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个人资料

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教育经历

2002—2007年，南开大学，凝聚态物理专业，理学博士；
1998—2002年，南开大学，应用光学和经济学专业，理学和经济学学士；

工作经历

2017-今，南开大学物理科学学院，副院长；
2015-今，南开大学泰达应用物理研究院，教授；
2013-2014年，美国圣路易斯华盛顿大学，访问学者；
2009-2015年，南开大学泰达应用物理学院，副教授；
2007-2009年，南开大学泰达应用物理学院，讲师。

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个人简介

薄方，南开大学，教授，物理科学学院副院长。2002年，南开大学，理学和经济学学士；2007年，南开大学，理学博士。2013年至2014年，美国圣路易斯华盛顿大学，访问学者。

近期主要从事铌酸锂微纳光子学研究，在片上光源，耦合、传输控制、非线性光学器件研究方面取得系列成果。实现了高品质因子二氧化硅-铌酸锂复合微腔，单晶、多晶、周期极化、稀土离子掺杂铌酸锂微腔的批量制备。对铌酸锂微腔共振波长的主动调控，热光效应，倍频、和频等非线性光学效应开展了系统研究。实现片上微盘、微环腔激光器。

迄今为止，在Phys. Rev. Lett.、Adv. Mater.等杂志上发表论文60余篇，SCI引用1100余次，h-index：21。与他人合著英文专著章节一章。主持重大项目课题2项，国家自然科学基金项目4项，其他项目5 项；参与国家重大科学研究计划、国家自然科学基金重点项目等十余项科研项目。

每年招收博士研究生2名、硕士研究生2-3名。欢迎对集成（微纳）光电子学器件及其应用感兴趣，拟从事微纳光学、非线性光学、激光物理、量子光学等方面研究的同学联系报考！

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研究方向

近期主要从事铌酸锂微纳光子学相关的研究。每年招收博士研究生2名、硕士研究生2-3名。欢迎对集成（微纳）光电子学器件设计、加工、测试和应用相关工作感兴趣，拟从事微纳光学、非线性光学、激光物理、量子光学等方面研究的同学联系报考！

科研项目：

[7] 92050111，掺镱LNOI微环腔光频率梳研究，国家自然科学基金重大研究计划项目培育项目，2021.01-2023.12，主持

[6] 2019YFA0705003，铌酸锂薄膜光子结构中的非线性效应与频率梳应用，国家重点研发计划项目课题，2019.12-2024.11，主持

[5] 11734009，铌酸锂晶体微腔中的非线性过程与调控研究，国家自然科学基金重点项目，2018.01-2022.12，参与（南开部分负责人）

[4] 11674181，基于铌酸锂微盘腔的窄带宽可调谐宣布式单光子源，国家自然科学基金面上项目，2017.01-2020.12，主持

[3] 11374165，微米尺寸铌酸锂晶体回音壁模式微腔的制备和光学非线性增强研究，国家自然科学基金面上项目，2014.01-2017.12，主持

[2] 10904077，利用法珀腔共振效应提高有机材料中慢光的相对延迟，国家自然科学基金青年项目，2010.01-2012.12，主持

[1] 200800551034，动态和静态光栅中光脉冲形变的抑制，教育部新教师基金项目，2009.01-2011.12，主持

代表性工作：

[5] 与孔勇发老师课题组合作，从晶体生长开始，制备铒离子掺杂LNOI微纳光学器件。基于铒离子掺杂LNOI平台实现了微盘腔激光器（Sci. China-Phys. Mech. & Astron., 64(3), 234263 (2021)）、微环腔激光器（Opt. Lett., 46(13), 3275 (2021)）、光波导放大器（Chin. Opt. Lett., 19(6), 60008 (2021)）和基于耦合微腔光学分子的单模激光器（Sci. China-Phys. Mech. & Astron., 64(9), 294216 (2021)）。

