

MAHDI HASANZADEH

Birth date: 14 April 1987

Birth place: Rasht, Iran

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**ACADEMIC BIOGRAPHY:**

Mahdi Hasanzadeh received his BSc (University of Guilan, 2009), MSc (Amirkabir University of Technology, 2011) and PhD degree (University of Guilan, 2016) in Textile Engineering (Textile Chemistry and Fiber Sciences). Then, he joined the research group of Prof. A. Simchi at Sharif University of Technology (SUT, Tehran) as a post-doctoral researcher supported by Iran's National Elites Foundation Fellowship. At SUT, his research focuses on the metal-organic frameworks and the use of these materials in air filtration. He also studies the colloidal suspension rheology, and ballistic and stab resistance of flexible armors. Currently, Dr. Hasanzadeh is Managing Editor of International Journal of Chemoinformatics and Chemical Engineering (U.S.A).

- EDUCATION:**
- | | |
|-----------------------|--|
| Post-Doctorate | Sharif University of Technology, Tehran, Iran.
Materials Science and Engineering (Nanomaterials), 2017-present. |
| Ph.D. | University of Guilan, Rasht, Iran.
(GPA = 4.00/4.00)
Textile Engineering (Textile Chemistry & Fiber Science), 2012-2016.
<u>Dissertation Title:</u> “ <i>Experimental and Numerical Investigation on the Relationship between the Rheological Behavior of Shear-thickening Hybrid Nanofluids with Ballistic and Impact Resistance of Fabric</i> ” |
| M.Sc. | Amirkabir University of Technology (Tehran Polytechnic), Iran.
(GPA = 3.72/4.00)
Textile Engineering (Textile Chemistry & Fiber Science), 2009-2011.
<u>Thesis Title:</u> “ <i>Synthesis of Amino-terminated Hyperbranched Polymer and Study of its Applications to Fibers</i> ” |
| B.Sc. | University of Guilan, Rasht, Iran.
(GPA = 3.55/4.00)
Textile Engineering (Textile Chemistry & Fiber Science), 2005-2009.
<u>Project Title:</u> “ <i>Investigating the Rubbing and Washing Fastness of Copper-coated Conductive Fabrics</i> ” |

HONORS AND AWARDS:

- **Shahid Chamran distinguished Post-Doctoral Fellowship**, award by the National Elites Foundation of Iran, 2017.
- **National Elite Foundation Distinguished Graduate Award**, 2016.
- **Best Student’s Book Award**, 23rd Student’s Book Year Festival, 2016.
- **Distinguished Student**, University of Guilan, Iran, 2016
- **Ph.D. Research Grants**, awarded by Iran Nanotechnology Initiative Council

(INIC), 2016.

- **Fully Funded PhD Scholarship**, Ministry of Science and Technology of Iran scholarship for PhD degree, 2012-2016.
- **Best Paper Award**, 12th Scientific Student Conference on Materials and Metallurgy Engineering, 2015.
- **Best Poster Award**, 12th Nanotechnology Iranian Student Conference (NISC), 2012.
- **M.Sc. Research Grants**, awarded by Iran Nanotechnology Initiative Council (INIC), 2011.
- **Full Scholarship in M.Sc.**, Amirkabir University of Technology, 2009-2011.
- **Ranked 4th in Nationwide M.Sc. Entrance Exam**, Textile Chemistry Engineering major of Iranian Universities, 2009.
- **Ranked 2nd Student in B.Sc.**, University of Guilan, Iran, 2009.
- **Full Scholarship in B.Sc.**, University of Guilan, 2005-2009.

PROFESSIONAL EXPERIENCE:

A. **Managing Editor**, *International Journal of Chemoinformatics and Chemical Engineering* (USA).

B. Peer-Reviewed Articles for ISI-indexed journals:

- Talanta
- Advanced Powder Technology
- Thin-Walled Structures
- Current Analytical Chemistry
- Textile Research Journal
- Journal of Industrial Textile
- International Journal of Environmental Analytical Chemistry
- e-Polymer
- Journal of Polymer Engineering

C. **Research assistant**, University of Guilan (Iran), 2007-2016.

D. **Member of Iran's Book House Institute.**

E. **Reviewer of the 17th & 18th Research & Technology Week & Techmart Exhibition of the I.R. of Iran**, 2016, 2017.

TEACHING EXPERIENCE:

