Schedule by Category (1)

Category	March 14 (Fri.)		March 15 (Sat.)		March 16 (Sun.)		March 17 (Mon.)	
Section	AM	PM	AM	PM	AM	PM	AM	PM
S Symposium								
NT1 Attention Job Seeking Students! You Can Drive Semiconductor Innovation - Shape the Future with Your Creativity				K103 13:30 ~ 16:00				
NT2 How to overcome shortage of scientists in the field of science and engineering. - start thinking about the career path from 15 years old -						K201 13:30 ~ 17:30		
T1 New technologies toward fault-tolerant quantum computers		K103 13:00 ~ 17:15						
T2 Shaping the Future of Green Fabs: Toward Sustainable Manufacturing				K206 13:30 ~ 18:45				
T3 State-of-the-art quantum science and technology using solid-state quantum bits				K207 13:30 ~ 17:45				
T4 In the ocean, in the field and in the living bodies, assembling of advanced electric field sensing technology opens a new world			K204 09:30 ~ 11:45	K204 13:30 ~ 15:30				
T5 Deployment of science and energy education activities for non-metropolitan areas				K205 13:00 ~ 15:30				
T6 Collaboration of acoustics and applied physics					K204 10:00 ~ 12:05	K204 13:30 ~ 15:45		
T7 Current Status and Future Prospects of Phosphor Development Using Compound Semiconductors		K201 13:00 ~ 17:30						
T8 Development of plant RI imaging technology and its application in agriculture								K201 13:30 ~ 16:25
T9 Crossroads in Applied Physics: New trends in Glass and Laser Processing Technology				K201 13:30 ~ 17:10				
T10 Frontiers of Optical Science and Innovative Photonics						K103 13:30 ~ 18:05		
T11 The roles and prospects of synchrotron radiation in advanced materials science research			K203 10:00 ~ 11:25	K203 13:30 ~ 17:20				
T12 Sensor/actuator functions and emergent order inspired by biological and organic molecular dynamics				K202 13:30 ~ 17:55				
T13 Novel functional oxide materials, devices, techniques for next generation transistor channel application						K203 13:30 ~ 17:40		
T14 Plasma-activated solutions and their applications				K102 13:30 ~ 17:40				
T15 Atomic Layer Process (ALP) analysis and application technologies					K202 09:30 ~ 12:00	K202 13:30 ~ 17:15		
T16 New developments in magnetics and spintronics with imaging techniques						K102 13:30 ~ 17:45		
T17 New trend in high Tc superconductors ~ What material is beyond cuprate ? ~		K206 13:30 ~ 17:25						
T18 Advanced measurement for organic semiconductor and Metal halide perovskite devices	K204 09:00 ~ 12:00	K204 13:30 ~ 16:15						
T19 Cutting edge nanotechnology for bio-sensor & 2D materials -Realization of a pandemic-free society with graphene FET sensors capable of rapid detection of human infectious viruses-		K205 13:30 ~ 17:15						
T20 Current status and future prospects of organic electronics technology							K204 10:15 ~ 12:00	K204 13:30 ~ 15:45
T21 New Development of Multicomponent Luminescent Materials: From Chalcopyrite to Perovskite		K203 13:30 ~ 17:35						
T22 Symposium on Research and Human-Capital Development Activities aimed at Creating Next-Generation Semiconductors Industry		Y1311 14:00 ~ 15:30						
