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**Keywords**
The keywords for Materials Science and Engineering A are separated into four categories:

- **A. METHOD OF INVESTIGATION**
  - characterization
  - electron microscopy
  - finite element analysis
  - first principles
  - fracture mechanics/fracture behaviour/fatigue
  - hardness
  - micromechanics
  - modelling/simulations
  - phase diagrams
  - simulations
  - stress/strain measurements
  - thermal analysis
  - X-ray analysis
  - other

- **B. MATERIAL OR CONSTITUTING PHASE(S)**
  - aluminium alloys
  - amorphous materials
  - biomaterials
  - ceramics
  - composites
  - copper alloys
  - glass
  - intermetallics
  - iron alloys
  - magnesium alloys
  - nanocrystalline materials
  - nickel alloys
  - other materials

- **C. PROCESSING METHOD**
- **D. INVESTIGATED PHENOMENON**
other metallic alloys
shape memory alloys
titanium alloys

proc C. PROCESSING METHOD
casting methods
coatings
laser methods
plasticity methods
powder methods
surface phenomena

phen D. INVESTIGATED PHENOMENON
grains and interfaces
phase transformation
plasticity