



学术报告

报告题目: Metal Combustion

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报告时间: 2026 年 02 月 03 日 10:00-11:30

报告地点: 计算机楼A229会议室

主办单位: 低碳能源与动力工程学院



报告人简介:

Zhongshan Li has been a full professor at Lund University, Sweden, and now is a professor at Zhejiang Normal University science 2025. He received his B.S. degree and M.S. degree in physics from Jilin University, China, in 1992 and 1995, respectively, and his PhD degree in engineering science from Lund University, Sweden, in 2000. Since then, he was employed as an assistant professor by the Division of Combustion Physics, Lund University, where he was a full professor of laser combustion diagnostics. His research interest has been focused on the development and application of advanced laser diagnostics to turbulent combustion, biomass utilization, non-thermal plasma characterization and functional nanoparticle synthesis. He has published more than 300 peer reviewed journal papers up to September 2025 and has an h-index 56 in Google scholar.

Metal combustion

Metals, i.e. Aluminium and Iron, are energetic materials and can be used as energy carriers of zero-carbon nature. High-efficient on-demand scalable energy release can be achieved through metal combustion in air or steam and the metal oxides, as products, can be collected and regenerated with "green" energy, being recycled in a material loop. Metal fuel combustion as an alternative fuel technology is still in its infancy. In this lecture, some fundamental research on single particle combustion will be presented, mainly experimental observations and optical measurements, from Prof. Li's group in Lund.

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