Qichen Song

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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

Standard Tests

TOFEL: 107 (R29 L30 S23 W25) GRE: V152+Q170+AW4.0

RESEARCH EXPERIENCE

Research on coupling between different phonon modes in graphene

Nano Heat Group

2014.09-present

- Advisor: Prof. Nuo Yang, Dr. Meng An • Manipulating in-plane and out-of-plane temperature gradient separately
- Investigating coupling between different phonon modes (TA, LA and ZA) and their contributions to thermal conductivity

Research on modulation of thermal conductivity in folded graphene

2013.11-2014.09

Advisor: Prof. Nuo Yang

- Nano Heat Group
- Independently wrote code of nonequilibrium molecular dynamics (NEMD)
- 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 Multiscale Process Modeling Lab

2013.08-2013.11

Advisor: Prof. Haisheng Fang

- · 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 Advisor: Prof. Jun Xiang

2013.05-2013.08

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

PATENT

Q.C. Song et al, "An electricity generating device by utilizing small wave energy" (submitted 2014)

Honors and Awards

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

Merit Student (Three times)

2012,2013,2014

Top 4% among all competitors, issued by HUST

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 calculation methods for turbine design

COMPUTER SKILLS