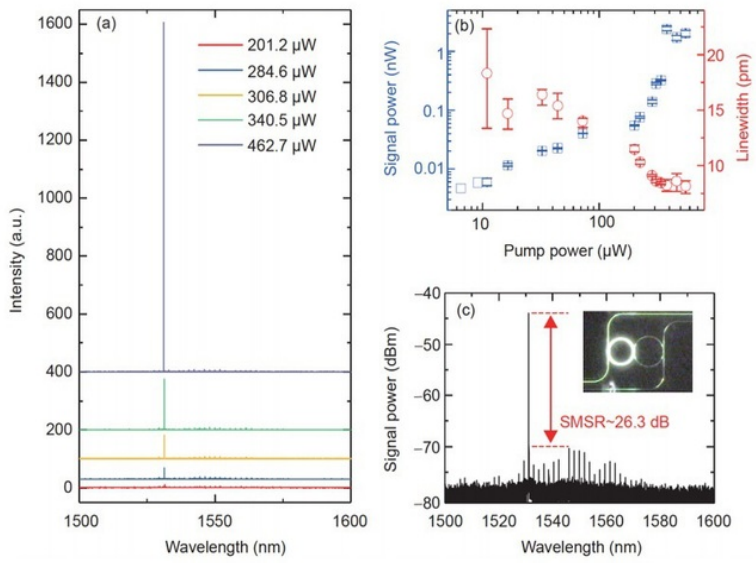

图5 LNOI单模激光器性能测试结果。

[4] 利用粒子群优化算法，设计高效率（89%/coupler）铌酸锂薄膜光栅耦合器。并利用电子束光刻是反应离子束刻蚀实现制备，TE（TM）模式耦合效率达到72%/coupler和62%/coupler，上述指标均为铌酸锂薄膜光栅耦合器效率最高值（Opt. Lett., 45, 6651 (2020)）。

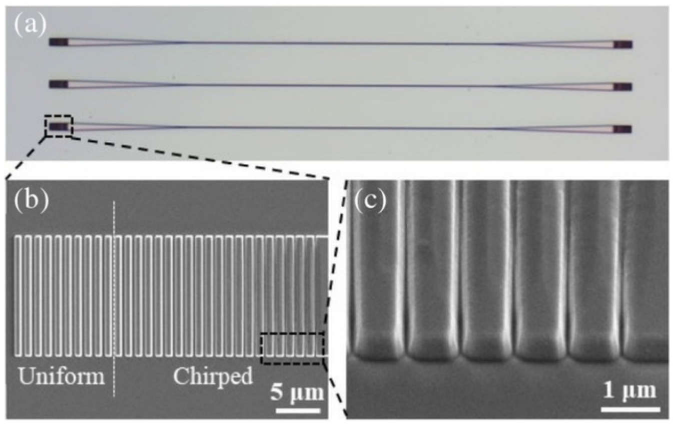

图4. LNOI光栅耦合显微图片。

[3] 利用光刻、刻蚀、化学机械抛光和基于原子力显微镜的畴极化技术，我们成功实现了品质因子1e5量级，单周期、双周期等周期极化铌酸锂微盘腔的制备(Photon. Res., 8, 311 (2020))，在其中实现铌酸锂最大二阶非线性系数d_{33}的使用和倍频、三倍频、四倍频等非线性过程。

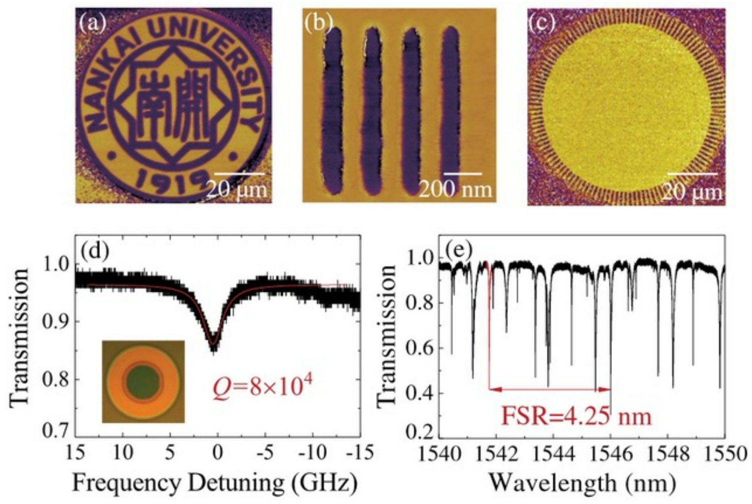

图3. 周期极化铌酸锂微腔的（a-c）显微镜图像和（d, e）透射谱。

[2] 利用激光脉冲沉积技术在二氧化硅盘形微腔上镀铌酸锂薄膜的办法，我们在无需后处理的情况下成功实现了1e5品质因子铌酸锂/二氧化硅复合微盘腔的制备(Adv. Mater. 27, 8075 (2015))，该工作提出了一种全新的从下到上的铌酸锂微腔制备方案。

