



Amirkabir University of Technology  
(Tehran Polytechnic)



Email:

[merati@aut.ac.ir](mailto:merati@aut.ac.ir)

Phone:

64545520

### ALIAKBAR MERATI

Associate Professor

Department of Textile Engineering  
Clothing & Management

h-index (Scopus):

17

Citations (Scopus):

1095

#### Educational Records

#	Degree/Major	University	City	Country	Graduation Date
1	Msc	Amirkabir university of technology	Tehran	Iran	1992
2	Bsc	Amirkabir university of technology	Tehran	Iran	1998
3	Phd	Gifu	Gifu	Japa	1999
4	Post doc	Gifu	Gifu	Japan	2001

#### Supervised MSc Theses

#	Thesis title	By	Date
1	Fabrication and characterization of PCL/chitosan nanofibers with the ability of rosmarinus officinalis extract release	Maryam Parastar & Aliakbar Merati	September 2021
2	Fabrication and Characterization of PVDF/PDA/ZnO Nanofiber Composite	Mohammad Hossein Moqimian & Aliakbar Merati	August 2021
3	Fabrication of Nano - structured piezoelectric yarn for mechanical to electrical energy conversion	Mohammad Bagheri Motlagh Pashaki & Aliakbar Merati	February 2016
4	design of display textile using optical fiber	Hassan Haghizavareh & Aliakbar Merati	October 2015
5	Evaluation of frieze yarn crimp using three dimensional images	Ebrahim Ebrahimimanes & Aliakbar Merati	October 2014

6	Effects of porosity gradient of polyamide 6 nanofibers electrospinning on air filtration efficiency	Ali Amin & Aliakbar Merati	October 2014
7	Feasibility of Generating electrical Energy form Electrospun Nanofibrous Mats	Ali Gheibi & Aliakbar Merati	October 2013
8	Enhancement of Hydrophilicity in PLGA Nanofibrous Web by Plasma for Cell Culture	Fatemeh Nadipour & Aliakbar Merati	October 2013
9	Effect of Zon/Cnt/Pan composite nanofiber on absorption properties of electromagnetic and UV	Javad Mirzaei & Aliakbar Merati	September 2013
10	Application of Stabragh Fiber Reinforcement Concrete	Tahereh Solimani & Aliakbar Merati	November 2012

## Books

#	Title	Author(s)	Publisher country	publication date	version
<b>Portal Records</b>					
1	Advanced Textile Engineering Materials Chapter 1: Application of Stimuli-Sensitive Materials in Smart Textiles	Aliakbar Merati	United States	September 2018	1
2	Smart Textiles	Aliakbar Merati, Dariush Semnani, Hamid Reza Sanjari	Iran (Islamic Republic of)	October 2018	2
3	Advance Functional Textiles and Polymers: Fabrication, Processing and Applications. Chapter 12 Preparation, Classification and Applications of Smart Hydrogels	Aliakbar Merati, Nahid Hemmati Nejad, Mina Shakeri, Azadeh Bashari	United States	November 2019	1
4	Smart Textiles	Aliakbar Merati, Semnani Dariush, Hamidreza Sanjari	Iran (Islamic Republic of)	November 2014	1
5	Yarn Formation in Friction Spinning	Aliakbar Merati	Germany	March 2013	1
6	Principle of Friction Spinning	Aliakbar Merati	Iran (Islamic Republic of)	March 2011	1
7	An Introduction into Electrospinning and Nanofibers	Aliakbar Merati	Iran (Islamic Republic of)	March 2009	1
8	Engineered Polymeric Fibrous Materials, Chapter 5; Smart fibrous materials	Aliakbar Merati	United States	June 2021	1
9	Environmental Nanotechnology for Water Purification, Chapter 8; Electrospun Nanofibers for Water Purification	Aliakbar Merati, Mahsa Kangazian Kangazi	United States	June 2020	1