- **Taught Computer Applications in Chemistry**, a graduate course, Department of Chemistry, IHU, Tehran, Semester 2016/2, 2017/1.
- **Teaching Assistant, Characterization of Nanomaterials**, a graduate course, Department of Chemistry, IHU, Tehran, Semester 2017/1.
- **Workshop, Manufacturing of engineering structures inspired by nature**, University of Guilan, 2017.
- **Workshop, Writing Academic Paper**, Shahid Rajaei Teacher Training University, Tehran, 2016.
- **Workshop, Search Strategies for Scientific Research**, Tehran, 2015.
- **Workshop, Writing Academic Paper for Engineering Students**, Tehran, 2015.
- **Workshop, Design of Experiments based on Response Surface Methodology (RSM)**, Tehran, 2015.
- **Corporation as the 2nd supervisor** of 2 BSc. Student final projects, Amirkabir University of Technology, Tehran, 2013.

PUBLICATIONS: I. Books:

- A.K. Haghi, E. Kł odzinska, **M. Hasanzadeh**, B. Hadavi Moghadam, “Polymer Nanocomposites Research”, *Institute for Engineering of Polymer Materials and Dyes*, Poland, 2014.
- S. A. Mousavi Shoushtari, **M. Hasanzadeh**, K. Nasouri, B. Hadavi Moghadam, “Approach on the principles and technology of producing nanofibrous structures”, *Sharif University of Technology Press*, Iran, 2014. (in Persian)
- S. Dadvar, A. Oroumei, **M. Hasanzadeh**, “Synthesis and application of nanoparticles in polymeric substrates (New approach based on nanotechnology in textile finishings)”, *Nashre Ketabe Daneshgahi Publication Co.*, Iran, 2009. (in Persian)
- **M. Hasanzadeh**, “Basic topics and multiple choice questions (MCQs) of textile chemistry for M.Sc. entrance exams”, *Sanjesh & Danesh Publication Co.*, Iran, 2011. (in Persian):

5 books including:

- Textile Chemistry I: Thermodynamic.
- Textile Chemistry II: Chemical Dyes and Intermediates.
- Textile Products I & II.
- English for Textile Chemistry Engineering Students.
- Textile Chemistry II: Principles of Color Technology and Printing of Textile Products.

II. Invited Book Chapters:

- 1) M. Akbari, **M. Hasanzadeh**, M. Mohammad, A. K. Haghi*, Production of nanofibers-based filter media using silk fiber waste, 22th Chapter, in “Chemistry and Biochemistry: From Pure to Applied Science”, New Horizons, Volume 3, Edited by E. M. Pearce and G. E. Zaikov, *Nova Science Publisher*, New York, 2009.
- 2) **M. Hasanzadeh***, M. Haghghat Kish, Synthesis and characterization of hyperbranched polymer, 7th Chapter, in “Development of Nanotechnology in Textiles”, Edited by G. E. Zaikov, A. K. Haghi, *Nova Science Publisher*, New York, 2012.
- 3) **M. Hasanzadeh***, B. Hadavi Moghadam, A study on contact angle of electrospun polyacrylonitrile (PAN) nanofiber mat, 5th Chapter, in “Research Progress in Nanoscience and Nanotechnology”, Edited by A. K. Haghi, *Nova Science Publisher*, New York, 2012.
- 4) **M. Hasanzadeh***, T. Moieni, and B. Hadavi Moghadam, Development of new dendritic nanostructure in modification of poly(ethylene terephthalate) fabrics for improving dyeability of acid dyes, 6th Chapter, in “Research Progress in Nanoscience and Nanotechnology”, Edited by A. K. Haghi, *Nova Science Publisher*, New York, 2012.
- 5) B. Hadavi Moghadam, **M. Hasanzadeh**, and A. K. Haghi*, Some Aspects of Electrospinning Parameters, 13th Chapter, in: “Nanopolymers and Modern

Materials: Preparation, Properties and Applications”, Edited by O. V. Stoyanov, A. K. Haghi, G. E. Zaikov, Apple Academic Press, 2013.

