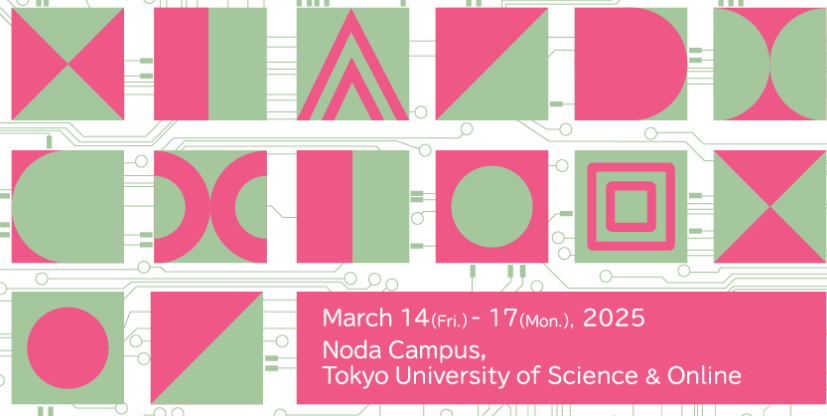


# The 72nd JSAP Spring Meeting 2025



March 14(Fri.) - 17(Mon.), 2025  
Noda Campus,  
Tokyo University of Science & Online

## Call for Papers

### 3 Steps to Contribute a Presentation

#### Join JSAP

##### Regular Membership

Admission Fee: 10,000 JPY  
Annual Due: 10,000 JPY

##### Graduate Student/ Student Membership

Admission Fee: 3,000 JPY  
Annual Due: 3,000 JPY

Annual due will be waived  
for the first year.

#### Submit

**Submission Deadline:  
January 8 (Wed.),  
2025 (17:00, JST)**

**No late submission is  
accepted after the  
deadline.**

Submission will open on  
December 2 (Mon.), 2024

#### Register

##### Early-bird Registration (until February 28, 2025)

Non-student (JSAP Member / JSAP Sub Member/  
Partner Society Member\*): 12,000 JPY  
JSAP Senior Member: 4,000 JPY  
Non-student (Non-member): 23,000 JPY  
Student(Speaker/Onsite Audience):  
3,000 JPY  
Student (Online Audience \*excluding speaker):  
0 JPY

##### Late Registration (from March 7, 2025)

Non-student (JSAP Member / JSAP Sub Member/  
Partner Society Member\*): 18,000 JPY  
JSAP Senior Member: 7,000 JPY  
Non-student (Non-member): 30,000 JPY  
Student(Speaker/Audience): 5,000 JPY

Registration will open on December 2  
(Mon.), 2024.

(\*) JSAP's Partner Societies: APS(American Physical Society), CSOE(Chinese Society for Optical Engineering), EOS(European Optical Society), EPS(European Physical Society), IOP(Institute of Physics), JIEP(Japan Institute of Electronics Packaging), KPS(Korean Physical Society), OPTICA(formerly OSA, The Optical Society), OSK(Optical Society of Korea), PESJ(Physics Education Society of Japan), PSROC(The Physical Society of Republic of China), SPIE(International Society for Optical Engineering), Physics Society of the Philippines(SPP), TPS(Taiwan Photonics Society)

### Submission Deadline

**January 8 (Wed.), 2025 (5:00pm, JST)**

**\*No late submission is accepted.**

# Call for Papers

Papers are solicited for the following sessions and symposia.

The date and section of your presentation will be determined by our program committee and informed you in late January. Your papers may be forwarded from a regular session to a symposium and vice versa.

