



Name: **Mohamad Hadi**

Last Name: **Aryaie Monfared**

Born Date: 1982/ 9/ 21

Country: Iran

Present position: Assistant Professor, Department of Paper Sciences and Engineering, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan - Iran

Education Background

- Ph.D., 2013, Pulp and Paper Technology, Gorgan University of Agricultural Sciences and Natural Resources, Iran – Gorgan
Analysis of pressure sensitive adhesives chemical structure changes after esterase enzyme treatment and their physical control in the OCC pulp by talc and acrylic fibers, 2013, By: Mohammad Hadi Aryaie Monfared, Supervisor: Hossein Resalati (PhD)
- M. Sc., 2008. Wood and Paper Science and Technology, Gorgan University of Agricultural Sciences and Natural Resources, Iran- Gorgan
M.Sc. Thesis Title: Enzymatic deinking of Mixed Office Waste Paper with Cellulase, 2008, Supervisor: Hossein Resselati (Ph.D.)
- B. S., 2006. Wood and Paper Science and Technology, Gorgan University of Agricultural Sciences and Natural Resources, Iran - Gorgan

Technical Papers

- **Alireza Moslemi., Alireza Tabarsa., Seyed Yasin Mousavi and Aryaie Monfared*, Mohmmad Hadi.,** 2022. Shear strength and microstructure characteristics of soil reinforced with lignocellulosic fibers-Sustainable materials for construction, Construction and Building Materials 356 (2022) 129246
- Shayan Barzegar a, **Mohammad Hadi Aryaie Monfared**, Martin A Hubbe ., 2022, Cellulose and lignin as propitious candidates for preparation of hydrogels for pharmaceutical applications
- **Aryaie Monfared*, Mohmmad Hadi.,** Soha Zeydanlou., M.R Deghani and Elyas Afra., 2019. Production of Bacterial Nano- cellulose (BNC) from Acetobacter xylinum bacteria in static and dynamic culture and evaluation of characteristics, Iranian Journal of Wood and Paper Industries, (in Persian).
- **Aryaie Monfared, M.H*.** Shakeri., Khajeh shahkoohi, M.A., Tatari, A.A. 2019. Investigate of fibers and chemical components of Ammodendron persicum wood (Case Study; Zirkouh area, South Khorasan province, Iran), Iranian Journal of Wood and Paper Industries, (in Persian).
- Tatari. A.A., Deghani Firouzabadi. M.R., Saraeyan. A.R., **Aryaie Monfared. M.H.,** Yadollahi. R. 2017. Effects off washing method on the bagasse pulping characteristics processed by the sulfur dioxide- ethanol-water ((SEW)) method., Iranian Journal of Wood and Paper Industries, Vol. 7, No. 4, Winter (in Persian).
- Miri, S.M. Ghasemian, A. and **Aryaie Monfared, M.H*.** 2016 .Investigation on Optical and Mechanical Properties of MOW Deinked Pulp by Neutral Deinking. J. of Wood & Forest Science and Technology, Vol. 23 (4), <http://jwfst.gau.ac.ir>, (in Persian).

