

# The 2<sup>nd</sup> International Conference on Surface-Enhanced Raman Spectroscopy

## Program

Nov. 6, 2019	Nov. 7, 2019		Nov. 8, 2019		Nov. 9, 2019	
Wednesday	Thursday		Friday		Saturday	
09:00-21:00 Registration & Check-in	Chair: Jaebum Choo		Chair: Sebastian Schlücker		Chair: Steven Bell	
	08:30-08:50	Performance	08:30-09:10	Jeremy J. Baumberg	08:30-09:10	Duncan Graham
	08:50-09:00	Opening	09:10-09:40	Hongwei Duan	09:10-09:40	Jin Zhang
	09:00-09:40	George C. Schatz	09:40-10:00	Ki-Hun Jeong	09:40-10:00	Katsuyoshi Ikeda
	09:40-10:20	Eric C. Le Ru	10:00-10:15	Hiroyuki Takei	10:00-10:15	Wei Xie
	10:20-11:00	Photo & Coffee Break	10:15-10:40	Coffee Break	10:15-10:40	Coffee Break
	Chair: Eric C. Le Ru		Chair: Hongwei Duan		Chair: Jin Zhang	
	11:00-11:30	Jaebum Choo	10:40-11:10	Shangjr Gwo	10:40-11:10	Steven E.J. Bell
	11:30-12:00	Jian-Feng Li	11:10-11:30	Tamitake Itoh	11:10-11:30	Sang-Woo Joo
	12:00-13:30	Lunch	11:30-11:50	Yang Zhang	11:30-11:50	Hua Kuang
	Chair: Haoshen Zhou		11:50-12:05	De-Yin Wu	11:50-12:05	Jian Ye
	Chair: Shuming Nie		12:05-13:30	Lunch	12:05-12:35	Closing
	14:00-14:40	Shuming Nie	Chair: Shangjr Gwo		12:35-13:30	Lunch
	14:40-15:10	Alexei A. Komyshev	14:00-14:30	Sebastian Schlücker	Departure	
	15:10-15:30	Yi-Tao Long	14:30-14:50	Zhuo Chen		
	15:30-15:45	Lin Jiang	14:50-15:10	Ping Xu		
	15:45-16:10	Coffee Break	15:10-15:25	Jbin Song		
	Chair: Alexei A. Komyshev		15:25-15:40	Rongke Gao		
	16:10-16:40	Haoshen Zhou	15:40-16:00	Coffee Break		
	16:40-17:00	Pietro G. Gucciardi	Chair: Wei Xie			
17:00-17:20	Jorge Perez-Juste	16:00-18:00 Poster & Sponsors				
17:20-17:35	Liwu Zhang	16:00-16:30	Ping-En Hu (Horiba)			
17:35-17:50	Shuping Xu	16:30-16:55	Roger Fenske (Edinburgh)			
18:00-21:00	Dinner	16:55-17:20	Dong-Mei Wang (Thermo Fisher)			
18:00-21:00 Conference Banquet		17:20-17:40	Zhi-Fang Wang (Renishaw)			
18:00-21:00		18:00-21:00 Poster Session & Buffet Dinner				
<b>Plenary Talks: 40 min</b>			<b>Oral Talks: 15 min (3 min discussion)</b>			
<b>Keynote Talks: 30 min (5 min discussion)</b>			<b>Poster &amp; Sponsors</b>			
<b>Invited Talks: 20 min (5 min discussion)</b>						

