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	Room	Cap.	March :	14 (Fri.) PM	March 1	.5 (Sat.) PM
	K101	214	9:00 ~ 12:15 13.5 Semiconductor devices/ Interconnect/ Integration technologies	13:30 ~ 16:40 T23 Core technologies of the semiconductor industry supporting the progress in IoT societyFusion & Diversification-	9:00 ~ 12:00 13.5 Semiconductor devices/ Interconnect/ Integration technologies	13:30 ~ 17:30 T24 A la carte Packaging Technologies II: Advanced Semiconductor Packaging Technologies and Those
	K102	214		13:30 ~ 16:50 T29 Developments in materials databases: Accumulating, extracting, and overlooking knowledge	10:30 ~ 11:45 8.7 Plasma Electronics Invited Talk	13:30 ~ 17:40 T14 Plasma-activated solutions and their applications
	K103	265	9:00 ~ 11:15 KS.2 Quantum Information Engineering Group	13:00 ~ 17:15 T1 New technologies toward fault-tolerant quantum computers		13:30 ~ 16:00 NT1 Attention Job Seeking Students! You Can Drive Semiconductor Innovation - Shape the Future with Your Creativity
	K201	126	9:00 ~ 10:30 8.3 Plasma nanotechnology	13:00 ~ 17:30 T7 Current Status and Future Prospects of Phosphor Development Using Compound Semiconductors		13:30 ~ 17:10 T9 Crossroads in Applied Physics: New trends in Glass and Laser Processing Technology
	K202	126		14:00 ~ 16:30 Tutorial		13:30 ~ 17:55 T12 Sensor/actuator functions and emergent order inspired by biological and organic molecular dynamics
	K203	178		13:30 ~ 17:35 T21 New Development of Multicomponent Luminescent Materials: From Chalcopyrite to Perovskite	10:00 ~ 11:25 T11 The roles and prospects of synchrotron radiation in advanced materials science research	13:30 ~ 17:20 T11 The roles and prospects of synchrotron radiation in advanced materials science research
	K204	126	9:00 ~ 12:00 T18 Advanced measurement for organic semiconductor and Metal halide perovskite devices	13:30 ~ 16:15 T18 Advanced measurement for organic semiconductor and Metal halide perovskite devices		13:30 ~ 15:30 T4 In the ocean, in the field and in the living bodies, assembling of advanced electric field sensing technology opens a new world
	K205	126	$10:15\sim12:00$ 1.1 Interdisciplinary and General Physics	13:30 ~ 17:15 T19 Cutting edge nanotechnology for biosensor & 2D materials -Realization of a pandemic-free society with graphene FET sensors capable of rapid detection of human infectious viruses-	9:15 ~ 11:45 1.3 Novel technologies and interdisciplinary engineering	13:00 ~ 15:30 T5 Deployment of science and energy education activities for non-metropolitan areas
	K206	126		13:30 ~ 17:25 T17 New trend in high Tc superconductors ~ What material is beyond cuprate ? ~		13:30 ~ 18:45 T2 Shaping the Future of Green Fabs: Toward Sustainable Manufacturing
	K207	126		13:30 ~ 19:00 17.1 Carbon nanotubes & other nanocarbon materials	9:00 ~ 12:00 17.2 Graphene	13:30 ~ 17:45 T3 State-of-the-art quantum science and technology using solid-state quantum bits
	K209	84	9:00 ~ 12:00 1.4 Energy conversion, storage, resources and environment	13:30 ~ 15:15 1.4 Energy conversion, storage, resources and environment	10:15 ~ 11:30 11.1 Fundamental properties	13:30 ~ 16:45 11.1 Fundamental properties
dg.	K210	84	9:00 ~ 11:30 13.2 Exploratory Materials, Physical Properties, Devices	13:30 ~ 16:00 13:2 Exploratory Materials, Physical Properties, Devices		13:30 ~ 16:45 1.6 Ultrasonics
Lecture Hall Bldg.	K301	160		13:30 ~ 18:15 17.3 Layered materials	9:00 ~ 12:00 17.3 Layered materials	15:45 ~ 19:00 17.3 Layered materials
