

Schedule by Category (I)

Category Section	September 20 (Tue.)		September 21 (Wed.)		September 22 (Thu.)		September 23 (Fri.)	
	AM	PM	AM	PM	AM	PM	AM	PM
S Symposium								
NT1 New Interfaces for Human Augmentation								A200 13:30 ~ 16:30
NT2 Must-see for job hunting students! I have been an engineer thanks to JSAP - Message from us working in rapidly growing semiconductor industry -					A200 09:40 ~ 12:00			
T1 Expectations for applied physics for the utilization of unused energy				C200 13:30 ~ 16:15				
T2 Human Resource Development and Education Initiatives in Science Education and its Revitalization -								A307 13:30 ~ 15:30
T3 Recent trends in radiation detection and measurements and impact of new CORONA infections on			B103 09:00 ~ 12:10					
T4 Device and material technologies based on wireless and optics convergence toward next-generation THz-communication		C200 13:30 ~ 18:30						
T5 New Frontiers on Glasses and Glassy states ~2022 International Glass Year IYOG Memorial Symposium~	B200 09:00 ~ 11:10	B200 13:30 ~ 17:35						
T6 Future-oriented ventures and their support system ~Innovation and development of new business created by photonics V~				B102 13:00 ~ 17:50				
T7 Swarm Intelligence: Emergent intelligence in a swarm of creatures, robots, or materials						A401 13:30 ~ 18:30		
T8 Co-evolution of advanced analysis and functional oxide research						B101 13:30 ~ 17:45		
T9 Applied Physics to controll cell fate: Innovation by plasma science and biotechnology				B200 13:15 ~ 18:45				
T10 Cutting edge of Thermoelectric Researches in Industry and Academia: from Materials Informatics to IoT applications					B200 09:00 ~ 11:55	B200 13:30 ~ 17:35		
T11 Cutting-edge Research and Perspectives of Artificial Odor (Smell) Electronics and Informatics			A401 10:00 ~ 12:05	A401 13:30 ~ 16:15				
T12 Future perspectives in Spintronics "Memorial symposium of 20th anniversary of JSAP Spintronics professional group"				A200 13:30 ~ 17:45				
T13 Creation and application of perovskite as a next-generation materials			B101 09:30 ~ 12:00	B101 13:30 ~ 16:30				
T14 Neuroscience, neuroengineering, and neurocomputing for next-generation ICT and medicine		A401 13:30 ~ 17:40						
T15 Innovative Properties Brought by Hetero-structure Materials	A307 10:00 ~ 11:30	A307 13:00 ~ 16:45						
T16 Forefront of interface science and technology of wide bandgap semiconductor MOS devices				M206 13:30 ~ 17:35				
T17 Revisiting semiconductor light-emitting materials and optical characterization by unique spectroscopic						B102 13:30 ~ 17:30		
T18 Latest trend of quantum information technology based on semiconductors						A200 13:30 ~ 18:00		
T19 Semiconductor Manufacturing and Process Technologies for Green Transformation				B104 13:30 ~ 17:30				
T20 Recent Progress of Energy Harvesting	B102 09:45 ~ 12:05	B102 13:30 ~ 16:50						
T21 State of the art of glass materials for solid electrolytes ~2022 International Glass Year IYOG Memorial Symposium~				B103 13:30 ~ 17:45				
T22 Past, current, and future of hexagonal BN		A200 13:30 ~ 18:10						
T23 Recent Advances in Topological Phononics/Mechanics and Related Science				A307 13:30 ~ 17:15				
T24 Innovation and application of measurement informatics							B200 10:00 ~ 11:50	B200 13:00 ~ 17:00
T25 In-materio AI computing		M206 13:30 ~ 18:15						
FS Focused Session "AI Electronics"								
FS.1 Focused Session	M206 09:00 ~ 12:00		C201 09:00 ~ 12:00	P13 13:30 ~ 15:30	B101 09:00 ~ 12:00		M206 09:00 ~ 12:00	M206 13:30 ~ 17:00
CS Code-sharing session								
CS.1 Code-sharing Session of 2.3 & 7.5					C205 09:15 ~ 12:00	C205 13:30 ~ 17:45		
CS.2 Code-sharing Session of 3.2 & 4.4		C205 13:30 ~ 17:15	C205 10:00 ~ 12:00					
CS.3 Code-sharing Session of 3.4 & 3.13						A402 16:45 ~ 18:30		
CS.4 Code-sharing Session of 3.10 & 3.11						A101 15:45 ~ 18:30		
CS.5 Code-sharing Session of 3.10 & 3.12					C101 09:15 ~ 12:15			
CS.6 Code-sharing Session of 4.5 & 17			C302 09:00 ~ 12:30					
CS.7 Code-sharing Session of 6.1 & 13.3 & 13.5						A307 13:30 ~ 18:00		
CS.8 Code-sharing Session of 6.5 & 7.6					A404 10:00 ~ 11:30			
CS.9 Code-sharing Session of 8.3 & 9.2 & 13.6							B102 09:00 ~ 12:00	
CS.10 Code-sharing Session of 12.6 & 12.7			A200 09:00 ~ 12:30					

Schedule by Category (II)

Category Section	September 20 (Tue.)		September 21 (Wed.)		September 22 (Thu.)		September 23 (Fri.)	
