
Mei-Ling Zheng

Jie Liu

Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, China

zhengmeiling@mail.ipc.ac.cn

Surface Enhancement of Raman Scattering (SERS) of Microstructures Fabricated by Femtosecond Laser Optical Lithography

Surface enhancement of Raman scattering (SERS) is a rapid non-destructive detecting spectroscopy technique with high sensitivity, accuracy, fingerprint spectrum, and immunity from water molecules, which can achieve single molecule detection. Some kinds of methods have been developed to improve the enhancement of Raman signal. Among them, the strategy of developing good substrate with well-designed microstructure is promising. In this talk, the development of SERS substrate by using Femtosecond Laser Optical Lithography and the application will be addressed.