

教职员工

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赵前程 助理教授

个人简历

赵前程，博士毕业于美国加州大学尔湾分校，曾就职于美国苹果公司，后任美国加州大学圣塔芭芭拉分校博士后研究员，于2021年加入南方科技大学深港微电子学院。赵前程长期从事硅光集成光电子器件的研究，拥有丰富的硅光芯片设计、加工和测封经验，研究领域主要包括：超低损耗片上互联、超高Q值谐振腔、激光稳定性、氮化硅集成光子器件等，在光通信集成芯片上有广泛应用。他已在国际学术期刊和会议上发表论文30余篇，包括Nature Communications, Optica, APL Photonics, Journal of Lightwave Technology, Optics Express等重要期刊，并编撰学术专著1部。

个人主页

招聘信息

赵前程课题组常年招聘博士后、科研助理，招收博士生、硕士生、本科实习生，有意应聘者请将简历（格式PDF）发送至以下邮箱，以“招聘岗位_应聘者姓名”为题。详情请查看 <https://liconlab.ac.cn/>。
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教育经历

2017年，美国加州大学尔湾分校，电子与计算机工程系，博士学位
2014年，美国加州大学尔湾分校，电子与计算机工程系，硕士学位
2012年，浙江大学，光学工程，学士学位，辅修工程教育高级班

工作经历

2021年9月至今，南方科技大学，助理教授
2019年6月至2021年6月，美国加州大学圣塔芭芭拉分校，博士后研究员

研究简介

集成光电子器件
片上激光稳频
光学微纳工艺

所获荣誉

Individualized Professional Skills Award, UC Santa Barbara, 2021
Broadcom Fellowship, Broadcom Foundation, 2014
Graduate Fellowship, UC Irvine, 2012
国家奖学金, 中国教育部, 2009

代表文章

集成光电子器件
Mohammad Wahiduzzaman Khan, Qiancheng Zhao, Parinaz Sadri-Moshkenani, Md Shafiqul Islam, and Ozdal Boyraz. "Graphene-incorporated plasmomechanical infrared radiation detection." JOSA B 37, no. 3 (2020): 774-783.
Qiancheng Zhao, Mohammad Wahiduzzaman Khan, Shiva Farzinazar, Jaeho Lee, and Ozdal Boyraz, "Plasmomechanical radiation detector with on-chip optical readout," Opt. Express 26, 29638-29650 (2018).
Qiancheng Zhao, Parinaz Sadri-Moshkenani, Mohammad Wahiduzzaman Khan, Rasul Torun and Ozdal Boyraz, "On-Chip Bimetallic Plasmomechanical Detectors for Mid-Infrared Radiation," in IEEE Photonics Technology Letters, vol. 29, no. 17, pp. 1459-1462, Sept.1, 1 2017.
Qiancheng Zhao, Caner Guclu, Yuewang Huang, Filippo Capolino, and Ozdal Boyraz. "Experimental Demonstration of Directive Si 3 N 4 Optical Leaky Wave Antennas with Semiconductor Perturbations." Journal of Lightwave Technology 34, no. 21 (2016).
Qiancheng Zhao, Caner Guclu, Yuewang Huang, Filippo Capolino, Regina Ragan, and Ozdal Boyraz. "Plasmon optical trapping using silicon nitride trench waveguides." JOSA B 33, no. 6 (2016): 1182-1189.
片上激光稳频
Qiancheng Zhao, Mark W. Harrington, Andrei Isichenko, Kaikai Liu, Ryan O. Behunin, Scott B. Papp, Peter T. Rakich, Chad W. Hoyt, Chad Fertig, and Daniel J. Blumenthal, "Integrated Reference Cavity with Dual-mode Optical Thermometry for Frequency Correction" , Optica, vol. 8, no. 11 (2021).
Qiancheng Zhao, Mark W. Harrington, Andrei Isichenko, Debapam Bose, Jiawei Wang, Kaikai Liu, Ryan O. Behunin, Peter T. Rakich, Chad W. Hoyt, Chad Fertig, and Daniel J. Blumenthal, "Silicon Nitride Bus-Coupled Spiral-Ring Resonator for Dual-Mode Locking Temperature Stabilization" , in OFC, Optical Society of America, 2021, paper Th4B.
Qiancheng Zhao, Mark W. Harrington, Andrei Isichenko, Grant M. Brodnik, Kaikai Liu, Ryan O. Behunin, Peter T. Rakich, Chad W. Hoyt, Chad Fertig, Scott B. Papp, and Daniel J. Blumenthal, "Laser Frequency Drift Stabilization using an Integrated Dual-Mode Locking Si3N4 Waveguide Reference Cavity" , in CLEO: Science and Innovations, Optical Society of America, 2021, paper STh2B.7.
Qiancheng Zhao, Ryan O. Behunin, Peter T. Rakich, Nitesh Chauhan, Andrei Isichenko, Jiawei Wang, Chad W. Hoyt, Chad Fertig, Mu hong Lin, and Daniel J. Blumenthal. "Low-loss Low Thermo-Optic Coefficient Ta2O5 on crystal quartz planar optical waveguides," APL Photonics 5.11 (2020): 116103. (Editor's Pick)

光学微纳工艺

Matthew Puckett, Kaikai Liu, Nitesh Chauhan, Qiancheng Zhao, Najun Jin, Haotian Cheng, Jianfeng Wu, Ryan O. Behunin, Peter T. Rakich, Karl D. Nelson, Daniel J. Blumenthal. "422 Million intrinsic quality factor planar integrated all-waveguide resonator with sub-MHz linewidth." Nat Commun 12, 934 (2021).
Nitesh Chauhan, Andrei Isichenko, Kaikai Liu, Jiawei Wang, Qiancheng Zhao, Ryan O. Behunin, Peter T. Rakich, Andrew M. Jayich, Chad Fertig, Chad W. Hoyt, and Daniel J. Blumenthal. "Visible light photonic integrated Brillouin laser" . Nat Commun 12, 4685 (2021)
Qiancheng Zhao, Jiawei Wang, Nitesh Chauhan, Debapam Bose, Najun Jin, Renan Moreira, Ryan Behunin, Peter Rakich, and Daniel Blumenthal, "Low-loss D-shape Silicon Nitride Waveguides Using a Dielectric Lift-off Fabrication Process" , in CLEO: Science and Innovations, Optical Society of America, 2020.

< 刘小龙

于洪宇 >