- 6) **M. Hasanzadeh**, B. Hadavi Moghadam, M. H. Moghadam Abatari, and A. K. Haghi*, New Developments in the Optimization of Electrospinning Process, 14th Chapter, in: “Nanopolymers and Modern Materials: Preparation, Properties and Applications”, Edited by O. V. Stoyanov, A. K. Haghi, G. E. Zaikov, Apple Academic Press, 2013.
- 7) A. K. Haghi, V. Mottaghitalab, **M. Hasanzadeh**, and B. H. Moghadam, Green Nanofibers, 7th Chapter, in: “Foundations of High Performance Polymers: Properties, Performance and Applications”, Edited by A. Hamrang, B. A. Howell, Apple Academic Press, 2013.
- 8) **M. Hasanzadeh**, B. Hadavi Moghadam, Recent advances in application of metal-organic frameworks (MOFs) in textiles, 41th Chapter, in: “Chemistry and Physics of Modern Materials: Processing, Production and Applications”, Edited by J. N. Aneli, A. Jimenez, S. Kubica, Apple Academic Press, 2013.
- 9) Ramin Mahmoodi, Tahereh Dodel, Tahereh Moieni, and **Mahdi Hasanzadeh**, Hyperbranched Polymers: A Promising New Class of Key Engineering Materials, 11th chapter, in: “Key Engineering Materials, Volume I : Current State-of-the-Art on Novel Materials”, Edited by D. Balkšse, D. Horak, L. oltŽ s, Apple Academic Press, 2013.
- 10) Bentolhoda Hadavi Moghadam, **Mahdi Hasanzadeh**, Progress in Pore Structure Analysis of Porous Membranes, 32th chapter, in: “Key Engineering Materials, Volume I: Current State-of-the-Art on Novel Materials”, Edited by D. Balkšse, D. Horak, L. oltŽ s, Apple Academic Press, 2013.
- 11) V. A. Babkin, G. E. Zaikov, **M. Hasanzadeh**, and A. K. Haghi, Polyacetylene, 7th chapter, in: “Key Elements in Polymers for Engineers and Chemists, From Data to Applications”, Edited by Alexandr A. Berlin, Viktor F. Kablov, Andrey A. Pimerzin, Simon S. Zlotsky, Apple Academic Press, 2014.
- 12) **M. Hasanzadeh**, B. Hadavi Moghadam, Multi-Scale Modeling and Simulation of Dendritic Architectures: New Horizons, 2nd chapter, in: “Engineering of Polymers and Chemical Complexity Volume 2 (New Approaches, Limitations, and Control)”, Edited by W. W. Frocke, H. J. Radosch, Apple Academic Press, 2014.
- 13) **M. Hasanzadeh**, V. Mottaghitalab, R. Ansari, B. Hadavi Moghadam, A. K. Haghi, A Detailed Review on Production of Electrospun CNT-Polymer Composite Nanofibers, 23th chapter, in: “Nanostructures, Nanomaterials, and Nanotechnologies to Nanoindustry”, Edited by V. I. Kodolov, G. E. Zaikov, A. K. Haghi, Apple Academic Press, 2014.
- 14) **Mahdi Hasanzadeh**, Trends in Application of Hyperbranched Polymers (HBPs) in Textile Industry, 10th chapter, in: “Materials Behavior (Research Methodology and Mathematical Models)”, Edited by Mihai Ciocoiu, Apple Academic Press, 2015.