10	NANOCELLULOSE, CELLULOSE NANOFIBERS AND CELLULOSE NANOCOMPOSITES - Synthesis and Applications Chapter 8: Electrospinning of Cellulose and Cellulose Derivatives	Aliakbar Merati, Najmeh Moazeni	United States	June 2017	1
11	Textiles, Advances in Research and Applications Chapter 1: Advances in Research and Applications of Smart Textiles	Aliakbar Merati	United States	January 2018	1
12	Soft Computing in Textile Engineering, Chapter 18: Textile Quality Evaluation by Image Processing and Soft Computing Techniques	Aliakbar Merati, Dariush Semnani	United Kingdom	January 2011	1
13	Textiles: History, Properties & Performance and Applications, Chapter 8: Smart Textiles	Aliakbar Merati	United States	December 2014	1
14	Household Economy Support -Clothing Selection and Care-	Aliakbar Merati	Iran (Islamic Republic of)	December 2013	1
15	Advances in Yarn Spinning Technology Chapter 11: Friction Spinning	Aliakbar Merati	United Kingdom	December 2010	1

## Journal Papers

### Portal Records

- 1 Najmeh Moazeni, Sadrjahani Mehdi, Aliakbar Merati, Masoud Latifi, Shohre Rouhani, "Effect of stimuli-responsive polydiacetylene on the crystallization and mechanical properties of PVDF nanofibers", POLYMER BULLETIN, November 2020 Vol. 77, Num. 0, Page 5373-5388, November 2020,
- 2 Fatemeh Zamani, Fatemeh Nadipour, Masoud Latifi, Aliakbar Merati, "Comparison of Structural Modification and Argon Plasma Treatment of Poly(lactide-co-glycolic acid) Nanofibrous Scaffolds for Cell Culture", Journal of Textiles and Polymers, August 2020 Vol. 8, Num. 2, Page 33-40, August 2020,
- 3 Komeil Nasouri, Ahmad Mousavi Shoushtari, Javad Mirzaei, Aliakbar Merati, "Synthesis of carbon nanotubes composite nanofibers for ultrahigh performance UV protection and microwave absorption applications", DIAMOND AND RELATED MATERIALS, April 2020 Vol. 107, Num. 107896, Page 1-8, April 2020,
- 4 Najmeh Moazeni, Sadrjahani Mehdi, Aliakbar Merati, Masoud Latifi, Shohre Rouhani, "Effect of stimuli-responsive polydiacetylene on the crystallization and mechanical properties of PVDF nanofibers", POLYMER BULLETIN, November 2019 Vol. 1, Num. 1, Page 1-16, November 2019,
- 5 Fatemeh Zamani, Aliakbar Merati, Masoud Latifi, Hosein Ghanbari Alanagh, Fatemeh Nadipour, "Effect of Plasma Treatment on Cell Culture in Poly Lactic Glycolic Acid Nanofibrous Scaffold", Modares Journal of Biotechnology, December 2018 Vol. 9, Num. 4, Page 635-641, December 2018,
- 6 Aliakbar Merati, Nahid Hemmati Nejad, Mina Shakeri,, "Advances in Research and Applications of Smart Hydrogels, Part I: Preparation Methods and Classification", Journal of Textiles and Polymers, June 2018 Vol. 6, Num. 2, Page 97-105, June 2018,
- 7 Najmeh Moazeni, Aliakbar Merati, Masoud Latifi, Sadrjahani Mehdi, Shohre Rouhani, "Fabrication and characterization of polydiacetylene supramolecules in electrospun polyvinylidene fluoride nanofibers with dual colorimetric and piezoelectric responses", POLYMER, January 2018 Vol. 134, Num. 0, Page 211-220, January 2018,
- 8 Aliakbar Merati, Ahmad Mousavi Shoushtari, Javad Mirzaei, "A comparison between the UV protection of PAN/ZnO and PAN/MWNT composite nanofiber mats", JOURNAL OF THE TEXTILE INSTITUTE, December 2017 Vol. 108, Num. 12, Page 2086-2089, December 2017,
- 9 Hassan Haghizavareh, Aliakbar Merati, Zahra Khorram Toussi, Khosro Madanipour, "Design of Optical Fiber Display in Weft Knitting", , December 2017 Vol. 3, Num. 19, Page 31-36, December 2017,

