Curriculum Vitae

Professor Dr. Yafang YIN

Year of Birth:	1976
Research Topics:	Wood Anatomy
	Wood Cell Wall
	Wood Identification
Address:	Research Institute of Wood Industry,
	Chinese Academy of Forestry, Beijing, 100091
	P. R. China.
Telephone:	+86-10-62889468 (Office)
Email:	yafang@caf.ac.cn

EDUCATION

1997.09 ~ 2002.06	PhD in Wood Science and Technology; awarded by Chinese Academy of Forestry in Beijing, in 2002.
1992.09 ~ 1996.06	B.Sc. Majoring in Forest Products and Engineering; awarded by Northeast Forestry University, China, in 1996.

EMPLOYMENT EXPERIENCE

2011.11 ~ present: Professor, Chinese Academy of Forestry, Beijing.

2009.03 ~ present: Chief, Wood Anatomy and Utilization Division, Research Institute of Wood Industry, Chinese Academy of Forestry.

2002.06 ~ 2009.02: Assistant Professor and Associate Professor of Chinese Academy of Forestry

MAJOR AWARDS AND HONORS

Received the Eleventh Forestry Science and Technology Award for Young Scholars of the State Forestry Administration of China (**2011**), the Third Distinguished Young Scholars of the Chinese Academy of Forestry (**2012**), the Second Class Award of Science and Technology of the Government of Beijing (**2015**), the Second Class Award of Science and Technology of the Chinese Society of Forestry (Liangxi Awards, the highest awards of forestry science in China) (**2016**).

Assigned to the Editorial Board of the IAWA Journal (**2010-2017**) and the China Wood Industry (since **2014**) and the International Editorial Board of Korean Wood Science and Technology Journal (since **2015**) and appointed as consultancies by the China CITES Management Authority and the China CITES Scientific Committee (**since 2013**) and the China National Association of Forest Products Industry (**since 2014**).

RELATED RESEARCH EXPERIENCE

2019.10	Co-organizer of LPF/SFB-IAWA Session "New Methods and Applications of Tropical Timber Identification to Promote Legal Logging", XXV IUFRO World Congress 2019, Curitiba, Brazil.
2019.08	Member of China Delegation, CITES CoP 18, Geneva, Switzerland.
2019.05	Organizer of IAWA-IUFRO International Symposium: Challenges and Opportunities for Updating Wood Identification, China.
2019.02	Invited Speaker, APEC Workshop to Share Experience, Knowledge and Challenges on Implementation of Tools for Combating and Preventing Illegal Logging Activities and Associated Trade (EGILAT)
2018.08~ present:	Elected Fellow, IAWS (International Academy of Wood Science)

2017.01~ present: Executive Secretary, IAWA (International Association of Wood Anatomists, http://www.iawa-website.org/)

2016.10 ~ 2017.10: Visiting Scholar in Forest Products Laboratory (FPL), USDA, USA.

2016. 02 Co-organizer of a proposed session (IAWA symposium proposal), XIX International Botanical Congress (IBC 2017, China).

2015. 11 Organizer of a proposed session (IAWA symposium proposal), XIX International Botanical Congress (IBC 2017, China).

2015. 09 Invited speaker for two side events, XIV World Forestry Congress (WFC), Durban of South Africa: 1) Wood identification for CITES; 2) Wood anatomy network.

2014. 12~ present: Expert member of Expert Group Meeting on forensic analysis related to forest crime, the United Nations Office on Drugs and Crime (UNODC).

2014. 04~ present: Deputy Chair of IAWA-China Group.

2013.05~2013.08: Division of Flora Affairs, China CITES Management Authority, State Forestry Administration of China (SFA).

2012.07 Organizer of two sessions for all Division 5 Conference, Estoril, Portugal, IUFRO.

2012.04~2015.06: Member of Steering Committee of the International cooperation project-- "Identification of Timber Species and Origin" by Bioversity International.

