



Dr. Amir Khosravani, Associate Professor

Cellulose and Paper Sciences & Technologies

Wood and Paper Science & Technology Dep.

Tarbiat Modares University

## Personal & Contact Information

- **Date of Birth:** 05 August 1980
- **Place of Birth:** Tehran, Iran
- **Language:** Persian, English
- **Address:** Cellulose & Paper Industries Section, Wood and Paper Science & Technology Department, Faculty of Natural Resources, Tarbiat Modares University (TMU), P.O.Box: 46414-356, Noor, Mazandaran, Iran.
- **Tel:** +98 11 44499083
- **Fax:** +98 11 44553499
- **Email:** khosravani@modares.ac.ir; khosravaniamir@yahoo.com
- **Web Page:** [www.modares.ac.ir/~khosravani](http://www.modares.ac.ir/~khosravani)
- **Google Scholar:**  
[https://scholar.google.com/citations?hl=en&user=8TfYFn0AAAAJ&view\\_op=list\\_works](https://scholar.google.com/citations?hl=en&user=8TfYFn0AAAAJ&view_op=list_works)

## Research Interests

- Nanotechnology in cellulose and paper industries
- Paper Chemistry, poly-electrolytes, nanoparticles
- Isolation and fabrication of high value added lignocellulosic products from papermill wastes, fines, sludges, etc.

## ● Honors & Awards

- ✓ **First rank top student in BSc**, Wood and Paper Science & Technology Department, Faculty of Natural Resources, University of Tehran, Iran.
- ✓ **First rank top student in MSc** National Exam for governmental universities in Iran, Wood and Paper Science & Technology field of study.
- ✓ **First rank top student in PhD** Entrance Exam, Wood and Paper Science & Technology, University of Tehran, Iran.
- ✓ **Top student and awarded for all other education levels.**

## ● Education / Employment

- **Associate Professor**, Cellulose & Paper Industries Section, Wood and Paper Science & Technology Department, Faculty of Natural Resources, Tarbiat Modares University (TMU), Iran. (2020-Now)
- **Assistant Professor**, Cellulose & Paper Industries Section, Wood and Paper Science & Technology Department, Faculty of Natural Resources, Tarbiat Modares University (TMU), Iran. (2011-2020)
- **Research Fellow and Sabbatical**, Pulp and Paper Technology (PPT) School, Asian Institute of Technology, Bangkok, Thailand. (2008-2009)
- **PhD**, Thesis Title: Application of Cationic Starch-Anionic Nanosilica System for More Filler Content in Fine Paper, Wood and Paper Science & Technology Department, University of Tehran. (2004-2009)
- **MSc**, Dissertation Title: Chemical Processing of OCC Pulp to Treat Stickies Material and Improving the Pulp Properties, Wood and Paper Science & Technology Department, University of Tehran. (2002-2004)
- **BSc**, Project Title: Soda Pulping of Wheat Straw, Wood and Paper Science & Technology Department, University of Tehran. (1998-2002)

## ● Courses Taught

- Advanced Paper Manufacture Technology (MSc Course)
- Paper Chemistry (MSc Course)
- Natural Fibers (MSc Course)
- Colloid Chemistry and Application of Nanoparticles in Papermaking (PhD Course)
- Market Analysis of Lignocellulosic Raw Materials and Products (PhD Course)

## ● Research Papers in Google Scholar (the ones specified with ✨ are also indexed in Scopus)



- ✓ ✨ Nejati, V., [Khosravani, A.](#), Behrooz, R. (202x). "Enhanced Clay- filled Superabsorbent from Fine Materials of Recycled Old Corrugated Container Pulps, *Journal of Clay*, (Manuscript).
- ✓ Shamsi, S.S., [Khosravani, A.](#), Rahmaninia, M. (202x). " The effect of old corrugated container pulp fractionation on the properties of produced paperboard in comparison to long fiber application", *Iranian Journal of Wood and Paper Science Research*, (submission).
- ✓ ✨ Zare, S., Sadeghi, S.H.R., [Khosravani, A.](#) (2021). "Controllability of soil and water loss in small plots using nanofiber amendment produced from recycled old paperboard containers", *Soil and tillage research*, 209, 104949. <https://doi.org/10.1016/j.still.2021.104949>
- ✓ Zare, S., Sadeghi, S.H.R., [Khosravani, A.](#) (2020). "Effectability of Runoff Generation and Soil Loss from Application of Residual Fine Amendments in Small Experimental Plots", *Journal of Water and Soil Conservation*, 27 (2): 195-207.