		P10 16:00 ~ 18:00						
T23 Core technologies of the semiconductor industry supporting the progress in IoT society. -Fusion & Diversification-		K101 13:30 ~ 16:40						
T24 A la carte Packaging Technologies II: Advanced Semiconductor Packaging Technologies and Those				K101 13:30 ~ 17:30				
T25 Extreme environment devices				Y1311 13:30 ~ 16:45				
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~						K101 13:30 ~ 16:55		
T27 Frontiers in Low-Power Semiconductor Technologies: Paving the Way for Carbon Neutrality						K205 13:00 ~ 17:30		
T28 Frontiers in Nanoscale Heat Transport Phenomena and Control							K205 10:00 ~ 11:35	K205 13:00 ~ 15:35
T29 Developments in materials databases: Accumulating, extracting, and overlooking knowledge		K102 13:30 ~ 16:50						
FS Focused Session "AI Electronics"								
FS.1 Focused Session "AI Electronics"		P06 13:30 ~ 15:30			K306 09:00 ~ 12:00	K306 13:30 ~ 16:30	K306 09:00 ~ 12:00	K306 13:30 ~ 16:45
KS Sessions organized by JSAP's Professional Group								
KS.1 Solid State Quantum Sensor Group						K503 13:00 ~ 15:30		
						P16 16:00 ~ 18:00		
CS.4 Code-sharing Session of 6.2 & KS.1							K502 09:00 ~ 11:30	K502 13:00 ~ 15:15
KS.2 Quantum Information Engineering Group	K103 09:00 ~ 11:15		K406 09:00 ~ 12:00	K406 13:30 ~ 16:00		P16 16:00 ~ 18:00		
KS.3 Green Transition of Fabrication Group						P16 16:00 ~ 18:00		

Schedule by Category (2)

Category	March 14 (Fri.)		March 15 (Sat.)		March 16 (Sun.)		March 17 (Mon.)	
Section	AM	PM	AM	PM	AM	PM	AM	PM
CS Code-sharing session								
CS.1 Code-sharing Session of 2.3 & 7.4						K507 13:00 ~ 17:30		
CS.2 Code-sharing Session of 3.10 & 3.13				K505 15:45 ~ 18:30				
CS.3 Code-sharing Session of 6.1 & 13.3 & 13.5		K503 13:00 ~ 17:45						
CS.4 Code-sharing Session of 6.2 & KS.1							K502 09:00 ~ 11:30	K502 13:00 ~ 15:15
CS.5 Code-sharing Session of 6.5 & 7.5	K507 09:00 ~ 11:30	K507 13:00 ~ 18:00						
CS.6 Tandem solar cell (Code-sharing Session of 12.5 & 13.9 & 16.3)							K405 09:00 ~ 11:45	
CS.7 Code-sharing Session of 12.6 & 12.7					K402 09:00 ~ 11:30			
1 Interdisciplinary Physics and Related Areas of Science and Technology								
1.1 Interdisciplinary and General Physics	K205 10:15 ~ 12:00	P07 16:00 ~ 18:00						
1.2 Education		K310 12:30 ~ 15:30						
1.3 Novel technologies and interdisciplinary engineering		P07 16:00 ~ 18:00	K205 09:15 ~ 11:45					
1.4 Energy conversion, storage, resources and environment	K209 09:00 ~ 12:00	K209 13:30 ~ 15:15						
1.5 Instrumentation, measurement and Metrology		P07 16:00 ~ 18:00					K209 10:00 ~ 12:00	K209 13:30 ~ 15:45
1.6 Ultrasonics				K210 13:30 ~ 16:45				
2 Ionizing Radiation								
2.1 Radiation physics, Material development and characteristic evaluation	P01 09:30 ~ 11:30		K502 09:00 ~ 11:45	K502 13:00 ~ 17:00	K502 09:00 ~ 11:30	K502 13:00 ~ 16:45		
2.2 Radiation generators, Detector development, Measurement technology						K501 13:00 ~ 18:15	K201 09:00 ~ 11:45	
