



University of
TEHRAN

Curriculum Vitae

Name: **Kambiz Pourtahmasi**
Date of Birth:
Nationality: Iranian
Academic Rank: Full Professor
Department: Wood & Paper Science and Technology, Faculty of Natural Resources,
University of Tehran
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EDUCATION

1997-2002: Ph.D. Wood Science & Technology, (A joint thesis work with Prof. Fritz Hans Schweingruber, WSL Switzerland & Prof. Achim Bräuning, Stuttgart University, Germany) Defense at Faculty of Natural Resources, Tehran University, Iran.

- **Pourtahmasi, K. 2002**, Dendroclimatological investigation of *Juniperus polycarpus* in the Alborz Mountains of Iran in comparison with neighboring high mountain areas. PhD dissertation, University of Tehran, 165p.

1994-1996: MSc. Wood Science & Technology in Faculty of Natural Resources, Tehran University, Iran.

- **Pourtahmasi, K. 1997**, Preparing Computerized Program for Designing of Wooden Beams, MSc thesis, University of Tehran, 40p.

1990-1994: BSc. Wood Science & Technology in Faculty of Natural Resources, Tehran University, Iran.

- **Pourtahmasi, K. 1994**, A Comparison on Particleboards Produced in Two Particleboard Mills in Iran, BSc thesis, University of Tehran, 116p.

ACHIVEMENTS

- First-best student in Ph.D. Comprehensive exam in the college with an average of 18.54 (Max. 20).
- First-best student in the college with an average of 18.6 (Max. 20), during the MSc. degree.

ACADEMIC POSSITONS

- Assistant Professor, 2002-2009
- Associate Professor, 2009-2015-06-16
- Full Professor, 2015 to present

WORKING EXPERIENCE

2019-Present: Associate-Rector for Research & Technology, College of Agriculture & Natural Resources, University of Tehran.

2011-Present: Head of Center of Excellence on Applied Management of Fast Growing Wooden Species.

2013-2015: President of Asian Dendrochronology Association (ADA)

2008-2010: Head of Wood and Paper Science & Technology Department, Faculty of Natural Resources, University of Tehran.

2005-2008: Deputy Dean for academic affairs, Faculty of Natural Resources, University of Tehran.

2004-2005: Head of Wood and Paper Science & Technology Department, Faculty of Natural Resources, University of Tehran.

2001-2004: Head of Informatics Office, Faculty of Natural Resources, University of Tehran.

1996-2001: Assistant in Wood Anatomy Lab., Dept. of Wood & Paper Science & Technology, Faculty of Natural Resources, Tehran University.

1995-2004: Administrator of Computer Networks, Faculty of Natural Resources, Tehran University.

1997-2000: Head of Society of Wood & Paper Students, Faculty of Natural Resources, Tehran University.

1998-2000: Administrator of Computer Networks, Research Institute of Forest & Rangelands, Tehran.

Editors of Journals:

- 1- Associate Editor of Dendrochronologia Journal, Elsevier.
- 2- Associate Editor Iranian Journal of Forest and Wood products
- 3- Associate Editor Iranian Journal of Research on Archaeometry

Supervised Thesis and Dissertations

Master Thesis Supervised: 35 Students

PhD Dissertation Supervised: 18 Students

Teaching Courses

Undergraduate:

- Wood Anatomy
- Wood Mechanics
- Structural Analysis
- Wooden Structure Engineering Design
- Furniture Engineering Design

Graduate:

- Wood in Archaeology
- Dendrochronology and its applications
- Growth Stress and Strain in Trees

Membership in Scientific Society:

International Association of Wood Anatomist (IAWA)

Asian Dendrochronology Association (ADA)

Iranian Scientific Association of Wood and Paper Science and Technology

PUBLICATION

ISI Journals and International Journals:

