.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.29, no.1, pp.57-65, 2021 (SCI-Expanded)
- XIX. **Influence of Chemical Treatments and Nanocellulose Spray Coating on the Mechanical, Low Velocity Impact and Compression after Impact Performance of Nonwoven Jute Composites**  
Jabbar A., Hussain J., Basit A., Naeem M. S., Javaid M. U., KARAHAN M., Nazir A.  
JOURNAL OF NATURAL FIBERS, vol.17, no.12, pp.1785-1797, 2020 (SCI-Expanded)
- XX. **Mechanical Response of Novel 3D Woven Flax Composites with Variation in Z Yarn Binding**  
Jabbar M., Nawab Y., KARAHAN M., Ashraf M., Hussain T.  
JOURNAL OF NATURAL FIBERS, vol.17, no.6, pp.890-905, 2020 (SCI-Expanded)
- XXI. **Effect of silica nanoparticles on mechanical properties of Kevlar/epoxy hybrid composites**  
Jabbar M., KARAHAN M., Nawab Y., Ashraf M., Hussain T.  
JOURNAL OF THE TEXTILE INSTITUTE, vol.110, no.4, pp.606-613, 2019 (SCI-Expanded)
- XXII. **Experimental analysis of ILSS of glass fibre reinforced thermoplastic and thermoset textile composites enhanced with multiwalled carbon nanotubes**  
Zahid S., Nasir M. A., Nauman S., KARAHAN M., Nawab Y., Ali H. M., Khalid Y., Nabeel M., Ullah M.  
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.33, no.1, pp.197-204, 2019 (SCI-Expanded)
- XXIII. **The solar properties of fabrics produced using different weft yarns**  
YILDIRIM K., Kanber A., KARAHAN M., KARAHAN N.  
TEXTILE RESEARCH JOURNAL, vol.88, no.13, pp.1543-1558, 2018 (SCI-Expanded)
- XXIV. **Study of influence of interlocking patterns on the mechanical performance of 3D multilayer woven composites**  
Umair M., Hamdani S. T. A., Asghar M. A., Hussain T., KARAHAN M., Nawab Y., Ali M.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.37, no.7, pp.429-440, 2018 (SCI-Expanded)
- XXV. **Mechanical Behaviour of Hybrid Composites Developed from Textile Waste**  
Masood Z., Ahmad S., Umair M., Shaker K., Nawab Y., KARAHAN M.  
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- XXVI. **Evaluation of Foot Protection Effectiveness Against AP Mine Blasts: Effect of Deflector Geometry**  
Kamberoglu M., KARAHAN M., Alpdogan C., KARAHAN N.  
JOURNAL OF TESTING AND EVALUATION, vol.45, no.2, pp.356-368, 2017 (SCI-Expanded)
- XXVII. **Interdependence of moisture, mechanical properties, and hydrophobic treatment of jute fibre-reinforced composite materials**  
Ameer M. H., Shaker K., Ashraf M., KARAHAN M., Nawab Y., Ahmad S., Nasir M. A.  
JOURNAL OF THE TEXTILE INSTITUTE, vol.108, no.10, pp.1768-1776, 2017 (SCI-Expanded)
- XXVIII. **Study of dynamic compressive behaviour of aramid and ultrahigh molecular weight polyethylene**

**composites using Split Hopkinson Pressure Bar**

Shaker K., Jabbar A., KARAHAN M., KARAHAN N., Nawab Y.

JOURNAL OF COMPOSITE MATERIALS, vol.51, no.1, pp.81-94, 2017 (SCI-Expanded)

