

Short Curriculum Vitae

Mehdi Rahmaninia

Date of Birth: 28 - Aug. - 1979

Dept. of Wood and Paper Sciences and Technology, Faculty of Natural Resources,
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https://www.researchgate.net/profile/Mehdi_Rahmaninia/contributions

Education/Employment

Assistant Professor of Tarbiat Modares University (TMU)	(2011-present)
Visiting Assistant Professor in Shahid Beheshti University	(2009-2011)
- Ph.D. Pulp and Paper Science in University of Tehran	
(Thesis: Improving Drainage and Strength of OCC Pulp Using Cationic Starch - Nanosilica System)	(2004-2009)
- Visiting Lecturer and Sabbatical in Asian Institute of Technology (AIT)	(2008-2009)
- M.Sc. Wood and paper Science and Industry	(2002-2004)
(Thesis: The effect of Aging on Deinkability of Newspaper)	
- B.Sc. Wood and paper Science and Industry	(1998-2002)
(Thesis: Chemical Analysis of CMP Mill Sludge)	

Research Interests

- 1- Paper Recycling
- 2- Papermaking Especially Wet End Chemistry
- 3- Nanotechnology in Pulp and Paper Sciences and Industries
- 3- Biorefinery

Honors

- Second rank among B.Sc. students of wood and Paper at University of Tehran
- First rank among M.Sc. students of wood and Paper at University of Tehran

Teaching Experience

- Wood Chemistry Lab - University of Tehran (2005-2006)
- Technology of Pulp and Paper Lab - University of Tehran (2005-2008)
- Basic Principal of Spectroscopy - Tarbiat Modares University (2011-2013)
- Advanced Paper Recycling - Tarbiat Modares University (2012-2017)
- Advanced Pulp and Paper Lab - Tarbiat Modares University (2012-2017)

Research Projects

- Preservation of Wood for using in Caspian Sea- University of Mazandaran (2005).
- Papermaking with APMP pulp from Wheat Straw -University of Tehran (2006).
- Thermal Accelerated Aging of CMP Paper - Shahid Beheshti University (2010)
- Enzymatic Treatment of OCC Pulp - Shahid Beheshti University (2010)
- Using Cationic Starch-nanosilica System in Recycled OCC Pulp-University of Tehran (2008).
- Using Chitosan and Nano-chitosan Biopolymers in Wet End Chemistry of paper Recycling-Iran National Science Foundation (2015).

Students and Thesis Supervised/Advised/Examined

- Supervising about 10 Theses in different Universities.
- Advising about 8 Theses in different Universities.
- Examiner of about 25 Theses in different Universities.

Reviewing Duties

- Reviewer of several articles in *Cellulose Journal*.
- Reviewer of several articles in *Cellulose Chemistry and Technology Journal*.
- Reviewer of several articles in *Lignocellulose Journal*.
- Reviewer of several articles in Different Iranian Pulp and Paper Journals.

Membership

- Associate Editor of *Lignocellulose Journal (International Journal)* (2010-present)
- Board of Directors in Students' Association of Wood and Paper Science (SWPS) for 3 years (1999-2002).
- Member of Iran Association of Wood & Paper (2008-present).
- Member of scientific and executive committee of WET END CHEMISTRY workshop in Shahid Beheshti University (2010).
- Member of technical committee of several pulp and paper standards in Iran National Standards Organization (2011-2015).
- Member of HSE committee of Tarbiat Modares University (2014-present).

Publications in Journals

(The ones specified with * are indexed in Scopus)

Rahmaninia, M, Jahan, LA, & Pirjani, A (2007). The Effect of Newspaper Aging on Some Physical and Mechanical Properties of Recycled Paper. *Journal of the Iranian Natural Resources*, 60(1), 257-266.

Rahmaninia, M, Latibari, AJ, Mirshokraei, SA, & Azadfallah, M (2008). The influence of newspaper aging on optical properties of its de-inked pulp. *Turkish Journal of Engineering and Environmental Sciences*, 32(1), 35-39.

