

# 杨荟楠教授简介



**姓名:** 杨荟楠

**性别:** 女

**出生年月:** 1983年4月

**职称:** 教授

**学历:** 博士研究生

**学位:** 工学博士

**行政职务:** 中德国际学院副院长（主持行政工作）

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## 研究方向:

多相流测量、燃烧诊断、大气环境监测、光学测量仪器研制等

## 学术职务:

上海市曙光学者、上海市东方英才青年、中国颗粒学会青年理事、中国光学学会激光光谱学专业委员会委员、上海市工程热物理学会理事、上海市颗粒学会理事会理事、中国计量测试学会多相流专业委员会委员

## 教育背景:

2008.05~2012.01, 德国杜伊斯堡-埃森大学, 燃烧与动力学工程专业, 博士研究生

2006.11~2008.04, 德国杜伊斯堡-埃森大学, 机电一体化专业, 硕士研究生

2003.10~2006.11, 德国杜伊斯堡-埃森大学, 机械工程专业, 本科生（联合培养）

2001.09~2005.07, 中国矿业大学, 机械制造与自动化控制, 本科生（联合培养）

## 工作经历:

2025.01~至今, 上海理工大学, 中德国际学院, 副院长

2021.06~2024.12, 上海理工大学, 能源与动力工程学院, 副院长

2019.07~至今, 上海理工大学, 能源与动力工程学院, 教授（破格）

2019.03~2020.02, 上海市宝山区城市工业园区管委会, 副主任（挂职）

2015.07~2019.06, 上海理工大学, 能源与动力工程学院, 副教授

2012.12~2015.06, 上海理工大学, 能源与动力工程学院, 讲师

2012.08~2012.12, 中航工业商用航空发动机有限责任公司, 主管设计师

2012.01~2012.07, 德国 BASF Coatings GmbH, Coatings Young Professionals

## 教学及科研项目：

- 2024.01~2027.12 国家自然科学基金委员会，面上项目，“多波长激光吸收光谱液膜成像同步测量二维厚度场与温度场方法研究(52376161)”，负责人
- 2017.01~2020.12 国家自然科学基金委员会，面上项目，“反射式多波长光谱同步测量薄液膜气液两相多参数方法研究(51676130)”，负责人
- 2014.01~2016.12 国家自然科学基金委员会，青年项目，“激光光谱在线同步检测尿素水溶液液膜厚度、温度及浓度的方法研究(51306123)”，负责人
- 2015.01~2016.07 教育部，博士点基金项目，“TDLAS 同步检测尿素水溶液液膜多参数方法研究(20133120120008)”，负责人
- 2015.03~2015.12 教育部，留学回国人员科研启动基金，“TDLAS 同步检测溶液液膜温度、厚度及浓度方法研究”，负责人
- 2024.01~2025.12 上海市教育委员会，上海市“曙光计划”项目，“高时空分辨液膜多参数成像方法及系统”，负责人
- 2020.10~2023.09 上海市人力资源与社会保障局，上海市人才发展资金资助计划，负责人
- 2020.07~2023.06 上海市科学技术委员会，自然科学基金，微通道内流动沸腾相变过程中局部传热系数在线测量方法研究(20ZR1438900)，负责人
- 2018.08~2022.07 工业和信息化部，工信部两机专项，“复杂流道\*\*\*\*\*技术研究(2017-V-0016-0069)”，主要参研人员
- 2014.01~2018.12 国家自然科学基金委员会，重大仪器专项，“基于光场成像理论的高温发光火焰三维流场、温度场在线检测系统研制(51327803)”，主要参研人员
- 2019.03~2022.03 国家自然科学基金委员会，联合基金项目，“基于中红外激光吸收光谱技术的燃煤烟气中  $\text{SO}_3$  在线测量研究(U1810129)”，参与单位负责人
- 2023.06~2025.06 宝山钢铁股份有限公司，横向项目，“发电机组掺烧精脱硫再生气后运维策略研究”，负责人
- 2023.01~2023.03 湖南五凌电力工程有限公司，横向项目，“电厂运行中汽轮机油颗粒度在线监测方法及装置研究”，负责人
- 2024.10~2024.11 上海市环境科学研究院，横向项目，“第七届进博会空气质量保障——重点区域含氮化合物高值排查及反演”，负责人
- 2020.08~2021.08 上海蓝箭电控设备成套有限公司，横向项目，“一次接插件温度的实时监测和警报”，负责人

