

Conference Schedule

The program consists of invited talks (25 min), oral talks (20 min), and poster presentations (online and in-person). The special session for Prof. Emeritus Hachiro Nakanishi, who was quite active in the field of organic nonlinear optics and passed away in April 2019, is included (Friday 11th November) as a part of the oral session.

Japan Standard Time (JST)(UTC+9)

	Tuesday November 8	Wednesday November 9	Thursday November 10	Friday November 11	15:00 US Pacific Standard Time (PST)(UTC-8)	18:00 US Eastern Standard Time (EST)(UTC-5)
8:00						
8:30		Oral session	Oral session	Oral session (Special session)	15:30	18:30
9:00					16:00	19:00
9:30					16:30	19:30
10:00					17:00	20:00
10:30		Coffee break & Poster session ①-1 (online) (40 min)	Coffee break & Poster session ②-1 (online) (40 min)	Coffee break Oral session (Special session)	17:30	20:30
11:00		Oral session	Oral session		18:00	
11:30					18:30	
12:00				Closing remark and award ceremony	19:00	
12:30					19:30	
13:00	Registration	Lunch (90 min)	Lunch (90 min)	Excursion		
13:30						
14:00						
14:30		Coffee break & Poster session ①-2 (in-person) (60 min)	Coffee break & Poster session ②-2 (in-person) (60 min)			
15:00	Welcome address					
15:30	Oral session	Oral session	Oral session		7:30 Central European Time (CET)(UTC+1)	
16:00					8:00	
16:30	Coffee break	Coffee break & Poster session ①-3 (online) (30 min)			8:30	
17:00	Oral session	Oral session	Poster session ②-3 (online) (30 min)		9:00	
17:30					9:30	
18:00					10:00	
18:30					10:30	
19:00	Watching lunar eclipse in garden with music		Banquet (Hotel Nikko Nara)		11:00	
19:30					11:30	
20:00						
20:30						



