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发布时间: 2020-12-28 17:25:27 编辑: 点击: [2225]



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教育经历:

2010/09-2015/12, 上海交通大学, 机械与动力工程学院, 博士

2006/09-2010/07, 山东大学, 能源与动力工程学院, 学士

工作经历:

2020/12-至今, 山东大学, 能源与动力工程学院, 研究员

2017/05-2020/10, 英国巴斯大学, 机械工程学院, Research Associate

2016/01-2017/04, 上海交通大学, 机械与动力工程学院, 博士后

研究方向:

- (1) 余热回收及高效、低排放柴油机技术;
- (2) 车用混合动力低碳内燃机技术。

学术兼职:

长期担任“Energy”, “AppliedEnergy”等SCI期刊以及SAE等会议审稿人。

主持或参加主要科研项目:

主持国家自然科学基金青年基金一项, 参与多个工信部、国防科工局项目, 以及多个英国APC和工业界项目。

代表性论文

- (1) **Zhu S, Zhang K, Deng K.** A review of waste heat recovery from the marine engine with highly efficient bottoming power cycles [J] *Renewable & Sustainable Energy Reviews*(**IF: 12.11**), 2020, 120: 109611.
- (2) **Zhu S, Ma Z, Zhang K, Deng K.** Energy and exergy analysis of the combined cycle power plant recovering waste heat from the marine two-stroke engine under design and off-design conditions [J]. *Energy*(**IF: 6.082**), 2020, 118558.
- (3) **Zhu S, Ma Z, Zhang K, Deng K.** Energy and exergy analysis of a novel steam injected turbocompounding system applied on the marine two-stroke diesel engine [J] *Energy Conversion and Management*(**IF: 8.208**), 2020, 221: 113207.
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- (5) **Zhu S, Hu B, Akehurst S, et al.** A review of water injection applied on the internal combustion engine[J]. *Energy Conversion and Management*(**IF: 8.208**), 2019, 184: 139-158.
- (6) **Zhu S, Liu S, Qu S, et al.** Thermodynamic and experimental researches on matching strategies of the pre-turbine steam injection and the Miller cycle applied on a turbocharged diesel engine[J]. *Energy*(**IF: 6.082**), 2017, 140: 488-505.
- (7) **Zhu S, Deng K, Liu S, et al.** Comparative analysis and evaluation of turbocharged Dual and Miller cycles under different operating conditions[J]. *Energy*(**IF: 6.082**), 2015, 93: 75-87.
- (8) **Zhu S, Deng K, Liu S.** Modeling and extrapolating mass flow characteristics of a radial turbocharger turbine[J]. *Energy* (**IF: 6.082**), 2015, 87: 628-637.
- (9) **Zhu S, Deng K, Qu S.** Thermodynamic analysis of an in-cylinder waste heat recovery system for internal combustion engines[J]. *Energy*(**IF: 6.082**), 2014, 67: 548-556.
- (10) **Zhu S, Deng K, Qu S.** Energy and exergy analyses of a bottoming Rankine cycle for engine exhaust heat recovery[J]. *Energy* (**IF: 6.082**), 2013, 58: 448-457.

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- (12) Yuan H, Giles K, **Zhu S**, et al. Kinetic modelling of combustion in a spark ignition engine with water injection [J]. *Fuel* (**IF: 5.578**), 2020, 118814.

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