## 教学及科研成果:

### 1. 论文

- (1) Yuan Wei, Ru-Jin Huang, Chao Luo, Lu Yang, Wenjuan Cao, Jie Guo, **Huinan Yang**. Measurement report: Oxidation potential of water-soluble aerosol components in the south and north of Beijing. *Atmospheric Chemistry and Physics*, 2024, 24(23): 13219-13230.
- (2) Xiang Ding, Cheng Huang, Dandan Huang, Yong Hou, Qingyao Hu, Shengrong Lou, Meng Wang, Min Zhou, Jun Chen, **Huinan Yang**, Rujin Huang, Qingyan Fu, Hongli Wang. Unraveling reactive nitrogen emissions in heavy-duty diesel vehicles across evolving standards and cheating tactics. *Environmental Science & Technology*, 2024, 58(52), 23180-23189.
- (3) Wei Huang, Hao Sun, Chang Zhao, Kun Wang, Jun Yang, Yujian Fang, **Huinan Yang**. Investigation into ethanol film thicknesses in the evaporation, injection, and flow processes by an online measurement system based on absorption spectroscopy. *Measurement*, 2024, 238: 115285.
- (4) **Huinan Yang**, Yunfei Hou, Wenfei Zhu, Chunjiang Zhao, Chen Yang, Liping Qiao, Shengrong Lou, Jun Chen, Cheng Huang. Closure method development for extinction coefficients and chemical compositions of aerosol by mobile measurement in Shanghai. *Atmospheric Pollution Research*, 2024, 15(6): 102111.
- (5) Silong Li, Yi Zheng, Yue-De Yang, Huazhong Yang, Changpeng Han, Peng Du, Xiaolei Wang, **Huinan Yang**. Diagnosis and classification of intestinal diseases with urine by surface-enhanced Raman spectroscopy. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. 2024, 312: 124081.
- (6) Chang Zhao, Hao Sun, Jingyi Wang, **Huinan Yang**. Light-induced enhanced phase change process of plasmonic nanofluids: The reduction of the latent heat of vaporization. *Applied Thermal Engineering*, 2024, 240: 122140.
- (7) Yidong Fang, Donghua Lu, Weihong Yang, **Huinan Yang**, Yuqi Huang. Saturated flow boiling heat transfer of R1233zd(E) in parallel mini-channels: Experimental study and flow-pattern-based prediction. *International Journal of Heat and Mass Transfer*, 2023, 216: 124608.
- (8) Hao Sun, Wei Huang, Chunjiang Zhao, Zhiyuan Liu, Yujian Fang, Jian Jin, Ling Li, **Huinan Yang**. Experimental and numerical study on the falling film flow process on the outer wall of dome cylinder. *International Journal of Heat and Mass Transfer*, 2023, 216: 124542.
- (9) Chang Zhao, Hao Sun, Yonggang Zheng, Silong Li, **Huinan Yang**. Promotion of Nanobubble Formation around Light-Induced Plasmonic Nanoparticles: A

