

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

Date / Time	Aug. 28 (Tue.), 2018 / 14:30-16:30
Place	301 (Room E)
Session Chair	Young Jong Lee (National Institute of Standards & Technology, USA)

#### [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-Grating 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