1. Ma, Y., Song, H., Liu, Y., Zhang, T., Wu, Y., **Pourtahmasi, K.**, Abula, A., Li, Q. (2026): Maximum latewood density captures a narrow midsummer temperature window in the southern Tianshan Mountains: a 248-year reconstruction of summer maximum temperature, *Palaeogeography, Palaeoclimatology, Palaeoecology*, Volume 699, 2026, 114031, <https://doi.org/10.1016/j.palaeo.2026.114031>
2. Foroozan, Z.P., Mazaherifar, M.H., Aryal, S., Griebinger, J., **Pourtahmasi, K.**, Bräuning, A. (2026): Tree-ring width and $\delta^{18}\text{O}$ -derived hydroclimatic reconstructions allow a distinction between soil and atmospheric drought in the Mountain Forests of Northeastern Iran. *Sci Rep* 16, 15601. <https://doi.org/10.1038/s41598-026-52364-3>
3. **Pourtahmasi, K.**, Cai, Q., Fang, O. (2026): Progress in Asian Dendrochronology: A special issue overview, *Dendrochronologia*, 95, 126483, <https://doi.org/10.1016/j.dendro.2026.126483>
4. Gorgij, R., **Pourtahmasi, K.**, Maali-Amiri, R., Eshaghi-Gorji, F. (2026): Antioxidant Responses Related to Flexure Wood Formation in Poplar. *Russ J Plant Physiol* 73, 6. <https://doi.org/10.1134/S102144372560309X>
5. Mousavisangdehi, A., Tumajer, J., **Pourtahmasi, K.**, Koprowski, M., Oladi, R. (2026): Contrasting intra-annual growth dynamics of *Fagus orientalis* and *Carpinus*

- betulus* in pure and mixed stands of the Hyrcanian forests, *Forest Ecology and Management*, 600, 123308, <https://doi.org/10.1016/j.foreco.2025.123308>
6. Oladi, R., Faraji, F., Nikoutadbir, A., **Pourtahmasi, K.**, Gebauer, R. (2025). The effect of yellow mistletoe (*Loranthus europaeus* Jacq.) on the branch radial growth and xylem vascular structure of Persian oak (*Quercus brantii* Lindl.). *Eur J Forest Res* 144, 1171–1183. <https://doi.org/10.1007/s10342-025-01801-5>
 7. Ma, Y., Song, H., Liu, Y., Zhang, Q., Ren, M., Cai, Q., Zhang, T., **Pourtahmasi, K.**, Duan, X., Li, P. (2025): Drought reconstructions over the past 552 years based on minimum earlywood density in central Tianshan Mountains, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 667, 112853. <https://doi.org/10.1016/j.palaeo.2025.112853>
 8. Ahmadi, P., Efhamisizi, D., **Pourtahmasi, K.**, Izadyar, S. (2025): Enhancing dimensional stability and weathering resistance of poplar wood through low-formaldehyde melamine resin impregnation and curing. *Wood Material Science & Engineering*, 1–16. <https://doi.org/10.1080/17480272.2025.2585531>
 9. Mousavisangdehi, A., Oladi, R., **Pourtahmasi, K.**, Etemad, V., Koprowski, M., Tumajer, J. (2024): Higher temperatures promote intra-annual radial growth of Oriental beech (*Fagus orientalis* Lipsky) in the humid Hyrcanian forests. *Trees - Structure and Function*, *Trees* 38, 1569–1580 (2024). <https://doi.org/10.1007/s00468-024-02574-x>
 10. Beiranvand, S., Bayramzadeh, V., Attarod, P., **Pourtahmasi, K.**, Pypker, T. G., Bräuning, A., Nadi, M. (2024): Increasing drought frequency in the central Zagros Mountains of western Iran over the past two centuries. *Journal of Arid Environments*, 224, 105240.
 11. Xu, H., Wang, J., Liu, J., Peng, X., **Pourtahmasi, K.** (2024): Evolution of megadrought and pluvial events in the Qaidam Basin and Hexi Corridor, Northwest China, during the period 455–2100 CE. *International Journal of Climatology*, 44(12), pp. 4462–4477.
 12. Mirzakhani, M., Moradi, H., Therrell, M., Seim, A., Yousefpour, R., Safari, E., **Pourtahmasi, K.**, Tegel, W., Nemati Varnosfaderany, M., Kahle, H.P. (2024): The dendroclimatic and dendrohydrologic potential of riparian plane trees (*Platanus orientalis*) along the Zayandeh-Rud River, Iran. *Dendrochronologia*, 86, 126228.
 13. Sadat Fazel, S., Jonoobi, M., **Pourtahmasi, K.**, Sepahvand, S., Ashori, A. (2024): Enhancing the Oil Adsorption Properties of Cellulose Nanofiber Aerogels Through Chemical Modification, *Journal of Polymers and the Environment*, 32(3), pp. 1304–1313.
 14. Emaminasab, M., Oladi, R., **Pourtahmasi, K.**, Bräuning, A., Shirvany, A. (2023): Precipitation dominates the growth of common hornbeam (*Carpinus betulus* L.) and stinking juniper (*Juniperus foetidissima* Willd) in Arasbaran forests of northwestern Iran, *Trees - Structure and Function*, 37(5); 1343–1354.
 15. Masoumi, A., **Pourtahmasi, K.**, Amiri, R.M. (2023): Study of antioxidant enzymes' activity in reaction wood of poplar tree (*Populus alba* L.), *IAWA Journal* 109 (2); 1–12.
 16. Najafi-Harsini, F., Oladi, R., **Pourtahmasi, K.**, Souto-Herrero, M., García-González, I. (2022): Using tree-ring width and earlywood vessel features to study the decline of *Quercus brantii* Lindl in Zagros forests of Iran, *European Journal of Forest Research*, 141(3); 379–393.