- XXXIX. **Development of an innovative sandwich composite material for protection of lower limb against landmine explosion: mechanical leg test results**  
KARAHAN M., Karahan E. A.  
TEXTILE RESEARCH JOURNAL, vol.87, no.1, pp.15-30, 2017 (SCI-Expanded)
- XXX. **Investigation of mechanical behavior of woven/knitted hybrid composites**  
Ashraf W., Nawab Y., Umair M., Shaker K., KARAHAN M.  
JOURNAL OF THE TEXTILE INSTITUTE, vol.108, no.9, pp.1510-1517, 2017 (SCI-Expanded)
- XXXI. **Development of an innovative sandwich composites for the protection of lower limbs against landmine explosions**  
KARAHAN M., KARAHAN N.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.35, no.24, pp.1776-1791, 2016 (SCI-Expanded)
- XXXII. **Static and Dynamic Mechanical Properties of Cotton/Epoxy Green Composites**  
Koyuncu M., KARAHAN M., KARAHAN N., Shaker K., Nawab Y.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.24, no.4, pp.105-111, 2016 (SCI-Expanded)
- XXXIII. **Investigation of the Properties of Natural Fibre Woven Fabrics as a Reinforcement Materials for Green Composites**  
KARAHAN M., Ozkan F., YILDIRIM K., KARAHAN N.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.24, no.4, pp.98-104, 2016 (SCI-Expanded)
- XXXIV. **Static and dynamic mechanical properties of novel treated jute/green epoxy composites**  
Jabbar A., Militky J., Wiener J., KARAHAN M.  
TEXTILE RESEARCH JOURNAL, vol.86, no.9, pp.960-974, 2016 (SCI-Expanded)
- XXXV. **Low Velocity Impact Behaviour of Aramid and UHMWPE Composites**  
KARAHAN M., YILDIRIM K.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.23, no.3, pp.97-105, 2015 (SCI-Expanded)
- XXXVI. **Investigation of the tensile properties of natural and natural/synthetic hybrid fiber woven fabric composites**  
KARAHAN M., KARAHAN N.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.34, no.10, pp.795-806, 2015 (SCI-Expanded)
- XXXVII. **Ballistic impact behavior of the aramid and ultra-high molecular weight polyethylene composites**  
KARAHAN M., Jabbar A., KARAHAN N.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.34, no.1, pp.37-48, 2015 (SCI-Expanded)
- XXXVIII. **Monitoring of acoustic emission damage during tensile loading of 3D woven carbon/epoxy composites**  
Lomov S. V., Karahan M., Bogdanovich A. E., Verpoest I.  
TEXTILE RESEARCH JOURNAL, vol.84, no.13, pp.1373-1384, 2014 (SCI-Expanded)
- XXXIX. **Effect of Weaving Structure and Hybridization on the Low-Velocity Impact Behavior of Woven Carbon-Epoxy Composites**  
KARAHAN M., KARAHAN N.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.22, no.3, pp.109-115, 2014 (SCI-Expanded)
- XL. **Influence of weaving structure and hybridization on the tensile properties of woven carbon-epoxy composites**  
KARAHAN M., KARAHAN N.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.33, no.2, pp.212-222, 2014 (SCI-Expanded)
- XLI. **Quasi-static tensile behavior and damage of carbon/epoxy composite reinforced with 3D non-crimp orthogonal woven fabric**  
Bogdanovich A. E., Karahan M., Lomov S. V., Verpoest I.  
MECHANICS OF MATERIALS, vol.62, pp.14-31, 2013 (SCI-Expanded)
- XLII. **Static behavior of three-dimensional integrated core sandwich composites subjected to three-point**

## **bending**

KARAHAN M., Gul H., KARAHAN N., Ivens J.

JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.32, no.9, pp.664-678, 2013 (SCI-Expanded)

