

International Symposium on Bioenergy and Biorefinery (ISBB 2026)

Detailed Session Profile & Technical Program Overview

■ Session Overview

Session Number:	Session #9
Session Title:	The 14 th World Bioenergy Symposium (WBS)
Scope & Focus:	Global clean energy strategies, metabolic engineering, ionic liquids valorization, and international technology transfer for carbon-neutral materials and bioenergy engineering.

■ Committee & Invited Speakers

	SESSION CHAIR Prof. Dehua LIU Tsinghua University Email: dhliu@tsinghua.edu.cn Prof. Dehua Liu is an International Fellow of the Canadian Academy of Engineering, and the Director of Institute of Applied Chemistry, Department of Chemical Engineering, Tsinghua University. He's also the Director of Tsinghua-UFRJ China-Brazil Center for Climate Change and Energy Technology Innovation and China-Latin America Joint Laboratory for Clean Energy and Climate Change. Prof. LIU Dehua has expertized in the field of biochemical engineering with specific focus on renewable resources, bio-energy engineering, fermentation technology, bioreaction engineering, and metabolic engineering. He has published more than 200 papers and held more than 60 patents. As director of Tsinghua-UFRJ China-Brazil Center for Climate Change and Energy Technology Innovation (CCBCE), with the support from both governments, for 16 years Prof. LIU Dehua has been cooperating with Federal University of Rio de Janeiro, promoting mutual technology transfer between China and Brazil. With the successful experience with Brazil, CCBCE has created a cooperation model when collaborating with other Latin American countries.
	SESSION CO-CHAIR Prof. Romildo Dias Toledo Filho Federal University of Rio de Janeiro Email: toledo@coc.ufrj.br Toledo Filho is a full professor of materials and structures at Coppe-Federal University of Rio de Janeiro (PEC/COPPE/UFRJ), Brazil. He is a member of the Brazilian Academy of Sciences, of the National Academy of Engineering, Researcher 1A with the Brazilian National Council for Scientific and Technological Development (CNPq), and a senior scientist of the Carlos Chagas Foundation (FAPERJ), Rio de Janeiro State. He is the CEO of the Science Park of UFRJ, head of the Sustainability Center for Research and Education on Environmental Friendly Materials and Technologies (NUMATS) of the Federal University of Rio de Janeiro, member of the INBAR construction task force and vice-president of the Brazilian Society for Non-Conventional Materials (ABMTENC). He has conducted extensive research on sustainable materials for construction, decarbonisation of the construction industry, vegetable fibre-reinforced cement composites, bamboo materials characterization, and structural use, cement replacement by bioashes and the use of waste materials in the construction industry.

KEYNOTE SPEAKER

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Dr. Qian is a full Professor in Department of Chemical Engineering, Tsinghua University, China. His research interests cover Nano materials, advanced catalysis and chemical engineering. He is currently a member of Chinese Particuology Society and a member of capacitor committee of China Electrotechnical Society. He published around 150 SCI-indexed papers and was granted 70 patents of China. His H factor is 56. He got National top 100 Ph.D. theses Award in China in 2005, and was awarded as excellent young scientist of Minister of China(2007), Chinese particuology Society(2008) and as Houdebang Innovation prize of China petroleum and Chemical industry association. He was awarded by National Scientific and Technology Progress Award of China (second grade,2008) and other 6 first grade awards by minister or province government of China, owing to the contribution in fundamental study in carbon nanomaterials and the industrial application of fluidized bed technology.