- 10 Aliakbar Merati, Masoud Latifi, Fatemeh Zamani, Hosein Ghanbari Alanegh, Fatemeh Nadipour, "Increasing the hydrophilicity of the electrospun nanofibrous layers of polylactic glycolic acid", *Advanced Materials Materials and Novel Coatings*, December 2017 Vol. 20, Num. 0, Page 1429-1437, December 2017,
- 11 Najmeh Moazeni, Masoud Latifi, Aliakbar Merati, Shohre Rouhani, "Crystal polymorphism in Polydiacetylene-embedded electrospun polyvinylidene fluoride nanofibers", *SOFT MATTER*, November 2017 Vol. 13, Num. 44, Page 8178-8187, November 2017,
- 12 Aliakbar Merati, Najmeh Moazeni, "A new technique of producing sliver of Estabragh fibers", *Indian Journal of Fibre & Textile Research*, March 2017 Vol. 42, Num. 0, Page 72-76, March 2017,
- 13 Ali Amin, Aliakbar Merati, S.Hajir Bahrami, Roohollah Bagherzadeh, "Effects of porosity gradient of multilayered electrospun nanofibre mats on air filtration efficiency", *JOURNAL OF THE TEXTILE INSTITUTE*, December 2016 Vol. 0, Num. 0, Page 1-9, December 2016,
- 14 Mehran Dadgar, S.Mohammad Hosseini Varkiani, Aliakbar Merati, "Pin-point effect determination using a rigorous approach", *Indian Journal of Fibre & Textile Research*, September 2015 Vol. 40, Num. 8, Page 273-281, September 2015,
- 15 Mehran Dadgar, Aliakbar Merati, S.Mohammad Hosseini Varkiani, "Evaluation of heat setting parameters in carpet comfort", *FIBERS AND POLYMERS*, May 2015 Vol. 16, Num. 5, Page 1169-1176, May 2015,
- 16 Mehran Dadgar, Aliakbar Merati, S.Mohammad Hosseini Varkiani, "Evaluation of the pinpoint effect on carpet appearance", *JOURNAL OF THE TEXTILE INSTITUTE*, March 2015 Vol. 64, Num. 3, Page 1-9, March 2015,
- 17 Hamidreza Sanjari, Aliakbar Merati, S.Mohammad Hosseini Varkiani, Ahad Tavakoli, "Evaluation of the effect of bending on the resonance frequency of inset-fed rectangular textile patch antenna", *JOURNAL OF INDUSTRIAL TEXTILES*, February 2015 Vol. 15, Num. 1, Page 1-26, February 2015,
- 18 Aliakbar Merati, Aliasghar Alamdar-Yazdi, Alireza Farokhnia, "Yarn Properties Developments with Diagonally Slotted Roller on Ring Spinning Machine", *Indian Journal of Fibre & Textile Research*, September 2014 Vol. 39, Num. 3, Page 289-295, September 2014,
- 19 Ali Gheibi, Roohollah Bagherzadeh, Aliakbar Merati, Masoud Latifi, "Electrical power generation from piezoelectric electrospun nanofibers membranes: electrospinning parameters optimization and effect of membranes thickness on output electrical voltage", *JOURNAL OF POLYMER RESEARCH*, September 2014 Vol. 21, Num. 11, Page 1-14, September 2014,
- 20 Mehran Dadgar, S.Mohammad Hosseini Varkiani, Aliakbar Merati, "Comparison between artificial neural network and response surface methodology in the prediction of the parameters of heat set polypropylene yarns", *JOURNAL OF THE TEXTILE INSTITUTE*, June 2014 Vol. 45, Num. 5, Page 1-14, June 2014,
- 21 Ali Gheibi, Masoud Latifi, Aliakbar Merati, Roohollah Bagherzadeh, "Piezoelectric Electrospun Nanofibrous Materials for Self-Powering Wearable Electronic Textiles Applications", *JOURNAL OF POLYMER RESEARCH*, June 2014 Vol. 21, Num. 69, Page 1-7, June 2014,
- 22 Aliakbar Merati, "Reinforcing of Cement Composites by Estabragh Fibres", *Journal of The Institution of Engineers(India):Series C*, April 2014 Vol. 95, Num. 1, Page 27-32, April 2014,
- 23 Hamidreza Sanjari, Aliakbar Merati, S.Mohammad Hosseini Varkiani, Ahad Tavakoli, "A study on the effect of compressive strain on the resonance frequency of rectangular textile patch antenna: elastic and isotropic model", *JOURNAL OF THE TEXTILE INSTITUTE*, September 2013 Vol. -, Num. 0, Page 1-7, September 2013,
- 24 Tahereh Solimani, Aliakbar Merati, Masoud Latifi, Aliakbar Ramezaniapor, "Inhibition of Cracks on the Surface of Cement Mortar Using Estabragh Fibers", *Advances in Materials Science and Engineering*, July 2013 Vol. 2013, Num. 656109, Page 1-5, July 2013,
- 25 Siavash Afrashteh, Aliakbar Merati, Ali Asghar Asgharian Jeedi, "Geometrical parameters of yarn cross-section in plain woven fabric", *Indian Journal of Fibre & Textile Research*, June 2013 Vol. 38, Num. 2, Page 126-131, June 2013,
- 26 Akiyoshi Takeno, Minoru Miwa, Teruyuki Yokoi, Keishi Naito, Aliakbar Merati, "A new technique for generating regularly spaced crazes to facilitate piece dyeing of polypropylene filaments", *JOURNAL OF APPLIED POLYMER SCIENCE*, June 2013 Vol. 128, Num. 6, Page 3564-3569, June 2013,