Kermanian, H, Razmpour, Z, Ramezani, O, & Rahmaninia, M (2010). Water Consumption Reduction Strategies in Iranian Recycled Packaging Paper Mills. *Environmental Sciences*, 8(1), 115-134.

* Khosravani, A, Latibari, AJ, Mirshokraei, SA, Rahmaninia, M, & Nazhad, MM (2010). Studying the effect of cationic starch-anionic nanosilica system on retention and drainage. *BioResources*, 5(2), 939-950.

Rahmaninia, M, Mirshokraei, SA, Ebrahimi, GH, & Mohammad, NM (2011). Effect of Cationic Starch-nanosilica System on Retention and Drainage of Washed OCC Pulp. *Journal of Forest and Wood Products (JFWP) (IRANIAN JOURNAL OF NATURAL ...*

Razmpour, Z, Kermanian, H, Ramezani, O, Mahdavi, S, & Rahmaninia, M (2012). The Effect of NSSC Waste Paper Recycling Times on the Properties of the Produced Recycled Pulp. *Environmental Sciences*, 9(2), 1-11.

Ramezani, O, & Rahmaninia, M (2012). Lignocellulose—An Online Scientific Journal Devoted to All Issues Related to Lignocellulosic materials. *Lignocellulose Journal*, 1(1), 1-2.

* Kermanian, H, Razmpour, Z, Ramezani, O, Mahdavi, S, Rahmaninia, M, & ... (2013). The influence of refining history of waste NSSC paper on its recyclability. *BioResources*, 8(4), 5424-5434.

Khosravani, A, & Rahmaninia, M (2012). Paper recycling, an old but still effective solution. *Lignocellulose*, 1(3), 1-2.

Varshoei, A, Javid, E, Rahmaninia, M, & Rahmany, F (2013). The Performance of Alkylketene Dimer (AKD) for the Internal Sizing of Recycled OCC Pulp. *Lignocellulose*.

* Khosravani, A, & Rahmaninia, M (2013). The potential of nanosilica—cationic starch wet end system for applying higher filler content in fine paper. *BioResources*, 8(2), 2234-2245.

* Rahmaninia, M, & Khosravani, A (2015). Improvin the Paper Recycling Process of Old Corrugated Container Wastes. *Cellulose Chemistry and Technology*, 49(2), 203-208.

Alishahi, S, M., Ramezani, O., Kermanian, H., Rahmaninia, M., Nasiri, & ..., S.A (2014). The influence of drying conditions on the chemical characteristics of bagasse recycled pulp. *Iranian Journal of Wood and Paper Science Research*, 29(2), 190-198.

Ebrahimi, M, Ramezani, O, Rahmaninia, M, Kermanian, H, & Andalibian, MA (2014). Performance of Amylase on Properties of Recycled OCC Pulp Pre-soaked at Different pH(s). *Journal of Forest and Wood Products*, 67(2), 325-333.

* Resalati, H, Feizmand, M, Kermanian, H, & Rahmaninia, M (2015). The effects of recycling the pre-extracted liquor on subsequent pre-extraction and soda- AQ pulping of wheat straw. *Nordic Pulp and Paper Research Journal*, 30(1), 160-164.

Rahmaninia, M, Rohi, M, Ramezani, O, & Zabihzadeh, SM (2015). The Effect of Pulp Suspension pH on the Performance of Chitosan –Nanobentonite as a Dry Strength Additive in Hardwood CMP Pulp. *Journal of Forest and Wood Product*, 68(2), 347-357.

* Khosravani, A, Asadollahzadeh, M, Rahmaninia, M, Bahramifar, N, & ... (2016). The Effect of External and Internal Application of Organosilicon Compounds on the Hydrophobicity of Recycled OCC Paper. *BioResources*, 11(4), 8257-8268.

* Rohi, M, Ramezani, O, Rahmaninia, M, Zabihzadeh, SM, & Hubbe, M (2016). Influence of Pulp Suspension pH on The Performance of Chitosan as a Strength Agent for Hardwoods CMP Paper. *Cellulose Chemistry and Technology* 50 (7-8), 873-878.

Hosseini, K, Rahmaninia, M, & Khosravani, A (2016). Comparison of Chitosan Performance in a Single or Nanoparticle System as a Wet End Additive in Recycled Printing and Writing Papers. *Journal of Forest and Wood Product*, 68(4), 815-827.