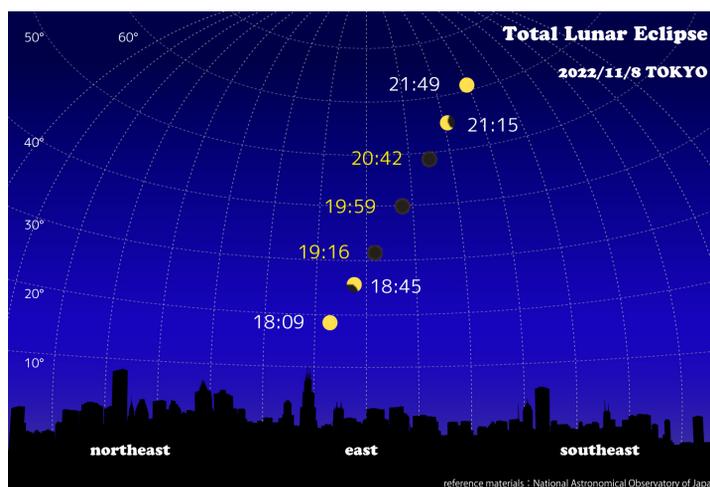
Conference Programme

DAY 1

Tuesday, 8th November

13 : 00	Registration		
15 : 20	Welcome address	Akira Otomo (NICT, Japan)	
Chair: Takafumi Sassa			
15 : 30 (1-1)	Boaz Jessie Jackin (Kyoto Institute of Technology, Japan)	Azocarbazole computer generated holograms for high-density optical vortex beam array generation	Masaki Shirai, Honoka Haginaka, Kenji Kinashi, Naoto Tsutsumi, Wataru Sakai
15 : 55 (1-2)	Toshiki Yamada (NICT, Japan)	Ultra-high frequency electric field detection by the Stark effect and electro-optic effect of electro-optic polymers	Takahiro Kaji, Chiyumi Yamada, Akira Otomo
16 : 20 (1-3)	Takahiro Kaji (NICT, Japan)	Fabrication and Evaluation of Antenna-Coupled Optical Modulators Using Electro-Optic Polymer Waveguides and Non-Coplanar Patch Antennas	Hiroki Murakami, Shintaro Hisatake, Isao Morohashi, Yukihiko Tominari, Toshiki Yamada, Akira Otomo
16 : 45	Coffee break (20 min)		
Chair: Ken-ichi Nakayama			
17 : 05 (1-4)	Yoshitaka Koseki (Tohoku University, Japan)	Development of SN-38 nano-prodrugs toward anticancer drug delivery	Hitoshi Kasai
17 : 30 (1-5)	K. Goushi (Kyushu University, Japan)	INTRAMOLECULAR TRIPLET-TRIPLET ANNIHILATION UP-CONVERSION IN ORGANIC LIGHT-EMITTING DIODES	
17 : 55 (1-6)	Takashi Nagase (Osaka Metropolitan University, Japan)	Organic Floating-Gate Phototransistors for Printable Nonvolatile Memories and Image Sensing Devices	
Chair: Kenichi Goshi			
18 : 20 (1-7)	Kenji Kamada (AIST, Japan)	Photon Upconversion by Organic Materials in Solid	
18 : 45 (O1-1) (Oral: 20 min)	Neeti Tripathi (AIST, Japan)	Near-Infrared to Visible Photon Upconversion in PbS-QD-Sensitized Triplet-Triplet Annihilation System under 980-nm Excitation	Masanori Ando, Tomoko Akai, Kenji Kamada
19 : 05			
19 : 10 ~19 : 45	Watching total lunar eclipse in garden with shakuhachi music (music by Yasunori Tani)		

* The lectures without "oral" description are invited lectures. The time is written in Japan Standard Time (JST (UTC+9)).





Wednesday, 9th November

08 : 25	Announcement		
Chair: Chantal Andraud			
08 : 30 (12-1)(Online)	Javier Perez-Moreno (Skidmore College, USA)	Consistency of the Thomas-Reich-Khun sum rules and the role of scattering states.	
08 : 55 (12-2)	Ken Singer (Case Western Reserve University, USA)	Nanolayer Polymer Photonics: From "Origami" Lasers to Cavity Polaritons to Optical Data Storage	
Chair: Kenji Kamada			
09 : 20 (12-3)(Online)	A. Rebane (Montana State University, USA)	Laporte Rule in Vibronic Two-Photon Absorption Spectra: On-off-on Control of Molecular Inversion Symmetry by Multi-Stage Protonation	Ch. W. Stark, M. Rammo, A. Trummel, M. Uudsemaa, J. Pahapill, M.-M. Sildoja, S. Tshepelevitsh, I. Leito, D.C. Young, B. Szymański, O. Vakuliuk, D. T. Gryko
09 : 45 (12-4)(Online)	Mark G. Kuzyk (Washington State University, USA)	A Unified View of Nonlinear-Optical Susceptibilities	
10 : 10			
10 : 15	Coffee break & Poster session ①-1 (online)(40 min)(Reception Hall 1 for presenters)		
Chair: Kenneth Singer			
10 : 55 (12-5)	C. Andraud (Ecole Normale Supérieure de Lyon, France)	Nonlinear absorption in the NIR	S. David, T. Baron, O. Maury, D. Chateau, S. Parola, G. Berginc
11 : 20 (12-6)(Online)	Jingdong Luo (City University of Hong Kong, Hong Kong SAR, China)	Recent research progress in efficient synthesis and systematic characterization of high-performance organic electro-optic materials	Di Zhang, Jie Zou, Weilong Chen
11 : 45 (12-7)	Akira Otomo (NICT, Japan)	Electro-Optic Polymers for Visible and NIR Wavelengths below 1000 nm	
Chair: Takahiro Kaji			
12 : 10 (12-8)	Takuo Tanemura (the University of Tokyo, Japan)	Electro-Optic Polymer Surface-Normal Modulators using Subwavelength Grating Resonators	
12 : 35 (12-9)	Shiyoshi Yokoyama (Kyushu University, Japan)	Efficient 100 Gbaud OOK and PAM4 modulation Using Hybrid Si and Electro-optic Polymer Modulator	Guo-Wei Lu, Jaowei Mao, Hiromu Sato, Alisa Bannaron
13 : 00	Lunch (90 min)		
14 : 30	Coffee break & Poster session ①-2 (onsite)(60 min)(Reception Hall 1)		
Chair: Naoto Tsutsumi			
15 : 30 (12-10)(Online)	O-Pil Kwon (Ajou University, Korea)	Recent Progress in Nonlinear Optical Organic Single Crystals for THz Wave Generation	
15 : 55 (12-11)	Takafumi Sassa (RIKEN Center for Advanced Photonics, Japan)	Control of Molecular Packing in Photorefractive Polymer Composites with Hot Pressing	Meng-Che Tsai, Kuo-Lung Wang, Masaki Horie, Satoshi Wada
16 : 20 (12-12)	Takeo Sasaki (Tokyo University of Science, Japan)	Photorefractive Effect of Flexoelectric Liquid Crystal Mixtures and Their Application to Laser Ultrasonics	Kaita Suzuki, Toshinobu Takashi, Gouta Ikeda, Yukihiro Ishii, Khoa Van Le, Yumiko Naka
16 : 45			
16 : 50	Coffee break & Poster session ①-3 (online)(30 min)(Reception Hall 1 for presenters)		
Chair: Andre-Jean Attias			
17 : 20 (12-13)	Jaroslav Mysliwiec (Wroclaw University of Science and Technology, Poland)	Dye-doped Liquid Crystalline Systems as Sources of White Laser Light	
17 : 45 (12-14)	Jean-Michel Nunzi (Queen's University, Canada)	Advanced photodetectors, sensors and energy harvesting devices	
Chair: Jaroslav Mysliwiec			
18 : 10 (12-15)	Anna Painelli (University of Parma, Italy)	Thermally activated delayed fluorescence (TADF): understanding a complex photophysical phenomenon in condensed phase	D. K. Andrea Phan Huu, Rama Dhali, Sangeeth Saseendran, Cristina Sissa
18 : 35 (12-16)	Ileana Rau (University POLITEHNICA of Bucharest, Romania)	Biopolymer matrix influence on lasing properties	Adrian Petris, Petronela Gheorghe, Mirela Anton
19 : 00 (12-17)	Syoji Ito (Osaka University, Japan)	Single Molecule Tracking of Photoswitchable Fluorophores in Polymer Blends	