	AM	PM	AM	PM	AM	PM	AM	PM
1 Interdisciplinary Physics and Related Areas of Science and Technology								
1.1 Interdisciplinary and General Physics		A302 13:00 ~ 15:30						
1.2 Education					P01 09:30 ~ 11:30	C101 13:30 ~ 17:00		
1.3 Novel technologies and interdisciplinary engineering	P01 09:30 ~ 11:30			A301 13:00 ~ 16:45				
1.4 Energy conversion, storage, resources and environment	P02 09:30 ~ 11:30						A306 09:00 ~ 11:00	A306 13:00 ~ 16:15
1.5 Instrumentation, measurement and Metrology	P03 09:30 ~ 11:30	A301 13:15 ~ 16:45						
1.6 Ultrasonics	P04 09:30 ~ 11:30					C105 13:30 ~ 18:00		
2 Ionizing Radiation								
2.1 Detection Devices	A102 09:00 ~ 12:00	A102 13:00 ~ 16:00	B201 09:00 ~ 12:00					
2.2 Radiation physics fundamentals & applications, radiation generators, new technology	C201 09:30 ~ 11:30	C201 13:30 ~ 15:45						
2.3 Accelerator Mass Spectrometry, Accelerator Beam Analysis *Code-sharing Session with 7.5				P14 16:00 ~ 18:00	P02 09:30 ~ 11:30	C205 13:30 ~ 17:45		
2.4 Medical application						A102 13:00 ~ 17:45		
2.5 Radiation-induced phosphors							A102 09:00 ~ 12:00	A102 13:00 ~ 16:45
3 Optics and Photonics								
3.1 Basic optics and frontier of optics (merged with formerly 3.2 Equipment optics and materials)	A202 09:00 ~ 11:00	A202 13:00 ~ 18:00	A307 09:00 ~ 11:15	P01 13:30 ~ 15:30				
3.2 Information photonics and image engineering (formerly 3.3)				P02 13:30 ~ 15:30				
CS.2 Code-sharing Session of 3.2 & 4.4		C205 13:30 ~ 17:15	C205 10:00 ~ 12:00					
3.3 Biomedical optics (formerly 3.4)	C301 09:00 ~ 11:45	C301 13:30 ~ 18:15		P03 13:30 ~ 15:30				
3.4 Laser system and materials (formerly 3.5)				P04 13:30 ~ 15:30	A402 09:00 ~ 11:30	A402 13:00 ~ 16:30		
CS.3 Code-sharing Session of 3.4 & 3.13						A402 16:45 ~ 18:30		
3.5 Ultrashort-pulse and high-intensity lasers (formerly 3.6)					C206 09:00 ~ 12:00	C206 13:30 ~ 17:00	C206 09:00 ~ 11:00	C206 13:30 ~ 16:45
3.6 Laser processing (formerly 3.7)			A306 09:00 ~ 11:30	P05 13:30 ~ 15:30	C301 09:00 ~ 12:00	C301 13:30 ~ 18:15	C301 09:00 ~ 12:00	C301 13:30 ~ 16:00
3.7 Optical measurement, instrumentation, and sensor (formerly 3.8)						C302 13:30 ~ 18:15	C302 09:00 ~ 11:30	C302 13:30 ~ 16:30
