

SCOPE

ALPS2021

1	Novel optical materials/ structure and applications
2	High average power lasers and applications
3	High peak power lasers, high pulse energy lasers and applications
4	Novel solid state/ fiber/ diode lasers and applications
5	Short wavelength light sources and applications
6	Terahertz devices, nonlinear optics and applications
7	Novel optical devices, metamaterials, structure and applications
8	Optical devices and techniques for bio and medical applications
9	Optical frequency combs/ frequency stabilized lasers and applications
10	Quantum optics and their applications

BISC2021

1	medical and biological imaging instrumentation and techniques
2	optogenetics
3	advanced microscopy
4	advanced endoscopy
5	super resolution in biomedical imaging and sensing
6	computational imaging in biomedical imaging and sensing
7	adaptive optics in biomedical imaging and sensing
8	structured illumination in biomedical imaging and sensing
9	interferometry and holography in biology and medicine
10	optical coherence tomography
11	diffuse optical tomography
12	digital holography
13	quantitative phase imaging

14	photoacoustic imaging
15	multimodal imaging and sensing
16	optical biopsy
17	spectroscopic imaging and sensing
18	multispectral imaging and sensing
19	scattering imaging
20	fluorescence imaging
21	molecular imaging
22	terahertz sensing
23	optical fibers and sensors for biomedicine
24	multimodality optical diagnostic systems.

HEDS2021

1	Laser Astrophysics
2	High Energy Density Sciences
3	Diagnostics

ICNN2021

1	Fundamentals of light matter interaction in nanostructures
2	Silicon photonics
3	Bio-photonics
4	Semiconductor nano-scale devices
5	Quantum dots and nanowires
6	Photonic crystals
7	Near-field optics
8	Quantum optics and Quantum information technology
9	Spintronics
10	Plasmonics
11	Metamaterials
12	Nanolasers
13	Solar cells
14	Quantum well, quantum dot and quantum cascade lasers
15	Integrated photonic circuits...

IoT-SNAP2021

1	Core Technologies for Sensing/Network/AI
2	Applications and use cases
3	Photonics Technologies

LDC2021

1	Light Sources and Components
2	Imaging / Lighting
3	Smart Systems
4	AR, MR, VR, ... XR Technologies
5	Laser Applications for Automotive
6	Novel and Emerging Technologies

LSSE2021

1	Anti-COVID-19(Examination of infection, Sterilization)
2	Agri-Photonics(Smart agriculture, Laser plant factory, Laser sense organ)
3	Infrastructure(Remote sensing, Nondestructive testing, Laser Induced Breakdown Spectroscopy (LIBS))
4	Industrial Application(Extreme Condition, Robotics, Processing)
5	Space Technology(Laser Debris deorbit, UV imaging)

OMC2021

1	structured optical fields, including beam shaping, polarization control, pulse shaping, frequency extension, and ultrafast laser technologies
2	optical trapping and manipulation, including optical tweezer, holographic optical manipulation, plasmon trapping, multi-photon trapping, and atom trapping and cooling
3	fundamental researches and advanced technologies enabled by structured materials, such as metamaterials, metasurfaces, and photonic crystals
4	advanced devices and instruments, including spatial light modulator, adaptive optics, and near-field optical devices
5	applications including structured material processing, single molecule trapping, biophotonics, metamaterials, quantum communications, and selective control of chemical reaction

6	novel approaches, including novel interaction between optical fields and materials on nano-scale, novel regimes of spin-orbit interaction, and quantum control of molecular dynamics
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OPTM2021

1	3D profilometry
2	polarimetry/ellipsometry
3	novel optical testing
4	surface inspection methods and applications
5	absolute testing for metrology
6	application of interferometric techniques
7	machine/robot vision methods, architectures and applications
8	lighting methods and systems for inspection
9	dynamic measurement
10	unique optical systems for inspection and measurements
11	2D and 3D machine vision methods and applications
12	3D data acquisition
13	freeform testing
14	scatterometry
15	unconventional microscope for inspection
16	super-high accurate measurement for smooth surfaces
17	micro- and nano-scale measurement methods
18	structured light methods, fringe projection measurement and applications
19	phase shifting methods applied to industrial inspection
20	mechanic-optics and photonics for metrology and inspection
21	optical inspection by optical comb
22	super resolution microscope for inspection
23	spherical and aspherical measurements
24	color metrology of manufactured goods
25	on-line and process control measurements
26	on-machine tool measurements of shape and finish
27	high-resolution and high-speed inspection applications
28	novel interferometry

OWPT

1	Devices and components
2	Systems and subsystems
3	Applications
4	Others

XOPT

1	X-ray optical components
2	Methods / applications
3	Others