- 27 Mehran Dadgar, S.Mohammad Hosseini Varkiani, Aliakbar Merati, Arezoo Sarkheyli, "Comparison of Mamdani and Sugeno Fuzzy Inference System in Prediction of Residual Frieze Effect of Frieze Carpet Yarns", *Tekstilna industrija*, June 2013 Vol. 96, Num. 2, Page 16-25, June 2013,
- 28 Roohollah Bagherzadeh, Hamidreza Pakravan Charvadeh, Abdol Hossein Sadeghi, Masoud Latifi, Aliakbar Merati, "An Investigation on Adding Polypropylene Fibers to Reinforce Lightweight Cement Composites (LWC)", *JOURNAL OF ENGINEERED FIBERS AND FABRICS*, December 2012 Vol. 7, Num. 4, Page 13-21, December 2012,
- 29 Aliakbar Merati, Saeed Shaikhzadeh Najar, S.Mohammad Etrati, Mohammad Godarzi, "Effect of spandex filament draw ratio on elastic core spun yarn properties in friction spinning", *TEXTILE RESEARCH JOURNAL*, August 2012 Vol. 82, Num. 13, Page 1363-1370, August 2012,
- 30 Aliakbar Merati, Hadi Patir, "Anisotropy in wrinkle properties of woven fabric", *JOURNAL OF THE TEXTILE INSTITUTE*, July 2011 Vol. 102, Num. 7, Page 639-646, July 2011,
- 31 Aliakbar Merati, "A new approach to improve the bulkiness of worsted grade wool yarn", *TEXTILE RESEARCH JOURNAL*, May 2011 Vol. 81, Num. 7, Page 698-705, May 2011,
- 32 Masoud Latifi, Mohammad Amani Tehran, Aliakbar Merati, "Effect of Yarn Appearance on apparent Quality of Weft Knitted Fabric", *Journal of the Textile Institute*, May 2005 Vol. 96, Num. 5, Page 0-0, May 2005,
- 33 Ali Asghar Asgharian Jeddi, Majid Safar Johari, Aliakbar Merati, "A Study of the Structural and Physical Properties of Cotton-Covered Nylon Filament Core-Spun Yarns", *Journal of the Textile Institute*, January 1997 Vol. 88, Num. 1, Page 12-20, January 1997,