## November 6-9, 2019, Suzhou, China

**Wednesday, Nov. 6, 2019, 09:00-21:00**  
**Location: Lobby, TONGLI Lakeview Hotel**

**09:00-21:00**

**Registration**

**18:00-21:00**

**Dinner**

**Thursday, Nov. 7, 2019, 08:30-18:00**  
**Location: International Banquet Hall**

**08:30-08:50**

**Performance**

**08:50-09:00**

**Opening Speech (Jian-Lin Yao)**

**Chair: Jaebum Choo**

**09:00-09:40**

**George C. Schatz** (Northwestern University, USA)  
 SERS and theory studies of hot electron-induced chemistry

**PL-1**

**09:40-10:20**

**Eric C. Le Ru** (Victoria University Wellington, New Zealand)  
 SERS enhancement factors

**PL-2**

**10:20-11:00**

**Photo & Coffee Break**

**Chair: Eric C. Le Ru**

**11:00-11:30**

**Jaebum Choo** (Chung-Ang University, South Korea)  
 SERS-based microdevices for in vitro diagnostics

**K-1**

**11:30-12:00**

**Jian-Feng Li** (Xiamen University, China)  
 "Watching" surface catalysis using in-situ SHINERS

**K-2**

**12:00-13:30**

**Lunch**

<b>Chair: Haoshen Zhou</b>		
<b>14:00-14:40</b>	<b>Shuming Nie</b> (University of Illinois at Urbana-Champaign, USA) Emergence of two near-infrared windows for in-vivo and intraoperative SERS	<b>PL-3</b>
<b>14:40-15:10</b>	<b>Alexei A. Kornyshev</b> (Imperial College London, UK) Metamaterials, plasmonics and electrochemistry-Using “ionics” for tuning photonic functionalities in real time	<b>K-3</b>
<b>15:10-15:30</b>	<b>Yi-Tao Long</b> (Nanjing University, China.) Nanopore enhanced single molecule analysis	<b>I-1</b>
<b>15:30-15:45</b>	<b>Lin Jiang</b> (Soochow University, China) Design and applications of plasmonic metal nanostructures	<b>O-1</b>
<b>15:45-16:10</b>	<b>Coffee Break</b>	
<b>Chair: Alexei A. Kornyshev</b>		
<b>16:10-16:40</b>	<b>Haoshen Zhou</b> (Nanjing University, China) Development of new type lithium rechargeable batteries: Based on anion redox	<b>K-4</b>
<b>16:40-17:00</b>	<b>Pietro G. Gucciardi</b> (CNR-IPCF, Italy) SERS detection of biomolecules in liquid with optically printed nanorods.	<b>I-2</b>
<b>17:00-17:20</b>	<b>Jorge Pérez-Juste</b> (University of Vigo, Spain) Plasmonic nanocapsules with SERS-based multiplexing capabilities	<b>I-3</b>
<b>17:20-17:35</b>	<b>Liwu Zhang</b> (Fudan University, China) Surface enhanced Raman spectroscopy: A facile and rapid method for the chemical components study of individual atmospheric aerosol	<b>O-2</b>
<b>17:35-17:50</b>	<b>Shuping Xu</b> (Jilin University, China) SERS-microfluidic droplet platform for label-free detection of multiplexed metabolites at single-cell level	<b>O-3</b>
<b>18:00-21:00</b>	<b>Conference Banquet</b>	
<b>Friday, Nov. 8, 2019, 08:30-18:00</b> <b>Location: International Banquet Hall</b>		
<b>Chair: Sebastian Schlücker</b>		

08:30-09:10	<b>Jeremy J Baumberg</b> (University of Cambridge, UK) Watching single bonds in real time routinely using picocavities	<b>PL-4</b>
09:10-09:40	<b>Hongwei Duan</b> (Nanyang Technological University, Singapore) Surface-engineered plasmonic nanostructures for diagnostic and therapeutic applications	<b>K-5</b>
09:35-10:00	<b>Ki-Hun Jeong</b> (Korea Advanced Institute of Science and Technology (KAIST), South Korea) Metallic nanoislands as nanoplasmonic SERS substrates	<b>I-4</b>
10:00-10:15	<b>Hiroyuki Takei</b> (Toyo University, Japan) Galvanically grown silver nanostructures for FlexiSERS for detection of surface-adsorbed chemicals	<b>O-4</b>
10:15-10:40	<b>Coffee Break</b>	
<b>Chair: Hongwei Duan</b>		
10:40-11:10	<b>Shangjr Gwo</b> (Academia Sinica, Taiwan, China) Aluminum plasmonics as an optimal platform for SERS	<b>K-6</b>
11:10-11:30	<b>Tamitake Itoh</b> (National Institute of Advanced Industrial Science and Technology (AIST), Japan) Plasmon resonance and SERRS of strong coupling system composed of silver nanoparticle dimer and a few dye molecules	<b>I-6</b>
11:30-11:50	<b>Yang Zhang</b> (University of Science and Technology of China, China) Probing intramolecular vibronic coupling with sub-nanometer resolved spectroscopic imaging	<b>I-7</b>
11:50-12:05	<b>De-Yin Wu</b> (Xiamen University, China) Chemical enhancement effect of surface-enhanced Raman spectroscopy in electrode surfaces	<b>O-4</b>
12:05-13:30	<b>Lunch</b>	
<b>Chair: Shangjr Gwo</b>		
14:00-14:30	<b>Sebastian Schlücker</b> (University of Duisburg-Essen, Germany) Go for the gold: Challenges and perspectives in iSERS	<b>K-7</b>
14:30-14:50	<b>Zhuo Chen</b> (Hunan University, China) Graphitic nanocapsule based Raman analysis and biomedical applications	<b>I-7</b>
14:50-15:10	<b>Ping Xu</b> (Harbin Institute of Technology, China) Understanding the SERS mechanism on two-dimensional semiconductor nanomaterials	<b>I-8</b>

