

Monday 14 March 2022 - Thursday 17 March 2022

Topical tracks

Main conference

Covid-19

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

Young crystallographers Lightning Talks