

Call for Papers

3 Steps to Contribute a Presentation

Join JSAP

Regular Membership

Admission Fee: 10,000 JPY
Annual Due*: 10,000 JPY
*Annual due will be waived for the first year.

Graduate Student/ Student Membership

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

*Annual due will be waived for the first year.

Submit

Submission Deadline:

June 21 (Tue.), 2022 (17:00, JST)

No late submission is accepted after the deadline.

Online submission will open on May 25 (Wed.).

Register

Early-bird Registration (until August 23, 2022)

Non-student (JSAP Member / Partner Society Member): 12,000 JPY

Non-student (Non-member):

23,000JPY

JSAP Senior Member: 4,000 JPY Student(Speaker): 3,000 JPY

Late Registration (from September 1, 2022)

Non-student (JSAP Member / Partner Society Member): 18,000 JPY

Non-student (Non-member):

30.000JPY

JSAP Senior Member: 7,000 JPY Student(Speaker): 5,000

*Students who will be attending online without presenting are waived from the registration

fee

*Online registration will open on May 25.

Submission Deadline

June 21 (Tue.), 2022 (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 early July. 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) brain-inspired computer, neuromorphic, neural network, synapse device, memory, learning mechanism, STDP, combinational optimization, annealing, quantum machine learning, quantum AI, optical computing, reservoir computing, physical reservoir |
| 1 Interdisciplinary Physics and Related | 1.1 | Interdisciplinary and General Physics |
| Areas of Science and Technology | 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 | Detection Devices |
| | 2.2 | Radiation physics fundamentals & applications, radiation generators, new technology |
| | 2.3 | Accelerator Mass Spectrometry, Accelerator Beam Analysis |
| | 2.4 | Medical application |
| | 2.5 | Radiation-induced phosphors |
| 3 Optics and Photonics | 3.1 | Basic optics and frontier of optics (merged with formerly 3.2 Equipment optics and materials) |
| | 3.2 | Information photonics and image engineering (formerly 3.3) |
| | 3.3 | Biomedical optics (formerly 3.4) |
| | 3.4 | Laser system and materials (formerly 3.5) |
| | 3.5 | Ultrashort-pulse and high-intensity lasers (formerly 3.6) |
| | 3.6 3.7 | Laser processing (formerly 3.7) Optical measurement, instrumentation, and sensor (formerly 3.8) |
| | 3.8 | Terahertz technologies (formerly 3.9) |
| | 3.9 | Optical quantum physics and technologies (formerly 3.10) |
| | 3.10 | Photonic structures and phenomena (formerly 3.11) |
| | 3.11 | Nanoscale optical science and near-field optics (formerly 3.12) |
| | 3.12 | Semiconductor optical devices (formerly 3.13) |
| | 3.13 | Optical control devices and optical fibers (formerly 3.14) |
| | 3.14 | Silicon photonics and integrated photonics (formerly 3.15) |
| 4 JSAP-OPTICA Joint Symposia | 4.1 | Plasmonics and Nanophotonics |
| | 4.2 | Photonics Devices, Photonic Integrated Circuit and Silicon Photonics Lasers and laser materials processing |
| | 4.4 | Information Photonics |
| | 4.5 | Nanocarbon and 2D Materials |
| | 4.6 | Terahertz Photonics |
| | 4.7 | Quantum Optics and Nonlinear Optics |
| 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 Surface Physics Maguin |
| | 6.5 6.6 | Surface Physics, Vacuum Probe Microscopy |
| 7 Beam Technology and Nanofabrication | 7.1 | X-ray technologies |
| / Beam Technology and Nahorabrication | 7.2 | Applications and technologies of electron beams |
| | 7.3 | Micro/Nano patterning and fabrication |
| | 7.4 | Buried interface sciences with quantum beam |
| | 7.5 | lon beams |
| | 7.6 | Atomic/molecular beams and beam-related new technologies |
| 8 Plasma Electronics | 8.1 | Plasma production and diagnostics |
| *All-English session is scheduled in the section 8.6 | 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 |
| | 8.8 | Plasma Electronics Award Speech |

Regular Sessions (continued)

| Category | | Section |
|--|------|--|
| 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 |
| 10 Spintronics and Magnetics | 10.1 | Emerging materials in spintronics and magnetics (including fabrication and charactrization |
| *English presentations are welcomed in this | 400 | methodologies) |
| category. Outstanding presentations by student | 10.2 | Fundamental and exploratory device technologies for spin |
| speakers will be awarded by Professional Group of Spintronics. | 10.3 | Spin devices, magnetic memories and storages |
| | 10.4 | Spintronics in semiconductor, topological material, superconductor, and 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 solar cells |
| | 12.6 | Nanobiotechnology |
| | 12.7 | Biomedical Engineering and Biochips |
| 13 Semiconductors | | · |
| 13 Schilledhadetors | 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 Company of Somison ductors (SIC) |
| | 15.6 | Group IV Compound Semiconductors (SiC) Crystal characterization, impurities and crystal defects |
| 1.C. Amagrahaus and Migraerustalling | 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 Technology | 17.1 | Carbon nanotubes & other nanocarbon materials |
| | 17.2 | Graphene |
| | 17.3 | Layered materials |
| Joint Session K | | (Keywords) |
| "Wide bandgap oxide semiconductor | 21.1 | thin film growth, characterization of physical properties, transparent conductive oxide film, |
| materials and devices" | 21.1 | electronic devices, optical devices, novel functional materials & development of novel |
| | | technologies |
| Joint Session M | | (Keywords) |
| "Phonon Engineering" | | material development and material properties, measurement methods, theory and |
| | | simulation, thermal conduction and phonon transport, nanoscale and low dimensional |
| | 22.1 | 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 | | (Keywords) |
| "Informatics" | 23.1 | materials informatics, measurement informatics, data science, data mining, machine |
| | 23.1 | learning, sparse modeling, deep learning, Bayes optimization, data assimilation, high- |
| | | throughput, Automation, Robotics |

See https://meeting.jsap.or.jp/english/symposium (*will update in late May)

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), Korean Physical Society (KPS), OPTICA (formerly OSA), Optical Society of Japan (OSJ), 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 extended abstracts DVD.
- 3) The abstracts submitted to the JSAP-OPTICA Joint Symposia (held only in JSAP Autumn Meeting) will be also published in OPTICA's Optics InfoBase. 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, 2023) 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.