- ✓ ✨ Sangtarashani, M.H., Rahmaninia, M., Behrooz, R., [Khosravani, A.](#) (2020). "Lignocellulosic hydrogel prepared from recycled old corrugated containers pulp using ionic liquid as a green solvent", *Journal of Environmental Management*, 270. <https://doi.org/10.1016/j.jenvman.2020.110853>
- ✓ Mehranfar, A.H., Khosravani, A., Rahmaninia, M. (2020). "The effect of electrical conductivity on the performance and interaction of cationic starch- anionic nanosilica in pulp slurry", *Iranian Journal of Wood and Paper Science Research*, 35 (1), 102-112.
- ✓ Fatehi, E., Rahmaninia, M., Khosravani, A., Iron, Z. (2020). "The performance of raw and oxidized starch as reinforcing additives of internal bond in recycled multilayer paperboards", *Iranian Journal of Wood and Paper Science Research*, 35 (1), 76-87.
- ✓ Ramezani, N., Khosravani, A., Rudi, H.R. (2020). "Investigation on adsorption, configuration and performance of chitosan polyelectrolyte in pulp slurry by ellipsometry technique", *Iranian Journal of Wood and Paper Science Research*, 34 (4), 535-546.
- ✓ Kalurazi, J.F., Khosravani, A. (2020). "Production of multi-ply paperboard from old corrugated container pulp and application of fine materials in the middle layer", *Iranian Journal of Wood and Paper Industries*, 11 (1):1-12.
- ✓ ✨ Pourjafar, M., Khosravani, A., Behrooz, R. (2020). "Fiber Fines for Fabricating Lignocellulose Films and the Effect of Lignin", *BioResources*, 15(2): 4417-4433.
- ✓ Nejati, V., Khosravani, A., Behrooz, R. (2020). "The effect of kaolinite on the properties of lignocellulose superabsorbent from old corrugated container fiber fines", *Iranian Journal of Wood and Paper Industries*, 10 (4): 531-542.
- ✓ ✨ Amiri, E., Rahmaninia, M., Khosravani, A. (2019). "Effect of Chitosan Molecular Weight on the Performance of Chitosan-Silica Nanoparticle System in Recycled Pulp", *BioResources*, 14 (4): 7678-7701.
- ✓ ✨ Yousefhashemi, S.M., Khosravani, A., Yousefi, H. (2019). "Isolation of lignocellulose nanofiber from recycled old corrugated container and its interaction with cationic starch-nanosilica combination to make paperboard", *Cellulose*, 26(12):7207-7221.

- ✓ Yousefhashemi, S.M., Khosravani, A., Yousefi, H. (2019). "The effect of addition of lignocellulose nanofiber produced from old corrugated container pulp on recycled paperboard properties", *Iranian Journal of Wood and Paper Industries*, 9 (4), 575-583.
- ✓ ✨ Khosravani, A., Pourjafar, M., Behrooz, R. (2018). "The effect of lignin on processing and the properties of lignocellulose material recovered by ionic liquid", *IOP Series: Materials Science and Engineering*, 368, 012029, doi:10.1088/1757-899X/368/1/012029
- ✓ Amiri, E., Rahmaninia, M., Khosravani, A. (2018). "Effect of chitosan electrostatic charge on the performance of chitosan-nanosilica in recycled pulp from old corrugated container", *Iranian Journal of Wood and Paper Industries*, 9 (3), 459-469.
- ✓ Sadeghi Nik, B., Khosravani, A., Mohebbi, B., Yousefi, H. (2018). "The effect of dissolution time on wettability and certain properties of cellulose film produced using ionic liquid", *Iranian Journal of Wood and Paper Industries*, 9 (2), 223-234.
- ✓ Jahanshahlu, S., Khosravani, A., Rahmaninia, M. (2017). "Comparing the effect of silica sol and bentonite nanoparticles on the performance of cationic starch with respect to drainability, retention and strength properties of recycled paper", *Iranian Journal of Wood and Paper Science Research*, 32 (2), 227-237.
- ✓ Mehranfar, A.H., Khosravani, A., Rahmaninia, M. (2017). "The effect of cationic starch degree of substitution on nanoparticle system performance in old corrugated containers recycling", *Forest and Wood Products*, 70 (1), 147-155.
- ✓ Hoseinian, Kh., Rahmaninia, M., Khosravani, A. (2017). "The influence of nanochitosan addition on the process and quality properties of printing and writing paper made from recycled fibers ", *Forest and Wood Products*, 69 (4), 831-840.
- ✓ ✨ Niroomand, F., Khosravani, A., Younesi, H. (2016). "Fabrication and properties of cellulose-nanochitosan biocomposite film using ionic liquid", *Cellulose*, 23 (2), 1311-1324.