- Molecular Dynamics and Continuum Modeling Comparative Study. *The Journal of Physical Chemistry C*, 2023, 127(34): 16818-16827.
- (10) Yidong Fang, Zhao Zhang, Dan Xu, Yuchen Wang, **Huinan Yang**, Yuqi Huang. Experimental Investigation on Flow Pattern and Bubble Behavior during Subcooled Flow Boiling of R1233zd(E) in Parallel Channels. *Journal of Thermal Science*, 2023, 32, 2374-2385.
- (11) Jiajia Wu, Yan Chen, **Huinan Yang**, Leyi Gu, Zhaohui Ni, Shan Mou, Jianxiao Shen, Xiajing Che. Sodium glucose co-transporter 2 (SGLT2) inhibition via dapagliflozin improves diabetic kidney disease (DKD) over time associated with increasing effect on the gut microbiota in db/db mice. *Frontiers in Endocrinology*, 2023, 14, 1026040.
- (12) Xiao Chen, Hao Sun, Wei Huang, Jian Jin, Mingxu Su, **Huinan Yang**. The Development of a Novel Headspace O<sub>2</sub> Concentration Measurement Sensor for Vials. *Sensors*, 2023, 23(5): 2438.
- (13) Zhiyuan Liu, Hao Sun, Wei Huang, Kun Wang, Mingxu Su, **Huinan Yang**. Development and application of an optimal three-wavelength combination for liquid film measurement with absorption spectroscopy. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2023, 291: 122391.
- (14) Wei Huang, Hao Sun, Zhiyuan Liu, Kun Wang, Mingxu Su, **Huinan Yang**. Investigation into injection and falling film flow processes of diesel. In: *Measurement*, 2023, 218: 113120.
- (15) Yue Zhu, Weimin Xu, Zhiyuan Liu, Bingyan Li, Yaling Wu, Zhebin Hua, Yaosheng Wang, Xiaolei Wang, Peng Du, **Huinan Yang**. Surface-enhanced Raman spectroscopy analysis reveals biochemical difference in urine of patients with perianal fistula. *Asian Journal of Surgery*, 2024, 47(1): 140-146.
- (16) Xiang Ming Ding, Cheng Huang, Wenyang Liu, MA Dong-xiang, Shengrong Lou, Qing X. Li, Jun Chen, **Huinan Yang**, Chaoyang Xue, Yafang Cheng, Hang Su. Direct Observation of HONO Emissions from Real-World Residential Natural Gas Heating in China. *Environmental Science & Technology*, 2023, 57(12): 4751-4762.
- (17) Yang Tian, Xuechun Wu, Guqing Guo, Guowang Xu, Ting Gong, Yantao Tian, Xiaoying Sun, Xuanbing Qiu, **Huinan Yang**, Christa Fittschen, Chuanliang Li. A miniaturized multipass cell for measurement of O<sub>2</sub> concentration in vials based on TDLAS. *Optics and Lasers in Engineering*, 2023, 163: 107454.
- (18) Bingyan Li, Hui Ding, Zijie Wang, Zhiyuan Liu, Xiaoshu Cai, **Huinan Yang**. Research on the difference between patients with coronary heart disease and

