



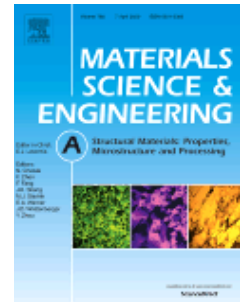
MATERIALS SCIENCE AND ENGINEERING: A

Structural Materials: Properties, Microstructure and Processing

AUTHOR INFORMATION PACK

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DESCRIPTION

Materials Science and Engineering A provides an international medium for the publication of theoretical and experimental studies related to the **load-bearing capacity** of **materials** as influenced by their basic properties, processing history, microstructure and operating environment. Appropriate [submissions](#) to *Materials Science and Engineering A* should include scientific and/or engineering factors which affect the **microstructure - strength relationships** of materials and report the changes to **mechanical behavior**.

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AUDIENCE

Materials Scientists, Metallurgists, Mechanical Engineers, Ceramists

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Reference to a journal publication with an article number:

[2] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, 2018. The art of writing a scientific article. *Heliyon.* 19, e00205. <https://doi.org/10.1016/j.heliyon.2018.e00205>.

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[3] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

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[5] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

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Keywords

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

- A. METHOD OF INVESTIGATION
- B. MATERIAL OR CONSTITUTING PHASE(S)
- C. PROCESSING METHOD
- D. INVESTIGATED PHENOMENON

meth **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

mat **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

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

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