

Special Issue on the 90th Anniversary of South China

Normal University

This special issue is a collection of the most exciting optics and photonics research results recently accomplished in South China Normal University (SCNU) to celebrate its 90th Anniversary (6th November 2023). Guest Editors are Prof. Zhongmin Yang, Prof. Dick Jan Broer, and Prof. Lingling Shui.

Located in Guangzhou, the center of Guangdong-Hong Kong-Macao Greater Bay Area, SCNU was founded in 1933 and named as the Normal College of Guangdong Xiangqin University. Through its history in the last 90 years, SCNU has experienced title changes and location migration in South China and developed into a renowned comprehensive university in China. Prof. Songhao Liu, member of the Chinese Academy of Sciences, founded the optics and optical engineering in SCNU. To date, optics discipline in SCNU has been recognized as one of the national key disciplines, in which a vibrant and internationalized team of scientists has been well built and is pioneering the frontiers of optical researches and industries in China.

In this collection, SCNU's scientists shed light into optic and photonic sciences and applications, including **Laser Physics**: nonlinear soliton dynamics, fiber laser technologies, and fiber laser-based microscopy and micromachining systems, **Light Regulation Technologies**: reflective displays, micro-lens, and topological light manipulation, perovskite nanocrystals induced all-optical diode, **Optical Imaging Technologies**: upconversion super-resolution microscopy, photoacoustic/multimodal optical imaging for biomedical investigation; and **Nanophotonics**: hybrid 2D materials pattern for optical sensing, programmable 3D liquid crystal configuration for dynamic photomask.

This vigorously growing university in South China is extending its innovative spirit into the young generation and future talents, and its optics and photonics research will be further reinforced by this special issue.

This special issue calls for papers among the alumnus of South China Normal University, submission deadline: 31st Oct 2023.

Guest Editors:

Prof. Zhongmin Yang



Prof. Zhongmin Yang is a professor of optics and vice president of South China Normal University (SCNU). Prof. Yang is engaged in the research of glass fiber, fiber laser, and laser applications. He won the National Science Fund for Distinguished Young Scholar (2013) and Distinguished Professor at the Ministry of Education (2015). He won several awards including the Science and Technology Innovation Award of the Ho Leung Ho Lee Foundation, the 2nd Prize of National Technology Invention (twice), the 1st Prize of the Ministry of Education Technology Invention, the 1st Prize of Natural Science of Guangdong (twice), and the 1st Prize Technology Invention of Guangdong (twice). The research team led by him has also been promoted as an innovation team in key areas of the National Innovation Talent Promotion Plan. Up to now, he has published >200 peer-reviewed papers and filed >110 authorized patents.

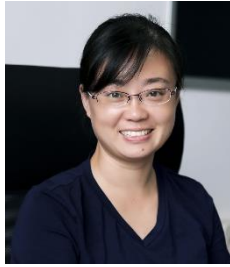
Professor Dirk Jan Broer



Professor Dirk Jan Broer is a Distinguished Professor at South China Normal University, Guangzhou, China. He is member of the Royal Dutch Academy of Arts and Sciences (KNAW). He has worked the better part of his career at Philips Research (Eindhoven, Netherlands) which he joined 1973. He worked on a manifold of research topics such as optical data storage, telecommunication and display optics. In 1990/1991, he worked at DuPont Experimental Station (Delaware, USA) on nonlinear optics and vapor phase deposition of pi-conjugated polymers. He returned to Philips Research in 1991 where he worked, amongst others, on LCD enhancement and new LCD manufacturing technologies. From 2003 to 2010 he was senior research fellow and vice president at the Philips Research Laboratories specializing on biomedical devices and applications of polymeric materials. Broer has been professor at Eindhoven University of Technology (TU/e) from 2010, covering research topics such as liquid crystals, polymer waveguides, solar energy, organic semiconductors, nanolithography, soft lithography, and polymer actuators for biomedical

microfluidic systems. Since 2020 he is emeritus professor at the same university.

Prof. Lingling Shui



Professor Lingling Shui is a professor at South China Normal University, Dean of the School of Information and Optoelectronic Science and Engineering and Director of the Guangdong Provincial Key Laboratory of Nanophotonic Functional Materials and Devices. She specializes in optofluidics and electrofluidics, microsystem and nanoengineering, and optical sensing applications. She has been invited to serve as a guest editor of *Lab on a Chip*, *Biomedical Optical Express*, and etc. She is a member of the Chinese Society for Optical Engineering, the Chinese Society of Biomedical Engineering, Guangdong Optical Society, Guangdong Optoelectronic Technology Association, and Guangdong Provincial Federation of Women Science and Technology Workers. She has won several awards of International Innovation Award of Optofluidics, the 1st Technical Invention Award of Guangdong Optoelectronic Technology Association, and Outstanding Female Employee Award of Guangdong Province.