III. Published Papers in ISI-indexed Journals:

- 1) **Mahdi Hasanzadeh***, Vahid Mottaghitalab, Mohammad Rezaei, Hashem Babaei, 'Numerical and Experimental Investigations into the Response of STF-treated Fabric Composites Undergoing Ballistic Impact', *Thin-Walled Structures*, Vol. 119, pp. 700-706, 2017.
- 2) A. Khalili, A. Mottaghitalab, **M. Hasanzadeh**, V. Mottaghitalab, 'Rejection of far infrared radiation from the human body using Cu-Ni-P/Ni nanocomposite electroless plated PET fabric', *International Journal of Industrial Chemistry*, Vol. 8, pp. 109-120, 2017.
- 3) A.H. Mirraimi, **M. Hasanzadeh***, V. Mottaghitalab, P. Sharma, 'Numerical Modelling of Ballistic Impact on HMPP Woven Fabric Impregnated with Shear-thickening Fluids', *Procedia Engineering*, Vol. 173C, pp. 73-76, 2017.
- 4) **Mahdi Hasanzadeh***, Vahid Mottaghitalab, Prince Sharma, 'Puncture Resistance Enhancement of Woven Fabrics using Concentrated Nanosilica Suspension', *Procedia Engineering*, Vol. 173C, pp. 1494-1498, 2017.
- 5) Bozorgmehr Maddah, Ali Sabouri, **Mahdi Hasanzadeh***, 'Magnetic Solid-phase Extraction of Oxadiazon and Profenofos from Environmental Water using Magnetite Fe₃O₄@SiO₂-C₁₈ Nanoparticles', *Journal of Polymers and the Environment*, Vol. 25, pp. 770-780, 2017.
- 6) Bozorgmehr Maddah, Mostafa Soltaninezhad, Korosh Adib, **Mahdi Hasanzadeh***, 'Activated Carbon Nanofiber Produced from Electrospun PAN Nanofiber as a Solid Phase Extraction Sorbent for the Preconcentration of Organophosphorus Pesticides', *Separation Science and Technology*, Vol. 52, 700-711, 2017.
- 7) **Mahdi Hasanzadeh**, Vahid Mottaghitalab, Hashem Babaei, Mohammad Rezaei, 'The Influence of Carbon Nanotubes on Quasi-Static Puncture Resistance and Yarn Pull-Out Behavior of Shear-thickening Fluids (STFs) Impregnated Woven Fabrics', *Composites-Part A*, Vol. 88, 263-271, 2016.
- 8) Somayeh Farhang Dehghan, Farideh Golbabaei, Bozorgmehr Maddah, Masoud Latifi, Hamid Pezeshk, **Mahdi Hasanzadeh**, Farhang Akbar-Khazadeh, 'Optimization of Electrospinning Parameters for PAN-MgO Nanofibers Applied in Air Filtration', *Journal of the Air & Waste Management Association*, Vol. 66, No. 9, 912-921, 2016.
- 9) **Mahdi Hasanzadeh**, Vahid Mottaghitalab, 'Tuning of the Rheological Properties of Concentrated Silica Suspensions using Carbon Nanotubes', *Rheologica Acta*, Vol. 55, No. 9, 759-766, 2016.
- 10) **Mahdi Hasanzadeh**, Vahid Mottaghitalab, Mohammad Rezaei, 'Rheological and Viscoelastic Behavior of Concentrated Colloidal Suspensions of Silica Nanoparticles: A Response Surface Methodology Approach', *Advanced Powder Technology*, Vol. 26, No. 6, 1570-1577, 2015.
- 11) Bozorgmehr Maddah, Sattar Alidadi, **Mahdi Hasanzadeh***, 'Extraction of Organophosphorus Pesticides by Carbon-coated Fe₃O₄ Nanoparticles through Response Surface Experimental Design', *Journal of Separation Science*,

Vol. 39, No. 2, 256-263, 2016.

- 12) Bentolhoda Hadavi Moghadam, Akbar Khodaparast Haghi, Shohreh Kasaei, **Mahdi Hasanzadeh***, 'Computational Based Approach for Predicting Porosity of Electrospun Nanofiber Mat Using Response Surface Methodology and Artificial Neural Network', *Journal of Macromolecular Science, Part B: Physics*, Vol. 54, No. 11, pp. 1404-1425, 2015.
- 13) **Mahdi Hasanzadeh**, Vahid Mottaghitalab, Reza Ansari, Bentolhoda Hadavi Moghadam, and Akbar Khodaparast Haghi, 'Issues in Production of Carbon Nanotubes and Related Nanocomposites: A Comprehensive Review', *Cellulose Chemistry and Technology*, Vol. 49 (3-4), pp. 237-257, 2015.
- 14) **M. Hasanzadeh**, V. Mottaghitalab*, 'The Role of Shear-Thickening Fluids (STFs) in Ballistic and Stab Resistance Improvement of Flexible Armor', *Journal of Materials Engineering & Performance*, Vol. 23, pp. 1182-1196, 2014.
- 15) **Mahdi Hasanzadeh***, Tahereh Moieni, Bentolhoda Hadavi Moghadam, "Synthesis and characterization of an amine terminated AB₂-type hyperbranched polymer and its application in dyeing of poly(ethylene terephthalate) fabric with acid dye", *Advances in Polymer Technology*, Vol. 32, pp. 792-799, 2013.
- 16) Bentolhoda Hadavi Moghadam, **Mahdi Hasanzadeh***, 'Predicting Contact Angle of Electrospun Polyacrylonitrile Nanofiber Mat by Artificial Neural Networks and Statistical Techniques', *Advances in Polymer Technology*, Vol. 32, pp. 956-964, 2013.
- 17) **Mahdi Hasanzadeh***, Tahereh Moieni, Bentolhoda Hadavi Moghadam, "Modification of PET fabrics by hyperbranched polymer: A comparative study of artificial neural networks (ANN) and statistical approach", *Journal of Polymer Engineering*, Vol. 33, pp. 445-452, 2013.
- 18) **M. Hasanzadeh**, B. Hadavi Moghadam, M.H. Moghadam Abatari, and A.K. Haghi*, "On the production optimization of polyacrylonitrile electrospun nanofiber", *Bulgarian Chemical Communications*, Vol. 45, pp. 178-190, 2013.
- 19) B. Hadavi Moghadam, **M. Hasanzadeh**, A.K. Haghi*, "On the contact angle of electrospun polyacrylonitrile nanofiber mat", *Bulgarian Chemical Communications*, Vol. 45, pp. 169-177, 2013.
- 20) A. Shams Nateri*, **M. Hasanzadeh**, "Using fuzzy-logic and neural network techniques to evaluating polyacrylonitrile nanofiber diameter", *Journal of Computational and Theoretical Nanoscience*, Vol. 6, No. 7, pp. 1542-1545, 2009.