Lecture	K302	126	10:30 ~ 11:45 10.1 Emerging materials in spintronics and magnetics (including fabrication and characterization methodologies)	13:30 ~ 17:15 10.3 Spin devices, magnetic memories and storages	9:00 ~ 12:00 13.9 Compound solar cells	13:30 ~ 16:30 13.9 Compound solar cells
	K303	126	9:00 ~ 11:30 10.2 Fundamental and exploratory device technologies for spin	$13:30\sim17:00$ $10.2$ Fundamental and exploratory device technologies for spin	9:00 ~ 11:45 10.1 Emerging materials in spintronics and magnetics (including fabrication and characterization methodologies)	13:30 ~ 15:15 10.1 Emerging materials in spintronics and magnetics (including fabrication and characterization methodologies)
	K304	160	9:00 ~ 12:15 3.7 Optical measurement, instrumentation, and sensor	$13:30 \sim 18:30$ 3.7 Optical measurement, instrumentation, and sensor	9:00 ~ 12:15 3.7 Optical measurement, instrumentation, and sensor	15:45 ~ 19:00 3.7 Optical measurement, instrumentation, and sensor
	К305	160		13:30 ~ 17:30 3.1 Basic optics and frontier of optics	9:00 ~ 12:15 3.1 Basic optics and frontier of optics	13:30 ~ 17:15 3.1 Basic optics and frontier of optics
	K306	160	9:00 ~ 11:45 15.7 Crystal characterization, impurities and crystal defects	13:30 ~ 14:15 15.7 Crystal characterization, impurities and crystal defects	9:00 ~ 12:00 3.3 Biomedical optics	13:30 ~ 16:30 3.3 Biomedical optics
	K307	84			9:00 ~ 12:30 9.2 Nanoparticles, Nanowires and Nanosheets	13:30 ~ 17:30 9.4 Thermoelectric conversion
	K308	84		13:30 ~ 16:30 3.5 Ultrashort-pulse and high-intensity lasers	10:00 ~ 11:45 3.5 Ultrashort-pulse and high-intensity lasers	13:30 ~ 15:50 3.5 Ultrashort-pulse and high-intensity lasers
	K309	84	9:00 ~ 11:45 3.4 Laser system and materials	13:30 ~ 17:45 3.4 Laser system and materials	9:30 ~ 11:30 3.9 Optical quantum physics and technologies	13:30 ~ 16:45 3.9 Optical quantum physics and technologies
	K310	84		12:30 ~ 15:30 1.2 Education	10:00 ~ 12:00 15.5 Group IV crystals and alloys	14:00 ~ 16:15 15.5 Group IV crystals and alloys
	K401	214	9:00 ~ 11:30 15.4 III-V-group nitride crystals	13:00 ~ 17:30 15.4 III-V-group nitride crystals	9:00 ~ 11:30 15.4 III-V-group nitride crystals	13:00 ~ 17:30 15.4 III-V-group nitride crystals
	K402	126		13:00 ~ 15:45 15.6 Group IV Compound Semiconductors (SiC)	9:00 ~ 11:15  12.8 Specific theme: Photoelectric Properties, Device Fabrication and Structural Controls of Organic-Inorganic Hybrid Perovskites	13:00 ~ 15:30 12.8 Specific theme: Photoelectric Properties, Device Fabrication and Structural Controls of Organic-Inorganic Hybrid Perovskites
	K403	126		13:00 ~ 16:45 6.2 Carbon-based thin films	9:00 ~ 12:45 13.7 Compound and power devices, process technology and characterization	14:30 ~ 18:45 12.7 Biomedical Engineering and Biochips
	K404	126		13:30 ~ 18:00 12.2 Characterization and Materials Physics	9:00 ~ 12:15 12.2 Characterization and Materials Physics	13:45 ~ 18:45 12.2 Characterization and Materials Physics
	K405	214	11:00 ~ 12:00 Award Ceremony	16:00 ~ 18:00 Award Ceremony	9:00 ~ 12:00 12.5 Organic and hybrid solar cells	13:00 ~ 17:15 12.5 Organic and hybrid solar cells
	K406	126		13:00 ~ 17:15 12.1 Fabrications and Structure Controls	9:00 ~ 12:00 KS.2 Quantum Information Engineering Group	13:30 ~ 16:00 KS.2 Quantum Information Engineering Group

