The Combustion Institute
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Haiping Yang

2022 Candidate Profile: The Combustion Institute Board of Directors

Reasons for Nomination

I started research on coal combustion in 1999. Since then I have expanded my research areas to thermochemical conversion of biomass and solid wastes to heat, fuel, solid char and the downstream utilization with the focuses on process mechanism.

As a board member, my effort would focus on (1) bridging combustion with other science, and (2) mentoring the younger and female researchers.

Biomass as the only carbon contained renewable energy resource, it is critical for the target of carbon neutral. Thermochemical conversion converts biomass to heat, power, fuel, chemicals and materials. It not only contains combustion process, but also gasification and pyrolysis. It is interdisciplinary, and also the fundamental of many new fields. Promoting interdisciplinary studies utilizing CI strong international network will contribute to the sustainability of the CI community.

Younger and female researchers are very important to the future of combustion science. We need to create more opportunities to foster growth and success. Also need more chance for female. As a member of Women commission of Chinese combustion committee, I would establish a mentoring program between female researcher and junior faculty/postdoc with senior professor and field expert to guild their academic development, and promote them grow up smoothly.

See the next page for the candidate's curriculum vitae.

Haiping Yang
Professor, State Key Laboratory of Coal Combustion Huazhong University of Science and Technology

1. Research interest

Biomass/coal combustion, pyrolysis mechanism, catalytic pyrolysis, bio-carbon materials synthesis, gasification for green H_2, solid wastes for CNT and H_2

2. Education

- Ph.D. Thermal Engineering, Huazhong University of Science & Technology (2005)
- Visiting PhD student in Nanyang Technological University, Singapore (2003-2005)
- Master Thermal Engineering, Northeast Electric Power University, (2002)
- Bachelor Thermal Engineering, Northeast Electric Power University, (1999)

3. Professional Career

- Postdoc in Huazhong University of Science & Technology (2005-2007)
- Lecture in Huazhong University of Science & Technology (2007-2008)
- Associate Professor in Huazhong University of Science & Technology (2009-2016)
- Visiting scholar, University of Wisconsin-Madison (2013-2015)
- Professor in Huazhong University of Science & Technology (2017-)

4. Honors and Awards

- Distinguished Paper Award of 38th International Symposium on Combustion (2021)
- The National Nature Science Fund for Distinguished Young Scholars (2021)
- Provincial Natural Science Progress Award (First-class, China, 2021))
- Advanced Newton fellowship, the Royal Society UK (2018)
- The National Nature Science Fund for Outstanding Youth Foundation (2016)
- Most Cited Chinese Researcher, Elsevier (2014-2020)

5. Professional activity

- Member of Women Commission of Chinese Combustion Committee (2022)
- Colloquium Co-chair of 38th International Symposium on Combustion (2021)
- Colloquium Chair of China National Symposium on Combustion (2016-2021)
- Vice director of Academic Committee of China Symposium on Analytical and Applied Pyrolysis (2021-)
- Vice director of Youth committee of China Renewable Energy Society (2018-)
- Associated editor of Fuel Processing Technology (2020-)
- Member of advisory Board of Energy Conversion and Management (2021-), Journal of the Energy Institute (2019-), Fuel (2017-), Journal of Analytical and Applied Pyrolysis (2016-)

6. Recent invited talks

- Topical review “Biomass and Biomass Pyrolysis”. 39th International Symposium on Combustion, 2022.
- “Co-production of hydrogen and carbon nanotubes from waste plastics catalytic pyrolysis”. ePYRO2021, 2021.
- “Development of biomass pyrolysis polygeneration and the high value utilization”. International Conference on Biotechnology for Sustainable Agriculture, Environment and Health, 2021.
- “Biomass Energy-How to do research successfully”. 14th symposium of Biomass Energy for Graduate student, 2020.
- “Development of Biomass pyrolysis for poly-generation”. 18th Symposium of Analytical and Applied Pyrolysis, 2019.
- “Biomass pyrolysis regulation strategy and polygeneration mechanism”. 3rd Chinese Youth Symposium on Combustion, 2017.