- XLIII. **Influence of carbon nanotubes grown on the fibres on damage progression in woven carbon-epoxy composites**  
KARAHAN M., Godara A.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.32, no.8, pp.515-524, 2013 (SCI-Expanded)
- XLIV. **Quasi-static behavior of three-dimensional integrated core sandwich composites under compression loading**  
KARAHAN M., KARAHAN N., Gul H., Ivens J.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.32, no.5, pp.289-299, 2013 (SCI-Expanded)
- XLV. **Influence of Stitching Parameters on Tensile Strength of Aramid/Vinyl Ester Composites**  
KARAHAN M., ULCAI Y., KARAHAN N., KUŞ A.  
MATERIALS SCIENCE-MEDZIAGOTYRA, vol.19, no.1, pp.67-72, 2013 (SCI-Expanded)
- XLVI. **Low velocity impact characteristics of 3D integrated core sandwich composites**  
KARAHAN M., Gul H., Ivens J., Karahan N.  
TEXTILE RESEARCH JOURNAL, vol.82, no.9, pp.945-962, 2012 (SCI-Expanded)
- XLVII. **The effect of fibre volume fraction on damage initiation and propagation of woven carbon-epoxy multi-layer composites**  
Karahan M.  
TEXTILE RESEARCH JOURNAL, vol.82, no.1, pp.45-61, 2012 (SCI-Expanded)
- XLVIII. **Fatigue tensile behavior of carbon/epoxy composite reinforced with non-crimp 3D orthogonal woven fabric**  
Karahan M., Lomov S. V., Bogdanovich A. E., Verpoest I.  
COMPOSITES SCIENCE AND TECHNOLOGY, vol.71, no.16, pp.1961-1972, 2011 (SCI-Expanded)
- XLIX. **Investigation of damage initiation and propagation in 2 x 2 twill woven carbon/epoxy multi-layer composites**  
Karahan M.  
TEXTILE RESEARCH JOURNAL, vol.81, no.4, pp.412-428, 2011 (SCI-Expanded)
- L. **Compressibility of carbon woven fabrics with carbon nanotubes/nanofibres grown on the fibres**  
Lomov S. V., Gorbatiikh L., Kotanjac Z., Koissin V., Houille M., Rochez O., KARAHAN M., Mezzo L., Verpoest I.  
COMPOSITES SCIENCE AND TECHNOLOGY, vol.71, no.3, pp.315-325, 2011 (SCI-Expanded)
- LI. **Internal geometry evaluation of non-crimp 3D orthogonal woven carbon fabric composite**  
Karahan M., Lomov S. V., Bogdanovich A. E., Mungalov D., Verpoest I.  
COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, vol.41, no.9, pp.1301-1311, 2010 (SCI-Expanded)
- LII. **Investigation into the Tensile Properties of Stitched and Unstitched Woven Aramid/Vinyl Ester Composites**  
KARAHAN M., KARAHAN N., ULCAI Y., EREN R., Kaynak G.  
TEXTILE RESEARCH JOURNAL, vol.80, no.10, pp.880-891, 2010 (SCI-Expanded)
- LIII. **COMPRESSIBILITY OF CNT-GRAFTED FIBROUS REINFORCEMENTS: A THEORY**  
Lomov S. V., Koissin V., Karahan M., Godara A., Gorbatiikh L., Verpoest I.  
INTERNATIONAL JOURNAL OF MATERIAL FORMING, vol.3, pp.627-630, 2010 (SCI-Expanded)
- LIV. **A comparative study of tensile properties of non-crimp 3D orthogonal weave and multi-layer plain weave E-glass composites. Part 1: Materials, methods and principal results**  
Lomov S. V., Bogdanovich A. E., Ivanov D. S., Mungalov D., KARAHAN M., Verpoest I.  
COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, vol.40, no.8, pp.1134-1143, 2009 (SCI-Expanded)
- LV. **A comparative study of tensile properties of non-crimp 3D orthogonal weave and multi-layer plain weave E-glass composites. Part 2: Comprehensive experimental results**  
Ivanov D. S., Lomov S. V., Bogdanovich A. E., KARAHAN M., Verpoest I.  
COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, vol.40, no.8, pp.1144-1157, 2009 (SCI-Expanded)
- LVI. **Comparison of ballistic performance and energy absorption capabilities of woven and unidirectional**

## **aramid fabrics**

Karahan M.

TEXTILE RESEARCH JOURNAL, vol.78, no.8, pp.718-730, 2008 (SCI-Expanded)

