



## [TuPM1-02] Vibrational Microscopy 2: Sum-Frequency Generation

**Date / Time** Aug. 28 (Tue.), 2018 / 14:30-16:30

**Place** 301 (Room E)

**[TuPM1-02-K-1] (Keynote) 14:30-15:00**

### **Novel Two-dimensional Terahertz-Infrared-Raman Spectroscopy**

Maksim Grechko and Mischa Bonn

Max Planck Institute for Polymer Research, Germany

**[TuPM1-02-I-2] (Invited) 15:00-15:20**

### **Contributions of Symmetric and Anti-symmetric Raman Tensors to Chiral Vibrational SFG Signals**

Taka-aki Ishibashi and Masanari Okuno

University of Tsukuba, Japan

**[TuPM1-02-I-3] (Invited) 15:20-15:40**

### **Plasmonic Nano-gratings for in Situ Nonlinear Optical Spectroelectrochemistry**

Wei-Tao Liu

Fudan University, China

**[TuPM1-02-I-4] (Invited) 15:40-16:00**

### **Surface of Isotopically Diluted Single-Crystalline Ice I<sub>h</sub> Investigated with Heterodyne-Detected Sum Frequency Generation Spectroscopy**

Yuki Nojima, Yuki Shioya, and Shoichi Yamaguchi

Saitama University, Japan

**[TuPM1-02-O-5] 16:00-16:15**

### **Detecting Structure and Orientation of Interfacial Biomolecules at Laser Repetition Rates up to 100 kHz**

Freeda Yesudas<sup>1</sup>, Mark Mero<sup>2</sup>, Janina Kneipp<sup>1</sup>, and Zsuzsanna Heiner<sup>1</sup>

<sup>1</sup>Humboldt Universität zu Berlin, Germany, <sup>2</sup>Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy, Germany

**[TuPM1-02-O-6] 16:15-16:30**

### **Water Structure at Hemocompatible Polymer/Water Interfaces Revealed by Heterodyne-Detected Vibrational Sum Frequency Generation**

Satoshi Nihonyanagi<sup>1</sup>, Anton Myalitsin<sup>1,2</sup>, Shu-hei Urashima<sup>1</sup>, Shoichi Yamaguchi<sup>1,3</sup>, Junji Yanagisawa<sup>4</sup>, Takashi Aoki<sup>4</sup>, and Tahei Tahara<sup>1</sup>

<sup>1</sup>RIKEN, Japan, <sup>2</sup>Nissan Arc Ltd., Japan, <sup>3</sup>Saitama University, Japan, <sup>4</sup>Kyoto Institute of Technology, Japan