08 : 25	Announcement		
Chair: Toshiki Yamada			
08 : 30 (13-1)	Y. Koike (Keio University, Japan)	Recent Progress of Photonics Polymer Technologies toward 5G/8K Society	
08 : 55 (13-2)	Okihito Sugihara (Utsunomiya University, Japan)	Recent progress in near-infrared light-induced self-written waveguides	Hidetaka Terasawa, Keisuke Kondo
Chair: Okihito Sugihara			
09 : 20 (13-3)(Online)	Robert A. Norwood (University of Arizona, USA)	Chalcogenid Inorganic/Organic Hybrid Polymers for Nonlinear Photonics	
09 : 45 (13-4)(Online)	Yoshihiro Uozu (Mitsubishi Chemical Corporation, Japan)	Biomimetic Surface : Multi-Functionalities of Moth-Eye Surface	
10 : 10			
10 : 15	Coffee break & Poster session ②-1 (online)(40 min)(Reception Hall 1 for presenters)		
Chair: Takashi Nagase			
10 : 55 (13-5)(Online)	Alex Jen (City University of Hong Kong, Hong Kong)	Integrated Material, Interface, and Process Engineering for Highly Efficient and Stable Organic and Perovskite Devices	
11 : 20 (13-6)	Tsuyoshi KAWAI (Nara Institute of Science and Technology, Japan)	Chiro-Synergetic Enhancement of Circularly Polarized Luminescence of Molecular Materials	
11 : 45 (13-7)	Tomomi Nemoto (National Institutes of Natural Sciences, Japan)	<i>In vivo</i> observation of brain and nerve cells using two-photon microscopy with novel techniques	Hirokazu Ishii, Taiga Takahashi, Kazuhi Yamaguchi
Chair: Tsuyoshi Kawai			
12 : 10 (13-8)(Online)	Eunkyong Kim (Yonsei University, South Korea)	Synergetic Ferroelectric Luminescence through Multi-clipping of Tetraphenylethenes	Donghwan Kim, H. T. T. Thuy, Byeongwan Kim, Jongun Hwang, Kwang Keat Leong, Maxime Rémond
12 : 35 (13-9)	Atsushi Takei (AIST, Japan)	Stretchable electronics using thin-film/elastomer bilayer systems	Kazunori Kuribara, Yasuyuki Kusaka, and Manabu Yoshida
13 : 00 Lunch (90 min)			
14 : 30	Coffee break & Poster session ②-2 (onsite)(60 min)(Reception Hall 1)		
Chair: Jang-Joo Kim			
15 : 30 (13-10)	Seiichiro Izawa (Institute for Molecular Science, Japan)	Photon Upconversion at Organic Semiconductor Interface	
15 : 55 (13-11)	Takashi Fukuda (AIST, Japan)	Development of ultra-broadband LED using novel high-efficiency near-infrared phosphors	
16 : 20 (13-12)	Ken-ichi Nakayama (Osaka University, Japan)	Molecular orientation control and application to vertical-type organic transistors based on ultrathin reduced graphene oxide films	
Chair: Anna Painelli			
16 : 45 (13-13)	A.-J. Attias (CNRS-Sorbonne Uni.-Yonsei Uni., South Korea)	Necessary and Sufficient Condition for Efficient Organic Room-Temperature Phosphorescence from Host-Guest Doped Crystalline Systems.	C. Demangeat, Y. Dou, Y. Bretonnière, C. Andraud, E. Kim, J. W. Wu, H.-J. Lee, A. D'Aléo, T. Le Bahers, B. Hu
17 : 10 (13-14)(Online)	Elisabetta Collini (University of Padova, Italy)	2D Electronic Spectroscopies Towards Quantum Technology Applications: the example of semiconductor quantum dots and metal-organic hybrid systems	
17 : 35			
17 : 40	Coffee break & Poster session ②-3 (online)(30 min)(Reception Hall 1 for presenters)		
18 : 10			
19 : 00	Banquet (Hotel Nikko Nara)		