## Conference Papers

### Portal Records

- 1 Mohammad Bagheri Motlagh Pashaki, Aliakbar Merati, Masoud Latifi, Roohollah Bagherzadeh, "Production of Piezoelectric Yarn of Nanofibers ", 12th Iranian National Textile Engineering Conference, June 2021
- 2 Nasim Ravanbakhsh, Aliakbar Merati, Saeed Shaikhzadeh Najar, Hamidreza Sanjari, "Influence of Fiber Volume Fraction on Dielectric Coefficient of Weft Knitted Fabric ", 12th Iranian National Textile Engineering Conference, June 2021
- 3 Erfaneh Noorinezhad, Najmeh Moazeni, Aliakbar Merati, "Evaluation of color reversibility of PVDF/PDA nanofibrous sensor against heat treatment ", 12th Iranian National Textile Engineering Conference, June 2021
- 4 Aliakbar Merati, S.Mohammad Etrati, Saeed Shaikhzadeh Najar, Majid Davatgaran, "Optimum Spinning conditions for yarn production from long length acrylic fibers in friction spinning ", 11th National Textile Engineering Conference, May 2018
- 5 Najmeh Moazeni, Masoud Latifi, Aliakbar Merati, Mehdi Sadr Jahani, Shohreh Rouhani, "production of intelligent optical sensor by embedding plydeacetylene supermolecules into the electrospun nanofibres of polyvinylidene fluoride ", 11th National Textile Engineering Conference, May 2018
- 6 Najmeh Moazeni, Aliakbar Merati, Masoud Latifi, Mehdi Sadr Jahani, Shohreh Rouhani, "Improvement of Beta Phase of Electrospun nanofiber of Polyvinylidene Fluoride by Embedding Plydeacetylene supermolecules ", 11th National Textile Engineering Conference, May 2018
- 7 Aliakbar Merati, "The status of the clothing in passive defense ", Scientific-expert meeting on the status of clothing in the field of passive defense, October 2017
- 8 Aliakbar Merati, "Application of Smart Materials in Textiles ", World Chemistry 2017, September 2017
- 9 Aliakbar Merati, Zahra Khorram Toussi, Khosro Madanipour, Hassan Haghizavareh, "Design of wearable knitted Textile Display using Optical Fiber ", 6th Fajr International Fashion & Clothing Festival, February 2017
- 10 Najmeh Moazeni, Aliakbar Merati, Masoud Latifi, Shohreh Rouhani, "Detecting of organic solvents using activated nano-fibrous polyvinylidene fluoride sensor with polydiacetylene macromolecules ", 10th National Textile Engineering Conference, April 2016

