

## Keywords for *Solid State Communications*

Authors should select a maximum of five keywords. Each keyword should be accompanied by the capital letter denoting the category from which the keyword has been selected.

### A. Type of Materials

disordered systems  
ferroelectrics  
fullerenes  
heterojunctions  
high- $T_c$  superconductors  
insulators  
liquid crystals  
magnetic films and multilayers  
magnetically ordered materials  
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  
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

IV

**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

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