Friday, 11th November [Special session: In Memory of Prof. Emeritus Hachiro Nakanishi]

08 : 25	Announcement		
Chair: Akito Masuhara			
08 : 30	Introduction	Shuji Okada (Yamagata University, Japan)	
08 : 35 (14-1)	Shuji Okada (Yamagata University, Japan)	Organic Crystals Based on Ionic Species for Electronics and Photonics	Ryohei Yamakado
09 : 00 (14-2)(Online)	Xuanming Duan (Jinan University, China)	Two-Photon Lithography to Beat Diffraction Limit with Ultrafast Laser	Xian-Zi Dong, Yuan-Yuan Zhao, Mei-Ling Zheng
Chair: Hitoshi Kasai			
09 : 25 (14-3)	Jang-Joo Kim (Seoul National University, Korea)	HIGH EFFICIENCY STABLE DEEP BLUE OLEDs	
09 : 50 (14-4)	Hiromasa Ito (Tohoku University, Japan)	Large size crystal growths of DAST and BNA and their THz-wave application	
10 : 15	Coffee break (20 min)		
Chair: Toshikuni Kaino			
10 : 35 (14-5)(Online)	Kwang-Sup Lee (Hannam University, Korea)	All Solution Processed, Non-Covalently Assembled 0D-2D, and 2D-2D Heterostructures and their Optical Properties	Sung-Hyun Kim, Juhyoung Jung, Heungseob Shin, Sungwoo Jeon, Sinil Choi, Prem Prabhakaran
11 : 00 (14-6)	Hiroshi Masuhara (National Yang Ming Chiao Tung University, Taiwan)	Nonlinearly Coupled Dynamics of Optical Trapping and Photoexcitation of Nanoparticles at Solution Surface	
11 : 25 (14-7)	Hidetoshi Oikawa (Tohoku University (Professor Emeritus), Japan)	Structural Correlations of the Third-Order Nonlinear Optical Response in Polydiacetylene Nanomaterials Hybridized with Metal Nanoparticles	Tsunenobu Onodera, Rodrigo Sato, Yoshihiko Takeda
11 : 50	Closing remark and award ceremony	Shuji Okada (Yamagata University, Japan) and Akira Otomo (NICT, Japan)	
12 : 05			
13 : 00 ~16 : 30	Excursion (Kohfukuji Temple and Todai-ji Temple)		

Poster presentation (Wednesday, 9th November (online and in-person))