- 11 Mohammad Bagheri Motlagh Pashaki, Masoud Latifi, Aliakbar Merati, Roohollah Bagherzadeh, "Producing of piezoelectric nano-structure electrospun yarn ", 10th National Textile Engineering Conference, April 2016
- 12 Hamidreza Sanjari, Aliakbar Merati, S.Mohammad Hosseini Varkiani, Ahad Tavakoli, "Measuring the effective permittivity of nonwovens using two-layer microstrip transmission line method ", 10th National Textile Engineering Conference, April 2016
- 13 Aliakbar Merati, "A unique method for producing of cool clothing ", 5th Fajr International Fashion & Clothing Festival, February 2016
- 14 Hamidreza Sanjari, Aliakbar Merati, S.Mohammad Hosseini Varkiani, Ahad Tavakoli, "Evaluation of effective permittivity of nonwoven fabrics using two-layer microstrip transmission line method ", The 13th Asian Textile Conference, November 2015
- 15 Hamidreza Sanjari, Aliakbar Merati, S.Mohammad Hosseini Varkiani, Ahad Tavakoli, "Evaluation of effective permittivity of nonwoven fabrics using two-layer microstrip transmission line method ", The 13th Asian Textile Conference, November 2015
- 16 Aliakbar Merati, "Advanced technologies in sport wear ", 4th Fajr International Fashion & Clothing Festival, February 2015
- 17 Ali Gheibi, Aliakbar Merati, Masoud Latifi, Roohollah Bagherzadeh, "Effect of Thickness of Piezoelectric Nanofibers Produced by Electrospinning on Efficiency of Electrical Energy Generation ", The 9th National Conference on Textile Engineering, May 2014
- 18 Hamidreza Sanjari, Aliakbar Merati, S.Mohammad Hosseini Varkiani, Ahad Tavakoli, "Study the effect of dielectric constant of substrate on the compressive behaviour of rectangular textile patch antenna ", 9th National Textile Engineering Conference, May 2014
- 19 Najmeh Moazeni, Semnani Darioush, Hasani Hosein, Aliakbar Merati, "Design and construction of a device to measure the adaptability of the tubular prosthesis under internal pressure ", The 9th National Conference on Textile Engineering, May 2014
- 20 Fatemeh Nadipour, Fatemeh Zamani, Masoud Latifi, Aliakbar Merati, "Improving Hydrophilicity of Nanofibrous PLGA Scaffolds by Plasma Method ", The 9th National Conference on Textile Engineering, May 2014
- 21 Ali Gheibi, Masoud Latifi, Aliakbar Merati, Roohollah Bagherzadeh, "Effect of Thickness of Piezoelectric Nanofibers Produced by Electrospinning on Efficiency of Electrical Energy Generation ", The 9th National Conference on Textile Engineering, May 2014
- 22 Ali Gheibi, Masoud Latifi, Aliakbar Merati, Roohollah Bagherzadeh, "Introducing a Method for Production of a Flexible Electrical Energy Source Using Electrospinning Process ", The 9th National Conference on Textile Engineering, May 2014
- 23 Hamidreza Sanjari, Aliakbar Merati, S.Mohammad Hosseini Varkiani, Ahad Tavakoli, "The Relation between Compressive Strain and Resonance Frequency of Circular Textile Patch Antenna ", The 12th Asian Textile Conference, October 2013
- 24 Roohollah Bagherzadeh, Aliakbar Merati, M. Gorji, Abdol Hossein Sadeghi, "High Wicking Weft Knitted Fabrics Composed of Profiled Fibers ", the 12th Asian Textile Conference (ATC-12), October 2013
- 25 Ali Gheibi, Masoud Latifi, Aliakbar Merati, Roohollah Bagherzadeh, "Piezoelectric Nano-fibrous Composite Materials for Wearable Micro-electronics Devices ", The 12th Asian Textile Conference, October 2013
- 26 Aliakbar Merati, Masoud Latifi, Aliakbar Ramezaniyanpor, Tahereh Solimani, "Application of Estabragh Fibers into Cement Composites ", The 12th Asian Textile Conference, October 2013
- 27 Mehran Dadgar, S.Mohammad Hosseini Varkiani, Aliakbar Merati, Mehrdad Dadgar, "Stability of polypropylene frieze yarn after different heat setting condition and prediction residual frieze effect by mamdanis fuzzy inference system ", 13th Autex World Textile Conference Dresden, May 2013
- 28 Mehran Dadgar, S.Mohammad Hosseini Varkiani, Aliakbar Merati, Hasan Gholibeigian, "Polypropelen Filament Molding in Heat Setting Process ", 8th National Conference on Textile Engineering, May 2012