## Regular Sessions

Category	Section	
Focused Session "AI Electronics"	31.1	(Keywords) Next-generation/advanced semiconductor devices and their AI applications, Brain-inspired computer, neuromorphic, neural network, Computation-In-Memory (CIM), Processing-In-Memory (PIM), memory-based AI, Combinational optimization, annealing, Quantum machine learning, quantum AI, Optical computing, Reservoir computing, physical reservoir, Integration of sensors and AI, AI processing in sensor, Emerging computing technologies: materials/devices
KS Sessions organized by JSAP's Professional Group	KS.1	Solid State Quantum Sensor Group
	KS.2	Quantum Information Engineering Group
	KS.3	Green Transition of Fabrication Group
1. Interdisciplinary Physics and Related Areas of Science and Technology	1.1	Interdisciplinary and General Physics
	1.2	Education
	1.3	Novel technologies and interdisciplinary engineering
	1.4	Energy conversion, storage, resources and environment
	1.5	Instrumentation, measurement and Metrology
	1.6	Ultrasonics
2. Ionizing Radiation	2.1	Radiation physics, Material development and characteristic evaluation
	2.2	Radiation generators, Detector development, Measurement technology
	2.3	Accelerator technology, Accelerator mass spectrometry and beam analysis
	2.4	Life Sciences, Medical applications, Space and Earth Environment, Radiation Education
3. Optics and Photonics	3.1	Basic optics and frontier of optics
	3.2	Information photonics and image engineering
	3.3	Biomedical optics
	3.4	Laser system and materials
	3.5	Ultrashort-pulse and high-intensity lasers
	3.6	Laser processing
	3.7	Optical measurement, instrumentation, and sensor
	3.8	Terahertz technologies
	3.9	Optical quantum physics and technologies
	3.10	Photonic structures and phenomena
	3.11	Nanoscale optical science and near-field optics
	3.12	Semiconductor optical devices
	3.13	Silicon photonics, Photonics-electronics convergence, Optical control
	3.14	Optics and Photonics English Session
6. Thin Films and Surfaces	6.1	Ferroelectric thin films
	6.2	Carbon-based thin films
	6.3	Oxide electronics
	6.4	Thin films and New materials
	6.5	Surface Physics, Vacuum
	6.6	Probe Microscopy
7. Beam Technology and Nanofabrication	7.1	X-ray technologies
	7.2	Applications and technologies of electron beams
	7.3	Micro/Nano patterning and fabrication
	7.4	Ion beams
	7.5	Atomic/molecular beams and beam-related new technologies
8. Plasma Electronics <i>*All-English session is scheduled in the section 8.6.</i>	8.1	Plasma production and diagnostics
	8.2	Plasma deposition of thin film, plasma etching and surface treatment
	8.3	Plasma nanotechnology
	8.4	Plasma life sciences
	8.5	Plasma phenomena, emerging area of plasmas and their new applications
	8.6	Plasma Electronics English Session
	8.7	Plasma Electronics Invited Talk
9. Applied Materials Science	9.1	Dielectrics, ferroelectrics
	9.2	Nanoparticles, Nanowires and Nanosheets
	9.3	Nanoelectronics
	9.4	Thermoelectric conversion
	9.5	New functional materials and new phenomena

## Regular Sessions (continued)

Category	Section	
10. Spintronics and Magnetism <i>*English presentation are welcomed in this category. Outstanding presentations by student speakers will be awarded.</i>	10.1	Emerging materials in spintronics and magnetism (including fabrication and characterization methodologies)
	10.2	Fundamental and exploratory device technologies for spin
	10.3	Spin devices, magnetic memories and storages
	10.4	Semiconductor spintronics, superconductor, multiferroics
	10.5	Application of magnetic field
11. Superconductivity	11.1	Fundamental properties
	11.2	Thin and thick superconducting films, coated conductors and film crystal growth
	11.3	Critical Current, Superconducting Power Applications
	11.4	Analog applications and their related technologies
	11.5	Junction and circuit fabrication process, digital applications
12. Organic Molecules and Bioelectronics	12.1	Fabrications and Structure Controls
	12.2	Characterization and Materials Physics
	12.3	Functional Materials and Novel Devices
	12.4	Organic light-emitting devices and organic transistors
	12.5	Organic and hybrid solar cells
	12.6	Nanobiotechnology
	12.7	Biomedical Engineering and Biochips
	12.8	Specific theme: Photoelectric Properties, Device Fabrication and Structural Controls of Organic-Inorganic Hybrid Perovskites
13. Semiconductors	13.1	Fundamental properties, surface and interface, and simulations of Si related materials
	13.2	Exploratory Materials, Physical Properties, Devices
	13.3	Insulator technology
	13.4	Si processing /Si based thin film / MEMS / Equipment technology
	13.5	Semiconductor devices/ Interconnect/ Integration technologies
	13.6	Nanostructures, quantum phenomena, and nano quantum devices
	13.7	Compound and power devices, process technology and characterization
	13.8	Optical properties and light-emitting devices
	13.9	Compound solar cells
15. Crystal Engineering	15.1	Bulk crystal growth
	15.2	II-VI and related compounds
	15.3	III-V-group epitaxial crystals, Fundamentals of epitaxy
	15.4	III-V-group nitride crystals
	15.5	Group IV crystals and alloys
	15.6	Group IV Compound Semiconductors (SiC)
	15.7	Crystal characterization, impurities and crystal defects
16. Amorphous and Microcrystalline Materials	16.1	Fundamental properties, evaluation, process and devices in disordered materials
	16.2	Energy Harvesting
	16.3	Bulk, thin-film and other silicon-based solar cells
17. Nanocarbon and Two-Dimensional Materials	17.1	Carbon nanotubes & other nanocarbon materials
	17.2	Graphene
	17.3	Layered materials
Joint Session K "Wide bandgap oxide semiconductor materials and devices"	21.1	(Keywords) thin film growth, characterization of physical properties, transparent conductive oxide film, electronic devices, optical devices, novel functional materials & development of novel technologies
Joint Session M "Phonon Engineering"	22.1	(Keywords) material development and material properties, measurement methods, theory and simulation, thermal conduction and phonon transport, nanoscale and low dimensional system, band engineering, coherent control, phonon polariton, magnon, thermal management and design technology, device application, thermoelectrics, thermal storage, thermal insulation, micro/nanomechanics, heat dissipation, thermal conversion, nano-structure/device fabrication technology
Joint Session N "Informatics"	23.1	(Keywords) materials informatics, process informatics, measurement informatics, database, data mining, machine learning, deep learning, sparse modeling, statistical analysis, causal analysis, optimization, data assimilation, high-throughput, automation, robotics

