

List of

Tracks (Themen)

and *specifier key words*

Covid-19 (A special full day Covid-19 microsymposium is planned)

Biologic Structure, Function, Reactivity, and Regulation

macromolecular structures

methods and facilities

integrative structural biology

enzymes

drug design

regulation

complexes

membrane proteins

hot structures

molecular machines

fold prediction

Structural Chemistry & New Crystal Structures

green chemistry

inorganic crystal structures

coordination compounds

small molecules

organic crystal structures

supramolecular chemistry

absolute structure

polymers

porous materials (MOFS, Carbons, Zeolites, Polymers.....)

aperiodic structures

disorder

amorphous materials

nanoparticles

Solid State Physics and Crystal Physics

magnetism and magnetic structure

ferroics, multiferroics

symmetry breaking

phase transitions

structure and dynamics

thermodynamics

crystal optics

Engineering Materials and Applications

binders, cement

battery materials

in-situ and in-operando studies

semiconductors

alloys

photovoltaics

thermoelectrics

hydrogen storage

hydrogen embrittlement

ionic conductors

porous materials (MOFs, COFs, Carbons, Zeolites, Polymers.....)

catalysis

nanostructuring

nanoparticles

Natural Materials and Environments (Minerals, Biogenic Materials...)

geomaterials

biogenic materials

extreme conditions

environmental processes

mineral surface processes

thermodynamics

reactivity

Structure property relationships

In-situ and in-operando studies

extreme conditions

functional materials

phase transitions

Theory, simulation, modeling, computational crystallography

group theory

structural systematics

electron density

Hirschfeld atom refinement

structure prediction

molecular dynamics

Monte Carlo

DFT

thermodynamics

Crystallography in Education, Art, and Society

science communication

teaching

cultural heritage

science policies

symmetry and broken symmetry in art

Advances in Methods, Instrumentation and Data Analysis

sources

beamlines

optical devices

sample environments

data processing

algorithms and software

artificial intelligence

electron crystallography

electron microscopy

XFEL

neutrons

synchrotron

spectroscopy

high throughput platforms

total scattering

3D delta-pdf

Crystallization, Crystal Growth Processes, Synthesis

environmentally friendly processes

Crystallography in green chemistry.

nucleation

morphology

microstructure

defects

growth mechanisms

kinetics

thin films

surfaces and interfaces

Surfaces, Interfaces, Thin Films, Nanoparticles

surface and interface structure

reactivity

catalysis

nanostructuring

Other