



# MATERIALS LETTERS

An interdisciplinary journal devoted to rapid communications on the science, applications, and processing of materials.

## AUTHOR INFORMATION PACK

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### DESCRIPTION

*Materials Letters* has an open access mirror journal *Materials Letters: X*, sharing the same aims and scope, editorial team, submission system and rigorous peer review.

*Materials Letters* is dedicated to publishing novel, cutting edge reports of broad interest to the materials community. The journal provides a forum for materials scientists and engineers, physicists, and chemists to rapidly communicate on the most important topics in the field of **materials**.

Contributions include, but are not limited to, a variety of topics such as:

- **Materials**- Metals and alloys, amorphous solids, ceramics, composites, polymers, semiconductors
- **Applications**- Structural, opto-electronic, magnetic, medical, MEMS, sensors, smart
- **Characterization**- Analytical, microscopy, scanning probes, nanoscopic, optical, electrical, magnetic, acoustic, spectroscopic, diffraction
- **Novel Materials** - Micro and nanostructures (nanowires, nanotubes, nanoparticles), nanocomposites, thin films, superlattices, quantum dots.
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Materials scientists, metallurgists, solid state chemists and physicists

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### Aims and Scope

*Materials Letters* is dedicated to publishing novel, cutting edge reports of broad interest to the materials community. The journal provides a forum for materials scientists and engineers, physicists, and chemists to rapidly communicate on the most important topics in the field in materials. We are primarily interested in those contributions which bring new insights, and papers will be selected on the basis of the importance of the new knowledge they provide.

Contributions include a variety of topics such as:

- **Materials** - Metals and alloys, amorphous solids, ceramics, composites, nanocrystals, polymers, semiconductors.
- **Applications** - Structural, opto-electronic, magnetic, medical, MEMS, sensors, smart, biomaterials.
- **Characterization** - Analytical, microscopy, scanning probes, nanoscopic, optical, electrical, acoustic, spectroscopic, diffraction.
- **Novel Materials** - Micro and nanostructures (nanowires, nanotubes, nanoparticles), nanocomposites, thin films, superlattices, quantum dots.
- **Processing** - Thin film processing, sol-gel processing, mechanical processing, assembly, and nanocrystalline processing leading to unique materials.
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- **Synthesis** - Quenching, solid state, solidification, solution synthesis, vapor deposition, and high pressure, explosive processes leading to unique materials.

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## PREPARATION



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Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to 'the text'. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

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

Reference to a book:

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

Reference to a chapter in an edited book:

[4] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

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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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Adhesion  
Amorphous materials  
Atom probe  
Atomic force microscopy  
Biomaterials  
Biomimetic  
Carbon materials  
Carbon nanotubes  
Nanoparticles  
Cast  
Ceramics  
Bioceramics  
Functional  
Structural  
Colloidal processing  
Composite materials  
Ceramic composites  
Metallic composites  
Polymeric composites  
Corrosion  
Creep  
Crystal growth

Crystal structure  
Defects  
Deformation and fracture  
Deposition  
Chemical vapour deposition  
Electrodeposition  
Physical vapour deposition  
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Dielectrics  
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Ferroelectrics  
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Fullerenes  
Grain boundaries  
Grain boundary junctions  
Indentation and hardness  
Interfaces  
Intermetallic alloys and compounds  
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Metals and alloys  
Multilayer structure  
Microstructure  
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Neutron diffraction and scattering  
Nuclear materials  
Optical materials and properties  
Oxidation  
Particles, nanosize  
Phase diagrams  
Phase transformation  
Phosphors  
Piezoelectric materials  
Polymers  
Powder technology  
Porous materials  
Positron annihilation  
Radiation damage  
Recrystallization  
Scanning tunnelling microscopy



Segregation  
Sensors  
Shape memory materials  
Simulation and modelling  
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