- healthy controls by surface enhanced Raman spectroscopy. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2022, 272: 120997.
- (19) Yaling Wu, Zijie Wang, Mengmeng Xing, Bingyan Li, Zhiyuan Liu, Peng Du, **Huinan Yang**, Xiaolei Wang. The Specific Changes of Urine Raman Spectra Can Serve as Novel Diagnostic Tools for Disease Characteristics in Patients with Crohn's Disease. *Journal of Inflammation Research*, 2022, 15: 897-910.
- (20) Zixuan Du, Yan Zhou, Si Luo, Yusheng Zhang, Jie Shao, Zuguang Guan, **Huinan Yang**, Daru Chen. Highly birefringent hollow-core anti-resonant terahertz fiber with a thin strut microstructure. *Optics Express*, 2022, 30(3): 3783-3792.
- (21) Shuaishuai Kong, Zijie Wang, Xiaoyan Xu, Hao Sun, Zhiyuan Liu; Yidong Fang, Mingxu Su, **Huinan Yang**. Film thickness measurements in the R1233zd film evaporation and flow processes on a quartz plate. *International Journal of Multiphase Flow*, 2022, 153: 104108.
- (22) Chao Tian, Yang Cai, **Huinan Yang**, Mingxu Su. Investigation on mixed particle classification based on imaging processing with convolutional neural network. *Powder Technology*, 2021, 391: 267-274.
- (23) Chao Luo, Bingyan Li, Yaling Wu, Zijie Wang, Weimin Xu, Yue Zhu, Peng Du, Xiaolei Wang, **Huinan Yang**. Development of Classification Model for the Discrimination of Crohn's Disease and Healthy Controls Using Surface-enhanced Raman Spectroscopy. 2021 Photonics & Electromagnetics Research Symposium (PIERS), Hangzhou, China, 2021, pp. 805-809.
- (24) Ru-Jin Huang, Wei Yuan, Lu Yang, **Huinan Yang**, Wenjuan Cao, Jie Guo, Ningning Zhang, Chongshu Zhu, Yunfei Wu, Renjian Zhang. Concentration, optical characteristics, and emission factors of brown carbon emitted by on-road vehicles. *Science of The Total Environment*, 2022, 810: 151307.
- (25) Bingyan Li, Yaling Wu, Zijie Wang, Mengmeng Xing, Weimin Xu, Yue Zhu, Peng Du, Xiaolei Wang, **Huinan Yang**. Non-invasive diagnosis of Crohn's disease based on SERS combined with PCA-SVM. *Analytical Methods*, 2021, 13(44): 5264-5273.
- (26) Qingrou Yang, Lei Wu, Chenjun Shi, Xu Wu, Xiaohong Chen, Weida Wu, **Huinan Yang**, Zijie Wang, Linggao Zeng, Yan Peng. Qualitative and Quantitative Analysis of Caffeine in Medicines by Terahertz Spectroscopy Using Machine Learning Method. *IEEE Access*, 2021, 9: 140008-140021.
- (27) Wenyong Qiao, Tao Jin, Peng Li, Mengmeng Xing, **Huinan Yang**, Jun Chen, Mingxu Su. Determining Nitrophenol Isomers Using Raman Spectroscopy. *Spectroscopy*, 2021, 36(10): 30-36.

- (28) Weiwei Wu, Shuaishuai Kong, Xiaoyan Xu, Tao Jin, Chuanliang Li, Jingyi Wang, Mingxu Su, **Huinan Yang**. Simultaneous measurement of liquid film thickness and temperature on metal surface. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2021, 257: 119804.
- (29) Xu-hui Lian, Zhi-hai Jia, Cheng-xiao Xu, **Huinan Yang**. Directional motion of resonant drops on a hydrophobic ratchet with gradient inclination. *Surfaces and Interfaces*, 2020, 20: 100583.
- (30) Cheng Qian, Wei Li, Dunyu Liu, Jun Chen, **Huinan Yang**, Jing Jin. Simultaneous Absorption of NO<sub>x</sub> and SO<sub>2</sub> into Water and Acids under High Pressures. *Energy & Fuels*, 2020, 34: 9787-9795.
- (31) Xu Wu, Liping Wang, Yan Peng, Fang Wu, Jianjun Cao, Xiaohong Chen, Weida Wu, **Huinan Yang**, Mengmeng Xing, Yiming Zhu, Yao Shi, Songlin Zhuang. Quantitative analysis of direct oral anticoagulant rivaroxaban by terahertz spectroscopy. *Analyst*, 2020, 145(11): 3909-0915.
- (32) Yuexing Zhang, Weiwei Wu, **Huinan Yang**, Chuanliang Li, Tao Jin, Ruifeng Kan. Optimization of leakage detection system for vials based on two-line tunable diode laser absorption spectroscopy. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2020, 233: 118194.
- (33) **Huinan Yang**, Yongchun Guo, Chuanliang Li, Tao Jin, Yuexing Zhang, Weiwei Wu, Mingxu Su. Development of a two-line DLAS sensor for liquid film measurement. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2020, 224: 117420.
- (34) Yuchen Guo, Xuanbing Qiu, Ning Li, Shiling Feng, Thomas C. Cheng, Qiangqiang Liu, Qiusheng He, Ruifeng Kan, **Huinan Yang**, Chuanliang Li. A portable laser-based sensor for detecting H<sub>2</sub>S in domestic natural gas. *Infrared Physics & Technology*, 2020, 105: 103153.
- (35) **Huinan Yang**, Mengmeng Xing, Wenyu Qiao, Chengfang Luo, Xiaoshu Cai. Development of a SERS-based diagnostic method for coronary heart disease with urine. 2019 Photonics & Electromagnetics Research Symposium-Spring (PIERS-Spring), Rome, Italy, 2019, pp. 2434-2436.
- (36) Jialuo Zhang, Meng Wang, Mingxu Su, **Huinan Yang**, Jun Chen. An optical soot particle measurement setup based on CRDS and LII. 2019 Photonics & Electromagnetics Research Symposium-Fall (PIERS-Fall), Xiamen, China, 2019, pp. 1775-1777.
- (37) **Huinan Yang**, Yong Jiang, Yongchun Guo, Ling Li, Mingxu Su. Investigation into falling film outside horizontal tube based on diode laser absorption spectroscopy. *Measurement Science and Technology*, 2018, 30: 015202.