2.3 Accelerator technology, Accelerator mass spectrometry and beam analysis								
CS.1 Code-sharing Session of 2.3 & 7.4						K507 13:00 ~ 17:30		
2.4 Life Sciences, Medical applications, Space and Earth Environment, Radiation Education	P01 09:30 ~ 11:30	K502 13:00 ~ 16:15						
3 Optics and Photonics								
3.1 Basic optics and frontier of optics		K305 13:30 ~ 17:30	K305 09:00 ~ 12:15	K305 13:30 ~ 17:15	P01 09:30 ~ 11:30			
3.2 Information photonics and image engineering			K508 09:00 ~ 11:15	K508 13:00 ~ 18:15	P02 09:30 ~ 11:30			
3.3 Biomedical optics			K306 09:00 ~ 12:00	K306 13:30 ~ 16:30	P03 09:30 ~ 11:30			
3.4 Laser system and materials	K309 09:00 ~ 11:45	K309 13:30 ~ 17:45		P01 13:30 ~ 15:30				
3.5 Ultrashort-pulse and high-intensity lasers		K308 13:30 ~ 16:30	K308 10:00 ~ 11:45	K308 13:30 ~ 15:50	P04 09:30 ~ 11:30			
3.6 Laser processing			P01 09:30 ~ 11:30		K506 09:00 ~ 11:45	K506 13:00 ~ 18:30	K506 09:00 ~ 12:00	
3.7 Optical measurement, instrumentation, and sensor	K304 09:00 ~ 12:15	K304 13:30 ~ 18:30	K304 09:00 ~ 12:15	P02 13:30 ~ 15:30				
				K304 15:45 ~ 19:00				
3.8 Terahertz technologies		K504 13:00 ~ 16:30	K504 09:15 ~ 11:30	K504 13:00 ~ 17:30	P05 09:30 ~ 11:30			
3.9 Optical quantum physics and technologies			K309 09:30 ~ 11:30	K309 13:30 ~ 16:45				
3.10 Photonic structures and phenomena		K505 13:30 ~ 17:30	K505 09:30 ~ 11:45	K505 13:15 ~ 15:30	P06 09:30 ~ 11:30			
CS.2 Code-sharing Session of 3.10 & 3.13				K505 15:45 ~ 18:30				
3.11 Nanoscale optical science and near-field optics	K506 09:00 ~ 11:45	K506 13:15 ~ 18:00	K506 09:00 ~ 11:45	K506 13:15 ~ 18:30	P07 09:30 ~ 11:30	K508 13:00 ~ 14:45		
3.12 Semiconductor optical devices					P08 09:30 ~ 11:30	K309 13:30 ~ 16:15	K309 10:00 ~ 12:30	
3.13 Silicon photonics, Photonics-electronics convergence, Optical control				P03 13:30 ~ 15:30	K305 09:00 ~ 11:15	K305 13:30 ~ 18:00	K305 09:00 ~ 11:30	K305 13:30 ~ 17:00
CS.2 Code-sharing Session of 3.10 & 3.13				K505 15:45 ~ 18:30				
3.14 Optics and Photonics English Session		K508 13:00 ~ 16:15		P04 13:30 ~ 15:30				
6 Thin Films and Surfaces								
6.1 Ferroelectric thin films			K503 09:00 ~ 11:15	K503 13:00 ~ 17:00		P08 16:00 ~ 18:00		
CS.3 Code-sharing Session of 6.1 & 13.3 & 13.5		K503 13:00 ~ 17:45						
6.2 Carbon-based thin films		K403 13:00 ~ 16:45			K403 09:30 ~ 11:15	P09 16:00 ~ 18:00		
CS.4 Code-sharing Session of 6.2 & KS.1							K502 09:00 ~ 11:30	K502 13:00 ~ 15:15
6.3 Oxide electronics	K502 09:30 ~ 11:45	P01 13:30 ~ 15:30			K203 09:00 ~ 11:45		K501 09:30 ~ 11:45	K501 13:00 ~ 15:30
6.4 Thin films and New materials		P02 13:30 ~ 15:30				K504 13:00 ~ 17:00	K504 09:30 ~ 11:00	
6.5 Surface Physics, Vacuum						P10 16:00 ~ 18:00		
CS.5 Code-sharing Session of 6.5 & 7.5	K507 09:00 ~ 11:30	K507 13:00 ~ 18:00						
6.6 Probe Microscopy					K504 10:00 ~ 11:30	P11 16:00 ~ 18:00	K503 10:00 ~ 11:30	K503 13:00 ~ 16:30

Schedule by Category (3)

Category	March 14 (Fri.)		March 15 (Sat.)		March 16 (Sun.)		March 17 (Mon.)	