17. Dalvand, M., Ebrahimi, G., **Pourtahmasi, K. (2022)**: Reinforcement of joints between LVL members with GFRP and Finite Element Analysis, *Drvna Industrija*, 73(1); 47-57.
18. Gorgij, R., **Pourtahmasi, K.**, Amiri, R.M., Abdolkhani, A., Timar, M.C., Coşereanu, C. (2022): Chemical variations in tension wood of poplar tree induced by intermittent bending, fertilizer and hormone treatments, *Maderas: Ciencia y Tecnologia*, 24; 38.
19. Karami, E., Brémaud, I., Bardet, S., Almeras, T., Guibal, D., Langbour, P., **Pourtahmasi, K.**, Gril, J. (2022): Reversible and irreversible effects of mild thermal treatment on the properties of wood used for making musical instruments: comparing mulberry to spruce, *IForest*, 15(4); 256-264.
20. Gorgij, R., **Pourtahmasi, K.**, Amiri, R.M., Abdolkhani, A., Porojan, M. (2022): Variations in tension wood characteristics of *Populus alba* under alternate bending, nitrogen fertilization, and gibberellin treatments, *IAWA Journal*, 36(2); 1-16.
21. Arsalani, M., Griebinger, J., **Pourtahmasi, K.**, Bräuning, A. (2021): Multi-centennial reconstruction of drought events in South-Western Iran using tree rings of Mediterranean cypress (*Cupressus sempervirens* L.), *Palaeogeography, Palaeoclimatology, Palaeoecology*, 567; 110296.
22. Mehramiz, S., Oladi, R., Efhamisisi, D., **Pourtahmasi, K. (2021)**: Natural durability of the Iranian domestic bamboo (*Phyllostachys vivax*) against fungal decay and its chemical protection with propiconazole, *European Journal of Wood and Wood Products*, 79(2); 453-464.
23. Soltani, M., Pourtahmasi, K., Mohammadi, M. (2021): Checking the originality of tar musical instrument by using dendrochronology, *Scientific Culture*, 7(3); 1-12.
24. Foroozan, Z., Griebinger, J., **Pourtahmasi, K.**, Bräuning, A. (2020): 501 years of spring precipitation history for the semi-arid Northern Iran derived from tree-ring $\delta^{18}\text{O}$ data, *Atmosphere*, 11(9); 889.
25. Foroozan, Z., Griebinger, J., **Pourtahmasi, K.**, Bräuning, A. (2019): Evaluation of different pooling methods to establish a multi-century $\delta^{18}\text{O}$ chronology for paleoclimate reconstruction, *Geosciences*, 9(6); 270 (1-21).
26. Arsalani, M., Bräuning, A., **Pourtahmasi, K.**, Azizi, G., Mohammadi, H. (2018): Multiple tree-ring parameters of *Quercus brantii* Lindel in SW Iran show a strong potential for intra-annual climate reconstruction, *Trees - Structure and Function*, 32(6); 1531-1546.
27. Arsalani, M., **Pourtahmasi, K.**, Azizi, G., Bräuning, A., Mohammadi, H. (2018): Tree-ring based December–February precipitation reconstruction in the southern Zagros Mountains, Iran, *Dendrochronologia*, 49; 45-56.
28. Foroozan, Z., **Pourtahmasi, K.**, Bräuning, A. (2018): Climatic signals in stable carbon isotope ratios of Juniper and Oak tree rings from northern Iran, *Global and Planetary Change*, 165; 90-99.
29. Oladi, R., Elzami, E., **Pourtahmasi, K.**, Bräuning, A. (2017): Weather factors controlling growth of Oriental beech are on the turn over the growing season, *European Journal of Forest Research*, 136(2); 345-356.
30. Emaminasab, M., Tarmian, A., Oladi, R., **Pourtahmasi, K.**, Avramidis, S. (2017): Fluid permeability in poplar tension and normal wood in relation to ray and vessel properties, *Wood Science and Technology*, 51(2); 261-272.