- (38) Nan Jia, Jianfei Gu, **Huinan Yang**, Mingxu Su, Synchronous acquisition and analysis of ultrasonic spectral information for the characterization of particle size distribution. *Journal of Sensors*, 2019, 5: 1-12.
- (39) **Huinan Yang**, Yufeng Guo, Yong Jiang, Jingjing Chen, Mingxu Su, Zhihai Jia. Laser-based investigation into injection, formation and flow processes of ethanol films on metal surface. *Results in Physics*, 2019, 12: 1742-1746.
- (40) Jianfei Gu, Fengxian Fan, Yunsi Li, **Huinan Yang**, Mingxu Su, Xiaoshu Cai. Modeling and prediction of ultrasonic attenuations in liquid-solid dispersions containing mixed particles with Monte Carlo method. *Particuology*, 2019, 43, 84-91.
- (41) **Huinan Yang**, Jingjing Chen, Xujian Luo, Chang Liu, Dawei Qi, Xuchao Xin, Mingxu Su. Leakage detection of closed vials based on two-line water-vapor TDLAS. *Measurement*, 2019, 135: 413-417.
- (42) **Huinan Yang**, Chengfang Luo, Chengxing Shen, Hui Ding, Bo Wu, Xiaoshu Cai. Influence of drugs on the prospective diagnostic method for coronary heart disease with urine. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2019, 217: 176-181.
- (43) **Huinan Yang**, Wei Wu, Mingxu Su, Jun Chen, Xiaoshu Cai. Measurement of liquid water film thickness on opaque surface with diode laser absorption spectroscopy. *Flow Measurement and Instrumentation*, 2018, 60: 110-114.
- (44) **Huinan Yang**, Chen Zhao, Rong Li, Chengxing Shen, Xiaoshu Cai, Li Sun, Chengfang Luo, Yuechao Yin. Noninvasive and prospective diagnosis of coronary heart disease with urine using surface-enhanced Raman spectroscopy. *Analyst*, 2018, 143: 2235-2242.
- (45) Yihua Zhou, Jun Chen, **Huinan Yang**, Tan Li, Mingxu Su. Influence of spheroidal particle shape on particle size characterization by multi-wavelength light extinction method. *Results in Physics*, 2018, 10: 22-27.
- (46) Liming Luo, Zhi-hai Jia, **Huinan Yang**, Zhitao Zhang, Meng-yao Chen. Evaporation characteristics of droplets on a gradient microhole-patterned surface. *Journal of Materials Science*, 2017, 53: 1447-1454.
- (47) Xuyan Liu, Yanlin Han, Jiahuan Zeng, **Huinan Yang**, Kai Zhou, Deng Pan. Hydrothermal synthesis of nano-SnO<sub>2</sub>@SiO<sub>2</sub> composites for lithium-ion battery anodes. *Journal of Materials Science: Materials in Electronics*, 2018, 29: 5710-5717.
- (48) Xuyan Liu, Min Yang, Xinjie Zhu, **Huinan Yang**, Kai Zhou, Deng Pan. Polypyrrole@ silica composites as high performance electrode materials for