- 29 Mehran Dadgar, S.Mohammad Hosseini Varkiani, Aliakbar Merati, "Comparison the Physical Properties of Cotton Yarns in Continues and Discontinues Mercerization Method ", 8th National Conference on Textile Engineering, May 2012
- 30 Aliakbar Merati, "Tinting the Black Dyed Fibers of Wool and Polyester in Worsted Spinning System ", The 11th Asian Textile Conference, November 2011
- 31 Aliakbar Merati, Saeed Shaikhzadeh Najar, S.Mohammad Etrati, Mohammad Godarzi, "Production of Lycra/cotton Core Spun Yarn in Friction Spinning ", The 11th Asian Textile Conference, November 2011
- 32 Siavash Afrashteh, Aliakbar Merati, Ali Asghar Asgharian Jeddi, "Effect of Yarn Twist Level on its Geometry in Plain Woven Fabric ", The 11th Asian Textile Conference, November 2011
- 33 Aliakbar Merati, Aliasghar Alamdar-Yazdi, Alireza Farokhnia, "Effect of Angles of Slots from Both Sides towards the Centre of a Clip-on Attachment Roller on Ring Spun Yarn Properties ", The 11th Asian Textile Conference, November 2011
- 34 Mehran Dadgar, Aliakbar Merati, S.Mohammad Hosseini Varkiani, "A New Method of Evaluating Heat Setting Effect of Carpet Yarns ", The 11th Asian Textile Conference, November 2011
- 35 Aliakbar Merati, "Effect of roller gauge of ring frame on bulkness of worsted grade wool yarn ", 1st International Conference on Textile Engineering, October 2009
- 36 Aliakbar Merati, "Effect of Twist Level and Direction on Wrinkle Resistance of Plain Woven Fabrics ", 10th Asian Textile Conference, September 2009
- 37 Aliakbar Merati, "An Intelligent Method for Determining the Spirality in Weft-knitted Fabrics ", 10th Asian Textile Conference, September 2009
- 38 Hamidreza Sanjari, Dariush Semnani, Mohammad Sheikhzadeh, Aliakbar Merati, "An Intelligent Method for Determining the Spirality in Weft-knitted Fabrics ", the 10th Asian Textile Conference ATC-10, September 2009
- 39 Aliakbar Merati, "Effect of Faller Pins in Gill-box on Product Quality ", 11th International Wool Textile Research Conference, September 2005
- 40 Aliakbar Merati, "A New Method of Recycling Textile Goods ", 3rd International Conference on Materials for Advanced Processing Technologies (ICMAT 2005) & 9th International Conference on Advanced Materials (ICAM 2005), July 2005
- 41 Aliakbar Merati, "Effect of Yarn Draw-off Angle on Spinning Efficiency of Friction Spinning Machine ", The Society of Fiber Science and Technology Conference, June 2005
- 42 Aliakbar Merati, "Optimum Draw-off Angle of Yarn in Friction Spinning Machine ", 8th Asian Textile Conference, May 2005
- 43 Aliakbar Merati, "Effect of Fallers on Sliver Irregularity in Gill-box ", 8th Asian Textile Conference, May 2005
- 44 Masoud Latifi, Mohammad Amani Tehran, Aliakbar Merati, "Detection of Apparent Faults of Yarn Boards by Image Processing ", 8th Asian Textile Conference, May 2005
- 45 Aliakbar Merati, "Effect of Stitch Length on Mokumenui-shibori Pattern ", 8th Asian Textile Conference, May 2005
- 46 Aliakbar Merati, "Effect of Faller Spacing on Sliver Irregularity in Gill-box ", The Society of Fiber Science and Technology Conference, June 2004
- 47 Aliakbar Merati, "A Study on Optimum Take-off Angle of Yarn in Friction Spinning Machine ", The Society of Fiber Science and Technology Conference, June 2004
- 48 Aliakbar Merati, "Unique Method of Producing Two-component Yarns in Friction Spinning ", 7th Asian Textile Conference, December 2003
- 49 Aliakbar Merati, "Relation between Roll-off-angle Device and Image Processing Method for Evaluation of Apparel Water Repellency ", 7th Asian Textile Conference, December 2003
- 50 Aliakbar Merati, "Effect of Bundle Packing Density on Sliver Irregularity in Gill-box ", 7th Asian Textile Conference, December 2003