P2-1	Tomohiro Nohara (Yamagata Univ., Japan)	Development of Polymer Electrolyte Membrane employing Cellulose Nanocrystals and Affordable Resin Matrix	Takaaki Saito, Toshihiko Arita, Akito Masuhara
P2-2	Yuji Miyamoto (Japan Broadcasting Corporation (NHK), Japan)	Design and Fabrication of Optical Phased Arrays with EO Polymer and Si ₃ N ₄ Dual-Layer Waveguides	Yoshikuni Hirano, Masato Miura, Masakazu Nanba, Junichi Shibasaki, Rieko Ueda, Takahiro Kaji, Toshiki Yamada, Akira Otomo, Kenji Machida
P2-3	Shuhei Ozaki (AIST, Japan)	Effects of Acceptor (A) Substitution on Two-Photon Absorption Properties of A-D-A Pyrrolopyrrole Derivatives	Hans Ågren, D. T. Gryko, Kenji Kamada
P2-4	Ga-Eun Yoon (Ajou University, Korea)	Series-type Cation-Anion Assembly in Organic Ionic Crystals for Efficient THz Wave Generation	Seung-Chul Lee, In Cheol Yu, Bong Joo Kang, Mojca Jazbinsek, Woojin Yoon, Hoseop Yun, Fabian Rotermund, O-Pil Kwon
P2-5	Jeong-A Yang (Ajou University, Korea)	Organic Crystals with Cyclic Amino Donors for Extremely Large Macroscopic Optical Nonlinearity	Jin-Hong Seok, Deokjoong Kim, Won Tae Kim, Woojin Yoon, In Cheol Yu, Mojca Jazbinsek, Sang-Wook Kim, Hoseop Yun, Dongwook Kim, Fabian Rotermund, O-Pil Kwon
P2-6	Ryo Futawatari (Utsunomiya University, Japan)	Flexible Light-Induced Self-Written Optical Waveguide: Optical Interconnection between Graded-Index Fibers with 50 μm Core	Hidetaka Terasawa, Okihiko Sugihara
P2-7	Hidetaka Terasawa (Utsunomiya University, Japan)	Near-Infrared Self-Written Optical Waveguides for Optical Coupling between Silicon Photonics Devices	Tsuyoshi Namekawa, Keisuke Kondo, Sugihara Okihiko
P2-8	Reo Hirose (Utsunomiya University, Japan)	Modal power distribution for evaluation of multimode polymer optical waveguide	Tomomi Ohta, Okihiko Sugihara



P2-9	Kensuke Endo (Utsunomiya University, Japan)	Multimode light-induced self-written optical waveguide using near-infrared light	Hidetaka Terasawa, Okihiro Sugihara
P2-10	YUKO SATO (Utsunomiya University, Japan)	Evaluation of fiber optic transceiver using encircled flux and application to high-speed in-vehicle optical data transmission system	OKIHIRO SUGIHARA
P2-11	Shun Kamada (NICT, Japan)	Development of highly efficient EO polymer modulator for visible wavelength	Rieko Ueda, Chiyumi Yamada, Kouichi Tanaka, Toshiaki Yamada, Akira Otomo
P2-12	Yukihiro Tominari (NICT, Japan)	The effects of excited singlet oxygen on the photochemical stability of the EO polymers	Toshiaki Yamada, Takahiro Kaji, Akira Otomo
P2-13	Y. Matsumura (Tokushima Univ., Japan)	All-photonic THz detection using CW laser injection-locked to microcomb	E. Hase, Y. Tokizane, N. Kuse, J. Fujikata, H. Kishikawa, M. Haraguchi, Y. Okamura, T. Kaji, A. Otomo, A. Kanno, S. Hisatake, T. Yasui
P2-14	Hiroataka Kageyama (Osaka University, Japan)	Measurement of Excitation Energy Transfer from Single Upconverting Nanoparticles to Organic Dyes in Solid Phase by Using Super-Resolved Technique	Syoji Ito, Hikaru Sotome, Ali Eftekhari, Aude Bouchet, Michel Sliwa, Hiroshi Miyasaka
P2-15	Masato Mori (Osaka University, Japan)	Micromechanical motion of single small particle by radiation pressure due to transient absorption of dye molecules	Syoji Ito, Hikaru Sotome, Hiroshi Miyasaka