31. Nadi, M., Bazrafshan, J., **Pourtahmasi, K.**, Bräuning, A. (2017): Tree-ring based reconstruction of the joint deficit index in Javan-Roud Region, Kermanshah (Iran), *International Journal of Climatology*, 37; 420-429.
32. **Pourtahmasi, K.**, Zhang, Q., Dawadi, B. (2017): Asian Dendrochronology Association (ADA) 2015, *Dendrochronologia*, 41; 1.
33. Speer, J.H., Bräuning, A., Zhang, Q.B., **Pourtahmasi, K.**, Gaire, N.P., Dawadi, B., Rana, P., Dhakal, Y.R., Acharya, R.H., Adhikari, D.L., Adhikari, Sh., Aryal, P. Ch., Bagale, D., Baniya, B., Bhandari, S., Dahal, N., Dahal, S., Ganbaatar, N., Giri, A., Gurung, D.B., Khandu, Y., Maharjan, B., Maharjan, R., Malik, R.A., Nath, Ch.D., Nepal, B., Ngoma, J., Pant, R., Pathak, M.L., Paudel, H., Sharma, B., Hossain, Md.S., Soronzonbold, B., Swe, Th., Thapa, I., Tiwari, A. (2017): *Pinus roxburghii* stand dynamics at a heavily impacted site in Nepal: Research through an educational fieldweek. *Dendrochronologia* 41; 2-9.
34. Haghsheenas, M., Mohadjer, M.R.M., Attarod, P., **Pourtahmasi, K.**, Feldhaus, J., Sadeghi, S.M.M. (2016): Climate effect on tree-ring widths of *Fagus orientalis* in the Caspian forests, northern Iran, *Forest Science and Technology*, 12(4); 176-182.
35. He, M.H., Yang, B., Wang, Z.Y., Bräuning, A., **Pourtahmasi, K.**, Oladi, R. (2016): Climatic forcing of xylem formation in Qilian juniper on the northeastern Tibetan Plateau, *Trees*, 30(3); 923-933.
36. Efhamisisi, D., Thevenon, M.F., Hamzeh, Y., Karimi, AN., Pizzi, A., **Pourtahmasi, K.** (2016): Induced tannin adhesive by boric acid addition and its effect on bonding quality and biological performance of poplar plywood, *ACS Sustainable Chemistry & Engineering*, 4(5); 2734-2740.
37. Saadatnia, M., Enayati, A.A., **Pourtahmasi, K.**, Moradian, M. (2016): Investigation on transversal variation of poplar tension wood quality using ultrasound wave parameters, *Wood Material Science and Engineering*, 11(4); 201-208.
38. Emaminasab, M., Tarmian, A., **Pourtahmasi, K.**, Avramidis, S. (2016): Improving the permeability of Douglas-fir (*Pseudotsuga menziesii*) containing compression wood by *Physisporinus vitreus* and *Xylaria longipes*, *International Wood Products Journal*, 7(3); 110-115.
39. Se Golpayegani, A., Brémaud, I., Thévenon, M.F., **Pourtahmasi, K.**, Gril, J. (2016): The effect of traditional hygro-thermal pretreatments on the acoustical characteristics of white mulberry wood (*Morus alba*), *Maderas: Ciencia y Tecnologia*, 17(4); 821-832.
40. Emaminasab, M., Tarmian, A., **Pourtahmasi, K.** (2015): Permeability of poplar normal wood and tension wood bioincised by *Physisporinus vitreus* and *Xylaria longipes*, *International Biodeterioration and Biodegradation*, 105; 178-184.
41. Foroozan, Z., **Pourtahmasi, K.**, Bräuning, A. (2015): Stable oxygen isotopes in juniper and oak tree rings from northern Iran as indicators for site-specific and season-specific moisture variations, *Dendrochronologia*, 36(4); 33-39.
42. Abedini, R., Clair, B., **Pourtahmasi, K.**, Laurans, F., Arnould, O. (2015): Cell wall thickening in developing tension wood of artificially bent poplar trees, *IAWA Journal*, 36(1); 44-57.
43. Se Golpayegani, A., Thévenon, M.F., Gril, J., Masson, E., **Pourtahmasi, K.** (2014): Toxicity potential in the extraneous compounds of white mulberry wood (*Morus alba*). *Maderas: Ciencia y Tecnologia*, 16(2); 227-238.

