



北京林业大学

材料科学与技术学院

College of Materials Science and Technology

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2023年6月2日 13:57:32 大同 6~25°C 西北风

师资队伍

人才计划

教授

副教授

讲师

实验教师

兼职教员

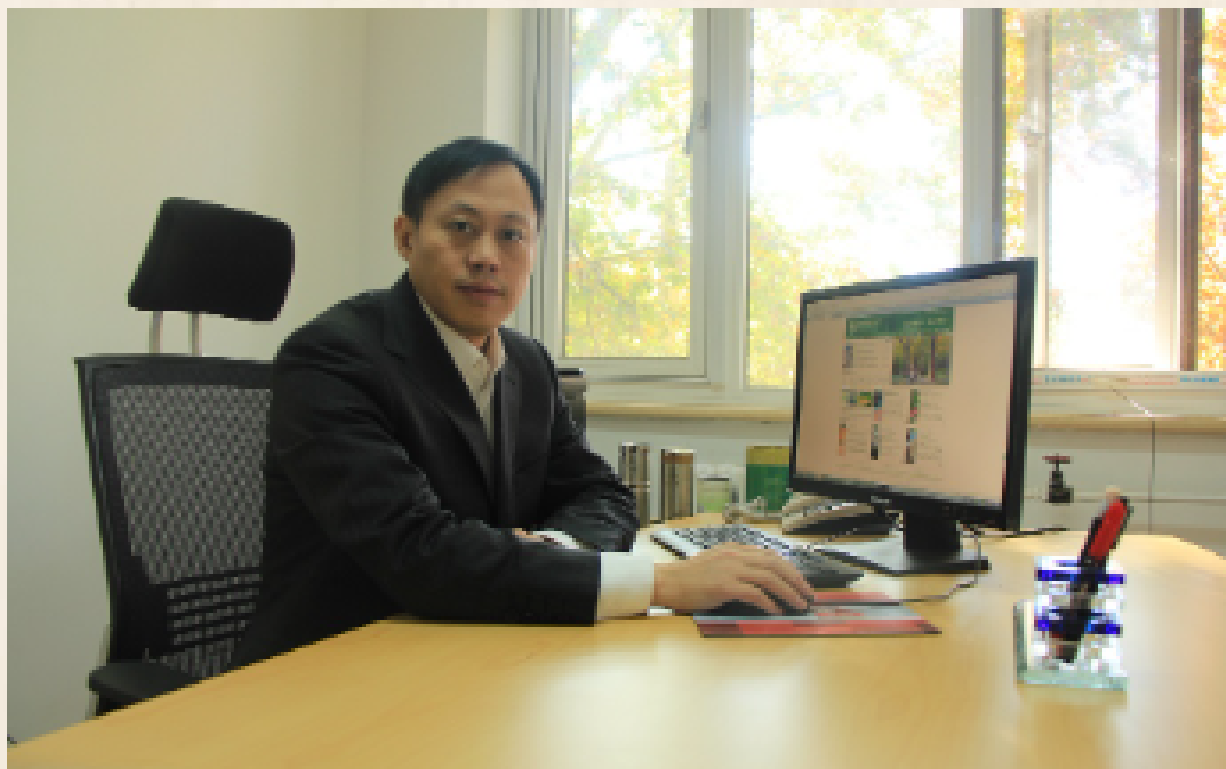
党团行政

退休教员

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雷建都

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雷建都 教授、博士生导师

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研究方向: 纳米药物与功能材料

详细资料

教育/工作经历

2012-现在, 北京林业大学材料科学与技术学院, 教授
2004-2012, 中国科学院过程工程研究所, 助研、副研、研究员
2002-2004, 清华大学化学系, 博士后
1999-2002, 北京化工大学化学工程系, 博士

主讲课程

本科生课程《天然药物工程》、林化课程设计和《林化综合实习》;
研究生课程《生物技术概论》、《纳米技术概论》

科研工作及成果

主要从事生物药物制备、化学修饰及制剂化工程研究; 纳米生物材料的设计、构建与应用; 新型分离分析介质的设计、合成。在 Nature Nanotechnology (IF 38.986, 封面)、Nano Letters (IF 13.779)、ACS Appl Mater & Interfaces (IF 7.504)、Journal of Membrane Science (IF 6.035) 等国际著名期刊上发表论文约70多篇, 其中SCI收录50多篇。申请中国发明专利50多件, 其中授权专利11件。出版译著《纳米生物技术: 概念、应用和前景》(第 8-14章); 参加撰写专著《聚乙二醇修饰药物: 概念、设计和应用》(第5章: 聚乙二醇-生物大分子偶联物的分析与质量鉴定); 参与编写《生化分离介质的制备与应用》图书。主持过国家重点研发计划项目课题、国家863项目、国家自然科学基金等项目。作为研究小组负责人, 与企业合作, 获得药物临床批件1项(已通过临床I期研究)。获中国分析测试协会科学技术奖二等奖(省部级, 排名第1)1项。

奖励及荣誉称号

获中国分析测试协会科学技术奖二等奖(省部级, 排名第1)