IV. Published Papers in non-ISI-indexed Journals (ISC):

- 1) Bozorgmehr Maddah, Hamid Chamani, **Mahdi Hasanzadeh**, "On the Hydrogen Cyanide Removal from Air using Metal loaded Polyacrylonitrile Composite Nanofibers", *Journal of Chemical Health Risks*, Vol. 7, No. 4, pp. 303-315, 2017.

- 2) Bozorgmehr Maddah, **Mahdi Hasanzadeh**, “Fe₃O₄/CNT Magnetic Nanocomposites as Adsorbents to Remove Organophosphorus Pesticides from Environmental Water”, *International Journal of Nanoscience and Nanotechnology*, Vol. 13, No. 2, pp. 139-149, 2017.
- 3) Somayeh Farhang Dehghan, Farideh Golbabaeei, Bozorgmehr Maddah, Masoud Latifi, Hamid Pezeshk, **Mahdi Hasanzadeh**, “Effect of single-walled carbon nanotubes on the porosity of nonwoven nanofiber filter media”, *Nano Material*, Vol. 22, No. 7, pp. 75-85, 2015 (in Persian).
- 4) **Mahdi Hasanzadeh**, Morteza Omidian, “Study on the Preparation and Fabrication of Carbon Nanotubes Fibers and their Potential Applications”, *Donyaye Nano*, Vol. 45, pp. 11-19, 2017 (in Persian).
- 5) **Mahdi Hasanzadeh**, “A Technology Development on Dyeability of PET Fabrics Modified by Hyperbranched Polymer with Particular Application in Textile Industry”, *Polymers Research Journal*, Vol. 9, No. 1, pp. 105-110, 2015.
- 6) Farshid Basiri, Alireza Eslami, Maziyar Sharifzadeh, and **Mahdi Hasanzadeh***, A “Novel Approach for Modeling of Methane Adsorption on Zeolite 13X at High-Pressure Process”, *Polymers Research Journal*, Vol. 8, No. 4, pp. 289-293, 2014.
- 7) S.A. Vaziri*, S.M. Mousavi Motlagh, and **M. Hasanzadeh**, “The effects of bonding agents on the mechanical properties of composite solid propellants containing nitramine”, *Polymers Research Journal*, Vol. 8, No. 4, pp. 295-303, 2014.
- 8) **Mahdi Hasanzadeh***, Bentolhoda Hadavi Moghadam, Electrospun Nanofibrous Membranes as Potential Adsorbents for Textile Dye Removal-A review, *Journal of Chemical Health Risks*, Vol. 3, pp. 15-26, 2013.
- 9) Ramin Mahmoodi, Tahereh Dodel, Tahereh Moieni, and **Mahdi Hasanzadeh***, “Synthesis and Application of Amine-Terminated AB₂-Type Hyperbranched Polymer to Polyamide-6 Fabrics”, *Polymers Research Journal*, Vol. 7, No. 4, pp. 351-359, 2013.
- 10) **M. Hasanzadeh***, B. Hadavi Moghadam, “Recent advances in application of metal-organic frameworks (MOFs) in textiles- A review”, *Polymers Research Journal*, Vol. 7, pp. xx, 2013.
- 11) **Mahdi Hasanzadeh***, Bentolhoda Hadavi Moghadam, “Applying neural network model in modification of poly(ethylene terephthalate) fabrics by hyperbranched polymer”, *Polymers Research Journal*, Vol. 6, No. 4, pp. 329-335, 2012.

V. International Conference Papers:

- 1) M Bijani, M. Alizadeh, **M. Hasanzadeh**, Hydrophobic leather: Plasma Polymerization and Spraying Coating, *The 7th International Color & Coating Congress*, Tehran, Iran, 19-21 December 2017.
- 2) Saeed Hasani Ramedani, Bozorgmehr Maddah, Hasan Hosseni, **Mahdi Hasanzadeh**, Tuning Surface Morphology of Polyurethane Electrospun

Fibers with Different Solvent Mixing Ratio, *International Conference on Nanofibers*, Tehran, Iran, 21-22 October 2017.