Section	AM	PM	AM	PM	AM	PM	AM	PM
7 Beam Technology and Nanofabrication								
7.1 X-ray technologies							K507 09:00 ~ 10:45	
7.2 Applications and technologies of electron beams	P02 09:30 ~ 11:30		K507 09:00 ~ 11:15	K507 13:00 ~ 15:15				
7.3 Micro/Nano patterning and fabrication								K507 13:00 ~ 14:45
7.4 Ion beams								
CS.1 Code-sharing Session of 2.3 & 7.4						K507 13:00 ~ 17:30		
7.5 Atomic/molecular beams and beam-related new technologies	P02 09:30 ~ 11:30							
CS.5 Code-sharing Session of 6.5 & 7.5	K507 09:00 ~ 11:30	K507 13:00 ~ 18:00						
8 Plasma Electronics								
8.1 Plasma production and diagnostics						P01 13:30 ~ 15:30	K303 09:00 ~ 12:00	K303 13:30 ~ 16:00
8.2 Plasma deposition of thin film, plasma etching and surface treatment						P02 13:30 ~ 15:30	K304 09:00 ~ 12:00	K304 13:30 ~ 15:45
8.3 Plasma nanotechnology	K201 09:00 ~ 10:45					P03 13:30 ~ 15:30		
8.4 Plasma life sciences	P03 09:30 ~ 11:30				K303 09:00 ~ 11:45	K303 13:30 ~ 16:00		
8.5 Plasma phenomena, emerging area of plasmas and their new applications	P04 09:30 ~ 11:30					K304 13:30 ~ 17:15		
8.6 Plasma Electronics English Session						K304 17:15 ~ 17:45		
8.7 Plasma Electronics Invited Talk			K102 10:30 ~ 11:45					
9 Applied Materials Science								
9.1 Dielectrics, ferroelectrics						K307 13:30 ~ 18:30	P01 09:30 ~ 11:30	
9.2 Nanoparticles, Nanowires and Nanosheets			K307 09:00 ~ 12:30					
9.3 Nanoelectronics					K307 09:00 ~ 11:45			
9.4 Thermoelectric conversion				K307 13:30 ~ 17:30	K309 10:00 ~ 11:15			
9.5 New functional materials and new phenomena								K307 13:00 ~ 17:00
10 Spintronics and Magnetics								
10.1 Emerging materials in spintronics and magnetics (including fabrication and characterization methodologies)	K302 10:30 ~ 11:45		K303 09:00 ~ 11:45	K303 13:30 ~ 15:15				
10.2 Fundamental and exploratory device technologies for spin	K303 09:00 ~ 11:30	K303 13:30 ~ 17:00		P07 16:00 ~ 18:00				
10.3 Spin devices, magnetic memories and storages		K302 13:30 ~ 17:15						
10.4 Spintronics in semiconductor, topological material, superconductor, and multiferroics								K102 13:30 ~ 16:45
10.5 Application of magnetic field					K102 09:00 ~ 11:15			
11 Superconductivity								
11.1 Fundamental properties			K209 10:15 ~ 11:30	K209 13:30 ~ 16:45				
11.2 Thin and thick superconducting films, coated conductors and film crystal growth						K206 13:00 ~ 15:15		
11.3 Critical Current, Superconducting Power Applications	P05 09:30 ~ 11:30				K206 09:00 ~ 10:45			
11.4 Analog applications and their related technologies						K209 13:30 ~ 18:00		