3.8 Terahertz technologies (formerly 3.9)			A202 09:30 ~ 11:15	A202 13:00 ~ 16:30	C201 09:00 ~ 11:45	P01 13:30 ~ 15:30		
3.9 Optical quantum physics and technologies (formerly 3.10)	A404 09:00 ~ 11:30	A404 13:00 ~ 17:45	A404 09:00 ~ 11:30	P06 13:30 ~ 15:30				
3.10 Photonic structures and phenomena (formerly 3.11)	A101 09:00 ~ 12:00	A101 13:15 ~ 17:45	A101 09:00 ~ 12:00	A101 13:15 ~ 17:45		P03 13:30 ~ 15:30		
CS.4 Code-sharing Session of 3.10 & 3.11						A101 15:45 ~ 18:30		
CS.5 Code-sharing Session of 3.10 & 3.12					C101 09:15 ~ 12:15			
3.11 Nanoscale optical science and near-field optics (formerly 3.12)				A404 13:00 ~ 17:45	A101 09:00 ~ 10:45	P04 13:30 ~ 15:30	A101 09:00 ~ 11:30	A101 13:00 ~ 16:30
CS.4 Code-sharing Session of 3.10 & 3.11						A101 15:45 ~ 18:30		
3.12 Semiconductor optical devices (formerly 3.13)			C301 09:00 ~ 11:45	C301 13:30 ~ 16:15		P05 13:30 ~ 15:30		
CS.5 Code-sharing Session of 3.10 & 3.12					C101 09:15 ~ 12:15			
3.13 Optical control devices and optical fibers (formerly 3.14)				A406 15:00 ~ 17:30			A406 09:00 ~ 10:15	A406 13:00 ~ 15:45
CS.3 Code-sharing Session of 3.4 & 3.13						A402 16:45 ~ 18:30		
3.14 Silicon photonics and integrated photonics (formerly 3.15)			A205 09:00 ~ 11:45	A205 13:00 ~ 18:45		P06 13:30 ~ 15:30		
4 JSAP-Optica-SPP Joint Symposia 2022								
4.1 Plasmonics and Nanophotonics	C304 09:00 ~ 12:15	C304 13:30 ~ 17:30						
4.2 Photonics Devices, Photonic Integrated Circuit and Silicon Photonics			C304 09:00 ~ 11:45	C304 13:30 ~ 15:15				
4.3 Lasers and laser materials processing							C205 09:30 ~ 11:15	C205 13:15 ~ 17:00
4.4 Information Photonics *Code-sharing Session with 3.2		C205 13:30 ~ 17:15	C205 10:00 ~ 12:00					
4.5 Nanocarbon and 2D Materials *Code-sharing Session of 17 Nanocarbon Technology			C302 09:00 ~ 12:30					
4.6 Terahertz Photonics							C202 10:00 ~ 12:00	C202 13:30 ~ 16:00
4.7 Quantum Optics and Nonlinear Optics				C302 16:15 ~ 19:00	C302 09:00 ~ 10:30			
4.8 Optica Special Lecture				C302 13:30 ~ 15:45				

Schedule by Category (III)

Category Section	September 20 (Tue.)		September 21 (Wed.)		September 22 (Thu.)		September 23 (Fri.)	
