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## 刘云飞

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刘云飞，男，南京林业大学信息科学技术学院教授、博士、博士生导师。

现任南京林业大学信息科学技术学院党委书记、测试与控制技术研究所所长，曾任南京林业大学信息科学技术学院副院长、院长等职。兼任中国林学会林业计算机应用分会副主任，江苏省农业自动化分会副主任，全国高等院校计算机基础育研究会农林类专业委员会委员。

研究方向：林木无损检测、林业物联网技术、微波与光学技术。

## 科研成果

## 论文

1. Fang Wang, Dongbo Zhao, Hao Dong, Ling Jiang, Lin Huang, Yunfei Liu\* , Shuhua Li, THz spectra and corresponding vibrational modes of DNA base pair cocrystals and polynucleotides, *Spectrochimica Acta Part A: Molecular and Biomolecular, Spectroscopy*, Available online 15 April 2018, <https://doi.org/10.1016/j.saa.2018.04.024> (SCI 2区)
2. Fang Wang, Dongbo Zhao, Hao Dong, Ling Jiang, Yunfei Liu\*, Shuhua Li\*, Terahertz spectra of DNA nucleobase crystals: A joint experimental and computational study, *Spectrochimica Acta Part A: Molecular and Biomolecular, Spectroscopy*, Vol. 179, pp.255 - 260, 2017 (SCI 2区)
3. Fang Wang, Dongbo Zhao, Ling Jiang, Li Xu, Haijun Sun, Yunfei Liu\*, A comparative study on the experimental and calculated results of mid-infrared and Raman vibrational modes of nucleic acid bases, *Journal of Molecular Graphics and Modelling*, Vol.74, pp. 305 - 314, 2017 (SCI 4区)
4. Haifeng Lin, Xiaoyu Liu, Xinyue Wang, and Yunfei Liu\*, A fuzzy inference and big data analysis algorithm for the prediction of forest fire based on rechargeable wireless sensor networks, *Sustainable Computing: Informatics and Systems*, Available online 20 May 2017 (SCI 4区)
5. Feng Xu, Xiping Wang\*, Marko Teder, Yunfei Liu\*, Acoustic Impact Testing and Waveform Analysis for Damage Detection in Glued Laminated Timber, *Holzforschung-International Journal of the Biology, Chemistry, Physics and Technology of Wood*, Available online June 2017 (SCI 3区)
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10. Peiwen Meng, Kiyotoshi Yasumoto, Yunfei Liu, Surface plasmon resonant scattering in metal-coated dielectric nanocylinders, *Optics Communications*, Vol. 32, No. 4, pp. 18 – 24, 2014
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12. Yasumoto, K., Jandieri, V., Yunfei Liu, Coupled-mode formulation of two-parallel photonic-crystal waveguides, *Journal of the Optical Society of the American A*, Vol. 30, Issue 1, pp. 96–101, 2013
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#### 专利

1. 森林环境因子远程监测系统, 发明专利, ZL 201410027793.6
2. 一种基于物联网的环境监测分站及设计方法, 发明专利, ZL 201110216309.0
3. 基于MSP430单片机的手持式林业环境检测仪, 实用新型专利, ZL 201220297157.1
4. 人工林物联网可视化系统软件V1.0, 计算机软件著作权, 2013SR134461

#### 科研课题与项目

- 1、植物线虫太赫兹特征光谱及其无标记基因识别研究 (国家自然科学基金, 主持, 2012-)
- 2、基于太赫兹光谱的松材线虫病诊断技术研究 (国家自然科学基金, 主持, 2008-)
- 3、纤维植物细胞壁结构的结晶学分析 (国家自然科学基金, 主持, 2003-)
- 4、基于WSN的中山陵风景区生态环境智能监测研究 (江苏省第七批“六大人才高峰”项目, 主持, 2008-)
- 5、智能环境监测示范, 江苏智能环保物联网示范工程子课题 (江苏省经济和信息化委员会, 主持,

2011-)

6、竹材细胞壁构造的理论分析（江苏省高校自然科学基金，主持，2002-）

7、刨花干燥管道内自动探火装置的研制（林业部“八五”攻关项目子课题，主持，1998-）

8、林业物联网研发及其信息类专业教学平台建设（中地共建项目，主持，2013-）

社会服务与学术活动

1、International Journal of Computer Science and Technology 编委

2、南京林业大学（自然科学版）编委

获奖情况

1、江苏省“六大人才高峰”人才，江苏省政府，2010年。

联系方式

邮 箱：lyf@njfu.edu.cn

办公电话：025-85427693

通讯地址：江苏省南京市龙蟠路159号 南京林业大学信息科学技术学院（210037）

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地址：南京市龙蟠路159号南京林业大学教学10楼 邮编：210037

电话：025-85427687（院办） Email: it@njfu.edu.cn 苏ICP备09031019号 网站制作维护：南京信凯科技有限公司