

## KEYWORDS FOR JOURNAL OF ALLOYS AND COMPOUNDS

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

<p><b>A. Type of Materials</b></p> <p>Actinide alloys and compounds Amorphous materials Ceramics Clusters Coating materials Composite materials Data storage materials Dental alloys Disordered systems Electrode materials Energy storage materials Ferroelectrics Fuel cells Fullerenes Half metals Heterojunctions High-temperature alloys High-Tc superconductors Hydrogen absorbing materials Inorganic materials Insulators Intermetallics Interstitial alloys Liquid crystals Magnetic films and multilayers Magnetically ordered materials Metal hydrides Metallic glasses Metal matrix composites Metals and alloys Nanostructured materials Nitride materials Nuclear reactor materials Optical materials Oxide materials Permanent magnets Phosphors Polymers, elastomers, and plastics Quantum wells Quasicrystals Rare earth alloys and compounds Semiconductors Spin glasses</p>	<p>Superconductors Surfaces and interfaces Thin films Transition metal alloys and compounds Thermoelectric materials</p> <p><b>B. Preparation and Processing</b></p> <p>Amorphisation Chemical synthesis Crystal growth Gas-solid reactions Laser processing Liquid-solid reactions Precipitation Powder metallurgy Mechanical alloying Mechanochemical processing Nanofabrications Rapid solidification, quenching Sintering Sol-gel processes Solid state reactions Vapour deposition</p> <p><b>C. Phenomena</b></p> <p>Atomic scale structure Acoustic properties Anisotropy Anharmonicity Catalysis Composition fluctuations Crystal structure Corrosion Crystal and ligand fields Crystal binding and equation of state Cyclotron resonance Dielectric response Diffusion Dislocations and disclinations Domain structure Elasticity Electrical transport</p>
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**(CONTINUATION OF C)**

Electrochemical reactions  
Electromotive force, EMF  
Electron-electron interactions  
Electron-phonon interactions  
Electronic band structure  
Electronic properties  
Enthalpy  
Entropy  
Exchange and superexchange  
Fractional quantum Hall effect  
Flux pinning and creep  
Galvanomagnetic effects  
Grain boundaries  
Heat capacity  
Heat conduction  
Heavy fermions  
Hyperfine interactions  
Ionic conduction  
Impurities in semiconductors  
Kondo effect  
Kinetics  
Magnetisation  
Magnetocaloric  
Magnetoresistance  
Magnetostriction  
Magneto-volume effects  
Mechanical properties  
Microstructure  
Noise  
Optical properties  
Order-disorder effects  
Oxidation  
Phase diagrams  
Phase transitions  
Phonons  
Photoconductivity and photovoltaics  
Piezoelectricity, electrostriction  
Preferential site ordering  
Point defects  
Quantum Hall effect  
Quantum localization  
Radiation effects  
Recombination and trapping  
Shape memory  
Spin dynamics  
Spin-orbit effects  
Thermal expansion  
Thermodynamic properties

Thermoelectric  
Thermochemistry  
Tunnelling  
Vacancy formation  
Valence fluctuations

**D. Experimental and Theoretical Methods**

Atomic force microscopy, AFM  
Atom, molecule, and ion impact  
Calorimetry  
Computer simulations  
Elastic light scattering  
Electrochemical impedance spectroscopy  
Electron emission spectroscopies  
Electron energy loss spectroscopy  
Electron paramagnetic resonance  
EXAFS, NEXAFS, SEXAFS  
High-pressure  
High magnetic fields  
Inelastic light scattering  
Inelastic neutron scattering  
Light absorption and reflection  
Luminescence  
Magnetic measurements  
Mössbauer spectroscopy  
Metallography  
Molecular dynamics simulations  
Muon spectroscopies  
Neutron diffraction  
Nonlinear optics  
Nuclear resonances  
Optical spectroscopy  
Perturbed angular correlations, PAC  
Photoelectron spectroscopies  
Positron spectroscopies  
Rutherford backscattering, RBS  
Scanning electron microscopy, SEM  
Scanning tunnelling microscopy, STM  
Strain, high pressure  
Surface electron diffraction (LEED, RHEED)  
Synchrotron radiation  
Thermal analysis  
Thermodynamic modeling  
Time-resolved optical spectroscopies  
Transmission electron microscopy, TEM  
X-ray diffraction  
X-ray and gamma-ray spectroscopies  
Ultrasonics