

Guanben DU

Fellow/Board Members, International Academy of Wood Science
Professor/Vice President, Southwest Forestry University,
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Education: Nanjing Forestry University, Nanjing, Jiangsu Province, China. Ph. D in Wood Science and Technology, 1998,

Yunnan University, Kunming, Yunnan Province, China. Masters Degree, 1994.
Department of Chemistry.

Nanjing Forestry University, Nanjing, Jiangsu Province, China. Bachelor of Technology, 1985, Department of wood Science and technology.

Research Areas:

- (1) Wood Adhesives;
- (2) Wood Composites;
- (3) Applications based on wood materials.

Work Experience:

- 7/1985-present: Work in Southwest Forestry University as Assistant Professor(1985~1990),
Lecture(1990~1995), Associate Professor(1995~1999) and Professor
- 4/2015-11/2015: The University of Tennessee, USA, Visiting Professor
- 3/2007-4/2008: ENSTIB, University of Nancy 1, France Visiting Professor
- 12/2002-8/2004: The University of Tennessee, USA, Visiting Professor

MAJOR HONORS & AWARDS

1. National Prize for Progress in Science and Technology, 2012,2020
2. The state council special allowance awards, 2015
3. National New Century Talents, National outstanding contribution and experts, 2014
4. Provincial technological leading talent, 2016
5. The Provincial council special allowance awards, 2013
6. Provincial Prize for Progress in Science and Technology, Yunnan 2011,2009,2005,2002

MAJOR GRANTS

1. 2015-2018: RMB8,400,000 from Key Projects in the National Science & Technology Pillar Program during the Twelfth Five-year Plan Period
2. 2012~2016: RMB620,000 from National Natural Science Foundation of China for project "MUF Cocondensate Resin for Wood Adhesives".
3. 2009~2011: EURO 31,000 from EC "Integrating Nanomaterials in Formulations" (FP7-CSA-CA 233533)
4. 2009~2012: RMB1,650,000 from National Natural Science Foundation of China for project "Cocondensate Resin for Wood Adhesives".

5. 2008~2010: RMB450,000 from Yunnan Natural Science Foundation for project "Modification of Resin for Wood Industry".
6. 2007~2008: RMB150,000 from Council of Scholarship of China for visiting work in France.
7. 2006~2009: RMB500,000 from Ministry of Forestry of for project "Hot Press for Wood Composite".
8. 2006~2010: RMB250,000 from Ministry of Education of for wood in the field of wood adhesive.
9. 2006~2009: RMB310,000 from National Natural Science Foundation of China for project "VOC Control During Wood Processing by Plasma".

Principal Wood Science Achievements

Professor Guanben Du works in the field of wood adhesives and wood composite. He leads a research group devoted to basic and applied knowledge on wood and wood processing. He has made important research contributions in the following areas: 1) the synthetic method and reaction mechanism of formaldehyde resin by Computational Quantum Chemistry; 2) formulation science of formaldehyde resin as wood adhesive, and specialized in the development of structure and mass fractions as a function of the type of formulations used. He has contribute significantly to the preparation and modification of wood resin adhesives with low emission; 3) Developed press release and fast curing technique for hot press of medium density fiberboard and particleboard which improve IB strength of panel. He has also maintained close cooperation with industry for optimization of processing such as resin dispersal.

Number of refereed publications: 259 patents: 26 reports: 33