44. Oladi, R., Bräuning, A., **Pourtahmasi, K. (2014):** "Plastic" and "static" behavior of vessel-anatomical features in Oriental beech (*Fagus orientalis* Lipsky) in view of xylem hydraulic conductivity, *Trees*, 28(2); 493-502.
45. Saderi, S.M., **Pourtahmasi, K.**, Oladi, R., Rathgeber, C.B.K. (2013): Wood formation in *Juniperus excelsa* ssp. *polycarpus* in the high mountains of North-East Iran, *Journal of Tropical Forest Science*, 25 (3); 421-428.
46. Se Golpayegani, A., Brémaud, I., Gril, J., Thevenon, M.F., Arnould O., **Pourtahmasi, K. (2012):** Effect of extractions on dynamic mechanical properties of white mulberry (*Morus alba*), *Journal of Wood Science*, 58; 153-162.
47. Efhami Sisi, D., Karimi, A.N., **Pourtahmasi, K.**, Taghiyari, H.R. (2012): The effects of agroforestry practices on fiber attributes in *Populus nigra* var. *betulifolia*, *Trees*, 26(2); 435-441.
48. **Pourtahmasi, K.**, Lotfiomran, N., Bräuning, A., Parsapajouh, D. (2011): Tree-ring width and vessel characteristics of *Fagus orientalis* along an altitudinal gradient in the Caspian Forests, northern Iran. *IAWA Journal*, 32 (4); 461-473.
49. Taghiyari, H.R., Efhami, D., Karimi, A.N., **Pourtahmasi, K. (2011):** Effect of initial spacing on gas permeability of *Populus nigra* var. *betulifolia*. *Journal of Tropical Forest Science*, 23 (3); 305-310.
50. Saadatnia, M. A., Brancheriau, L., Gallet, P., Enayati, A. A., **Pourtahmasi, K.**, Honarvar, F. (2011): Ultrasonic wave parameter changes during propagation through Poplar and Spruce reaction wood, *Bioresources*, 6 (2); 1172-1185.
51. Oladi, R., **Pourtahmasi, K.**, Eckstein, D., Bräuning, A. (2010): Seasonal dynamics of wood formation in Oriental beech (*Fagus orientalis* Lipsky) along an altitudinal gradient in the Hyrcanian forest, Iran, *Trees*, 25 (3); 425-433.
52. Taghiyari, H.R., Karimi Mazraeh Shahi, A.N., Parsapajouh, D., and **Pourtahmasi, K. (2010):** Study on the longitudinal gas permeability of juvenile and mature wood, *Special Topics and Reviews in Porous Media* 1(1); 31-38.
53. Efhami S., D., Karimi, A. N., **Pourtahmasi, K.**, Taghiyari, H. R., Asadi, F. (2010): The Effects of Agroforestry Practices on Vessel Properties in *Populus Nigra* Var. *Betulifolia*, *IAWA*, 31 (4); 481-487.
54. Mohamad Olfat, A., and **Pourtahmasi, K. (2010):** Anatomical characters in three oak species (*Q. libani*, *Q. brantii* and *Q. infectoria* from Iranian Zagros mountains)." *Australian Journal of Basic and Applied Sciences* 4(8); 3230-3237.
55. Karami, E., **Pourtahmasi, K.** and Shahverdi, M. (2010): Wood Anatomical Structure of *Morus alba* L. and *Morus nigra* L., *Native to Iran*, *Not Sci Biol* 2 (4); 129-132
56. Afra, E., Resalati, H., Olson, J. A., **Pourtahmasi, K. (2009):** Assessment of OCC pulp fractionation using fiber passage ratio model, *APPITA Journal*, 62 (5); 350-354.
57. Hatam, A., **Pourtahmasi, K.**, Resalati, H., Lohrasebi, A. (2008): Modeling hydrogen peroxide bleaching to predict optical properties of bleached hardwood CMP, *Wood Science and Technology*, 42 (5); 353-367.
58. Hamzeh, Y., Ekhtera, M. H., Hubbe, M. A., Izadyar, S., **Pourtahmasi, K. (2008):** Effects of process variables on poly-aluminum chloride (PAC)-rosin sizing performance under neutral papermaking conditions, *Industrial & Engineering Chemistry Research*. 47 (13); 4302-4307.

59. **Pourtahmasi, K.**, Tarmian, A., and Mojarradi, M. (2007): Glued laminated panels as kitchen countertops. *Drvna Industrija* 58(1): 13-17.
60. **Pourtahmasi, K.**, Parsapajouh. D., Bräuning, A., Esper, J., and Schweingruber, F.H. (2007): Climatic Analysis of Pointer Years in Tree-Ring Chronologies from Northern Iran and Neighboring High Mountain Areas. *Geokodynamik* 1, 2(28); 27-42.