DAY3

Poster presentation (Thursday, 10th November (online and in-person))

P3-1	Ruttapol Malatong (Vidyasirimedhi Institute of Science and Technology, Thailand)	Highly Efficient Deep-blue Organic Light-emitting Diodes Based on Anthracene and Chrysene Cores with ClE _y ≤ 0.06	Taweesak Sudyoadsuk, Vinich Promarak
P3-2	Hiroki Tanikubo (Kochi University of Technology, Japan)	Creating Whispering Gallery Mode Resonators through Hybridization of Alkylated Acrylonitrile Derivatives with Silica Microspheres	Takumi Matsuo, Shotaro Hayashi
P3-3	Keisuke Tabata (Yamagata University, Japan)	High-temperature operation polymer electrolyte membrane composed of polymeric ionic liquid-coated core-shell type nanoparticles	Tsutomu Makino, Akito Masuhara
P3-4	Taisei Kimura (Yamagata Univ., Japan)	Shape Control of Perovskite Nanocrystals Based on Molecular Structure of Surface Ligands	Ryohei Yamakado, Satoshi Asakura, Takayuki Chiba, Akito Masuhara
P3-5	Naoaki Oshita (Yamagata Univ., Japan)	Blue emissive perovskite quantum dots with near-unity photoluminescence quantum yields	Keisuke Kikuchi, Satoshi Asakura, Takayuki Chiba, Akito Masuhara
P3-6	Mami Shinozaki (Meiji University, Japan)	Assessing the plasma membrane damage by nonlinear optical microscopy	Eriko Aiyama, Takeru Hara, Noritaka Kato
P3-7	Ryota Sato (Yamagata University, Japan)	Precise control the emission wavelength of perovskite quantum dot for light emitting device on Rec. 2020	Satoshi Asakura, Takayuki Chiba, Akito Masuhara
P3-8	Ayano Abe (Kyushu University, Japan)	Ternary cocrystal engineering of room temperature phosphorescence	Kenichi Goushi, Masashi Mamada, Chihaya Adachi
P3-9	Takumi Matsuo (Kochi University of Technology, Japan)	One-dimensional optical waveguides of a diketopyrrolopyrrole derivative with curving deformation	Junpei Kuwabara, Takaki Kanbara, Shotaro Hayashi
P3-10	Yusuke Kimoto (Osaka University, Japan)	Single-component organic solar cells based on near-infrared emissive molecules	Naru Iwaki, Naoya Aizawa, Mitsuharu Suzuki, Ken-ichi Nakayama
P3-11	Sosuke Sogabe (Osaka University, Japan)	Effects of aromatic substituents at bay-position in perylene bisimide on photovoltaic and electron transport properties	Jun Azuma, Kensuke Kojima, Naoya Aizawa, Mitsuharu Suzuki, Ken-ichi Nakayama
P3-12	Naoyuki Nishida (Osaka Metropolitan University, Japan)	Device Characteristics of Solution-Processed Organic Floating-Gate Optoelectronic Memories with Hole Trapping Characteristics	Takashi Nagase, Takashi Kobayashi, Hiroyoshi Naito
P3-13	Hitoshi Kasai (Tohoku University, Japan)	Investigation of intracellular dynamics using nano-prodrugs obtained by the reprecipitation method	Farsai Taemaitree, Beatrice Fortuni, Yoshitaka Koseki, Eduard Fron, Susana Rocha, Johan Hofkens, Hiroshi Uji-i, Tomoko Inose
P3-14	Tsukimi Iteya (Osaka University, Japan)	Single-Particle Emission Behavior of Perylenediimide Nanoparticles	Hoirotaka Kageyama, Hikaru Sotome, Daichi Kitagawa, Syoji Ito, Seiya Kobatake, Aude Bouchet, Michel Sliwa, Hiroshi Miyasaka
P3-15	Kazuyoshi Morikawa (Osaka Metropolitan University, Japan)	Synaptic Characteristics of Organic Floating-Gate Optoelectronic Memory	Takashi Nagase, Kazuki Nakagawa, Naoyuki Nishida, Takashi Kobayashi, Hiroyoshi Naito