- 3) **Mahdi Hasanzadeh***, Vahid Mottaghitalab, Prince Sharma, ‘Puncture Resistance Enhancement of Woven Fabrics using Concentrated Nanosilica Suspension’, *11th International Symposium on Plasticity and Impact Mechanics (IMPLAST 2016)*, New Delhi, India, 11-14 December 2016.
- 4) A.H. Mirrahimi, **M. Hasanzadeh***, V. Mottaghitalab, P. Sharma, ‘Numerical Modelling of Ballistic Impact on HMPP Woven Fabric Impregnated with Shear-thickening Fluids’, *11th International Symposium on Plasticity and Impact Mechanics (IMPLAST 2016)*, New Delhi, India, 11-14 December 2016.
- 5) **Mahdi Hasanzadeh***, V. Mottaghitalab, H. Babaei, A. Fazlipour, ‘Numerical Investigation on the Ballistic Performance of Multi-layer Kevlar Fabrics Impregnated with a Shear Thickening Fluid’, *The Biennial International Conference on Experimental Solid Mechanics (X-Mech 2016)*, Tehran, Iran, 16-17 February 2016.
- 6) **Mahdi Hasanzadeh***, Vahid Mottaghitalab, Mohammad Rezaie, ‘Rheological Behavior of Concentrated Silica Nanoparticle Suspension Containing Multi-Walled Carbon Nanotubes’, *The 2nd International Conference on Rheology and Modeling of Materials (ic-rmm2)*, Miskolc-Lillafüred, Hungary, 5-9 October, 2015.
- 7) **Mahdi Hasanzadeh***, Vahid Mottaghitalab, ‘Rheological and Viscoelastic Behavior of Concentrated Colloidal Suspensions of Fumed Silica Nanoparticles’, *IBEREO 2015 (Challenges in rheology and product development)*, Coimbra, Portugal, 7-9 September 2015.
- 8) **M. Hasanzadeh***, B. Hadavi Moghadam, T. Moieni, and A. K. Haghi, ‘Study on Properties of PET Fibers Modified by Dendritic Polymer’, *National Conference on Nanotechnology and Green Chemistry (NCNG)*, Tehran, Iran, 2013.
- 9) **M. Hasanzadeh***, M. Akbari, A. K. Haghi, ‘A study on improvement of regenerated nanofiber silk fibroin structure’, *1st International Textile Engineering Conference (ITEC)*, Rasht, Iran, October 2009.
- 10) M. Akbari, V. Mottaghitalab, **M. Hasanzadeh**, A. K. Haghi*, ‘New trends and achievements in production of nanofibers-based filter media’, *The Second Saint-Petersburg International Conference on NanoBioTechnologies (NanoBio'08)*, Saint-Petersburg, Russia, 16-18 June 2008.

- **30 national conference papers** (in Persian)

PATENTS:

- ‘Synthesis and Characterization of Amine Terminated Hyperbranched Polymer’, *Iranian Patent No. 72626*.

- “Using Hyperbranched Polymer for Poly(Ethylene Terephthalate) Fabric Dyeing by Acid Dye”, *Iranian Patent No. 73933*.
- “Determination of Optimum Condition for Improving Wettability of Polyacrylonitrile Nanofibers”, *Iranian Patent No. 74216*.

RESEARCH INTEREST:

- Electrospinning of Nanofibers
- Industrial Fiber and Textiles
- Metal-Organic Frameworks
- Rheology of Complex Fluids
- Smart Textiles and Wearable Electronics
- Polymer and Fiber Characterisation

OTHER KNOWLEDGE AND SKILLS:**Computer Skills:**

- Mathematical Softwares: MATLAB, Maple.
- Data Analysing Softwares: Excel, Design Expert, Minitab, SPSS.
- General Softwares: Adobe Photoshop, Microsoft Office,

Languages:

- Persian: Native
- English: Good

REFERENCES

Scholar citations:

<http://scholar.google.com/citations?user=ffAqDUUAAAAJ&hl=en>

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Researcher ID: <http://www.researcherid.com/rid/B-4640-2015>

Dr. V. Mottaghitalab, Associate Professor
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Amirkabir University of Technology
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Dr. A.K. Haghi, Professor
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