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教师内容页



王金华

研究领域 (方向)

内燃机燃烧与排放, 湍流燃烧, 燃烧激光诊断

个人及工作经历

教育经历:

2006/3-2009/6, 西安交通大学, 动力工程及工程热物理

2003/9-2006/3, 西安交通大学, 动力工程及工程热物理

1999/9-2003/7, 西安交通大学, 热能与动力工程, 学士

工作经历:

2014/1-至今, 西安交通大学, 能源与动力工程学院, 副教授

2012/6-2013/12, 西安交通大学, 能源与动力工程学院, 讲师

2010/5-2012/6, 日本东北大学, 流体科学研究所, JSPS外国人特别研究员2009/7-2010/5, 西安交通大学, 能源与动力工程学院, 讲师

科研项目

主持国家自然科学基金面上项目、青年基金项目, 主持陕西省自然科学基金、天津大学内燃机燃烧学国家重点实验室开放课题基金等省部级基金项目, 承担企业横向课题。

学术及科研成果、专利、论文

科研获奖:

- 2013年, 教育部自然科学一等奖(排2)
- 2011年, 全国百篇优秀博士论文提名奖
- 2011年, 陕西省优秀博士学位论文
- 2010年, JSPS(日本学术振兴会)外国人特别研究员

近5年(2010-2015)代表性论文:

- Jinhua Wang*, Senbin Yu, Meng Zhang, Wu Jin, Zuohua Huang, Shuang Chen and Hideaki Kobayashi. Burning velocity and statistical flame front structure of turbulent premixed flames at high pressure up to 1.0 MPa. Experimental Thermal and Fluid Science. 2015, 68(0): 196-204.
- Jinhua Wang*, Zhilong Wei, Senbin Yu, Wu Jin, Yongliang Xie, Meng Zhang, Zuohua Huang. Effects of stretch and preferential diffusion on tip opening of laminar premixed Bunsen flames of syngas/air mixtures. Fuel. 2015, 148(0): 1-8.
- Jinhua Wang*, Zhilong Wei, Meng Zhang, and Zuohua Huang. A review of engine application and fundamental study on turbulent premixed combustion of hydrogen enriched natural gas. Science China Technological Sciences. 2014, 57(3): 445-451.
- Jinhua Wang*, Meng Zhang, Yongliang Xie, Zuohua Huang*, Taku Kudo, and Hideaki Kobayashi. Correlation of turbulent burning velocity for syngas/air mixtures at high pressure up to 1.0 MPa. Experimental Thermal and Fluid Science. 2013, 50: 90-96.
- Jinhua Wang*, Meng Zhang, Zuohua Huang*, Taku Kudo, and Hideaki Kobayashi. Measurement of the instan

- taneous flame front structure of syngas turbulent premixed flames at high pressure. *Combustion and Flame*. 2013, 160(11): 2434-2441.
6. Jinhua Wang*, Futoshi Matsuno, Masaki Okuyama, Yasuhiro Ogami, Hideaki Kobayashi, and Zuohua Huang. Flame front characteristics of turbulent premixed flames diluted with CO₂ and H₂O at high pressure and high temperature. *Proceedings of the Combustion Institute*. 2013, 34(1): 1429-1436.
7. Jinhua Wang*, Zuohua Huang*, Hideaki Kobayashi, and Yasuhiro Ogami. Laminar burning velocities and flame characteristics of CO-H₂-CO₂-O₂ mixtures. *International Journal of Hydrogen Energy*. 2012, 37(24): 19158-19167.
8. Jinhua Wang, Zuohua Huang*, Chenglong Tang, and Jianjun Zheng. Effect of hydrogen addition on early flame growth of lean burn natural gas-air mixtures. *International Journal of Hydrogen Energy*. 2010, 35(13): 7246-7252.
9. Meng Zhang, Jinhua Wang, Wu Jin, Zuohua Huang, Hideaki Kobayashi and Lin Ma. Estimation of 3D flame surface density and global fuel consumption rate from 2D PLIF images of turbulent premixed flame. *Combustion and Flame*. 2015, 162(5): 2087-2097.
10. Wu Jin, Jinhua Wang, Senbin Yu, Yaohui Nie, Yongliang Xie, and Zuohua Huang. Cellular instabilities of non-adiabatic laminar flat methane/hydrogen oxy-fuel flames highly diluted with CO₂. *Fuel*. 2015, 143(0): 38-46.
11. Meng Zhang, Jinhua Wang*, Yongliang Xie, Zhilong Wei, Wu Jin, Zuohua Huang*, and Hideaki Kobayashi. Measurement on instantaneous flame front structure of turbulent premixed CH₄/H₂/air flames. *Experimental Thermal and Fluid Science*. 2014, 52(0): 288-296.
12. Meng Zhang, Jinhua Wang*, Jin Wu, Zhilong Wei, Zuohua Huang*, and Hideaki Kobayashi. Flame front structure of turbulent premixed flames of syngas oxyfuel mixtures. *International Journal of Hydrogen Energy*. 2014, 39(10): 5176-5185.
13. Meng Zhang, Jinhua Wang*, Zuohua Huang*, and Norimasa Iida. Numerical study of effects of the intermediates and initial conditions on flame propagation in a real HCCI engine. *Thermal Science*. 2014, 18(1): 79-87.
14. Yongliang Xie, Jinhua Wang*, Nan Xu, Senbin Yu, Meng Zhang, and Zuohua Huang*. Thermal and Chemical Effects of Water Addition on Laminar Burning Velocity of Syngas. *Energy & Fuels*. 2014, 28(5): 3391-3398.
15. Yongliang Xie, Jinhua Wang*, Nan Xu, Senbin Yu, and Zuohua Huang*. Comparative study on the effect of CO₂ and H₂O dilution on laminar burning characteristics of CO/H₂/air mixtures. *International Journal of Hydrogen Energy*. 2014, 39(7): 3450-3458.
16. Meng Zhang, Jinhua Wang*, Yongliang Xie, Wu Jin, Zhilong Wei, Zuohua Huang*, and Hideaki Kobayashi. Flame front structure and burning velocity of turbulent premixed CH₄/H₂/air flames. *International Journal of Hydrogen Energy*. 2013, 38(26): 11421-11428.
17. Yongliang Xie, Jinhua Wang*, Meng Zhang, Jing Gong, Wu Jin, and Zuohua Huang*. Experimental and numerical study on laminar flame characteristics of methane oxy-fuel mixtures highly diluted with CO₂. *Energy & Fuels*. 2013, 27(10): 6231-6237.

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