11.5 Junction and circuit fabrication process, digital applications					K209 09:00 ~ 12:00			
12 Organic Molecules and Bioelectronics								
12.1 Fabrications and Structure Controls		K406 13:00 ~ 17:15				P04 13:30 ~ 15:30		
12.2 Characterization and Materials Physics		K404 13:30 ~ 18:00	K404 09:00 ~ 12:15	K404 13:45 ~ 18:45		P05 13:30 ~ 15:30		
12.3 Functional Materials and Novel Devices			P02 09:30 ~ 11:30		K406 09:00 ~ 11:30	K406 13:00 ~ 17:45	K406 09:00 ~ 11:30	K406 13:00 ~ 15:15
12.4 Organic light-emitting devices and organic transistors			P03 09:30 ~ 11:30			K404 13:00 ~ 16:00		K404 13:00 ~ 16:30
12.5 Organic and hybrid solar cells		P08 16:00 ~ 18:00	K405 09:00 ~ 12:00	K405 13:00 ~ 17:15	K405 09:00 ~ 11:30	K405 13:00 ~ 17:00		K405 13:00 ~ 15:15
CS.6 Tandem solar cell (Code-sharing Session of 12.5 & 13.9 & 16.3)							K405 09:00 ~ 11:45	
12.6 Nanobiotechnology			P04 09:30 ~ 11:30			K402 13:00 ~ 17:15	K402 09:00 ~ 11:30	K402 13:00 ~ 16:00
CS.7 Code-sharing Session of 12.6 & 12.7					K402 09:00 ~ 11:30			
12.7 Biomedical Engineering and Biochips			P05 09:30 ~ 11:30	K403 14:30 ~ 18:45		K403 13:00 ~ 16:45	K403 09:00 ~ 11:30	K403 13:00 ~ 16:45
CS.7 Code-sharing Session of 12.6 & 12.7					K402 09:00 ~ 11:30			
12.8 Specific theme: Photoelectric Properties, Device Fabrication and Structural Controls of Organic-Inorganic Hybrid Perovskites			K402 09:00 ~ 11:15	K402 13:00 ~ 15:30			P02 09:30 ~ 11:30	

Schedule by Category (4)

Category	March 14 (Fri.)		March 15 (Sat.)		March 16 (Sun.)		March 17 (Mon.)	
Section	AM	PM	AM	PM	AM	PM	AM	PM
13 Semiconductors								
13.1 Fundamental properties, surface and interface, and simulations of Si related materials			K509 10:00 ~ 11:30	K509 13:30 ~ 15:15				
				P08 16:00 ~ 18:00				
13.2 Exploratory Materials, Physical Properties, Devices	K210 09:00 ~ 11:30	K210 13:30 ~ 16:00				P12 16:00 ~ 18:00		
13.3 Insulator technology						P13 16:00 ~ 18:00	K202 09:30 ~ 11:45	K202 13:00 ~ 14:45
CS.3 Code-sharing Session of 6.1 & 13.3 & 13.5		K503 13:00 ~ 17:45						
13.4 Si processing /Si based thin film / MEMS / Equipment technology				P09 16:00 ~ 18:00	K103 09:00 ~ 11:45		K103 09:00 ~ 12:00	K103 13:30 ~ 16:00
13.5 Semiconductor devices/ Interconnect/ Integration technologies	K101 09:00 ~ 12:15		K101 09:00 ~ 12:00	P10 16:00 ~ 18:00	K508 09:00 ~ 12:00		K101 09:00 ~ 12:30	K101 13:30 ~ 16:45
CS.3 Code-sharing Session of 6.1 & 13.3 & 13.5		K503 13:00 ~ 17:45						
13.6 Nanostructures, quantum phenomena, and nano quantum devices						P14 16:00 ~ 18:00	K302 10:00 ~ 11:30	K302 13:30 ~ 16:00