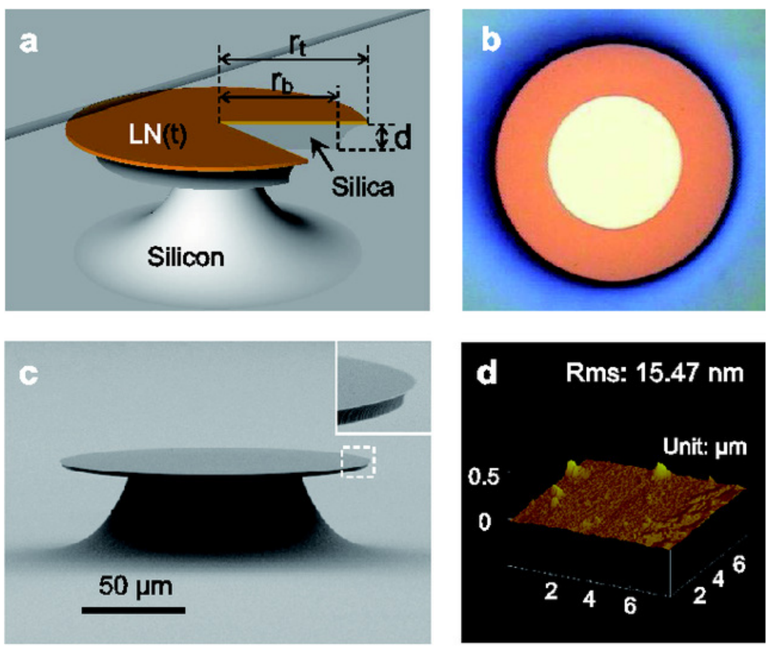

图3. 铌酸锂二氧化硅复合腔的（a）结构示意图、（b）光学显微镜图像、（c）扫描电子显微镜图像和（d）原子力显微镜图片。

[1] 在国际上首次实现了1e6以上品质因子的位于晶片上的铌酸锂微盘腔的批量制备，利用电光效应实现了微腔共振波长的主动调控(Opt. Express 23, 23072 (2015))；系统研究了单晶铌酸锂微盘腔内的热光效应，观察并解释了强光泵浦情况下，微腔透射谱的振荡效应(Opt. Express, 24, 21869 (2016))。

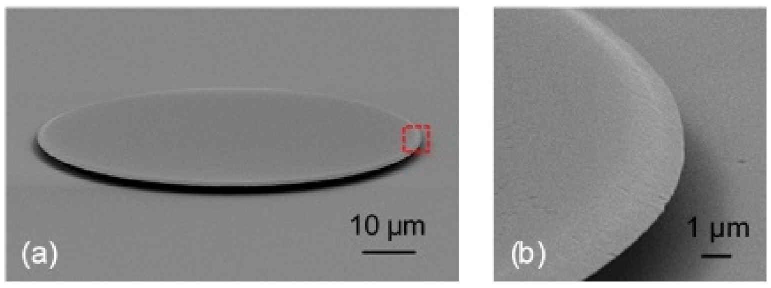

图1. 单晶铌酸锂微盘腔的（a）扫描电子显微镜图像与（b）其边缘的放大图像。

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研究成果

2022年

[64] X. Wu, L. Zhang, Z. Hao, R. Zhang, R. Ma, F. Bo*, G. Zhang*, and J. Xu*, Broadband second-harmonic generation in step-chirped periodically poled lithium niobate waveguides, Opt. Lett. 47, 1574-1577 (2022).

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[55] S. Kang#, R. Zhang#, Z. Hao, D. Jia, F. Gao, F. Bo*, G. Zhang*, J. Xu*, High-efficiency chirped grating couplers on lithium niobate on insulator, Opt. Lett., 45(24), 6651-6654 (2020) . (Editors' Pick)

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