2010.10 ~ 2016.12: Council Member, IAWA

2010.08 ~ 2019.12: Deputy Coordinator of 5.06.00, Division 5 of IUFRO

2009.08 ~ 2010.08: Visiting Scholar in Royal Institute of Technology (KTH), Sweden.

2004.02 ~ 2004.05: Visiting Scholar in Forestry and Forest Products Research Institute (FFPRI), Japan.

2003.02 ~ 2003.08: Post-doctor in Canadian Wood Products Research Institute (Forintek), Canada.

LECTURES FOR GRADUAATED STUDENTS

2012.09 ~ 2018.12: Wood Anatomy Lecture for Master and PhD students, Chinese Academy of Forestry

GUIDER FOR TRAINING COURSES of WOOD IDENTIFICATION

2016.05 "Wood identification using DNA barcodes methods" for Seminar on Forest Law Enforcement and Governance for Officials from Developing Countries, Ministry of Commerce, China, 2016.

2016.04 CITES Implementation and Wood Identification for CITES office of Cameroon and DRC Congo.

2014.09: CITES Joint Training Courses for wood ID by China and Germany CITES office.

2011.03~2015.04: Hongkong, Macau, Huangpu, Kuming, Guilin, Xiamen Customs, China

RECENT RELATED PUBLICATIONS (2012~2019)

1）Juan Guo#, Lin Xiao#, Liuyang Han, Hao Wu, Tao Yang, Shunqing Wu, **Yafang Yin***. Deterioration of cell wall in waterlogged wooden archaeological artifacts, 2400 years old. *IAWA Journal*, 2019, 40(4): 820-844.

2）Tuo He, Lichao Jiao, Alex Wiedenhoeft, **Yafang Yin***. Machine learning approaches outperform distance- and tree- based methods for DNA barcoding of *Pterocarpus* wood. *Planta*, 2019, 249(5):1617-1625.

3）S Li, X Li, R Link, R Li, L Deng, B Schuldt, X Jiang, S Jansen, J Zheng, R Zhao, **Y Yin***. Influence of cambial age and tree height on spatial patterns of xylem traits in *Catalpa bungei*, a ring-porous tree species native to China. *Forests*, 2019, 10(622):1-16

4）Lichao Jiao, Yang Lu, Tuo He, Jianing Li, **Yafang Yin***. A strategy for developing high‑resolution

DNA barcodes for species discrimination of wood specimens using the complete chloroplast genome of three P*terocarpus* species, *Planta*, 2019, 250:95-104.

5）Maomao Zhang, Guangjie Zhao, Juan Guo, Alex C. Wiedenhoeft, Charles C. Liu，**Yafang Yin***. Timber species identification from chemical fingerprints using direct analysis in real time (DART) coupled to Fourier transform ion cyclotron resonance mass spectrometry (FTICR-MS): comparison of wood samples subjected to different treatments. *Holzforschung*, 2019, 73(11): 975-985.

6）Maomao Zhang, Guangjie Zhao, Juan Guo, Bo Liu, Xiaomei Jiang, **Yafang Yin***. A GC-MS protocol for separating endangered and non-endangered *Pterocarpus* wood species, *Molecules*. 2019, 24:799

7）Lichao Jiao, Tuo He, Eleanor Dormontt, Yonggang Zhang, Andy Lowe, **Yafang Yin***. Applicability of chloroplast DNA barcodes for wood identification between *Santalum album* and its adulterants. *Holzforschung*, 2019, 73(2): 209-218.

8）Maomao Zhang, Guangjie Zhao, Bo Liu, Tuo He, Juan Guo, Xiaomei Jiang, **Yafang Yin***. Wood discrimination analyses of *Pterocarpus tinctorius* and endangered *Pterocarpus santalinus* using DART-FTICR-MS coupled with multivariate statistics. *IAWA Journal*, 2019, 40(1): 58-74.

9）Tuo He, Lichao Jiao, Min Yu, Juan Guo, Xiaomei Jiang, **Yafang Yin*.** DNA barcoding authentication for the wood of eight endangered *Dalbergia* timber species using machine learning approaches. *Holzforschung*, 2018. DOI: 10.1515/hf-2018-0076.

