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## 基本信息



李继山，现为湖南大学化学化工学院、化学生物传感与计量学国家重点实验室教授、博士生导师。2000年于湖南大学获化学学士学位，2006年获理学博士学位。2006年12月学河滨分校化学系从事博士后研究。2009年6月受聘为湖南大学化学化工学院副教授，2014年8月晋升为教授。主要从事化学与生物传感技术研究。已发表科研论文90余篇次，H指数27。获得“湖南省优秀博士论文”（2009年），“新世纪优秀人才支持计划”（2013年），教育部自然科学一等奖（第四完成人），湖南省自然科学杰出青年奖等。主持和作为主要成员承担了国家自然科学基金青年/面上基金项目，国家自然科学基金重点项目，重大仪器研制项目等多项科研项目。

## 教育背景

1996.9-2000.6 湖南大学，化学 本科

2000.9-2006.9 湖南大学，分析化学 博士（硕博连读）

## 工作履历

2006.12-2009.3 University of California-Riverside（加州大学河滨分校） 博士后，合作导师：钟文婉

2009.3-2014.7 湖南大学化学化工学院 副教授

2015.3-2015.10 University of California-Riverside（加州大学河滨分校） 访问学者，合作导师：殷业东

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## RESEARCH

生物医学成像研究 (有机分子探针/无机纳米探针用于SERS, 上转换荧光及MRI成像研究); 肿瘤标志物的超灵敏光电检测方法研究

## 科研项目

国家自然科学基金面上项目, 21775035, 新型上转换荧光纳米探针的构建及肝缺血再灌注损伤药物保护机制的研究, 2018/01-2021/12, 在研, 主持。

国家自然科学基金面上项目, 21475036, 基于核酸适配体的卵巢癌循环肿瘤细胞超灵敏电化学检测新方法研究, 2015/01-2018/12, 在研, 主持。

国家自然科学基金重大科研仪器研制项目, 21527810, 数字滚环扩增生物分析的分子成像计数装置研究, 2016/01-2020/12, 在研, 参加。

## 学术成果

Selected Publications: \*(Corresponding Author)

(1) Yanmei Si; Yaocai Bai; Xiaojie Qin; Jun Li; Wenwan Zhong; Zhijun Xiao; **Jishan Li\***; Yadong Yin. Alkynes-DNA-Functionalized Alloyed Au/Ag Nanospheres for Ratiometric SERS Imaging of Endonuclease Activity in Live Cells. *Analytical Chemistry*, **2018**, 10.1021/acs.analchem.7b04735

(2) Wang, Ningning; Yu, Xinyan; Zhang, Ke\*; Mirkin, Chad A.\*; **Li, Jishan\***. Upconversion Nanoprobes for the Ratiometric Luminescent Sensing of Nitric Oxide. *The American Chemical Society*, **2017**, 139(36):12354~12357.

(3) Ge, Qingshan; Wang, Ningning; **Li, Jishan\***; Yang, Ronghua. Peptide-fluorophore/AuNP conjugate-based two-photon excited fluorescent nanosensor for activity imaging assay in living cells and tissue. *MedChemComm*, **2017**, 8(7): 1435~1439.

(4) Peng, Ruiying; Si, Yanmei; Deng, Ting; Zheng, Jing; **Li, Jishan\***; Yang, Ronghua; Tan, Weihong. A novel SERS nanoprobe for the ratiometric imaging of hydrogen peroxide in living cells. *Chemical Communications*, **2016**, 52(55): 8553~8556.

(5) Tang, Qiao; Wang, Ningning; Zhou, Fulin; Deng, Ting; Zhang, Songbai; **Li, Jishan\***; Yang, Ronghua; Zhong, Wenwan; Tan, Weihong. A novel AgNP conjugate-based two-photon nanoprobe for GSH imaging in cell apoptosis of cancer tissue. *Chemical Communications*, **2015**, 51(94): 16810~16812.

(6) Mei Yi; Sheng Yang; Zanying Peng; Changhui Liu; Zhong, Wenwan; **Jishan Li\***; Ronghua Yang; Weihong Tan. Two-Photon Graphene Oxide/Aptamer Conjugate for In Vitro or In Vivo Molecular Probing. *Analytical Chemistry*, **2014**, 86: 3548~3554.

(7) Ma, Cheng; Bian, Tong; Yang, Sheng; Liu, Changhui; Zhang, Tierui; Yang, Jinfeng; Li, Yinhui; **Li, Jishan\***; Yang, Ronghua; Tan, Weihong. Fabrication of Cyclodextrin-Functionalized Upconversion Luminescence Nanoplatform for Biomedical Imaging. *Analytical Chemistry*, **2014**, 86(13): 6508~6515.

(8) Huijuan Yan; Leiliang He; Wenjie Zhao; **Jishan Li\***; Yue Xiao; Ronghua Yang\*; Weihong Tan. Poly  $\beta$ -Cyclodextrin/TPDye Nanomicelle-based Two-Photon Nucleosome Activation Imaging in Live Cells and Tissues. *Analytical Chemistry*, **2014**, 86(18): 11440~11450.

(9) Yan, Huijuan; He, Leiliang; Ma, Cheng; **Li, Jishan\***; Yang, Jinfeng; Yang, Ronghua\*; Tan, Weihong. Poly beta-cyclodextrin inclusion-induced formation of two-photon fluorescent nanomicelles for biomedical imaging. *Chemical Communications*, **2014**, 50(61): 8398~8401.

