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职称：特别研究员

研究方向：超快固体激光器

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个人简介：

谢国强，男，1979年9月生，上海交通大学物理系特别研究员。从1998年9月至2002年7月在东北大学物理系学习，获学士学位。从2002年9月开始在复旦大学光科学与工程系攻读博士学位，于2008年1月获理学博士学位。期间于2006年9月赴新加坡南洋理工大学光子学研究中心从事研究工作，先后任项目专员、研究员，直至2009年8月回国。2009年9月被上海交通大学引进为特别研究员。目前为上海交通大学物理系“极端强场激光物理”教育部创新团队主要成员之一。美国光学学会会员，上海激光协会会员。在Optics letters, Optics express等刊物上发表学术论文30余篇，近三年被SCIE源论文引用100余次。研究兴趣包括超快固体激光器、新型激光材料、高强度固体激光等。

研究方向介绍：

基于新型材料的超快固体激光器研究：研究内容涵盖1-3 μm 波段单晶、陶瓷、玻璃材料的超快激光性能研究。

啁啾脉冲光参量放大技术（OPCPA）研究：发展高能量和周期量级OPCPA技术，实现超快高强度激光。

研究成果（近3年主要论文）：

[G. Q. Xie](#), D. Y. Tang, L. M. Zhao, L. J. Qian, and K. Ueda, "High-power self-mode-locked Yb : Y2O3 ceramic laser," Opt. Lett. 32, 2741 (2007).

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[G. Q. Xie](#), D. Y. Tang, W. D. Tan, H. Luo, H. J. Zhang, H. H. Yu, and J. Y. Wang, "Sub-picosecond pulse generation from a Nd:CLNGG disordered crystal laser," Opt. Lett., 34, 103 (2009).

H. H. Yu, H. J. Zhang, Z. P. Wang, J. Y. Wang, Y. G. Yu, M. H. Jiang, D. Y. Tang, [G. Q. Xie](#), and H. Luo, "Passively mode-locked Nd : LuVO4 laser with a GaAs wafer," Opt. Lett. 33, 225 (2008).

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G. Q. Xie, D. Y. Tang, W. D. Tan, H. Luo, S. Y. Guo, H. H. Yu, and H. J. Zhang, "Diode-pumped passively mode-locked Nd:CTGG disordered crystal laser," *Appl. Phys. B-Lasers Opt.* 95, 691 (2009).

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G. Q. Xie, D. F. Zhang, L. J. Qian, H. Y. Zhu, and D. Y. Tang, "Multi-stage pulse compression by use of cascaded quadratic nonlinearity," *Opt. Commun.* 273, 207 (2007).

H. H. Yu, H. J. Zhang, D. Y. Tang, Z. P. Wang, J. Y. Wang, Y. G. Yu, G. Q. Xie, H. Luo, and M. H. Jiang, *Appl. Phys. B-Lasers Opt.* 91, 425 (2008).

D. Y. Tang, L. M. Zhao, G. Q. Xie, and L. J. Qian, "Coexistence and competition between different soliton-shaping mechanisms in a laser," *Phys. Rev. A* 75, 063810 (2007).

L. J. Qin, D. Y. Tang, G. Q. Xie, C. M. Dong, Z. T. Jia, and X. T. Tao, "High-power continuous wave and passively Q-switched laser operations of a Nd : GGG crystal," *Laser Phys. Lett.* 5, 100 (2008).

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