	AM	PM	AM	PM	AM	PM	AM	PM
6 Thin Films and Surfaces								
6.1 Ferroelectric thin films	B103 09:00 ~ 12:15	B103 13:30 ~ 19:00		P15 16:00 ~ 18:00				
CS.7 Code-sharing Session of 6.1 & 13.3 & 13.5						A307 13:30 ~ 18:00		
6.2 Carbon-based thin films			P01 09:30 ~ 11:30		A202 09:00 ~ 11:30	A202 13:00 ~ 19:00	A202 09:00 ~ 11:30	A202 13:00 ~ 17:00
6.3 Oxide electronics	B204 09:00 ~ 12:00	B204 13:30 ~ 17:00	B204 09:00 ~ 11:45	B204 13:30 ~ 18:00	A401 10:00 ~ 11:30	P07 13:30 ~ 15:30	A401 10:00 ~ 11:30	
6.4 Thin films and New materials	C302 09:00 ~ 11:30	C302 13:30 ~ 16:45		P16 16:00 ~ 18:00	C202 09:30 ~ 11:30	C202 13:00 ~ 16:15		
6.5 Surface Physics, Vacuum		P01 13:30 ~ 15:30		C106 13:30 ~ 16:30				
CS.8 Code-sharing Session of 6.5 & 7.6					A404 10:00 ~ 11:30			
6.6 Probe Microscopy		A205 13:00 ~ 16:30		C201 13:30 ~ 16:30	P03 09:30 ~ 11:30			
7 Beam Technology and Nanofabrication								
7.1 X-ray technologies				C206 13:30 ~ 17:00				
7.2 Applications and technologies of electron beams			C306 09:00 ~ 11:45	C306 13:30 ~ 14:45				
7.3 Micro/Nano patterning and fabrication	C101 09:00 ~ 12:30						P03 09:30 ~ 11:30	
7.4 Buried interface sciences with quantum beam					A404 09:00 ~ 09:30			
7.5 Ion beams *Code-sharing Session with 2.3					C205 09:15 ~ 12:00	C205 13:30 ~ 17:45		
7.6 Atomic/molecular beams and beam-related new technologies *Code-sharing Session with 6.5					A404 10:00 ~ 11:30			
8 Plasma Electronics								
8.1 Plasma production and diagnostics	A105 09:00 ~ 11:30	A105 14:00 ~ 17:00						
8.2 Plasma deposition of thin film, plasma etching and surface treatment						A406 13:00 ~ 17:00	B101 09:00 ~ 11:45	
8.3 Plasma nanotechnology					P04 09:30 ~ 11:30			B102 13:30 ~ 15:45
CS.9 Code-sharing Session of 8.3 & 9.2 & 13.6							B102 09:00 ~ 12:00	
8.4 Plasma life sciences	A106 09:00 ~ 11:00	A106 14:00 ~ 17:15						
8.5 Plasma phenomena, emerging area of plasmas and their new applications						A404 13:00 ~ 15:00	A307 09:30 ~ 10:45	
8.6 Plasma Electronics English Session						A404 16:30 ~ 18:15		
8.7 Plasma Electronics Invited Talk		A106 13:00 ~ 13:45	B200 10:15 ~ 11:00		P04 09:30 ~ 11:30	A404 15:15 ~ 15:30		
8.8 Plasma Electronics Division Award Speech			B200 09:00 ~ 10:00			A404 15:30 ~ 16:15		
9 Applied Materials Science								
9.1 Dielectrics, ferroelectrics		A304 13:00 ~ 17:15		P07 13:30 ~ 15:30				
9.2 Nanoparticles, Nanowires and Nanosheets				P08 13:30 ~ 15:30				B101 13:30 ~ 17:00
CS.9 Code-sharing Session of 8.3 & 9.2 & 13.6							B102 09:00 ~ 12:00	
9.3 Nanoelectronics		P03 16:00 ~ 18:00	A102 09:30 ~ 11:15	A102 13:00 ~ 15:45				
9.4 Thermoelectric conversion		A402 13:00 ~ 14:30	C102 09:00 ~ 12:00	C102 13:30 ~ 18:15				
				P09 13:30 ~ 15:30				
9.5 New functional materials and new phenomena	C102 09:45 ~ 11:45	C102 13:30 ~ 17:45		P10 13:30 ~ 15:30				
10 Spintronics and Magnetics								
10.1 Emerging materials in spintronics and magnetics (including fabrication and characterization methodologies)					B201 09:00 ~ 12:00	B201 13:30 ~ 16:15		
10.2 Fundamental and exploratory device technologies for spin			P02 09:30 ~ 11:30		A205 09:00 ~ 12:00	A205 13:30 ~ 18:30	A205 09:00 ~ 12:30	
10.3 Spin devices, magnetic memories and storages	B101 09:30 ~ 12:15	B101 13:45 ~ 17:30						
10.4 Spintronics in semiconductor, topological material, superconductor, and multiferroics							B201 09:00 ~ 12:15	B201 13:45 ~ 16:45
10.5 Application of magnetic field			B104 09:00 ~ 12:00					
			P02 09:30 ~ 11:30					
11 Superconductivity								
11.1 Fundamental properties				A302 13:00 ~ 15:30	A302 09:15 ~ 11:30	A302 13:00 ~ 16:30		
11.2 Thin and thick superconducting films, coated conductors and film crystal growth				A304 13:00 ~ 16:45				
11.3 Critical Current, Superconducting Power Applications			P03 09:30 ~ 11:30		A304 09:00 ~ 11:30			
11.4 Analog applications and their related technologies				A306 13:00 ~ 17:30	A306 09:00 ~ 11:30			
11.5 Junction and circuit fabrication process, digital applications						A306 13:00 ~ 14:45		

Schedule by Category (IV)

Category Section	September 20 (Tue.)		September 21 (Wed.)		September 22 (Thu.)		September 23 (Fri.)	