- Lithium-ion batteries. *Journal of Materials Science: Materials in Electronics*, 2018, 29: 6098-6104.
- (49) Xuyan Liu, Jiahuan Zeng, **Huinan Yang**, Kai Zhoua, Deng Pan. V2O5-Based nanomaterials: synthesis and their applications. *RSC Advances*, 2018, 8: 4014-4031.
- (50) Mingzhi Li, Jun Chen, Mingxu Su, **Huinan Yang**, Arun Ramachandran, Ravi Varma. An LP-DOAS instrument with a laser driven light source for open-path measurement of atmospheric NO<sub>2</sub> in Shanghai. *2017 Progress In Electromagnetics Research Symposium-Spring (PIERS)*, St. Petersburg, Russia, 2017, pp. 57-62.
- (51) **Huinan Yang**, Jianwei Shi, Mingxu Su, Wei Wu, Xiaoshu Cai. Simultaneous measurement of film thickness, temperature, and mass fraction of urea-water-solutions by multi-wavelength laser absorption spectroscopy. *Review of Scientific Instruments*, 2017, 88(5): 053102.
- (52) Jianfei Gu, **Huinan Yang**, Fei Fan, Mingxu Su. A transmission and reflection coupled ultrasonic process tomography based on cylindrical miniaturized transducers using PVDF films. *Journal of Instrumentation*, 2017, 12: 12026.
- (53) Chenchuan Tan, Zhihai Jia, **Huinan Yang**, Zhitao Zhang. Dynamic behavior of a vibrated droplet on a low-temperature micropillared surface. *Applied Surface Science*, 2017, 394: 358-363.
- (54) Yanfeng Zhang, Jun Chen, **Huinan Yang**, Mingxu Su. Characterization of soot based on variable laser-induced spectroscopy. *2016 Progress in Electromagnetic Research Symposium (PIERS)*, Shanghai, 2016, 4162-4165.
- (55) **Huinan Yang**, X.-L Guo, Mingxu Su, X.-S Cai. Measurement of the evaporating liquid film of a urea-water solution using diode laser absorption spectroscopy. *Lasers in Engineering*, 2016, 35: 351-358.
- (56) **Huinan Yang**, Mingxu Su, Xue Wang, Jianfei Gu, Xiaoshu Cai. Particle sizing with improved genetic algorithm by ultrasound attenuation spectroscopy. *Powder Technology*, 2016, 304: 20-26.
- (57) Wu Zhou, Na Jin, Minhua Jia, **Huinan Yang**, Xiaoshu Cai, Xiaoshu Cai. Three-dimensional positioning method for moving particles based on defocused imaging using single-lens dual-camera system. *Chinese Optics Letters*, 2016, 14: 31201-31205.
- (58) **Huinan Yang**, B. Yang, Xiaoshu Cai, Hecht, C., Dreier, T., Schulz, Christof. Three-dimensional (3-D) temperature measurement in a low pressure flame reactor using multiplexed tunable diode laser absorption spectroscopy (TDLAS). *Lasers in Engineering*, 2015, 31: 285-297.



