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## 刘林华

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### 刘林华, 博士, 长江学者特聘教授

#### 荣誉称号

2000年第七届霍英东青年教师基金获得者

2004年度国家杰出青年基金获得者

2004年度黑龙江省杰出青年基金获得者

2007年聘为长江学者特聘教授

2009年入选新世纪百千万人才国家级人选

2010年获黑龙江省“五四”奖章

### **教育经历**

1984.08-1988.07: 哈尔滨工业大学, 热能工程专业, 本科生

1994.03-1996.12: 哈尔滨工业大学, 工程热物理专业, 博士研究生

2003.11-2004.01: 加拿大多伦多大学, 高级访问学者

2012.09-2012.10: 美国佛罗里达理工学院, 高级访问学者

### **工作经历**

1989.07-1994.03: 上海发电设备成套设计研究所, 助理工程师

1997.01-1998.07: 哈尔滨工业大学, 能源科学与工程学院, 讲师

1998.08-2001.07: 哈尔滨工业大学, 能源科学与工程学院, 副教授

2001.08-2010.01: 哈尔滨工业大学, 能源科学与工程学院, 教授

2003.01-2003.02: 日本北海道大学, 访问教授

2010.02-2011.05: 哈尔滨工业大学, 研究生院副院长、培养处处长

2011.06-2017.12: 哈尔滨工业大学, 能源科学与工程学院, 教授

2018.01-----至今: 山东大学(青岛), 能源与动力工程学院, 教授

### **主要兼职**

教育部长江学者发展计划“红外热辐射特性及其传输机理”创新团队负责人

国务院学位委员会第七届学科评议组成员

国际期刊 (Elsevier出版社) Journal of Quantitative Spectroscopy & Radiative Transfer, Associate Editor

国际期刊 (美国Begell House) Heat Transfer Research, Associate Editor

Member of the Scientific Council of the International Centre for Heat and Mass Transfer (ICHMT)

中国航空学会动力分会燃烧与传热专业委员会委员

### **主要研究方向**

1) 吸收散射介质内光/热辐射传输机理及数值模拟

2) 微尺度热物理过程及能量输运机制

3) 高温弥散介质非平衡热辐射输运机制

- 4) 凝聚态物质光学特性的理论建模与实验测量
- 5) 材料光学、电学、热学特性的第一性原理模拟

### 科研获奖

2009年获国家自然科学基金二等奖1项（获奖项目名称：红外热辐射光谱特性与传输机理研究；获奖人及排序：谈和平，刘林华，夏新林，阮立明，余其铮）。

### 专著

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### 近期代表性论文

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3. Liu YB, Qiu J, Zhao JM, Liu LH. General design method of ultra-broad band perfect absorbers based on magnetic polaritons. **Optics Express** 2017, 25(20): A980-A989.
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联系邮箱: liulinhua@sdu.edu.cn

上一条: 白书战 下一条: 程世庆

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地址：济南市经十路17923号 邮编：250061 电话：0531-88392701 传真：0531-88392701 [网站管理]