	AM	PM	AM	PM	AM	PM	AM	PM
12 Organic Molecules and Bioelectronics								
12.1 Fabrications and Structure Controls	C106 09:00 ~ 11:30	C106 13:30 ~ 17:30	C106 09:00 ~ 11:45			P13 16:00 ~ 18:00		
12.2 Characterization and Materials Physics				P17 16:00 ~ 18:00	C106 09:00 ~ 12:00	C106 13:30 ~ 18:00	C106 09:00 ~ 11:15	
12.3 Functional Materials and Novel Devices	C105 09:00 ~ 12:00	C105 13:30 ~ 17:45		P18 16:00 ~ 18:00	C105 09:00 ~ 11:45		C105 09:00 ~ 12:00	C105 13:30 ~ 16:45
12.4 Organic light-emitting devices and organic transistors	B104 09:00 ~ 12:00	B104 13:30 ~ 19:00	P04 09:30 ~ 11:30		B104 09:30 ~ 12:00	B104 13:30 ~ 17:30		
12.5 Organic solar cells		P02 13:30 ~ 15:30			B103 09:00 ~ 12:15	B103 13:30 ~ 18:30	B103 09:00 ~ 12:15	B103 13:30 ~ 17:00
12.6 Nanobiotechnology	P05 09:30 ~ 11:30				A106 09:00 ~ 11:15	A106 13:00 ~ 17:45		
CS.10 Code-sharing Session of 12.6 & 12.7			A200 09:00 ~ 12:30					
12.7 Biomedical Engineering and Biochips	P06 09:30 ~ 11:30				A105 09:00 ~ 12:00	A105 13:00 ~ 18:45	A105 09:00 ~ 12:30	A105 13:30 ~ 17:00
CS.10 Code-sharing Session of 12.6 & 12.7			A200 09:00 ~ 12:30					
13 Semiconductors								
13.1 Fundamental properties, surface and interface, and simulations of Si related materials	P07 09:30 ~ 11:30		C206 09:00 ~ 12:30					
13.2 Exploratory Materials, Physical Properties, Devices	P08 09:30 ~ 11:30						C101 09:00 ~ 12:15	C101 13:45 ~ 17:00
13.3 Insulator technology							P04 09:30 ~ 11:30	C102 13:15 ~ 17:00
CS.7 Code-sharing Session of 6.1 & 13.3 & 13.5						A307 13:30 ~ 18:00		
13.4 Si processing /Si based thin film / MEMS / Equipment technology	A406 09:00 ~ 11:30	A406 13:00 ~ 16:30	A406 09:00 ~ 11:15		A406 09:00 ~ 10:15		P05 09:30 ~ 11:30	
13.5 Semiconductor devices/ Interconnect/ Integration technologies			C105 09:00 ~ 12:15	C105 13:30 ~ 16:30	A102 09:00 ~ 11:45			
CS.7 Code-sharing Session of 6.1 & 13.3 & 13.5						A307 13:30 ~ 18:00		
13.6 Nanostructures, quantum phenomena, and nano quantum devices		C401 13:30 ~ 18:00				P14 16:00 ~ 18:00		
CS.9 Code-sharing Session of 8.3 & 9.2 & 13.6							B102 09:00 ~ 12:00	
13.7 Compound and power devices, process technology and characterization		P04 16:00 ~ 18:00	M206 09:00 ~ 12:30		B204 09:00 ~ 12:00	B204 13:30 ~ 18:15	B204 09:00 ~ 12:00	B204 13:30 ~ 15:45