- LVII. **An investigation into ballistic performance and energy absorption capabilities of woven aramid fabrics**  
KARAHAN M., KUŞ A., EREN R.  
INTERNATIONAL JOURNAL OF IMPACT ENGINEERING, vol.35, no.6, pp.499-510, 2008 (SCI-Expanded)
- LVIII. **Experimental investigation of the effect of fabric construction on dynamic water absorption in terry fabrics**  
Karahan M.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.15, no.3, pp.74-80, 2007 (SCI-Expanded)
- LIX. **Experimental investigation of the effect of fabric parameters on static water absorption in terry fabrics**  
Karahan M., Eren R.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.14, no.2, pp.59-63, 2006 (SCI-Expanded)
- LX. **An investigation into the parameters of terry fabrics regarding the production**  
Karahan M., Eren R., Alpay H.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.13, no.2, pp.20-25, 2005 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **A Case Study of Sectoral Vocational Competence and Training Centre; Evaluation of In-Service Teacher Trainings for Hybrid and Electric Vehicles**  
Arslan R., Karahan M., Kuş A.  
RECENT Journal, vol.73, no.2, pp.114-121, 2024 (Peer-Reviewed Journal)
- II. **Preliminary Analysis in Clustering and Supply Chain Creation: A Regional Case Study**  
Arı A., Karahan M., Karahan N.  
RECENT Journal, vol.73, no.2, pp.80-91, 2024 (Peer-Reviewed Journal)
- III. **Cluster Governance Analysis in Technical Textiles and Composite Materials Sector: A Regional Case Study**  
Karahan M., Karahan N., Arı A.  
RECENT Journal, vol.73, no.2, pp.92-100, 2024 (Peer-Reviewed Journal)
- IV. **Cluster Strategy in Technical Textiles and Composite Materials Sector: A Regional Case Study**  
Karahan M., Karahan N., Arı A.  
RECENT Journal, vol.73, no.2, pp.101-113, 2024 (Peer-Reviewed Journal)
- V. **Market Trends of Türkiye Textile and Composite Industries: A Regional-Global Case Study**  
Karahan N., Karahan M., Arı A.  
Recent Journal, vol.72, no.1, pp.40-54, 2024 (Peer-Reviewed Journal)
- VI. **Competency Mapping of Textile and Composite Industries: A Regional-Global Case Study**  
Arı A., Karahan M., Karahan N.  
Recent Journal, vol.72, no.1, pp.20-39, 2024 (Peer-Reviewed Journal)
- VII. **Examination of R&D Capacity in the Technical Textile Sector: A Regio-Global Case Study**  
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RECENT Journal, vol.72, no.1, pp.4-19, 2024 (Peer-Reviewed Journal)
- VIII. **Technical Textiles Market Research and Added Value Analysis: A Regio-Global Case Study**  
Karahan M., Ahrari M., Karahan N.  
RECENT Journal, vol.71, no.3, pp.162-180, 2023 (Peer-Reviewed Journal)
- IX. **Competitiveness Factors in Textiles and Composites Industry and Transformation into Value-Added Products**  
Ahrari M., Karahan M., Karahan N.

RECENT Journal, vol.70, no.2, pp.132-141, 2023 (Peer-Reviewed Journal)

- X. **Composite Materials Market Research and Export Potential Analysis: A Regio-Global Case Study**  
Karahan M., Ahrari M., Karahan N.  
RECENT Journal, vol.70, no.2, pp.113-121, 2023 (Peer-Reviewed Journal)
- XI. **Synthesis of Silver Nanoparticles Using Novel Chemical Solution Method as Antibacterial Applied on Cosmetic Cotton Balls**  
Sizam A., Karahan M., Elsonasi H. A., Bader M. S., Mohamed S. H., Ahmed H., Arı A.  
Journal of Nanotechnology in Diagnosis and Treatment, vol.9, pp.8-18, 2023 (Peer-Reviewed Journal)
- XII. **A Study to Determine Infrastructure Needs for Hybrid and Electric Vehicle Training in Vocational Education**  
Karahan M., Arslan R., Kuş A., Şen M., Kaplan C.  
RECENT Journal, Universitatea Transilvania Brasov, vol.24, pp.4-8, 2023 (Peer-Reviewed Journal)
- XIII. **Optimization of Knitted Fabrics for better Thermo-Physiological Comfort by using Taguchi-based Principal Component Analysis**  
Kazmi K., Javed Z., Salman M., Iftikhar F., Ahmed N., Naeem J., Jabbar A., KARAHAN M., Naeem M. S.  
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- XIV. **Sectoral Needs Analysis to Develop Training Programs for Hybrid and Electric Vehicles**  
Arslan R., Karahan M., Kuş A., Şen M., Kaplan C.  
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- XV. **A Sustainable Approach to Plastics; Bioplastics**  
Erkul Ş. N., Karahan M., Arı A.  
RECENT Journal, vol.69, pp.29-50, 2023 (Peer-Reviewed Journal)
- XVI. **A Review on Natural Fibers' for Biopolymer Composites**  
Awed R. M. A., Karahan M., Ahmed H. A. M., Gismallah .  
Trends in Textile Engineering & Fashion Technology, vol.7, no.2, pp.820-835, 2022 (Peer-Reviewed Journal)
- XVII. **Investigation of damage properties of woven carbon-epoxy composites modified with cnt fillers**  
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Journal of nanotechnology in diagnosis and treatment, no.8, pp.1-8, 2022 (Peer-Reviewed Journal)
- XVIII. **Development of Anti-Bacterial and Anti-Viral Nonwoven Surgical Masks for Medical Applications**  
Ahrari M., KARAHAN M., Hussain M., Nawab Y., Khan A., Shirazi A. A.  
TEKSTILEC, vol.65, pp.135-146, 2022 (ESCI)
- XIX. **MESLEKİ EĞİTİMDE YENİ BİR MODEL: SANAL VE ARTTIRILMIŞ GERÇEK LİK - A NEW MODEL IN VOCATIONAL EDUCATION: VIRTUAL AND AUGMENTED REALITY**  
YILDIRIM E., KARAHAN M., HASTÜRK E. Y.  
MESLEKİ BİLİMLER DERGİSİ, vol.6, no.3, pp.700-708, 2017 (Peer-Reviewed Journal)
- XX. **FATIGUE BEHAVIOR OF CARBON/EPOXY COMPOSITES REINFORCED WITH 3-DIMENSIONAL WOVEN FABRIC**  
KARAHAN M., Lomov S., Bogdanovich A. E., Verpoest I.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BİLİMLERİ DERGİSİ, vol.19, no.7, pp.310-318, 2013 (ESCI)
- XXI. **Çok katmanlı dokuma karbon-epoksi kompozit Malzemelerde tek eksenli gerilme altında hasar başlama ve yayılma Özelliklerinin araştırılması**  
Karahan M.  
Tekstil ve Mühendis, vol.17, no.78, pp.6-13, 2010 (Peer-Reviewed Journal)

