Poster #	Poster Title and Author(s)
P1	**New Technology for Finding Optimal Spectral Matches in Reference Databases** Ty Abshear and Karl Nedwed
P2	**Enhanced Darkfield Hyperspectral Microscopy: Identifying and Characterizing Nano-materials in Diverse Matrices** James Beach, Sam Lawrence, Jamie Uertz
P3	**THz-Raman Spectroscopy – Probing the Structural Fingerprint Region of the Raman Spectrum** James Carriere, Anjan Roy, Randy Heyler
P4 Rev	**Review of Recent Studies Combining Optical Spectroscopy Techniques to Characterize Layers, Structure and Opto-electronic Properties of Organic LED (CuPc) and 2D TMDCs.** Marc Chaigneau, Ramdane Benferhat, Jeremy Brites, Didier Hocrelle, Jean-Paul Gaston
P5	**Dynamic Trafficking of Heme in Living Biological Models Revealed by Transient Absorption Microscopy** Andy Jing Chen
P6	**Transient Absorption Imaging of Glycated Hemoglobin in Blood of Diabetes Patients** Pu-Ting Dong, Kai-Chih Huang, Shibin Deng, Chien-Sheng Liao, Annie Esposito, Jie Hui, and Ji-Xin Cheng
P7	**Comprehensive Multivariate Analysis of Red Wine Phenolic Composition, Color and Quality Components with Simultaneous Absorbance and Fluorescence Excitation Emission Mapping** A.M. Gilmore, A. Mehmedovic, Q. Sui, T. Hayes, and M. T. Cleary
P8	**Frequency-Modulated Hot Spot for Phase-locked Raman Spectroscopy** Silvio Greco, Denys Naumenko, Simone Dal Zilio and Marco Lazzarino
P9	**Antimicrobial Susceptibility Testing of Live Bacteria at the Single Cell Level Within 30 Minutes by Hyperspectral Stimulated Raman Scattering Imaging** Weili Hong
P10	**Intravascular photoacoustic Ultrasound Imaging of Lipid-laden Plaque: Technical Development for Clinical Translation** Jie Hui, Yingchun Cao, Yi Zhang, Ayeeshik Kole, Pu Wang, Guangli Yu, Gregory Eakins, Michael Sturek, Weibiao Chen, Ji-Xin Cheng
P11	**Nanoscale Optoelectronic Inhomogeneity in 2D Semiconductors Probed by Tip-Enhanced Optical Spectroscopy** Andrey Krayev, Juana Xia, Ze Xiang Shen
P12	**Particle XploRA – Co-localized Analysis of Chemical and Morphological Analysis** Eunah Lee
P13	**Label-Free Vibrational Spectroscopic Imaging of Neuronal Membrane Potential** Hyeon Jeong Lee
P14	**Raman-Activated Microfluidic Sorting of Isotopically Labeled Microbial Cells** Kang Soo Lee, Marton Palatinszky, Jen Nguyen, Vicente I. Fernandez, Filippo Menolascina, Fatima C. Pereira, David Berry, Michael Wagner and Roman Stocker
P15	**Raman Spectroscopic Imaging Reveals Lipid Desaturation as a Metabolic Marker and Therapeutic Target of Ovarian Cancer Stem Cells** Junjie Li, Salvatore Condello, Jessica Thomes-Pepin, Xiaoxiao Ma, Yu Xia, Thomas D. Hurley, Daniela Matei, Ji-Xin Cheng

P16 **Hyperspectral Stimulated Raman Scattering Imaging of Highly Dynamic Specimens through Compressed Sensing**
Haonan Lin, Chien-Sheng Liao, Pu Wang, Suhas Sreehari, Charles A. Bouman, Nan Kong, Ji-Xin Cheng

P17 **Raman Thermometry Evidence of Joule Heating in Nano-ESI Theta Capillary Tips**
Sarah M. Matt, Feifei Zhao, Owen G. Rehrauer, Jiexun Bu, Scott A. McLuckey, Dor Ben-Amotz

P18 **Investigation of Stress Distribution in a Notched Sample Using Nano-Mechanical Raman Spectroscopy (NMRS)**
Debapriya Pinaki Mohanty and Vikas Tomar

P19 **2D and 3D Micro-Raman Imaging of Crystal Transformation Due to Indentation of ZrO_2 Ceramic and ZrO_2 Containing Glass Ceramic Materials**
Galan G. Moore, Charlene Smith, Benjamin Z. Hanson, Sara A. Cole

P20 **Interface Failure in Energetic Material Examined via Mechanical Raman Spectroscopy**
Chandra Prakash, I. Emre Gunduz, and Vikas Tomar

P21 **Monitoring Protein Structural Changes using Raman Spectroscopy**
Marinella Sandros, Eunah Lee, Fran Adar, Chikashi Ota, Shintaro Noguchi, Satoru Nagatoishi, Kouhei Tsumoto

P22 **Hyperspectral NanoRaman™ Imaging for Studying Carbon-Based Materials**
Maruda Shanmugasundaram, Andrey Krayev, Marc Chaigneau, Dmitry Evplov, Vasily Gavrilyuk, Sergey Saunin

P23 **Raman-mediated Single Cell Genomics**
Y. Song and W.E. Huang

P24 **Thermal Conductivity Measurement of Zircaloy-4 by Using Raman Thermometry: Role of Irradiation, Corrosion and Compressive Stresses**
Hao Wang and Vikas Tomar

P25 **Maximize Your Confocal Raman Spectrometer: Trivial Modifications Enable Novel Capabilities**
Maxwell Wetherington

P26 **Interlayer Phonons in $NbSe_2$ Atomic Layers**
Logan Winford, Zhipeng Ye, Gaihua Ye, Chun Hung Lui, and Rui He

P27 **Raman-SIP Reveals Single Salmonella Cell Activity upon Infection to THP-1 Cells**
Jiabao Xu, Lorena Preciado-Llanes, Anna Aulicino, Alison Simmons and Wei E. Huang

P28 **Stimulated Raman Projection Microscopy and Tomography for Volumetric Chemical Imaging**
Chi Zhang, Xueli Chen, Peng Lin, Kai-Chih Huang, Jimin Liang, Jie Tian, Ji-Xin Cheng

P29 **Depth-resolved Mid-infrared Photothermal Imaging of Living Cells and Organisms with Sub-micron Spatial Resolution**
Delong Zhang

P30 **Speed up Raman Imaging with Dynamic Sampling**
Shijie Zhang

Late Submissions

P31 **Rapid Antifungal Susceptibility Testing with Stimulated Raman Scattering**
Caroline W. Karanja,Weili Hong,Waleed Younis, Hassan E. Eldesouky, Mohamed N. Seleem, Ji-Xin Chen, Cheng Zong

P32 **Silver Ink on Paper: A Label-Free Plasmonic Route for Sensitive and Rapid Biomolecular Analysis**
Zufang Huang, Soumik Siddhanta, Chi Zhang, Thomas Kickler, Gang Zheng, Ishan Barman