- ✓ ✨ Khosravani, A., Asadollahzadeh, M., Rahmaninia, M., Bahramifar, N., Azadfallah, M. (2016). "The Effect of External and Internal Application of Organosilicon Compounds on Hydrophobicity of Recycled OCC Paper", *BioResources*, 11 (4), 8257-8268.
- ✓ Hoseinian, Kh., Rahmaninia, M., Khosravani, A. (2015). "The influence of nanochitosan addition on the process and quality properties of printing and writing paper made from recycled fibers ", *Forest and Wood Products*, 68 (4), 815-827.
- ✓ ✨ Rahmaninia, M., Khosravani, A., (2015). "Improving the Paper Recycling Process of Old Corrugated Container Wastes", *Cellulose Chemistry and Technology*, 49 (2), 203-208.
- ✓ ✨ 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.
- ✓ ✨ Khosravani, A., Latibari, A.J., Mirshokraei, S.A., Rahmaninia, M., Nazhad M.M., (2010). "Studying the effect of cationic starch-anionic nanosilica system on retention and drainage", *BioResources*, 5 (2), 939-950. (JCR-2015 <25%)
- ✓ Khosravani, A., Latibari, A.J., Tajvidi, M., Mirshokraei, S.A., Rahmaninia, M., Nazhad M.M., (2010). "Studying the influence of cationic starch dosage on performance of anionic nanosilica-cationic starch system in fine paper", *Forest and Wood Products*, 63 (1), 1-8.
- ✓ Ekhtera, M.H., Khosravani, A., Latibari, A.J., Talaeipour, M. (2009). "A study on domestic facial tissue quality versus common imported facial tissue and common quality improving solutions", *Forest and Wood Products*, 62 (1), 1-10.
- ✓ Khosravani, A., Latibari, A.J., Mirshokraei, S.A. (2007). "A study on the effect of two chemicals in agglomerating stickies ", *Forest and Wood Products*, 60 (3), 989-999.

## ● International Conferences & Seminars

- ✓ *Khosravani, A., Pourjafar, M., Behrooz, R., 2017. "The effect of lignin on processing and the properties of lignocellulose material recovered by ionic liquid", WOBIC Conference, Malaysia.*
- ✓ *Khosravani, A., Latibari, A. J., Mirshokraei, S. A., Tajvidi, M., Rahmaninia, M., Nazhad, M. M., 2008. "The Performance of Nanoparticles in Relation with Zeta Potential of Wet-end System", NanoThailand Conference.*
- ✓ *Rahmaninia, M., Mirshokraei, S. A., Ebrahimi G., Khosravani, A., Nazhad, M.M., 2008. "Effect of Cationic Starch- Nanosilica System on Drainage of OCC Pulp," NanoThailand Conference.*
- ✓ *Khosravani, A., Latibari, A. J., Mirshokraei, S. A., Tajvidi, M., Rahmaninia, M., Nazhad, M. M., 2008. "Monitoring the performance of nanoparticles at wet-end system of a paper mill by zeta potential", Nano Bio Conference (USA).*
- ✓ *Rahmaninia, M., Mirshokraei, S. A., Ebrahimi G., Khosravani, A., Nazhad, M. M., 2008. The Role of Cationic Starch-Nanosilica System on Retention and Drainage", Nano Bio Conference (USA).*

## ● Patents

- *Khosravani, A., Pourjafar, M., Behrooz, R., 2017. "Using Fines and Fiber Fraction Wastes of Papermaking Mill to Produce Cellulose Film and Derivatives". Iran Patent Organization, NO.87591.*
- *Khosravani, A., et al. "Special composting method for paper mill wastes". Iran Patent Organization, Pending.*

## ● Collaborations, Industrial Cooperations and Workshops

- Collaboration with **Dekhoda Duplex Board production project** (from bagasse) in Iran (2006-2008).
- Collaboration with **Rahian Kavir Paper Converting & Printing Co** (2008-2010).
- Collaboration with **Sib-e-Fars Paper Converting & Printing Project** for preparation of technical feasibility study and business plan in Iran (2009-2010).

- **Research, Education and Advisory Collaboration** with Various Paper and Board mills in Iran and technical meetings with Voith Paper, Andritz, Metso Paper, Alimand (2006-2008).
- Collaboration and workshops for **Glucosan Co** in the field of starch and starch derivative applications in paper industry (2013).
- Collaboration with **Koolancel Co.** for technical analysis and production of special paper (2017-Present).
- Research, education and advisory collaboration with **Paper and Board Manufacturers' Syndicate of Iran** (2019-Present).
- Member and contact person for **Iran Scientific Association of Wood and Paper.**
- Iran National Science Foundation (INSF), 2016. Application of wastes and fiber fines of papermaking to produce lignocellulose films.
- Koolancel Co., 2019. Production of Cooling Pad Papers in Laboratory scale.
- Stone paper Co., Product evaluation, 2020.

## ● Reviewing Duties

- ★ Reviewer of **Cellulose journal**, (JCR<5%),
- ★ Reviewer of **Bioresources journal**, (JCR<30%).
- ★ Reviewer in *Journal of Forest and Wood Products*.
- ★ Reviewer in *Journal of Wood and Forest Science and Technology*.
- ★ Reviewer in *Iranian Journal of Wood and Paper Science Research*.
- ★ Reviewer of *Iranian Journal of Wood and Paper Industries*.
- ★ Reviewer and evaluator of research proposals for various organizations as: Iran National Science Foundation (INSF), and various universities
- ★ Examiner of PhD and MSC students, research proposals, dissertations, theses for various universities.
- ★ Reviewer and member of scientific committee of the 5<sup>th</sup> Symposium on Losses of Agricultural Products (SOLAP 2011)