## Books & Book Chapters

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ADVANCED COMPOSITES AND HYBRID MATERIALS, Journal Indexed in SCI-E, August 2024

ENGINEERING REPORTS, Journal Indexed in ESCI, August 2024

JOURNAL OF NATURAL FIBERS, Journal Indexed in SCI-E, July 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, July 2024

Discover Mechanical Engineering, Journal Indexed in ESCI, July 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, June 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, June 2024

JOURNAL OF NATURAL FIBERS, Journal Indexed in SCI-E, June 2024

ACS APPLIED POLYMER MATERIALS, Journal Indexed in SCI-E, June 2024

JOURNAL OF ENGINEERED FIBERS AND FABRICS, Journal Indexed in SCI-E, June 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, June 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, June 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, June 2024

TEXTILE RESEARCH JOURNAL, Journal Indexed in SCI-E, June 2024

AUTEX RESEARCH JOURNAL, Journal Indexed in SCI-E, June 2024

JOURNAL OF INDUSTRIAL TEXTILES, Journal Indexed in SCI-E, June 2024

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART L: JOURNAL OF MATERIALS: DESIGN AND APPLICATIONS, Journal Indexed in SCI-E, May 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, May 2024

TEXTILE RESEARCH JOURNAL, Journal Indexed in SCI-E, May 2024

ACS APPLIED POLYMER MATERIALS, Journal Indexed in SCI-E, May 2024

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART L: JOURNAL OF MATERIALS: DESIGN AND APPLICATIONS, Journal Indexed in SCI-E, May 2024

TUBITAK Project, 1501 - Industry R & D Projects Support Program, CET KOMPOZİT VE EPOKSİ TEKNOLOJİLERİ A.Ş. (İSTANBUL), Turkey, May 2024

JOURNAL OF ENGINEERED FIBERS AND FABRICS, Journal Indexed in SCI-E, April 2024

TEXTILE RESEARCH JOURNAL, Journal Indexed in SCI-E, April 2024

JOURNAL OF INDUSTRIAL TEXTILES, Journal Indexed in SCI-E, April 2024

JOURNAL OF INDUSTRIAL TEXTILES, Journal Indexed in SCI-E, March 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, March 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, March 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, March 2024

ENGINEERING REPORTS, Journal Indexed in SCI-E, March 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, February 2024

APPLIED COMPOSITE MATERIALS, Journal Indexed in ESCI, February 2024

JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, Journal Indexed in SCI-E, February 2024

JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, Journal Indexed in SCI-E, February 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, February 2024

TEXTILE RESEARCH JOURNAL, Journal Indexed in SCI-E, January 2024

APPLIED COMPOSITE MATERIALS, Journal Indexed in SCI-E, January 2024

JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, Journal Indexed in SCI-E, January 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, January 2024

POLYMER COMPOSITES, Journal Indexed in SCI-E, January 2024

JOURNAL OF INDUSTRIAL TEXTILES, Journal Indexed in SCI-E, January 2024

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, Bursa Uludağ University, Turkey, October 2020

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Bursa Uludağ University, Turkey, July 2020

TUBITAK Project, 1505 - University-Industry Cooperation Support Program, Bursa Uludağ University, Turkey, March 2019