(10) Liu, Mingli; Tang, Qiao; Deng, Ting; Yan, Huijuan; **Li, Jishan\***; Li, Yinhui; Yang, Ronghua. Two-photon AgNP/DNA-TP dye nanosensing conjugate for biotinylation imaging in live cells. *Analyst*, **2014**, 139(23): 6185~6191.

(11) Tang, Qiao; Zhang, Qier; Jiang, Ying; **Li, Jishan\***; Zheng, Jing; Li, Yinhui; Yang, Ronghua\*; Tan, Weihong. Competitive Assembly To Increase the Performance of DNA/Carbon-Nanomaterial-Based Sensing Platform. *ACS Applied Materials & Interfaces*, **2014**, 6(16): 13470~13477.

(12) Li, Juanping; Yang, Sheng; Zhou, Wenyu; Liu, Changhui; Jia, Yuhua; Zheng, Jing; Li, Yinhui; **Li, Jishan\***; Yang, Ronghua\*. A gold nanocarrier and DNA-metal complex based sensing ensemble for fluorescent assay of thiol-containing amino acids and peptides. *Chemical Communications*, **2013**, 49(72): 7932~7934.

(13) **Li, Jishan\***; Jia, Yuhua; Zheng, Jing; Zhong, Wenwan; Shen, Guoli; Yang, Ronghua\*; Tan, Weihong. Aptamer degradation inhibition combined with DNAzyme based signal amplification for colorimetric detection of proteins. *Chemical Communications*, **2013**, 49(55): 6137~6139.

(14) Ouyang, Xiangyuan; Liu, Jinhua; Yang, Ronghua\*; **Li, Jishan\***. A carbon nanoparticle-based low-background biosensing platform for sensitive and label-free fluorescent assay of DNA methylation. *Chemical Communications*, **2012**, 48(1): 88~90.

(15) Jiao, Anli; Zheng, Jing; Hu, Yaping; Zhu, Guizhi; **Li, Jishan\***; Li, Huimin\*; Yang, Ronghua\*; Tan, Weihong. Hybridization-triggered isothermal signal amplification coupled with MutS for label-free and sensitive fluorescent assay of SNPs. *Chemical Communications*, **2012**, 48(45): 5659~5661.

(16) **Li, Jishan**; Zhou, Wenyu; Ouyang, Xiangyuan; Yu, Huan; Yang, Ronghua\*; Tan, Weihong; Yuan, Jingli. Design of a Room-Temperature Phosphorescence-Triggered Molecular Beacon for Highly Sensitive Detection of Nucleic Acids in Biological Fluids. *Analytical Chemistry*, **2011**, 83(4): 1356~1362.

(17) Ouyang, Xiangyuan; Yu, Ruqin; Jin, Jianyu; **Li, Jishan\***; Yang, Ronghua\*; Tan, Weihong; Yuan, Jingli. New Strategy for Label-Free and Time-Resolved Luminescence Assay of Protein: Conjugate Eu<sup>3+</sup> Complex and Aptamer-Wrapped Carbon Nanotubes. *Analytical Chemistry*, **2011**, 83(3): 782~789.

(18) Xu, Yunyao; Deng, Li; Wang, Hao; Ouyang, Xiangyuan; Zheng, Jing; **Li, Jishan\***; Yang, Ronghua\*. Metal-induced aggregation of mononucleotides-stabilized nanoparticles: an efficient approach for simple and rapid colorimetric detection of Hg(II). *Chemical Communications*, **2011**, 47(21): 6039~6041.

(19) **Li, Jishan**; Deng, Ting; Chu, Xia\*; Yang, Ronghua\*; Jiang, Jianhui; Shen, Guoli; Yu, Ruqin. Rolling Circle Amplification Combined with Gold Nanoparticle A Highly Sensitive Identification of Single-Nucleotide Polymorphisms. *Analytical Chemistry*, **2010**, 82(7):2811~2816.

(20) **Jishan Li**; Tierui Zhang; Jianping Ge; Yadong Yin; Wenwan Zhong\*. Fluorescence signal amplification by cation exchange in ionic nanocrystals. *Angewandte International Edition*, **2009**, 48(9): 1588~1591.

(21) **Jishan Li**; Jingjing Yao; Wenwan Zhong\*. Membrane blotting for rapid detection of mercury(II) in water. *Chemical Communications*, **2009**, 33:4962~4964.

(22) **Li, Jishan**; Schachermer, Samantha; Wang, Yan; Yin, Yadong; Zhong, Wenwan\*. Detection of MicroRNA by Fluorescence Amplification Based on Cation Nanocrystals. *Analytical Chemistry*, **2009**, 81(23):9723~9729.

(23) **Li, Jishan**; Jiang, Jian-Hui\*; Xu, Xiang-Min; Chu, Xia; Jiang, Cheng; Shen, Guoli\*; Yu, Ru-Qin. Simultaneous identification of point mutations via DNA ligase gold nanoparticle assembly. *Analyst*, **2008**, 133(7):939~945.

(24) **Jishan Li**; Jianping Ge; Yadong Yin; Wenwan Zhong\*. Multiplexed affinity-based protein complex purification. *Analytical Chemistry*, **2008**, 80(18): 7068~7072.

(25) **Jishan Li**; Wenwan Zhong\*. Typing of Multiple Single-Nucleotide Polymorphisms by a Microsphere-Based Rolling Circle Amplification Assay. *Analytical Chemistry*, **2007**, 79(23): 9030~9038.

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 奖励与荣誉

湖南省自然科学杰出青年基金(2016年)

教育部新世纪优秀人才(2013年)

教育部自然科学一等奖(2012年)

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