13.8 Optical properties and light-emitting devices			C101 09:30 ~ 12:00	C101 13:30 ~ 17:30		P15 16:00 ~ 18:00		
13.9 Compound solar cells			B202 09:00 ~ 12:00	B202 13:30 ~ 17:00	A307 09:00 ~ 10:45	P08 13:30 ~ 15:30		
15 Crystal Engineering								
15.1 Bulk crystal growth	C206 09:30 ~ 11:45	C206 13:30 ~ 16:45				P09 13:30 ~ 15:30		
15.2 II-VI and related compounds					B102 09:00 ~ 10:30	P16 16:00 ~ 18:00		
15.3 III-V-group epitaxial crystals, Fundamentals of epitaxy			A105 09:00 ~ 11:30	A105 13:00 ~ 15:30		P10 13:30 ~ 15:30		
15.4 III-V-group nitride crystals	C200 09:00 ~ 12:00	B201 13:30 ~ 18:00 B202 13:30 ~ 16:30	C200 09:00 ~ 12:00	B201 13:30 ~ 18:00	C200 09:00 ~ 12:00	C200 13:30 ~ 18:00	C200 09:00 ~ 12:00	C200 13:30 ~ 16:30
15.5 Group IV crystals and alloys			A106 09:00 ~ 11:15	A106 13:00 ~ 17:45		P11 13:30 ~ 15:30		
15.6 Group IV Compound Semiconductors (SiC)	C306 09:00 ~ 12:00	C306 13:30 ~ 15:45 P05 16:00 ~ 18:00						
15.7 Crystal characterization, impurities and crystal defects	C202 09:00 ~ 12:00	C202 13:30 ~ 15:45				P12 13:30 ~ 15:30		
16 Amorphous and Microcrystalline Materials								
16.1 Fundamental properties, evaluation, process and devices in disordered materials			A302 09:00 ~ 11:00		A301 09:00 ~ 11:15	A301 13:30 ~ 17:45		
16.2 Energy Harvesting			A304 09:00 ~ 11:00					
16.3 Bulk, thin-film and other silicon-based solar cells		C101 13:30 ~ 18:15		P11 13:30 ~ 15:30				
17 Nanocarbon Technology								
17.1 Carbon nanotubes & other nanocarbon materials					B203 09:00 ~ 11:45	B203 13:30 ~ 19:00	B203 09:00 ~ 12:00	
17.2 Graphene				P12 13:30 ~ 15:30		B202 13:30 ~ 18:00	B202 09:00 ~ 12:00	B202 13:30 ~ 17:00
17.3 Layered materials	A200 09:00 ~ 11:30		C202 09:00 ~ 12:00		B202 09:00 ~ 12:00			B203 13:30 ~ 17:00
CS.6 Code-sharing Session of 4.5 & 17			C302 09:00 ~ 12:30					
21 Joint Session K "Wide bandgap oxide semiconductor materials and devices"								
21.1 Joint Session K "Wide bandgap oxide semiconductor materials and devices"	B203 09:00 ~ 11:45	B203 13:00 ~ 19:00	B203 09:00 ~ 12:00	B203 13:15 ~ 18:45			P06 09:30 ~ 11:30	
22 Joint Session M "Phonon Engineering"								
22.1 Joint Session M "Phonon Engineering"					C102 09:45 ~ 12:00	C102 13:30 ~ 18:00	C102 09:45 ~ 12:00	
23 Joint Session N "Informatics"								
23.1 Joint Session N "Informatics"	P09 09:30 ~ 11:30				M206 09:00 ~ 12:00	M206 13:30 ~ 18:00		