

YUHANG YU (余雨航)

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Address: Rm. 504, No. 2 Building of Mechanics, University of Science and Technology of China, Hefei, China

Education:

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|---|---|------------------------------|
| ➤ | University of Science and Technology of China (USTC) | 02/2020 - 07/2020 |
| | M. Eng. in Thermal Science and Energy Engineering | Expected graduation: 07/2020 |
| ➤ | Chinese Academy of Sciences (CAS) | 07/2018 - 01/2020 |
| | M. Eng. in Distributed Generation with Renewable Energy | |
| ➤ | University of Science and Technology of China (USTC) | 09/2017 - 07/2018 |
| | M. Eng. in Thermal Science and Energy Engineering | |
| | GPA: 3.54/4.0 | |
| ➤ | Hefei University of Technology, China (HFUT) | 09/2013 - 07/2017 |
| | B. Eng. in Energy and Power Engineering (Refrigeration) | |
| | Major Ranking: 3/84 | |

Research Interests:

Hydrogen Energy, Solar Energy, Energy Conversion.

Awards & Honors:

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| National scholarship (Highest scholarship in China, examining) | 2019 |
| The first prize scholarship | 2016 - 2019 |

Publications:

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- [1] Advanced concept of coupling solar-aided flue gas treatment and solar-aided power generation in power plants.
Yuhang Yu, Shaopeng Guo, Yong Hao*, Maobin Hu*, Ruilin Wang.
Energy Conversion & Management (**ECM**), 2019. (**IF: 7.181**)
- [2] A spectral-splitting photovoltaic-thermochemical system for energy storage and solar power generation.
Yunyi Ling, Wenjia Li, Jian Jin, **Yuhang Yu**, Yong Hao*, Hongguang Jin.
Applied Energy (**APEN**), 2019. (**IF: 8.246**)
- [3] A solar methane reforming reactor design with enhanced efficiency.
Jian Jin, Xin Wei, Mingkai Liu, **Yuhang Yu**, Hui Kong, Yong Hao*.
Applied Energy (**APEN**), 2018. (**IF: 8.246**)

Contest Awards:

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- [1] Solar photovoltaic-photothermal-methane wet reforming complementary system based on spectral-splitting.
Yuhang Yu, Xin Wei.
The 11th "Dongfeng Motor Cup" National University Student Social Practice and Science Contest on Energy

Saving & Emission Reduction, 2018. (**The third prize**)

Professional Skills:

Natural languages: Chinese, Japanese (JLPT-N1), English (CET-6, TOEFL-preparing).

Computer language: C/C++, Python, Matlab.

Software: COMSOL, ASPEN Plus, SolidWorks, Inventor, AutoCAD, Origin, PS, etc.

Experimental device: SEM, XRD, Mass Spectrometer, etc.