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	Room	Сар.	March 1	.6 (Sun.)	March 1	7 (Mon.) PM	
	K101	214	9:00 ~ 12:00 17.3 Layered materials	13:30 ~ 16:55 T26 Is it feasible to develop high-quality sensors utilizing ultrathin materials? ~Current status and challenges in molecular sensors based on nanotubes and two-dimensional materials~	9:00 ~ 12:30 13.5 Semiconductor devices/ Interconnect/ Integration technologies	13:30 ~ 16:45 13.5 Semiconductor devices/ Interconnect/ Integration technologies	
	K102	214	9:00 ~ 11:15 10.5 Application of magnetic field	13:30 ~ 17:45 T16 New developments in magnetics and spintronics with imaging techniques	9:30 ~ 11:45 17.3 Layered materials	13:30 ~ 16:45 10.4 Spintronics in semiconductor, topological material, superconductor, and multiferroics	
	K103	265	9:00 ~ 11:45 13.4 Si processing /Si based thin film / MEMS / Equipment technology	13:30 ~ 18:05 T10 Frontiers of Optical Science and Innovative Photonics	9:00 ~ 12:00 13.4 Si processing /Si based thin film / MEMS / Equipment technology	13:30 ~ 16:00 13:4 Si processing /Si based thin film / MEMS / Equipment technology	
	K201	126		13:30 ~ 17:30 NT2 How to overcome shortage of scientists in the field of science and engineering start thinking about the career path from 15 years old -	9:00 ~ 11:45 2.2 Radiation generators, Detector development, Measurement technology	13:30 ~ 16:25 T8 Development of plant RI imaging technology and its application in agriculture	
	K202	126	9:30 ~ 12:00 T15 Atomic Layer Process (ALP) analysis and application technologies	13:30 ~ 17:15 T15 Atomic Layer Process (ALP) analysis and application technologies	9:30 ~ 11:45 13.3 Insulator technology	13:00 ~ 14:45 13.3 Insulator technology	
	K203	178	9:00 ~ 11:45 6.3 Oxide electronics	13:30 ~ 17:40 T13 Novel functional oxide materials, devices, techniques for next generation transistor channel application			
	K204	126	10:00 ~ 12:05 T6 Collaboration of acoustics and applied physics	13:30 ~ 15:45 T6 Collaboration of acoustics and applied physics	10:15 ~ 12:00 T20 Current status and future prospects of organic electronics technology	13:30 ~ 15:45 T20 Current status and future prospects of organic electronics technology	
	K205	126	9:00 ~ 10:30 16.2 Energy Harvesting	13:00 ~ 17:30 T27 Frontiers in Low-Power Semiconductor Technologies: Paving the Way for Carbon Neutrality	10:00 ~ 11:35 T28 Frontiers in Nanoscale Heat Transport Phenomena and Control	13:00 ~ 15:05 T28 Frontiers in Nanoscale Heat Transport Phenomena and Control	
	K206	126	9:00 ~ 10:45 11.3 Critical Current, Superconducting Power Applications	13:00 ~ 15:15 11.2 Thin and thick superconducting films, coated conductors and film crystal growth			
	K207	126	9:00 ~ 11:45 17.2 Graphene 9:00 ~ 12:00	13:30 ~ 18:00	10:00 ~ 12:00	13:30 ~ 15:45	
	K209	84	11.5 Junction and circuit fabrication process, digital applications		1.5 Instrumentation, measurement and Metrology	1.5 Instrumentation, measurement and Metrology	
dg.	K210	84					
Lecture Hall Bldg	K301	160	9:00 ~ 12:30 13.7 Compound and power devices, process technology and characterization	14:00 ~ 17:30 13.7 Compound and power devices, process technology and characterization	9:00 ~ 11:45 13.7 Compound and power devices, process technology and characterization	13:15 ~ 17:00 13.7 Compound and power devices, process technology and characterization	
