

ROUZBEH ASADI KHANSARI

Birth date: November 1, 1970, Kermanshah (Bakhtaran), Iran **Citizenship:** Iran
Spoken languages: Persian, English, German **Marital status:** Married, 2 children
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High school: Salman Farsi (Dariush), SHIRAZ, IRAN, 1985/9 to 1989/5 Experimental Science

Academic degrees:

BSc: Wood Science and Technology, 1989/9 to 1994/3, Islamic Azad University, Karaj, Iran

MSc: Wood & Paper Science and Technology, (Chemical conversion of wood), Scholarship of the Ministry of Science, 1995/2 to 1997/9, Tarbiat Modares University (TMU), Tehran, Iran

PhD: Pulp & Paper Industry, Gorgan University of Agricultural Sciences & Natural Resources, 2012/2 to 2017/3

Specialized courses: Workshop of wooden products, Wood plastic composite (WPC), Standard Setting in wood, pulp and paper, Applications of Nanotechnology & Nano-Coatings.

Professional Experiences:

Lecturer, Department of Wood and Paper Industry, Engineering Faculty of Someh Sara from 1997/9 to 2017/6

Teacher, natural resources organization of Gilan province from 1998/9 to 2001/1

Head of Department of Wood & Paper Industry, Engineering Faculty of Someh Sara from 2001/9 to 2007/9

Vice Chancellor for Education and Student Affairs, Engineering Faculty of Someh Sara from 2007/9 to 2010/9

Head of Department of Wooden arts, Engineering Faculty of Someh Sara from 2014/2 to 2017/9

Head of Departments, Engineering Faculty of Someh Sara from 2017/9 to 2020/11

Assistant Professor, Department of Wood and Paper Industry, Engineering Faculty of Someh Sara from 2017/6 to now

Secretary of ISO corresponding Technical Committee 89, Wood based panels (ISIRI/TC89) from 2018/7 to now

Vice Chancellor for Education, Research and Technology, 2020/12 to now

Courses Taught: Technology of fiberboard production, Wood composites, Design of wooden houses, Wood chemistry, Technical language, Chemical & mechanical conversion of wood, Wood anatomy and Lab, Knowledge of commercial woods, Wood modification, Wood physics and Lab, Workshop of panel products, Workshop of wooden structures, Science of forest, Quality control, Computer programming, AutoCAD, CATIA, 3D design of wood parts, Software such as Wood working design, Winwood, Cut pro, Kitchen draw and Alno.

Laboratory Experiences:

- Coating of papers
- Printability and recyclability of papers
- Nano-cellulose fibers
- Microscopy (FESEM)
- Rot fungi and Wood modification
- Wood Physics Lab
- Mechanic of wood & wood-based composites
- Workshop of wooden structures
- Thermowood production
- FTIR analysis
- Contact angle measurement
- AutoCAD engineering drawing
- 3D design and structural analysis by CATIA

Research Fields:

- Coating of papers by biopolymers and Nano fibers
- Biotechnology in pulp and paper industry
- Wood and fiber biology and anatomy
- Pulp mill effluents
- Biofuel production and Gasification of black liquor
- Packaging for food industries

Current Researches:

Biological treatment for wastewater
Air and Oil Heat treatments on wood
Barrier coating of paper and paperboard
Enzymatic Modification and biodeinking of papers

Lectures:

- Art of the creation of tree and wood
- Biopulping
- Biotechnology in reduction of pollutants
- 2D & 3D drawing with AutoCAD
- Wood working design with CATIA software
- Engineering design of furniture and wooden houses

Publications:

- (Translate): Biotechnology for Pulp and Paper Processing, 426 pages, Pratima Bajpai, Springer 2012, Gorgan University, in press.
- The effects of PCC and GCC coatings on commercial non-sized paper properties - International Journal of Lignocellulosic Products (IJLP), in press.
- Wastewater treatment by wood chips and enzymatic static bed, 25/410/22/407, Supervised and supported by the Technical and Vocational University, from 15/3/2020 to ...
- Effect of coating type and grammage of printing paper on water drop contact angle over time, Iranian Journal of Wood and Paper Science Research, DOI:10.22092/IJWPR.2020.128651.1597, Volume 35, Issue 2, Summer 2020, 165-177.
- National research project, Fuel production from wood and paper wastes, 25/400/97/231, Supervised and supported by the Technical and Vocational University, from 23/10/2018 to 16/2/2020.
- National research project, Apparatus for wood thermal treatment with hot oil, 25/400/97/230, Supervised and supported by the Technical and Vocational University, from 23/10/2018 to 30/8/2019.
- A review of the production process and wastewater management in the paper industry, The 1st international conference on the Caspian Sea environmental & sustainable development, University of Guilan, Rasht, Iran. October 1-2, 2019.
- Water treatment of rivers leading to the Caspian Sea by biotechnology, The 1st international conference on the Caspian Sea environmental & sustainable development, University of Guilan, Rasht, Iran. October 1-2, 2019.
- Effect of calendering on physical and mechanical properties of coated papers, Iranian journal of wood and paper industries (IJWP), Volume 10, Issue 2, summer 2019, 273-285.
- Methods of making fiber webs and their application, National Conference on Knowledge and Innovation in the Wood and Paper Industry, Tehran University, Feb. 28, 2019.
- Recognition of waste factors in the production of wrapping paper (Chouka case study), National Conference on Knowledge and Innovation in the Wood and Paper Industry, Tehran University, Feb. 28, 2019.
- Benefits of producing Shii-take fungi with wooden bed, National Conference on Knowledge and Innovation in the Wood and Paper Industry, Tehran University, Feb. 28, 2019.
- Effect of electric current on shrinkage and swelling of wood, National Conference on Knowledge and Innovation in the Wood and Paper Industry, Tehran University, Feb. 28, 2019.
- National research project, Biodegradable paper with barrier properties, 178/96/400/25, Supervised and supported by the Technical and Vocational University, February 2018 to October 2018.
- The effects of biodegradable coating on properties of printing paper, Oral presentation, 8th International Conference on Environmental Chemistry and Engineering, September 20-22, 2018, Berlin, Germany.
- Optical properties and color in packaging industry, Journal of Packaging Science and Technology, Year IX, No 33, 2018, 64-71.
- Consumption of bark tannin as a gluing of wood panels, National Conference on Knowledge and Innovation in the Wood and Paper Industry with an Environmental Approach, Tehran University, Dec. 21, 2017.
- Reducing environmental pollution in pulp recycling through enzymatic deinking, National Conference on Knowledge and Innovation in the Wood and Paper Industry with an Environmental Approach, Tehran University, Dec. 21, 2017.
- The effect of coatings and coating weight by two types of PCC on barrier and optical properties and roughness of paper, Iranian journal of wood and paper industries (IJWP), Volume 8, Issue 2, summer 2017, 283-295.
- Fluting and kraft liner papers with GCC coatings and PVA binder, Journal of Wood and Forest Science and Technology, (JWFST), Volume 24, Issue 1, spring 2017, 145-160.
- Manufacturing and application of new combinations for coating of paper and paperboard in packaging, Journal of Packaging Science and Technology, Year VI, No 24, 2016, 40-47.
- The effect of biodegradable coatings on the barrier properties of papers, Iranian journal of wood and paper industries (IJWP), Volume 7, Issue 1, Spring 2016, 91-101.
- Application and environmental management of industrial sludge, The first International Conference on Healthy Agriculture, Nutrition and Community (ICANC 2015), February 19-20, 2015.
- Polyester-rice stem straw composite, The second national conference on new technologies in the wood and paper industries, Islamic Azad university, Chalus Branch, 2014.
- Production of green energy, situation of nonrenewable resources, National conference on energy consumption optimization in science and engineering, Babol, 2014.
- Findings of biotechnology in reduction of pollutants from pulp mill effluents, Fourth International Conference on Environmental Challenges and dendrochronology, Sari University, 2014.

- Biotechnology in pulp mill effluent pollution reduction - National Conference, Gonbad University, 2014.
- Sustainable production of energy in units of wood industry and pulp mill, Journal of Conservation and Utilization of Natural Resources, Vol. 1 (1), 2013, 19-36.
- Introduce of new paper and cardboard in food packaging, Journal of Packaging Science and Technology, Year IV, No 16, 2013, 46-57.
- Cambium layer in the production of wood (*Aesculus hippocastanum*), National Conference, Islamic Azad university, Astara Branch, 2010.
- Product quality control, Pamphlet, 2009.
- Ways to penetrate computer networks, 2009.
- Physical and mechanical properties of wood, Pamphlet, 2006.
- Technical Translation, Festival of e-content, Software, 2006.
- Wood Science 5, Festival of e-content, Software, 2004.
- Identification of wood, Pamphlet, 2004.
- Software editing for a Kraft and soda pulp mill, National Conference, Tehran University, Chouka, 2003.
- Computer Application, Pamphlet, 2001.
- Utilization of forest science, Pamphlet, 1999.
- Supply of wood in Iran with variety of Poplar species, Karafan Journal, Vol. 1 (1), winter, 1999.
- Process design software editing for a Kraft and Soda pulp mill, MSc thesis, 1997.
- Technology and technical information of CMP/CTMP, MSc seminar, 1996.
- A study on wood handling of CHUKA (Guilan forest products complex) factory, BSc thesis, 1994.