13.7 Compound and power devices, process technology and characterization		P03 13:30 ~ 15:30	K403 09:00 ~ 12:45		K301 09:00 ~ 12:30	K301 14:00 ~ 17:30	K301 09:00 ~ 11:45	K301 13:15 ~ 17:00
13.8 Optical properties and light-emitting devices				P11 16:00 ~ 18:00	K302 10:00 ~ 11:30	K302 13:30 ~ 15:00		
13.9 Compound solar cells			K302 09:00 ~ 12:00	K302 13:30 ~ 16:30		P15 16:00 ~ 18:00		
CS.6 Tandem solar cell (Code-sharing Session of 12.5 & 13.9 & 16.3)							K405 09:00 ~ 11:45	
15 Crystal Engineering								
15.1 Bulk crystal growth							K310 09:30 ~ 12:00	
15.2 II-VI and related compounds						P06 13:30 ~ 15:30		K310 13:30 ~ 14:00
15.3 III-V-group epitaxial crystals, Fundamentals of epitaxy		P04 13:30 ~ 15:30			K310 09:30 ~ 11:30	K310 13:30 ~ 14:45		
15.4 III-V-group nitride crystals	K401 09:00 ~ 11:30	K401 13:00 ~ 17:30	K401 09:00 ~ 11:30	K401 13:00 ~ 17:30	K401 09:00 ~ 11:30	K401 13:00 ~ 17:30	K401 09:00 ~ 12:00	
		P05 13:30 ~ 15:30						
15.5 Group IV crystals and alloys			K310 10:00 ~ 12:00	K310 14:00 ~ 16:15		P07 13:30 ~ 15:30		
15.6 Group IV Compound Semiconductors (SiC)		K402 13:00 ~ 15:45						
15.7 Crystal characterization, impurities and crystal defects	K306 09:00 ~ 11:45	K306 13:30 ~ 14:15						
		P09 16:00 ~ 18:00						
16 Amorphous and Microcrystalline Materials								
16.1 Fundamental properties, evaluation, process and devices in disordered materials			P06 09:30 ~ 11:30				K308 09:30 ~ 11:30	K308 13:30 ~ 16:45
16.2 Energy Harvesting					K205 09:00 ~ 10:30			
16.3 Bulk, thin-film and other silicon-based solar cells					K308 09:00 ~ 11:30	K308 13:30 ~ 17:15		
CS.6 Tandem solar cell (Code-sharing Session of 12.5 & 13.9 & 16.3)							K405 09:00 ~ 11:45	
17 Nanocarbon and Two-Dimensional Materials								
17.1 Carbon nanotubes & other nanocarbon materials		K207 13:30 ~ 19:00		P05 13:30 ~ 15:30				
17.2 Graphene			K207 09:00 ~ 12:00		K207 09:00 ~ 11:45			
17.3 Layered materials		K301 13:30 ~ 18:15	K301 09:00 ~ 12:00		K101 09:00 ~ 12:00		K102 09:30 ~ 11:45	
				K301 15:45 ~ 19:00				
21 Joint Session K "Wide bandgap oxide semiconductor materials and devices"								
21.1 Joint Session K "Wide bandgap oxide semiconductor materials and devices"				P12 16:00 ~ 18:00	Y1311 09:00 ~ 11:30	Y1311 13:00 ~ 17:15	Y1311 09:00 ~ 11:45	Y1311 13:00 ~ 15:45
22 Joint Session M "Phonon Engineering"								
22.1 Joint Session M "Phonon Engineering"			K501 10:00 ~ 11:15	K501 13:00 ~ 16:30	P09 09:30 ~ 11:30			
23 Joint Session N "Informatics"								
23.1 Joint Session N "Informatics"				P06 13:30 ~ 15:30	K505 09:00 ~ 11:30	K505 13:00 ~ 17:45	K505 09:00 ~ 11:30	K505 13:00 ~ 16:30