Lectur	K302	126	10:00 ~ 11:30 13.8 Optical properties and light-emitting devices	13:30 ~ 15:00 13.8 Optical properties and light-emitting devices	$10:00\sim11:30$ 13.6 Nanostructures, quantum phenomena, and nano quantum devices	13:30 ~ 16:00 13.6 Nanostructures, quantum phenomena, and nano quantum devices	
	К303	126	9:00 ~ 11:45 8.4 Plasma life sciences	13:30 ~ 16:00 8.4 Plasma life sciences	9:00 ~ 12:00 8.1 Plasma production and diagnostics	13:30 ~ 16:00 8.1 Plasma production and diagnostics	
	K304	160		13:30 ~ 17:15 8.5 Plasma phenomena, emerging area of plasmas and their new applications 17:15 ~ 17:45 8.6 Plasma Electronics English Session	9:00 ~ 12:00 8.2 Plasma deposition of thin film, plasma etching and surface treatment	13:30 ~ 15:45 8.2 Plasma deposition of thin film, plasma etching and surface treatment	
	K305	160	9:00 ~ 11:15 3.13 Silicon photonics, Photonics-electronics convergence, Optical control	13:30 ~ 18:00 3.13 Silicon photonics, Photonics-electronics convergence, Optical control	9:00 ~ 11:30 3.13 Silicon photonics, Photonics-electronics convergence, Optical control	13:30 ~ 17:00 3.13 Silicon photonics, Photonics-electronics convergence, Optical control	
	К306	160	9:00 ~ 12:00 FS.1 Focused Session "AI Electronics"	13:30 ~ 16:30 FS.1 Focused Session "AI Electronics"	9:00 ~ 12:00 FS.1 Focused Session "AI Electronics"	13:30 ~ 16:45 FS.1 Focused Session "AI Electronics"	
	К307	84	9:00 ~ 11:45 9.3 Nanoelectronics	13:30 ~ 18:30 9.1 Dielectrics, ferroelectrics		13:00 ~ 17:00 9.5 New functional materials and new phenomena	
	K308	84	9:00 ~ 11:30 16.3 Bulk, thin-film and other silicon-based solar cells	13:30 ~ 17:15 16.3 Bulk, thin-film and other silicon-based solar cells	9:30 ~ 11:30 16.1 Fundamental properties, evaluation, process and devices in disordered materials	13:30 ~ 16:45 16.1 Fundamental properties, evaluation, process and devices in disordered materials	
	К309	84	10:00 ~ 11:15 9.4 Thermoelectric conversion	13:30 ~ 16:15 3.12 Semiconductor optical devices	10:00 ~ 12:30 3.12 Semiconductor optical devices		
	K310	84	9:30 ~ 11:30 15.3 III-V-group epitaxial crystals, Fundamentals of epitaxy	13:30 ~ 14:45 15:3 III-V-group epitaxial crystals, Fundamentals of epitaxy	9:30 ~ 12:00 15.1 Bulk crystal growth	13:30 ~ 14:00 15.2 II-VI and related compounds	
	K401	214	9:00 ~ 11:30 15.4 III-V-group nitride crystals	13:00 ~ 17:30 15.4 III-V-group nitride crystals	9:00 ~ 12:00 15.4 III-V-group nitride crystals		
	K402	126	9:00 ~ 11:30 CS.7 Code-sharing Session of 12.6 & 12.7	13:00 ~ 17:15 12.6 Nanobiotechnology	9:00 ~ 11:30 12.6 Nanobiotechnology	13:00 ~ 16:00 12.6 Nanobiotechnology	
	K403	126	9:30 ~ 11:15 6.2 Carbon-based thin films	13:00 ~ 16:45 12.7 Biomedical Engineering and Biochips	9:00 ~ 11:30 12.7 Biomedical Engineering and Biochips	13:00 ~ 16:45 12.7 Biomedical Engineering and Biochips	
	K404	126		13:00 ~ 16:00 12.4 Organic light-emitting devices and organic transistors	J J	13:00 ~ 16:30 12.4 Organic light-emitting devices and organic transistors	
	K405	214	9:00 ~ 11:30 12.5 Organic and hybrid solar cells	13:00 ~ 17:00 12.5 Organic and hybrid solar cells	9:00 ~ 11:45 CS.6 Tandem solar cell (Code-sharing Session of 12.5 & 13.9 & 16.3)	13:00 ~ 15:15 12.5 Organic and hybrid solar cells	
	K406	126	$9:00\sim11:30$ 12.3 Functional Materials and Novel Devices	13:00 ~ 17:45 12.3 Functional Materials and Novel Devices	$9:00 \sim 11:30$ 12.3 Functional Materials and Novel Devices	13:00 ~ 15:15 12.3 Functional Materials and Novel Devices	

## Schedule by Room (Room K501-509, Y1311, P)

## March 14-15