Research Students Supervised: (In Persian)

- Zare, S.; 2011: Beech wood table design and structural analysis by Catia software; BSc Research Project
- Nosratifar, S.; 2011: Characterization, of Glulam, I-Joist and LVL; BSc Research Project
- Amini, F.; Torabi, M.; 2012: Chemical modification by Acetic Anhydride on two types of veneer (*Populus deltoids* and *Pinus sylvestris*); BSc Research Project
- Esmaili, J.; 2012: The slope of the longitudinal fibers and Shrinkage of Fir (*Abies nordmanniana*); BSc Research Project
- Zolghadre, M.; 2012: Full design and build a replica of a wooden house; BSc Research Project
- Mamashli, E.; 2012: Enzymatic degradation of wood; BSc Research Project
- Bagheri nejad, S.; 2012: Evaluation and comparison of Black Locust, Eucalyptus and Pine fibers; (*Robinia peseduacacia*, *Eucalyptus camadulensis* and *Pinus sylvestris*); BSc Research Project
- Ebrahimi, A.; 2012: Chemical modification of species of Alder, Sycamore and Maple by Kraft Black Liquor; (*Alnus subcordata*, *Platanus orientalis* and *Acer insigne*); BSc Research Project
- Abdollahzadeh, A.; 2013: Comparison of physical and mechanical properties of paper in two lines of Kaveh Paper Mill; BSc Research Project
- Khalediyan, F.; 2013: Engineered wood and fibers composites; BSc Research Project
- Visipour, R.; 2013: Removal of Shives; BSc Research Project
- Asefi, S.; Hasanpour, H.; 2013: Macroscopic and microscopic study of tree species Field Elm, Caucasian Elm, Poplar and Aspen; BSc Research Project
- Safizadeh, A.; 2013: Engineering in wooden fittings of construction; BSc Research Project
- Zabihi, A.; 2013: Biorefinery; BSc Research Project
- Falahatnejad, H.; 2013: Thermal modification of wood; BSc Research Project
- Alizadeh, M.; 2013: Modification of fibers; BSc Research Project
- Sabohi virani, M.; 2013: Production of Micro Fibrillate Cellulose (MFC); BSc Research Project
- Mehdizadeh gilani, K.; 2014: Wood plastic composites made from modified wood; BSc Research Project
- Mirzaee, J.; 2014: Integrated forest biorefinery; BSc Research Project
- Moradi, M.; 2014: Management/utilization of wastewater treatment sludge; BSc Research Project
- Pourbaba, F.; 2014: Types of wood drying kilns and its characteristics; BSc Research Project
- Shajiee, R.; 2014: Particleboard process in the Fazlenour factory; BSc Research Project
- Sabouri, E.; 2014: Parquet, Laminate and Decory; BSc Research Project
- Karaji, M.; 2014: Biofiltration of odorous gases from pulp & paper mills; BSc Research Project
- Sheidaei, O.; 2015: Barrier properties and its applications of microfibrillated cellulose; BSc Research Project
- Hasan nejad, H.; 2015: Chemical modification of oak (*Quercus castaneifolia*) and poplar (*Populus deltoids*); BSc Research Project
- Rasouli, M.; 2015: Biomimetic engineering of lignocellulosic biomass; BSc Research Project
- Rajabi, H.; 2015: Nano-minerals in wood composites; BSc Research Project
- Sirati, M.; 2016: Hemp properties in growth conditions and pulping; BSc Research Project
- Cheshmishi, A.; 2017: Effect of fiber length on extruded wood-fiber/HDPE composites; BSc Research Project
- Angize, D.; 2017: Joints in wooden structures; BSc Research Project
- Khiyabani, A.; 2017: Effect of Sanding on MDF Surface; BSc Research Project

EXTRA CURRICULUM ACTIVITIES

Windows 10 and 8.1, Video Converting & Editing, AutoCAD, QBasic, Visual basic, Web designing, Computer hardware, Electronic devices, Technical Repairs, Strength of Materials, Statics, Geology, Evolution of creatures, Medical plants, Botany, Dendrology, Forestry.