Researcher's Profile

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Biography

1993.06	B.Eng(Hons), Electronics Engineering, University of Southampton
1998.10	Postdoctoral Researcher, RCAST, The University of Tokyo (UTokyo)
1999.01	PhD, University of Southampton, Optoelectronics Research Centre
2000.10	Research Associate, School of Engineering, UTokyo
2001.04	Micron Optics Inc., Senior Engineer
2002.04	R&D General Manager, Alnair Labs Corporation
2005.04	CEO & CTO, Alnair Labs Corporation
2016.02	Associate Professor, RCAST, UTokyo

Research Interests

Since the first demonstrations of the carbon-nanotube (CNT) mode-locked lasers in 2003, over the years, it has bloomed into a new field of Nano-Carbon Photonics, using CNT and other nano-carbon materials for various laser and photonics applications.
We are interested in developing new industrial applications using these advanced laser pulsed sources, for examples (1) High-speed, high-sensitivity optical sampling oscilloscope using special long-wavelength femtosecond CNT lasers, for the optical communication industry, and (2) Non-contact, high-precision 3-D profile measurement system, using a high-repetition rate short-cavity CNT laser for the automobile industry, (3) Short pulse seed lasers for the material processing and laser micro-machining industry.
Our recent research interests include:
· Novel highly-reliable laser mode-locking technique.
· Integrated optical functional devices using new optical materials.
· Rare-earth-doped fiber amplifiers and their applications.
· Applications of short pulse lasers in multidisciplinary research.

Keywords

Short pulse lasers, CNT photonics, ultrafast nonlinear optics, 3D laser measurement

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