## Symposium

See <https://meeting.jsap.or.jp/english/symposium>

# Submission Guidelines (for contributed papers)

## 1 Qualification

Speakers of contributed presentation (oral and poster presentations) should be JSAP Regular Members, JSAP Student Members and JSAP's Partner Societies\* Members.

\*JSAP's partner societies: American Physical Society (APS), CSOE(Chinese Society for Optical Engineering), European Optical Society (EOS), European Physical Society (EPS), Institute of Physics (IOP), JIEP (Japan Institute of Electronics Packaging), Korean Physical Society (KPS), OPTICA (formerly OSA), Optical Society of Korea (OSK), Physics Education Society of Japan (PESJ), Physical Society of Republic of China (PSROC), International Society for Optical Engineering (SPIE), Physics Society of the Philippines(SPP) and Taiwan Photonics Society (TPS).

## 2. Handling of abstract (PDF)

- 1) Our program committee draws up a program according to speakers' requests. However, the program committee may forward your abstract to another category for the benefit of the overall program.
- 2) JSAP holds the copyright on the submitted abstracts, and all the submitted abstracts will be published on the online conference program and J-STAGE.
- 3) The abstracts submitted to the JSAP-OPTICA Joint Symposia (held only in JSAP Autumn Meeting) will be also published in OPTICA Publishing Group Digital Library. JSAP grants to OPTICA a perpetual, non-exclusive, royalty-free license to use them in any type of media including print or electronic.
- 4) The maximum number of submission per person is 3.

## 3. JSAP Young Scientist Presentation Award

JSAP Young Scientist Presentation Award will be presented to young JSAP members (under 34 years of age as of April 1, 2025) who have presented outstanding papers.

**A poster presentation is not eligible for the award.**

To apply for the award, please select "apply" upon online submission. Applicants for the award will be indicated as such in the program.

**The applicants for the JSAP Young Scientist Presentation Award are required to present in person. If the applicants make a presentation online, they become unqualified for the award.**

## 4. Poster Award

Poster Award will be presented to JSAP members who give the most outstanding poster presentation of research that represents a valuable contribution to the field of applied physics. **The nominees for Poster Award will be selected by the Program Committee based on the content of the extended abstract** . No entry is required.

## 5. Substitute Speaker

If a registered speaker is unavailable on the day due to unavoidable circumstance, the speaker shall be able to appoint a substitute to speak on their behalf. A substitute speaker must be the member mentioned in the preceding 1 and the co-author of the submitted paper. **The substitute speaker must register for the conference and complete the payment of the registration fee.**

## 6. No-Show policy

(Oral Session)

If a speaker doesn't show up within 5 minutes of their scheduled presentation time, the presentation will be deemed as "No-Show".

(Poster Session)

If a poster is not put up by 5 minutes after the starting time of the session, the presentation will be deemed as "No-Show".

**No-show presentations will be indicated as such on the conference web program.**

If any circumstances arise where the registered speaker is unable to present the paper at the meeting, please make sure to inform the secretariat (meeting@jsap.or.jp) in advance.

The absence with prior notification will be indicated as "Absence" on the conference web program.