



PERSONAL INFORMATION:

Full Name: Hamidreza Edalat

Nationality: Iran

Academic Level: Assistant Professor

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EDUCATION:

- **Ph.D., Wood and Paper Sciences and Technology. 2013.** Tehran University, Natural Resources Faculty, Karaj, Iran
- **M.Sc., Wood Technology. 2008.** Tehran University, Natural Resources Faculty, Karaj, Iran
- **B.A., Wood Science and Technology. 2006.** Gorgan Uni of Agricultural Sci and Natural Resources (GUASNR), Wood and Paper Engineering Faculty, Gorgan. Iran

RESEARCH INTEREST:

- Adhesion sciences and adhesives technology
- Sustainable Bio-Composites
- Wood-Adhesive interphase morphology
- Furniture industries
- Additive\ advanced manufacturing

PUBLICATION:

English Journals

1. Farajollahpour. M., Edalat. H., A Dorieh. A., Kiamahalleh M. V., Shahavi. MH. 2022. Durability-related performance of reinforced bondline by phenol formaldehyde/nano SiO₂ composite in Laminated Veneer Lumber (LVL). Journal of Building Engineering 60, 105191.
2. Farajollahpour. M., Edalat. H., Valizade. M., Doost Hoseini. K. 2021. Microwave-assisted laminated veneer lumber (LVL): Investigation on the effect of preheating time and moisture

content on resin penetration and bonding quality. *Construction and Building Materials*. DOI: 10.1016/j.conbuildmat.2021.124677

3. Edalat. H., Faezipour. M., Thole. V. 2020. Experimental Study on Correlation between Adhesive Penetration Pattern and Mechanical Performances in Oriented Strand Board. *European Journal of Wood and Wood Products*. DOI: 10.1007/s00107-020-01590-1

4. Edalat. H., Faezipour. M., Thole V., Kamke. FA. 2014. A new quantitative method for evaluation of adhesive penetration pattern in particulate wood-based composites: Elemental counting method. *Wood Sci Tech* 48:703–712. DOI: 10.1007/s00226-014-0635-2

Farsi Journals

5. Najafianashrafi. M., Moradpour. P., Jahan Latibari. A., Edalat. H. 2023. Adhesive Modification and Improvement of Properties of Polyvinyl Acetate Using Nano silica. *Iranian Journal of Wood and Paper Science Research* 38 (2), 128-140.

6. Tabarsa. T., Hosseini S. K., Shakeri. A., Edalat. H. 2023. Substitution furfural instead of formaldehyde in urea formaldehyde resin and improvement resin properties using nano clay. *Journal of Wood and Forest Science and Technology* 30 (2), 71-85.

7. Khajeh Bonjar. F., Edalat. H., Tabarsa. T., Rafighi. A. 2021. The effect of dye and metals salts on white cement curing and properties of decorative wood wool-cement composite. *Journal of wood and forest sciences and technology*. Volume 28 (2): 1-19. DOI: 10.22069/jwfst.2021.18860.1916

8. Edalat. H., Afshari. R., Khazaeian. A., Rasouli. D. 2020. Effect of species type and sanding sequence on the adhesion strength and the interphase region of Polyurethane coating and veneer. *Iranian Journal of Wood and Paper Industries*. Volume 11 (2): 317-332.

9. Edalat. H., Najafi Amiri. A., Tabarsa. T., Madhoushi. M. 2020. Investigation on the influence of raw material type and density on properties of ligno-cellulosic green insulation composite. *Journal of wood and forest sciences and technology*. Volume 27 (3): 73-91.

10. Edalat. H., Reisi. M. 2019. Performance improvement of PVAc glue in wood finger joints by using Isocyanate as a hardener. *Iranian Journal of Wood and Paper Industries*. Volume 9 (4). P 585-596.

11. Farajallahpour. M., layeghi. M., Dosthosseini. K., Edalat. H. 2017. The effect of layer's moisture content and pre-heating by microwave radiation on physical and mechanical properties of laminated veneer lumber. *Iranian Journal of Wood and Paper Industries*. Volume 8 (1). P 39-51.

12. Edalat. H., Faezipour. M., Dosthosseini. K., Tabarsa. T. 2017. The effect of adhesive concentration and strand moisture on adhesive penetration pattern in core and middle layers of Oriented Strand Board (OSB). *Journal of wood and forest sciences and technology*. Volume 24 (1). P 131-144.

13. Edalat. H., Faezipour. M., Dosthosseini. K., Tabarsa. T., Mirshokraie. S.A. 2014. Evaluation of Penetration Effect of Phenol Formaldehyde Resin on Internal Bonding and

Tensile Strength Parallel to Surface of Oriented Strand Board. Journal of wood and forest sciences and technology. Volume 21 (1). P 149-164

International Conferences (oral presentation)

14. Edalat. H., Faezipour. M., Thole V. How adhesive penetration effects on mechanical performances of OSB. World Conference on Timber Engineering-WCTE 2016, Vienna, Austria.

15. Edalat. H., Faezipour. M., Thole V., Kamke FA. Evaluation of Resin Penetration Effect on Bond Strength in Oriented Strand Board with Using a New Quantitative Method. International Conference on Wood Adhesives. Oct 2013. Toronto, Canada. *selected as one of the top papers for publishing in special issue of forest products journal

ACADEMIC TEACHING EXPERIENCE:

- **Graduate programs:**
 - Utilization of wood-based composites (Ph.D.)
 - Adhesive Technology (M.Sc.)

- **Undergraduate programs:**
 - Wood Adhesives
 - Wood-Based Composites
 - Laminates and Lamination
 - Furniture Technology 1 & 2
 - Statics and Vector Mechanics
 - Engineering Design of Furniture
 - Technical Design 1 & 2
 - Elementary Design
 - Fittings & Fasteners
 - Cabinet making

SERVICE AND PROFESSIONAL MEMBERSHIP:

- **Secretary of ISO National Technical Committees in Iran**
 - ISO TC 165 Timber Structure (2016-2023)
 - ISO TC 218 Timber (2018-present)
 - ISO TC 136 Furniture(2017-present)

AWARDS:

- The **top entrepreneur** of the university by establishment of **Duet art group** 2023
- The **top researcher** of Faculty 2020
- The **top national technical committee** of ISO TC 165 Timber Structures for two years 2018-2019
- Design and fabrication of the first **FD60 timber fire door** in Iran 2011
- Winner of visiting **research fellow** at Fraunhofer institute for wood research, (WKL), Germany, 2011
- Scholarship** for PhD visiting program from Iran ministry of sciences and Tech, 2011
- 1st rank in the PhD exam** in wood sciences and technology field, University of Tehran, Iran, 2008
- 2nd rank in the national MSc exam** in wood sciences and technology field, Iran 2006

LANGUAGES:

Farsi

English

Gorgan University of Agricultural
Sciences & Natural Resources