* Rahmaninia, M, Javid, E, & Varshoei, A (2016). Process Variables and the Performance of Cationic Rosin as an Internal Sizing Agent in Recycled Corrugated Container Pulp. *Bioresources*, 11(2), 5333-5342.

* Rohi, M., Ramezani, O., Rahmaninia, M., Zabihzadeh, S. M., Hubbe, M.A. (2016). The influence of pulp suspension pH on the performance of 4hitosan as a strength agent for paper. *Cellulose Chemistry and Technology*, 50(7-8),

* Khosravani, A., Asadollahzadeh, M. T., Rahmaninia, M., Bahramifar, N., Azadfallah, M. (2016). The Effect of External and Internal Application of Organosilicon on Hydrophobicity of Recycled OCC Paper. *Bioresources*, 11(4),

* Sabazodkhiz, R., Rahmaninia, M., Ramezani, O. (2017). Interaction of Chitosan Biopolymer with Silica Nano-particle as a Novel Retention/Drainage and Reinforcement Aid in Recycled Cellulosic Fibers. *Cellulose*, 24(8), 3433–3444.

* Rahmaninia, M., Rohi, M., Hubbe, M.A. Zabihzadeh, S. M., Ramezani, O. (2017) The performance of 4hitosan with bentonite microparticles as wet-end additive system for paper reinforcement. *Carbohydrate Polymer*, <https://doi.org/10.1016/j.carbpol.2017.09.036>

Conference Publication

National Conferences

- Publishing/Presenting about 35 Papers in National Conferences.

International Conferences

- Rahmaninia, M., Mirshokraei, S. A., Ebrahimi G., Khosravani, A., Nazhad, M. M., "Effect of Cationic Starch- Nanosilica System on Drainage of OCC Pulp ", NanoThailand Conference, Poster Presentation, 2008
- Khosravani, A., Latibari, A. J., Mirshokraei, S. A., Tajvidi, M., Rahmaninia, M., Nazhad, M. M., " The Performance of Nanoparticles in Relation With Zeta Potential of Wet-end System", NanoThailand Conference, Poster Presentation, 2008
- Rahmaninia, M., Mirshokraei, S. A., Ebrahimi G., Khosravani, A., Nazhad, M. M., " The Role of Cationic Starch-Nanosilica System on Retention and Drainage " , Nano Bio Conference (USA), Poster Presentation, 2008
- Khosravani, A., Latibari, A. J., Mirshokraei, S. A., Tajvidi, M., Rahmaninia, M., Nazhad, M. M., " MONITORING THE PERFORMANCE OF NANOPARTICLES AT WET-END SYTEM OF A PAPER MILL BY ZETA POTENTIAL" , Nano Bio Conference (USA), Oral Presentation, 2008
- Attending in 2008 Asian Paper Conference, Thailand, June 2008
- Khosravani, A., Rahmaninia, M., Navaee-Ardeh, S., Latibari, A. J., Nazhad, M. M., " The EFFECT OF CATIONIC STARCH-ANIONIC NANOSILICA SYSTEM ON PAPERMAKING PROCESS AND QUALITY OF THE END PRODUCTS" , 2012 International Paper Physics Conference, Stockholm(Sweden), Poster Presentation, June 10-14, 2012
- Rahmaninia, M., Rohi, M., Ramezani, O., Zabihzadeh, S.M., " The EFFECT OF PULP SUSPENSION PH ON THE PERFORMANCE OF CHITOSAN AS A STRENGTH FOR PAPER" , 14th Eurppean Workshop on Lignocellulose and Pulp, France, Poster Presentation , 2016
- Rahmaninia, M.,Rohi, M., Ramezani, O., Zabihzadeh, S.M." Chitosan - Bentonite as a New Wet-End Reinforcement system For Mixed Hardwood CMP pulp", Wood and Biofiber International Conference, Malysia, Oral Presentation, 2017.

Patents

- Three Patenting in **Iranian Patent Organization** and one patenting waiting for consideration in **US Patent**.