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A. Type of Materials
- disordered systems
- ferroelectrics
- fullerenes
- heterojunctions
- high-$T_c$ superconductors
- insulators
- liquid crystals
- magnetic films and multilayers
- magnetically ordered materials
- metal alloys
- metals
- nanostructures
- organic crystals
- polymers, elastomers, and plastics
- quantum wells
- quasicrystals
- semiconductors
- spin glasses
- superconductors
- surfaces and interfaces
- thin films

B. Preparation and Processing
- chemical synthesis
- crystal growth
- epitaxy
- laser processing
- nanofabrications

C. Structure and Characterization
- crystal structure and symmetry
- dislocations and disclinations
- EXAFS, NEXAFS, SEXAFS
- grain boundaries
- impurities in semiconductors
- point defects
- scanning and transmission electron microscopy
- scanning tunnelling microscopy
- surface electron diffraction (LEED, RHEED)
- X-ray scattering

D. Phenomena and Properties
- acoustic properties
- anharmonicity
- crystal and ligand fields
- crystal binding and equation of state
- cyclotron resonance
- dielectric response
- elasticity
- electron–electron interactions
- electron–phonon interactions
- electronic band structure
- electronic states (localized)
- electronic transport
- exchange and superexchange
- fractional quantum Hall effect
- flux pinning and creep
- galvanomagnetic effects
- heat capacity
- heat conduction
- heavy fermions
- Kondo effects
- mechanical properties
- melting
- noise
- optical properties
- order–disorder effects
- phase transitions
- phonons
- photoconductivity and photovoltaics
- piezoelectricity, electrostriction
- quantum Hall effect
- quantum localization
- radiation effects
- recombination and trapping
- spin dynamics
- spin–orbit effects
- thermal expansion
- thermodynamic properties
- tunnelling
- valence fluctuations
E. Experimental Methods

atom, molecule, and ion impact
elastic light scattering
electron emission spectroscopies
electron energy loss spectroscopy
electron paramagnetic resonance
helium surface scattering
inelastic light scattering
light absorption and reflection
luminescence
Mössbauer spectroscopy

muon spectroscopies
neutron scattering
nonlinear optics
nuclear resonances
photoelectron spectroscopies
positron spectroscopies
strain, high pressure
synchrotron radiation
time-resolved optical spectroscopies
X-ray and γ-ray spectroscopies
ultrasonics