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

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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.

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- **Materials** - Metals and alloys, amorphous solids, ceramics, composites, polymers, semiconductors
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- **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.
- **Processing** - Crystal growth, thin film processing, sol-gel processing, mechanical processing, assembly, nanocrystalline processing.
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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.
- **Properties** - Mechanical, magnetic, optical, electrical, ferroelectric, thermal, interfacial, transport, thermodynamic.
- **Synthesis** - Quenching, solid state, solidification, solution synthesis, vapor deposition, and high pressure, explosive processes leading to unique materials.

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**Keyword List**

- Adhesion
- Amorphous materials
- Atom probe
- Atomic force microscopy
- Biomaterials
- Biomimetic
- Carbon materials
- Carbon nanotubes
- Nanoparticles
- Cast
- Ceramics
Phase diagrams
Phase transformation
Phosphors
Piezoelectric materials
Polymers
Powder technology
Porous materials
Psitron annihilation
Radiation damage
Recrystallization
Scanning tunnelling microscopy
Segregation
Sensors
Shape memory materials
Simulation and modelling
Sintering
Solar energy materials
Sol-gel preparation
Solidification
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FTIR
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Superconductors
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