- (59) **Huinan Yang**, Xiaolong Guo, Wu Zhou, Benting Chen, Jian Hu, Mingxu Su, Xiaoshu Cai. Investigation on liquid film of urea-water solutions with diode laser absorption spectroscopy. *Experiments in Fluids*, 2015, 56: 73.
- (60) Xiaoshu Cai, **Huinan Yang**. Preface. *Powder Technology*.2015.
- (61) Pengfei Yin, Jun Chen, **Huinan Yang**, Lili Liu, Xiaoshu Cai. Multi-path light extinction approach for high efficiency filtered oil particle measurement. *AIP Conference Proceedings*, 2014, 1592(1): 261-267.
- (62) **Huinan Yang**, Jun Chen, Xiaoshu Cai, Daniel Greszik, Thomas Dreier, Christof Schulz. Liquid film thickness measurement by two-line TDLAS. *AIP Conference Proceedings*, 2014, 1592(1): 232-235.
- (63) Yanping Hou, Jun Chen, **Huinan Yang**, Xiaoshu Cai. Simulated characterization of soot in the flame based on laser induced incandescence. 2016 Progress in Electromagnetic Research Symposium (PIERS) 2016, pg. 4162.
- (64) **Huinan Yang**, Xiaolong Guo, Mingxu Su, Xiaoshu Cai. Novel method for simultaneous measurement of film thickness and mass fraction of urea-water solution. *Chinese Optics Letters*, 2014, 12: 123102.
- (65) Jiaxun Liu, Xiaoshu Cai, Zenghao Zhu, **Huinan Yang**. Application of spectral technology in flame measurement. *Frontiers in Energy*, 2013, 8: 138-143.
- (66) **Huinan Yang**, Daniel Greszik, Irenäus Wlokas, Thomas Dreier, Christof Schulz. Tunable diode laser absorption sensor for the simultaneous measurement of water film thickness, liquid- and vapor-phase temperature. *Applied Physics B-Lasers and Optics*, 2011, 104: 21-27.
- (67) Daniel Greszik, **Huinan Yang**, Thomas Dreier, Christof Schulz. Measurement of water film thickness by laser-induced fluorescence and Raman imaging. *Applied Physics B-Lasers and Optics*, 102: 123-132.
- (68) Daniel Greszik, **Huinan Yang**, Thomas Dreier, Christof Schulz. Laser-based diagnostics for the measurement of liquid water film thickness. *Applied optics*, 2010, 50: 60.
- (69) **Huinan Yang**, Daniel Greszik, Thomas Dreier, Christof Schulz. Simultaneous measurement of liquid water film thickness and vapor temperature using near-infrared tunable diode laser spectroscopy. *Applied Physics B-Lasers and Optics*, 2010, 99: 385-390.

## 2.著作

- (1) 编著：杨其国、李凌、张守玉、高鹏、张冠华、刘妮、陈家星、杨荟楠、陈曦、杨亮、焦雪劼.能源与动力工程概论.北京：化学工业出版社，2022.

**个人荣誉及获奖情况:**

- (1) 2023 上海市曙光计划项目
- (2) 2023 上海市东方英才计划(青年项目)
- (3) 2020 上海市人才发展资金资助计划
- (4) 2024 上海市工程热物理学会“翁史烈优秀青年人才奖”
- (5) 2021 上海市教育系统三八红旗手
- (6) 2023 “全国高校黄大年式教师团队”骨干成员
- (7) 2014 中国仪器仪表学会科学技术奖一等奖
- (8) 2016 中国颗粒学会科学技术进步奖一等奖
- (9) 2023 机械工业科学技术发明奖二等奖(序 1)
- (10)2023 上海市技术发明奖二等奖(序 2)
- (11)2023 中国计量测试学会科学技术进步奖二等奖(序 3)
- (12)2020 第二届“镇长团杯”苏州市创新挑战赛“挑战之星奖”
- (13)2019 第四届中国创新挑战赛(上海)暨第二届长三角国际创新挑战赛二等奖
- (14)2022 上海市高等教育优秀教学成果一等奖
- (15)2023 上海市课程思政示范团队负责人
- (16)2023 上海高等学校一流本科课程负责人
- (17)2019 上海高校外国留学生英语授课示范性课程负责人
- (18)2018 上海高校示范性全英语课程建设项目
- (19)2022 第八届中国国际“互联网+”大学生创新创业大赛上海赛区主赛道铜奖  
指导教师
- (20)2023 第九届中国国际“互联网+”大学生创新创业大赛上海赛区主赛道铜奖  
指导教师

- (21)2023 第十八届“挑战杯”大学生课外学术科技作品竞赛上海赛区主赛道三等奖指导教师
- (22)2021 全国大学生创新促进就业(简历设计)大赛一等奖指导教师
- (23)2019 “华为杯”第十六届中国研究生数学建模竞赛二等奖指导教师
- (24)2023 第十三届中国多相流测试学术会议优秀论文指导教师
- (25)2021 上海市工程热物理学会优秀硕士学位论文指导教师
- (26)2020 第二届长三角地区高校“新时代·中国说”大学生讲师邀请赛一等奖
- (27)2019 上海理工大学“志远学者”