

# The 17th International Symposium on Self-propagating High-temperature Synthesis

With the arrival of golden autumn, the ancient charm of Xuzhou and the brilliance of academic achievements shine together. we are pleased to invite you to The 17th International Symposium on "Self-propagating High-Temperature Synthesis" (SHS) to be held on September 14-18, 2026 in Xuzhou, Jiangsu, China.

The Self-propagating High-temperature Synthesis conference serves as a pivotal platform for experts, researchers, and enthusiasts from around the world to converge and delve into the latest advancements, breakthroughs and challenges in this dynamic field. We will work together with experts and scholars to map out the future development of self-propagating high-temperature synthesis technology.

With its unique ability to rapidly produce materials with exceptional properties, self-propagating high-temperature synthesis technology has become a cornerstone in diverse applications such as special ceramics, battery materials, composite materials and so on. This conference not only systematically summarize the landmark achievements and challenges in the SHS field in recent years, but also dedicates itself to the deep integration of "Industry-University-Research application". By focusing on research topics such as SHS reaction mechanism, process optimization, intelligent regulation, and interdisciplinary integration, the conference aims to promote cutting-edge exploration in academia, align with the needs of industry and inspiring interdisciplinary collaboration and inspiration. The synergy created by bringing together minds . from academia, industry, and research institutions is bound to catalyze advancements that will promote the evolution of self-propagating synthesis technology towards a more efficient, environmentally friendly, and intelligent direction.

**Official Website: <https://shs2026.aconf.org/>**

## Registration

The conference fee: Early bird registration (**before August 1st, 2026**) is 500 € and for students is 150 €, standard registration (**after August 1st, 2026**) is 550 € and for students is 200 €. Abstract Submission Deadline: June 30, 2026. Registration Deadline: August 1, 2026. Conference Dates: September 14-18, 2026.

## Venue

China University of Mining and Technology, No. 1 Daxue Road, Xuzhou City, Xuzhou, China

## Contact info

Chair Organization Committee:

Peizhong Feng(China)

Xuanru Ren(China)

Secretary:

Baojing Zhang(China)

Shiheng Li (China)

Anastasiia Bolotskaia ( Russia)

E-mail:

[zhangbj@cumt.edu.cn](mailto:zhangbj@cumt.edu.cn),

[lishiheng@cumt.edu.cn](mailto:lishiheng@cumt.edu.cn),

[shangzhichao1996@163.com](mailto:shangzhichao1996@163.com),

[abolotskaia@mail.ru](mailto:abolotskaia@mail.ru)

## Conference Program

Updated on a daily basis since

**March 1<sup>st</sup>, 2026**

## Symposium Topics:

### SHS Theory:

Combustion theory and simulation; Dynamics and mechanisms of composition and structural transformation.

### SHS Methods:

Solution combustion synthesis; Self-propagating high-temperature synthesis; Thermal explosion reaction; Mechanically activated SHS reactions.

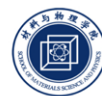
### SHS Materials:

High entropy materials; SHS in films; consolidation and additive technology: SHS+(SPS, HIP, HP, SLS, DLG, Impact assistance, etc); Functional materials: biology and medicine, catalysis, high energy, magnetism, electron and optic etc; Refractory and ultra-high temperature materials.

### SHS Applications:

Metallurgy, Welding and brazing; Surface Engineering; Application and industrialization.

## Organizers



China University of Mining and Technology (Jiangsu, China)



Henan Academy of Sciences (Henan, China)



Merzhanov Institute of Structural Macrokineics and Materials Science RAS



MISIS  
UNIVERSITY  
OF SCIENCE  
AND TECHNOLOGY

University of Science and Technology MISIS

