

HANG HU

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✉ kitchensong@gmail.com

EDUCATION

Huazhong University of Science and Technology (HUST), 2011.09-present

Major: Thermal Energy and Power Engineering

Degree: Bachelor of Engineering, expected 2015.06

Overall GPA: 92.2/100 Overall Rank: 1/366

Standardized Tests

TOFEL: 107 (R29 L30 S23 W25)

GRE: V152+Q170+AW4.0

RESEARCH EXPERIENCE

Research on coupling between different phonon modes in graphene

2014.09-present

Advisor: Prof. Nuo Yang, Dr. Meng An *Nano Heat Group*

- Built an model to manipulate in-plane/out-of-plane temperature gradient
- Investigated coupling between different phonon modes (TA, LA and ZA) and their contributions to thermal conductivity

Research on modulation of thermal conductivity in folded graphene

2013.11-present

Advisor: Prof. Nuo Yang *Nano Heat Group*

- Independently wrote FORTRAN code of nonequilibrium molecular dynamics
- Designed innovative structure to reduce the thermal conductivity significantly
- Obtained size-independent thermal conductivity that characterizes large-area folded graphene's thermal properties

Research on the temperature and flow field analysis of sapphire crystal growth

2013.08-2013.11

Advisor: Prof. Haisheng Fang *Multiscale Process Modeling Lab*

- Comprehensively investigated varied flow fields' influence on sapphire growth
- Used Discrete Phase Model to investigate the distribution of inert impurities
- Simplified the complex system and found a new way to improve sapphire's quality

Team leader on designing the device utilizing wave energy in small watersheds

2013.05-2013.08

Advisor: Prof. Jun Xiang

- Designed the innovative machine to harvest small wave energy
- Successfully optimized the structure by modeling and effectively improved the energy conversion efficiency
- Made the prototype of the device

PATENT

Q.C. Song et al, 'An electricity generating device by utilizing small wave energy' (CN201420634269.0)

HONORS AND AWARDS

Warren M. Rohsenow Fellowship

2015-2016

Awarded by Department of Mechanical Engineering, MIT

National Scholarship (Three times)

2012,2013,2014

Top 1% among all competitors, awarded by Ministry of Education of PRC

Outstanding Student of Huazhong Univ. of Sci. & Tech.

2012-2014

Top 1% among all 2nd & 3rd year students, one of the top honor for undergraduates

Excellent Award in the 3rd National Water Resource Innovation Design Competition

2013.07

INTERNSHIP EXPERIENCE

Summer Intership at Shangu Power Co.,Ltd., Xi'an

2014.06

- Learned details of manufacturing process of tail gas turbine
- Systematically learned the CFD computation methods for turbine design

COMPUTER SKILLS

FORTRAN90(MPI), C++, Fluent, AutoCAD, MATLAB/Simulink, \LaTeX