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

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DESCRIPTION

Materials Letters is an interdisciplinary journal devoted to rapid communications on the science, applications, and processing of materials.


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, biomaterials and biological materials, advanced materials, metamaterials, high-entropy alloys. Applications - Structural, opto-electronic, magnetic, medical, MEMS, sensors, smart materials, additive manufacturing, membranes, materials for energy systems. 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. Properties - Mechanical, magnetic, optical, electrical, ferroelectric, thermal, interfacial, transport, thermodynamic, photoelectrochemical, photocatalytic, thermoelectric, biological. Synthesis - Quenching, solid state, solidification, solution synthesis, vapor deposition, high pressure, explosive, MOVPE and LPE epitaxial processes, single crystal growth. Machine Learning/Artificial Intelligence - Applied to the discovery and design of materials.

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Free Text
Materials Letters has an open access mirror journal, Materials Letters X

Aims and Scope
Materials Letters

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

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, biomaterials and biological materials, advanced materials, metamaterials, high-entropy alloys. Applications- Structural, optoelectronic, magnetic, medical, MEMS, sensors, smart materials, additive manufacturing, membranes, materials for energy systems. 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. Properties- Mechanical, magnetic, optical, electrical, ferroelectric, thermal, interfacial, transport, thermodynamic, photoelectrochemical, photocatalytic, thermoelectric, biological. Synthesis- Quenching, solid state, solidification, solution synthesis, vapor deposition, high pressure, explosive, MOVPE and LPE epitaxial processes, single crystal growth. Machine Learning/Artificial Intelligence- Applied to the discovery and design of materials.

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Biomimetic
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Carbon nanotubes
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Grain boundaries
Grain boundary junctions
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