学术/社会兼职

任Nature集团旗下期刊Scientific Report编委委员

学术成果展示(不超30个)

- Ge J[#], Lei JD[#], Zare RN. Protein-inorganic hybrid nanoflowers. *Nature Nanotechnology*, 2012, 7, 428-432. [#]共同第1作者(Equal contribution), (IF 38.986, 引用316次); Cover story (封面文章), 被美国Science选为ScienceShot报道, 并被美国著名科学家夏幼南教授等在Nature Nanotechnology 期刊上撰文进行新闻和亮点评述(News & Views).
- Wang LY; Fang MQ; Liu J; He J; Li JD; Lei JD*. Layer-by-Layer Fabrication of High-Performance Polyamide/ZIF-8 Nanocomposite Membrane for Nanofiltration Applications. *ACS Applied Materials & Interfaces*, 2015, 7(43): 24082-24093.
- Liu Yanxue, Qi Qi, Li Xiaomin, Liu Jing, Wang Luying, He Jing, Lei Jiandu(*). Self-Assembled Pectin-Conjugated Eight-Arm Polyethylene Glycol-Dihydroartemisinin Nanoparticles for Anticancer Combination Therapy. *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*, 2017, 9, 5 (9) : 8097-8107.
- Dai L, Li D, Cheng J, Liu J, Deng LH, Wang LY, Lei JD* and He J. Water soluble multiarm-polyethylene glycol-betulinic acid prodrugs: design, synthesis, and in vivo effectiveness. *Polymer Chemistry*, 2014, 5, 5775-5783.
- Dai L, Yang TY, He J, Deng LH, Liu J, Wang Luying, Lei JD*, Wang LY. Cellulose-graft-poly(L-lactic acid) nanoparticles for efficient delivery of anti-cancer drugs. *Journal of Materials Chemistry B*, 2014, 2: 6749-6757.
- Liu J, He J, Wang LY; Li R; Chen P; Rao X; Deng LH; Rong L; Lei JD*. NiO-PTA supported on ZIF-8 as a highly effective catalyst for hydrocracking of Jatropa oil. *SCIENTIFIC REPORTS*, 2016, 6: 23667.
- Kefeng Liu, Lin Dai, Chunxiao Li, Jing Liu, Luying Wang and Jiandu Lei*. Self-assembled targeted nanoparticles based on transferrin-modified eight-arm-polyethylene glycol-dihydroartemisinin conjugate. *SCIENTIFIC REPORTS*, 2016, 6: 29461.
- Dai L; Liu KF; Si CL; Wang LY; Liu J; He J; Lei JD*. Ginsenoside nanoparticle: a new green drug delivery system. *JOURNAL OF MATERIALS CHEMISTRY B*, 2016, 4(3): 529-538.
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- Liu, Jing; Chen, Pan; Deng, Lihong; He, J; Wang, LY; Rong, L; Lei, JD*. A Non-sulfided flower-like Ni-PTA Catalyst that Enhances the Hydrotreatment Efficiency of Plant Oil to Produce Green Diesel. *SCIENTIFIC REPORTS*, 2015, 5: 15576.
- Liu, J; Lei, JD*; He, J; Deng, LH; Wang, LY; Fan, K; Rong, L. Hydroprocessing of Jatropa Oil for Production of Green Diesel over Non-sulfided Ni-PTA/Al2O3 Catalyst. *SCIENTIFIC REPORTS*, 2015, 5: 11327.
- Dai L; Liu KF; Si CL; He J; Lei JD*; Guo, LQ. A novel self-assembled targeted nanoparticle platform based on carboxymethylcellulose co-delivery of anticancer drugs. *JOURNAL OF MATERIALS CHEMISTRY B*, 2015, 3(32): 6605-6617.
- Dai L, Cao X, Liu KF, Li CX, Zhang GF, Deng LH, Si CL, He J and Lei JD*. Self-assembled targeted folate-conjugated eight-arm-polyethylene glycol-betulinic acid nanoparticles for co-delivery of anticancer drugs. *Journal of Materials Chemistry B*, 2015, 3: 3754-3766.
- Dai L, Wang LY, Deng LH, Liu J, Lei JD*, Li D, He J. Novel multiarm polyethylene glycol-dihydroartemisinin conjugates enhancing therapeutic efficacy in non-small-cell lung cancer. *Scientific Reports*. 2014, 4: 5871.
- Liu J, Chen P, He J, Deng LH, Wang LY, Lei JD*, Rong L. Extraction of oil from Jatropa curcas seeds by subcritical fluid extraction. *Industrial Crops and Products*, 2014, 62: 235-241.
- Ge J, Lei JD, Zare RN. Bovine serum albumin-poly(methyl methacrylate) nanoparticles: an example of frustrated phase separation. *Nano Letters*, 2011, 11(6):2551-2554.
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- Zhai YQ; Zhou WQ; Wei W; Qu JB; Lei JD*; Su, ZG; Ma, GH. Functional gigaporous polystyrene microspheres facilitating separation of poly(ethylene glycol)-protein conjugate. *Analytica Chimica Acta*. 2012, 712 (27) : 152-161.