- Vaziri, V. and **Aryaie Monfared, M.H.** 2016. Investigation the production methods and silver nanoparticles antimicrobial properties in papermaking industry J. of Conservation and Utilization of Natural Resources, Vol. 5 (2), Pp 79-94. (in Persian).
- Mehri Iraie, H.R., Ghasemian, A. Resalati, H., **Aryaie Monfared . M.H***. and Saraeyan, A.R. 2016. Two-Stage Bleaching of Deinked Pulp with Sodium Dithionite and Hydrogen Peroxide. J. of Wood & Forest Science and Technology, Vol. 23 (2), (in Persian).
- **ARYAIE MONFARED, MOHAMMAD HADI.,** RESALATI, HOSSEIN., GHASEMIAN, ALI and MARTIN A. HUBBE. 2016. Passivation of pressure sensitive adhesive stickies by addition of acrylic fibers to OCC pulp before papermaking., OCTOBER, VOL. 15 NO. 10, TAPPI JOURNAL. Pp 631-639.
- Mehri Iraie, Hamdi Reza., Ghasemian, Ali., **Aryaie Monfared***, **Mohammad Hadi.**, 2015. Using Magnesium Hydroxide as Replacement of Sodium Hydroxide in Deinking of Old Newspapers and Old Magazines Mixture JOURNAL OF FOREST and WOOD PRODUCTS (IRANIAN JOURNAL OF NATURAL RESOURCES) VOLUME 68, NO. 3, Autumn. Pp 517-529.
- Ebrahimi Barisa, Rahim., Resalati, Hossein., **Aryaie Monfared, Mohamad Hadi.**, Ghasemian, Ali and Shakeri, Alireza. 2014. The Structure and Physical –Chemical Properties of Polymers in Pressure-sensitive Adhesives (PSA) Polymerization Quarterly (Review Paper), 2014 Volume 4, Number 4, Pp 77-85. (in Persian).
- Dashtbani Khezri, R., H. Resalati and **Aryaei Monfared., M.H.** 2014. Investigation on Detrimental Aspects of Pitch Types and Their Biological Control Alternatives in Pulp and Paper Industries (Review Paper). J. of Conservation and Utilization of Natural Resources, Vol. 2 (1). Pp 1-20.
- Miri, S.M., Ghasemian, A. and **Aryaie Monfared. M.H.** 2013. Neutral Deinking, Proper and Environmental Friendly Replacement for Conventional Alkaline Deinking (Review Paper). J. of Conservation and Utilization of Natural Resources, Vol. 1 (1), Pp 53-68. (in Persian).
- **M. H. Aryaie Monfared***, H. Resalati, and F. Zeynaly, 2013, Assessment of Flotation Time Effects on Appearance properties of chemical and Enzymatic Deinked Pulp by Reverse Power Fit Equations, Journal of wood and forest science and technology, Iran-Gorga, (in Persian). J. of Wood & Forest Science and Technology, Vol. 19 (4), Pp 137-150.
- **Aryaie Monfared, M.H***., Tavakoli, H. and HosseinKhani, H. 2012. Study of some apparent, anatomical and physical properties of Divdal (*Ammodendron persicum*) wood from Zirkooh-Qhaen. Iranian Journal of Wood and Paper Science Research Vol. 27 No. (4).
- Accelerated aging effect on Optical and Physical Properties of Newsprint Paper Deinked Pulp with Cellulase, 2012, A. Ghasemian, and **M. H. Aryaie Monfared**, Journal of forest and woody products, Iran-Tehran, (in Persian). Vol. 65, No. 3, 2012. pp.351-362.
- Enzymatic Deinking of Office Waste Papers in the Comparison with Conventional Chemical Method: part 2- physical and strength properties of paper, 2011, H. Resalati, and **M. H. Aryaie Monfared**, Journal of wood and forest science and technology, Iran-Gorga, (in Persian).
- Enzymatic Deinking of Office Waste Papers in the Comparison with Conventional Chemical Method: part 1- appearance and optical properties of paper, 2011, **M. H. Aryaie Monfared**, H. Resalati, and Ali. Ghasemian, Journal of wood and forest science and technology, Iran-Gorga, (in Persian).

- Investigate of pH effect on enzymatic bleaching efficiency of bagasse kraft pulp, 2011, M. A. B Marandi, H. Resalati, A. R. Saraian, and **M. H. Aryaie Monfared**, Journal of wood and forest science and technology, Iran-Gorga, (in Persian).
- Effect of Medium pH Variations on Enzymatic Deinking Efficiency of Office Waste Papers with Cellulase from *Aspergillus niger*, 2011, **M. H. Aryaie Monfared**, H. Resalati, A. Ghasemian, and Morteza A.B. Marandi, Journal of wood and forest science and technology, Iran-Gorga, (in Persian).
- H.Resalati, and **M. H. Aryaie Monfared**. 2010. laboratory flotation cell for recycled paper deinking, National Patent 8350.
- Review of bamboo properties as lignocellulose raw material for pulp and paper industries, 2008, P. R. Charani, A. Khalili, and **M. H. Aryaie Monfared**, the 1th Iranian conference on supplying raw materials and development of wood and paper industries.
- Chemicals and Biofuels Production from Cellulosic Wastes, 2008, **M. H. Aryaie Monfared**, A. Shakeri, and P. R. Charani, the 1th Iranian conference on supplying raw materials and development of wood and paper industries.
- Investigation of Flotation Time Effect on Appearance properties of chemical and Enzymatic Deinked Papers, 2008, **M. H. Aryaie Monfared**, H. Resalati, and V. Maddah Yazdi, the 1th Iranian conference on supplying raw materials and development of wood and paper industries.
- Environmental benefits of biotechnology process in pulp and paper industry, 2008, H. Resalati, and **M. H. Aryaie Monfared**, The 1st Regional Nano biotechnology Conference, Islamic Azad University Jouybar Branch.
- Waste water treatment in pulp and paper factory's, 2008, A.Ghasemian, **M. H. Aryaie Monfared**, Iran wood, Furniture and paper Industry magazine, No 33.
- **Nanotechnology applications in papermaking industry (part 2)**, 2008, H. Resalati, and **M. H. Aryaie Monfared**, Iran wood, Furniture and paper Industry magazine, No 34.
- Nanotechnology applications in papermaking industry (part 1), 2008, H. Resalati, and **M. H. Aryaie Monfared**, Iran wood, Furniture and paper Industry magazine, No 32.
- Replacement of wheat straw with forest woods particle for production of structural composite, 2007. Tabarsa. T, and **M. H. Aryaie Monfared**, 2nd national confence of ecological agriculture. Gorgan-Iran.