10）Lichao Jiao#, Min Yu#, Alex Wiedenhoeft, Tuo He, Jianing Li, Bo Liu, Xiaomei Jiang, **Yafang Yin***. DNA barcode authentication and library development for the wood of six commercial *Pterocarpus* species: the critical role of xylarium specimens. *Scientific Reports*. 2018, 8:1945, DOI: 10.1038/s41598-018-20381-6.

11）Yeming Cheng*, Xiaonan Yang, Zhefeng He, Bing Mao, **Yafang Yin***. Early Miocene angiosperm woods from Sihong in the Jiangsu Province, Eastern China. *IAWA Journal*, 39 (1), 2018: 125-142.

12）Mengyu Dong, Yun Lu, Xiaomei Jiang , Wenbin Wang, Yucheng Zhou, Guangjie Zhao, Haibin Zhou*, Yafang Yin*. AMS 14C dating and wood identification in ancient timber structures in Shanxi Province, China. *Journal of Archaeological Science: Reports*, 2017, 13: 361-371.

13）Min Yu#, Lichao Jiao#, Juan Guo, Alex Wiedenhoeft, Tuo He, Xiaomei Jiang, **Yafang Yin*.** DNA barcoding of vouchered xylarium wood specimens of nine endangered *Dalbergia* species. *Planta*, 2017, 246:1165-1176.

14）Jiangping Yin#, Tongqi Yuan#, Yun Lu, Kunlin Song, Haiying Li, Guangjie Zhao, **Yafang Yin***. Effect of compression combined with steam treatment on the porosity, chemical composition and cellulose crystalline structure of wood cell walls. *Carbohydrate Polymers*. 2017, 155: 163-172.

15）Mengyu Dong#, Haibin Zhou#, Xiaomei Jiang, Yun Lu, Weibin Wang, **Yafang Yin***. Wood used in ancient timber architecture in the Shanxi Province, China. *IAWA Journal*, 2017, 38(2):182-200.

16）Juan Guo, H Rennhofer, **Yafang Yin***, HC Lichtenegger*. The influence of thermo-hygro-mechanical treatment on the micro- and nanoscale architecture of wood cell walls using small- and wide-angle X-ray scattering. *Cellulose*, 2016, 23:2325-2340

17）**Yafang Yin**, X Jiang, L Yuan (Editors). Identification manual of endangered and precious timber species common in trades. Beijing: Science Press. 2016 (in English)/2015(in Chinese)

18）L Jiao, X Liu, X Jiang, **Yafang Yin***. Extraction and Amplification of DNA from aged and archaeological *Populus euphratica* wood for species identification. *Holzforschung* 2015: 69(8):925–931

19）J Guo, K Song, L Salmen*, **Yafang Yin***. Changes of wood cell walls in response to hygro-mechanical steam treatment. *Carbohydrate Polymers*, 2015, 115:207-214.

20）E Dormontt, M Boner, B Braun, G Breulmann, B Degen, E Espinoza, S Gardner, l Guillery, J Hermanson, G Koch, S Lee, M Kanashiro, A Rimbawanto, D Thomas, A Wiedenhoeft, **Yafang Yin**, J Zahnen, A Lowe*. Forensic timber identification: It's time to integrate disciplines to combat illegal logging, *Biological Conservation*, 2015, 191:790-798.

21）L Jiao, **Yafang Yin***, Y Cheng*, X Jiang. DNA barcoding for identification of the endangered species *Aquilaria sinensis*: comparison of data from heated or aged wood samples. *Holzforschung*, 2014:68(4):487-494.

22）**Yafang Yin**, X Liu and Y Cheng. First record of Moroxylon (Moraceae) from the Neogene of China.

IAWA Journal, 2013, 34(2):168-175.

23）L Jiao, **Yafang Yin***, F Xiao, Q Sun, K Song, X Jiang. Comparative analysis of two DNA extraction protocols from fresh and dried wood of *Cunninghamia lanceolata* (Taxodiaceae). *IAWA Journal*, 2012, 33(4): 441-456.