- 51 Aliakbar Merati, "Effect of Take-off Angle on Yarn Properties in Friction Spinning ", The Society of Fiber Science and Technology Conference, September 2003
- 52 Aliakbar Merati, "Two Component Friction Spun Yarn from Cotton and Recycle Fibers ", The Society of Fiber Science and Technology Conference, June 2003
- 53 Aliakbar Merati, "Effect of Faller Number on Irregularity of Sliver in Gill-box ", The Society of Fiber Science and Technology Conference, June 2003
- 54 Aliakbar Merati, "Effect of Nip Gage on Irregularity of Sliver in Gill-box ", Joint Textile Conference, September 2002
- 55 Aliakbar Merati, "Count Limits of Hollow Yarn in Friction Spinning ", The Society of Fiber Science and Technology Conference, May 2002
- 56 Aliakbar Merati, "Production of Recycled Cotton Yarns and its Properties ", Joint Textile Conference, September 2001
- 57 Aliakbar Merati, "Effect of the Filament Pre-tension on Mechanical Properties of Hollow Yarn ", The 6th Asian Textile Conference, August 2001
- 58 Aliakbar Merati, "Structure Stability of Hollow Yarn ", The Society of Fiber Science and Technology Conference, June 2001
- 59 Aliakbar Merati, "The Role of Fallers in Gill-box ", The 10th International Wool Textile Research Conference, November 2000
- 60 Aliakbar Merati, "Modifying the Fiber Transport Channel of Friction Spinning Machine ", The Society of Fiber Science and Technology Conference, June 2000
- 61 Aliakbar Merati, "An Estimating Method of Filament Length in Friction Spun Core Yarn ", 5th Asian Textile Conference, September 1999
- 62 Aliakbar Merati, "A Unique Method of Producing High Bulk Cotton Yarn in Friction Spinning ", 5th Asian Textile Conference, September 1999
- 63 Aliakbar Merati, "A Study on Fiber Feeding Device in Friction Spinning ", The Society of Fiber Science and Technology Conference, May 1999
- 64 Aliakbar Merati, "Differential Twist Structure of Friction Spun Yarn ", The Society of Fiber Science and Technology Conference, September 1998
- 65 Aliakbar Merati, "Differential Twist Structure of Core Yarn in Friction Spinning ", The Society of Fiber Science and Technology Conference, June 1998
- 66 Aliakbar Merati, "Effect of Filament Pre-Tension on Structural Parameters and Mechanical Properties of Core Yarn Friction Spinning ", 4th Asian Textile Conference, June 1997
- 67 Aliakbar Merati, "Filament Pre-Tension In Core Yarn Friction Spinning ", The Society of Fiber Science and Technology Conference, June 1997
- 68 Aliakbar Merati, "Yarn Tension in Yarn-Forming Zone of Friction Spinning Part I: Theory ", Textile Joint Conference, November 1996
- 69 Aliakbar Merati, "Yarn Tension in Yarn-Forming Zone of Friction Spinning Part II: Experimental and Results ", Textile Joint Conference, November 1996
- 70 Aliakbar Merati, "Effective Factors on Yarn Tension in Yarn-Forming Zone of Friction Spinning ", Yarn and Fiber Science Joint Conference, June 1996
- 71 Aliakbar Merati, "Simultaneous Measuring of Fiber Flow, Yarn Tension and Yarn Diameter in Friction Spinning ", New Spinning Systems into the Future, November 1995
- 72 Aliakbar Merati, "Fiber Speed in the Transport Channel in Friction Spinning ", The Society of Fiber Science and Technology Conference, October 1995



73 Aliakbar Merati, "Producing of Two Component Yarns on Friction Spinning Machine ", Textile Machinery Conference (Sen-i Kikai Gakkai), June 1995

## Inventions/Patents

#	Invention title	Reg. number	Country	contributors	Reg. date	Exp. date
1	Production of Slivers of Milkweed Fibers	US20180187339A1			2018/07/1	-
2	Fibrous Nanogenerator to Generate Electrical Energy	81239			2013/11/1	2033/09/1
3	Device for Visual Recognition of Piezoelectric Property of Nanofibrous Layers	81240			2013/11/1	2033/09/1
4	A fugitive tint for temporary coloring the dark fibers in worsted spinning	67536			2010/11/1	-
5	production process of bulked worsted grade all-wool yarn	56632			2009/01/1	-