International Conferences

- Mohammad Hadi Aryaie Monfared and Hossein Resalati; 2008, The effects of treatment time and enzyme dosage on the deinking efficiency of copy printed wood-free uncoated paper with cellulase from *aspergillus niger*, 13. PTS CTP Deinking Symposium in Leipzig – Germany, April 15–17.
- Mohammad Hadi Aryaie Monfared and Hossein Resalati; 2011, Effects of Enzymatic Deinking on Physical and Mechanical Properties of Office Waste Papers in Comparison with Conventional Chemical Method, Progress in Paper Physics Seminar, September 5-8.
- Applications of Nanotechnology in Wood and Paper Industries, 2008, **M. H. Aryaie Monfared**, and H. Resalati, The 1st Regional Nano biotechnology Conference, Islamic Azad University Jouybar Branch.

Research Projects

- Prefeasibility Study of furfural production from agricultural wastes, 2008-2009.
- Study of anatomical and morphological properties of *Ammodendron persicum* wood, 2012.
- Using Black Liquor of Pulping Process as Wood Preservative Material, 2017-2018
- Production of Starch Coated Film Modified with Kraft Lignin and Nano Chitosan to Improve the Strength and Barrier Properties of Food Packaging Papers, 2018- present
- The Effect of Starch properties on the Barrier and Mechanical Properties of Lignosulfonate Modified Starch Coating for Improve the Properties of Packaging Paper, 2018- present
- Investigation of cellulose nanofiber and lignocellulose nanofiber produced from different parts of Date Palm Prepared by super disk grinding and TEMPO method and comparing the manufactured nanopapers, 2019- present

Honours

- The Iranian **National Elite Foundation**, Member, 2010-present.
- Iranian society of wood and paper industry, Member, 2008-present.
- Top student of university, 2009.

Executive Experiments

- Student executive committee member of the 1th Iranian conference on supplying raw materials and development of wood and paper industries, 2008.
- Executive Committee member of nongovernmental organization of wood and paper Recycling, 2009-present.

Technical work shops

- Gas Chromatography Techniques, 2010, Gorgan university of agricultural sciences and natural resources.
- Non Destructive Tests, 2010, Golestan University.
- Evaluation of Retention and Drainage, 2011, Shahid Beheshti University; by: Martin A. Hubbe.
- Strength and Wet Strength Development, 2011, Shahid Beheshti University; by: Martin A. Hubbe.
- Cost-Saving Strategies Involving Wet-End Chemistry, 2011, Shahid Beheshti University; by: Martin A. Hubbe.
- Where Did that Come from? Deposit Analysis, 2011, Shahid Beheshti University; by: Martin A. Hubbe.

Academic Taught Courses

- Wood Identification (B. Sc.)
- Wood Chemistry (B. Sc.)
- Anatomy and morphology of wood (B. Sc.)
- Safety in packaging industry (B. Sc.)
- Woody packaging materials (B. Sc.)
- Paper Recycling Technology (B. Sc.)
- Pulp Bleaching Technology (B. Sc.)
- Water and Waste Water Treatment (B. Sc.)
- Environmental Issues (B. Sc.)
- Pulp and Paper Lab (Advance) (M. Sc.)
- Converting Technology in Paper Making (M. Sc.)

- Paper Recycling Equipment and Technology (M. Sc.)
- Environmental Assessment in Wood and Paper Industries (M. Sc.)
- Environmental Assessment in pulp and Paper Industries (Ph.D.)
- Water and Energy Management in pulp and Paper Industries (Ph.D.)

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