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, February 2019

TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Bursa Uludağ University, Turkey, December 2015  
TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Bursa Uludağ University, Turkey, December 2015  
TUBITAK Project, 1509 - TÜBİTAK International Industry R&D Projects Support Program, Bursa Uludağ University, Turkey, November 2015  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, July 2015  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, May 2015  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, June 2014  
TUBITAK Project, 1509 - TÜBİTAK International Industry R&D Projects Support Program, Bursa Uludağ University, Turkey, December 2013  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, May 2013  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, December 2012  
TUBITAK Project, 1509 - TÜBİTAK International Industry R&D Projects Support Program, Bursa Uludağ University, Turkey, December 2010  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Bursa Uludağ University, Turkey, June 2010

## Tasks In Event Organizations

Karahan M., 6th Global Conference & Expo on Nanoscience and Nanotechnology, Scientific Congress, Malaysia, Nisan 2024  
Karahan M., 3rd International Conference on Knowledge-based Textiles, Scientific Congress, Faisalabad, Pakistan, Mart 2024  
Karahan M., 3. International Conference on Polymers and Composites, Scientific Congress, Faisalabad, Pakistan, Kasım 2023  
Karahan M., 2nd International Conference on Knowledge-based Textiles, Scientific Congress, Pakistan, Şubat 2023  
Karahan M., 2. International Conference on Polymers and Composites International Conference on Polymers and Composites, Scientific Congress, Faisalabad, Pakistan, Aralık 2022

## Metrics

Publication: 188  
Citation (WoS): 1654  
Citation (Scopus): 2070  
H-Index (WoS): 25  
H-Index (Scopus): 26

## Congress and Symposium Activities

7th International conference on sustainable textile, Invited Speaker, Lahore, Pakistan, 2024  
ICAME 2024, Invited Speaker, Islamabad, Pakistan, 2024  
6th International Conference on Sustainable Textile , Invited Speaker, Lahore, Pakistan, 2023  
2nd International Conference on Knowledge Based Textiles, Invited Speaker, Faisalabad, Pakistan, 2023  
19. International Bhurban Conference of Applied Sceience and technology, Invited Speaker, Islamabad, Pakistan, 2022  
International Conference on Polymer and Composites, Invited Speaker, Faisalabad, Pakistan, 2021  
Covitex 2021, Invited Speaker, Faisalabad, Pakistan, 2021  
18. International Bhurban Conference on Applied Science and Technology, Invited Speaker, Islamabad, Pakistan, 2021  
18. International Bhurban Conference on Applied Science and Technology, Invited Speaker, Islamabad, Pakistan, 2021



15. International Bhurban Conference on Applied Science and Technology, Invited Speaker, Islamabad, Pakistan, 2018  
V. International Polymeric Composites Symposium and Workshops, Invited Speaker, İzmir, Turkey, 2017

## **Scholarships**

Doktora Sonrası Araştırma Bursu, TÜBİTAK, 2009 - 2010

## **Awards**

Karahan M., 2021 yılı World Top %2 Scientist listesine giren bilim insanı ödülü, Bursa Uludağ Üniversitesi, December 2022

Karahan M., 2020 yılı "World Top %2 Scientist" Listesine Giren Bilim İnsanı Ödülü, Bursa Uludağ Üniversitesi, December 2021

Karahan M., OTOMOTİV KOMPOZİTLERİNDE ATIK LİFLERİN KULLANIMI, Uludağ İhracatçı Birlikleri, April 2014

Karahan M., Gelişmiş Balistik Koruma ve Ergonomiye Sahip Yeni Jenerasyon Askeri Kask Tasarımı ve Üretim, Uludağ İhracatçı Birlikleri, April 2014

Karahan M., Hastane Tekstillerinin Yüksek Dezenfeksiyonda Yıkama İçin Yeni ve Çevreci Bir Yöntem: Ultrasonik Yıkama, Uludağ İhracatçı Birlikleri, April 2013

## **Non Academic Experience**

Non-profit Organisation, Bursa Ticaret Sanayi Odası Eğitim Vakfı BUTGEM, BUTGEM

Technology Development Zone, ULUTEK TEKNOPARK, Yönetim Kurulu Üyesi

Technology Development Zone, Uludağ Üniversitesi Teknoloji Transfer ofisi, Teknoloji Transfer Ofisi

Penta Tekstil San. Tic. A.Ş.

Saray Örme San. Tic. A.Ş.