15:10-15:25	<b>Jibin Song</b> (Fuzhou University, China) SERS active plasmonic assemblies	<b>O-6</b>
15:25-15:40	<b>Rongke Gao</b> (Hefei University of Technology, China) SERS-based biomedical sensor using self-powered microfluidic device	<b>O-7</b>
15:40-16:00	<b>Coffee Break</b>	
<b>Chair: Wei Xie</b>		
16:00-16:30	<b>Ping-En Hu</b> (HORIBA Scientific) Explore the optimum Raman mapping method for your research	
16:30-16:55	<b>Dr. Roger Fenske</b> (Edinburgh Instruments) Spectroscopy from fluorescence to Raman - edinburgh instrument	
16:55-17:20	<b>Dong-Mei Wang</b> (Thermo Fisher Scientific) New DXR3xi Raman Imaging speeds up material characterization research	
17:20-17:40	<b>Zhi-Fang Wang</b> (Renishaw (Shanghai) Trading Company Ltd.) Development of Renishaw Raman technologies and correlative application in SERS	
16:00-21:00	<b>Poster Session &amp; Buffet Dinner</b>	
<b>Saturday, Nov. 9, 2019, 08:30-13:00</b> <b>Location: International Banquet Hall</b>		
<b>Chair: Steven Bell</b>		
08:30-09:10	<b>Duncan Graham</b> (University of Strathclyde, UK) Nanoparticle based analysis of biomolecules, cells and tissue	<b>PL-5</b>
09:10-09:40	<b>Jin Zhang</b> (Peking University, China) Enhanced Raman scattering on graphene and beyond	<b>K-8</b>
09:40-10:00	<b>Katsuyoshi Ikeda</b> (Nagoya Institute of Technology, Japan) Surface enhanced <i>electronic</i> and <i>vibrational</i> Raman scattering at electrode/electrolyte interfaces	<b>I-9</b>
10:00-10:15	<b>Wei Xie</b> (Nankai University, China) SERS detection of interfacial chemical processes: from model reactions to synthetic chemistry	<b>O-8</b>
10:15-10:40	<b>Coffee Break</b>	
<b>Chair: Jin Zhang</b>		

<b>10:40-11:10</b>	<b>Steven E.J. Bell</b> (Queen's University Belfast, U.K.) SERS with assembled metal nanoparticles: new tricks from old materials	<b>K-9</b>
<b>11:10-11:30</b>	<b>Sang-Woo Joo</b> (Soongsil University, South Korea) Intracellular SERS probes on submicrometer-sized pipettes	<b>I-10</b>
<b>11:30-11:50</b>	<b>Hua Kuang</b> (Jiangnan University, China) <i>In situ</i> monitoring biomarkers with SERS probe	<b>I-11</b>
<b>11:50-12:05</b>	<b>Jian Ye</b> (Shanghai Jiao Tong University, China) Gap-enhanced Raman tags (GERTs) for biomedical applications	<b>O-9</b>
<b>12:05-12:35</b>	<b>Closing</b>	
<b>12:35-13:30</b>	<b>Lunch</b>	