	1.		March	14 (Fri.)	March 15 (Sat.)		
	Room	Cap.	AM	PM	AM	PM	
Lecture Hall Bldg.	K501	126			10:00 ~ 11:15 22.1 Joint Session M "Phonon Engineering"	13:00 ~ 16:30 22.1 Joint Session M "Phonon Engineering"	
	K502	126	9:30 ~ 11:45 6.3 Oxide electronics	13:00 ~ 16:15 2.4 Life Sciences, Medical applications, Space and Earth Environment, Radiation Education	9:00 ~ 11:45 2.1 Radiation physics, Material development and characteristic evaluation	13:00 ~ 17:00 2.1 Radiation physics, Material development and characteristic evaluation	
	K503	178		13:00 ~ 17:45 CS.3 Code-sharing Session of 6.1 & 13.3 & 13.5	9:00 ~ 11:15 6.1 Ferroelectric thin films	13:00 ~ 17:00 6.1 Ferroelectric thin films	
	K504	178		13:00 ~ 16:30 3.8 Terahertz technologies		13:00 ~ 17:30 3.8 Terahertz technologies	
	K505	178		13:30 ~ 17:30 3.10 Photonic structures and phenomena	9:30 ~ 11:45	13:15 ~ 15:30 3.10 Photonic structures and phenomena 15:45 ~ 18:30 CS.2 Code-sharing Session of 3.10 & 3.13	
	K506	178	9:00 ~ 11:45 3.11 Nanoscale optical science and near- field optics	$13:15\sim18:00$ $3.11$ Nanoscale optical science and near-field optics	field optics	13:15 ~ 18:30 3.11 Nanoscale optical science and near-field optics	
	K507	84	9:00 ~ 11:30 CS.5 Code-sharing Session of 6.5 & 7.5	13:00 ~ 18:00 CS.5 Code-sharing Session of 6.5 & 7.5	9:00 ~ 11:15 7.2 Applications and technologies of electron beams	13:00 ~ 15:15 7.2 Applications and technologies of electron beams	
	K508	84		13:00 ~ 16:15 3.14 Optics and Photonics English Session	9:00 ~ 11:15 3.2 Information photonics and image engineering	13:00 ~ 18:15 3.2 Information photonics and image engineering	
	K509	84			10:00 ~ 11:30 13.1 Fundamental properties, surface and interface, and simulations of Si related materials	13:30 ~ 15:15 13.1 Fundamental properties, surface and interface, and simulations of Si related materials	
Blda. 13		500		14:00 ~ 15:30 T22 Symposium on Research and Human- Capital Development Activities aimed at Creating Next-Generation Semiconductors Industry		13:30 ~ 16:45 T25 Extreme environment devices	
Morito Memorial Gymnasium	P		[09:30-11:30] 2 Ionizing Radiation 7 Beam Technology and Nanofabrication 8.4 Plasma life sciences 8.5 Plasma phenomena, emerging area of plasmas and their new applications 11 Superconductivity	[13:30-15:30] 6.3 Oxide electronics 6.4 Thin films and New materials 13.7 Compound and power devices, process technology and characterization 15.3 III-V-group epitaxial crystals, Fundamentals of epitaxy 15.4 III-V-group nitride crystals FS Focused Session "AI Electronics"  [16:00-18:00] 1 Interdisciplinary Physics and Related Areas of Science and Technology 12.5 Organic and hybrid solar cells 15.7 Crystal characterization, impurities and crystal defects T22 Symposium on Research and Human-Capital Development Activities aimed at Creating Next-Generation Semiconductors Industry	[09:30-11:30] 3.6 Laser processing 12.3 Functional Materials and Novel Devices 12.4 Organic light-emitting devices and organic transistors 12.6 Nanobiotechnology 12.7 Biomedical Engineering and Biochips 16 Amorphous and Microcrystalline Materials	[13:30-15:30] 3.4 Laser system and materials 3.7 Optical measurement, instrumentation, and sensor 3.13 Silicon photonics, Photonics-electronics convergence, Optical control 3.14 Optics and Photonics English Session 17 Nanocarbon and Two-Dimensional Materials 23 Joint Session N "Informatics"  [16:00-18:00] 10 Spintronics and Magnetics 13.1 Fundamental properties, surface and interface, and simulations of Si related materials 13.4 Si processing /Si based thin film / MEMS / Equipment technology 13.5 Semiconductor devices/ Interconnect/ Integration technologies 13.8 Optical properties and light-emitting devices 21 Joint Session K "Wide bandgap oxide semiconductor materials and devices"	

## Schedule by Room (Room K501-509, Y1311, P)

## March 16-17

	I .		March 1	6 (Sun.)	March 17 (Mon.)		
	Room	Cap.	AM	PM	АМ	PM	
Lecture Hall Bldg.	K501	126		13:00 ~ 18:15 2.2 Radiation generators, Detector development, Measurement technology	9:30 ~ 11:45 6.3 Oxide electronics	13:00 ~ 15:30 6.3 Oxide electronics	
	K502	126	$9:00\sim11:30$ 2.1 Radiation physics, Material development and characteristic evaluation	$13:00\sim16:45$ 2.1 Radiation physics, Material development and characteristic evaluation	9:00 ~ 11:30 CS.4 Code-sharing Session of 6.2 & KS.1	13:00 ~ 15:15 CS.4 Code-sharing Session of 6.2 & KS.1	
	K503	178		13:00 ~ 15:30 KS.1 Solid State Quantum Sensor Group	10:00 ~ 11:30 6.6 Probe Microscopy	13:00 ~ 16:30 6.6 Probe Microscopy	
	K504	178	10:00 ~ 11:30 6.6 Probe Microscopy	13:00 ~ 17:00 6.4 Thin films and New materials	9:30 ~ 11:00 6.4 Thin films and New materials		
	K505	178	9:00 ~ 11:30 23.1 Joint Session N "Informatics"	13:00 ~ 17:45 23.1 Joint Session N "Informatics"	9:00 ~ 11:30 23.1 Joint Session N "Informatics"	13:00 ~ 16:30 23.1 Joint Session N "Informatics"	
	K506	178	9:00 ~ 11:45 3.6 Laser processing	13:00 ~ 18:30 3.6 Laser processing	9:00 ~ 12:00 3.6 Laser processing		
	K507	84		13:00 ~ 17:30 CS.1 Code-sharing Session of 2.3 & 7.4	9:00 ~ 10:45 7.1 X-ray technologies	13:00 ~ 14:45 7.3 Micro/Nano patterning and fabrication	
	K508	84	9:00 ~ 12:00 13.5 Semiconductor devices/ Interconnect/ Integration technologies	13:00 ~ 14:45 3.11 Nanoscale optical science and near- field optics			
	K509	84					
Bldg. 13	Y1311	500		13:00 ~ 17:15 21.1 Joint Session K "Wide bandgap oxide semiconductor materials and devices"	9:00 ~ 11:45 21.1 Joint Session K "Wide bandgap oxide semiconductor materials and devices"	13:00 ~ 15:45 21.1 Joint Session K "Wide bandgap oxide semiconductor materials and devices"	
Morito Memorial Gymnasium	P		[09:30-11:30] 3.1 Basic optics and frontier of optics 3.2 Information photonics and image engineering 3.3 Biomedical optics 3.5 Ultrashort-pulse and high-intensity lasers 3.8 Terahertz technologies 3.10 Photonic structures and phenomena 3.11 Nanoscale optical science and near-field optics 3.12 Semiconductor optical devices 22 Joint Session M "Phonon Engineering"	[13:30-15:30] 8.1 Plasma production and diagnostics 8.2 Plasma deposition of thin film, plasma etching and surface treatment 8.3 Plasma nanotechnology 12.1 Fabrications and Structure Controls 12.2 Characterization and Materials Physics 15.2 II-VI and related compounds 15.5 Group IV crystals and alloys  [16:00-18:00] 6.1 Ferroelectric thin films 6.2 Carbon-based thin films 6.5 Surface Physics, Vacuum 6.6 Probe Microscopy 13.2 Exploratory Materials, Physical Properties, Devices 13.3 Insulator technology 13.6 Nanostructures, quantum phenomena, and nano quantum devices 13.9 Compound solar cells KS Sessions organized by JSAP's Professional Group	[09:30-11:30] 9 Applied Materials Science 12.8 Specific theme: Photoelectric Properties, Device Fabrication and Structural Controls of Organic-Inorganic Hybrid Perovskites		