MATERIALS RESEARCH BULLETIN
An international journal reporting research on the synthesis, structure, and properties of materials

AUTHOR INFORMATION PACK

TABLE OF CONTENTS

- Description p.1
- Audience p.1
- Impact Factor p.1
- Abstracting and Indexing p.2
- Editorial Board p.2
- Guide for Authors p.4

DESCRIPTION

Materials Research Bulletin is an international journal reporting high-impact research on processing-structure-property relationships in functional materials and nanomaterials with interesting electronic, magnetic, optical, thermal, mechanical or catalytic properties. Papers purely on thermodynamics or theoretical calculations (e.g., density functional theory) do not fall within the scope of the journal unless they also demonstrate a clear link to physical properties. Topics covered include functional materials (e.g., dielectrics, pyroelectrics, piezoelectrics, ferroelectrics, relaxors, thermoelectrics, etc.); electrochemistry and solid-state ionics (e.g., photovoltaics, batteries, sensors, and fuel cells); nanomaterials, graphene, and nanocomposites; luminescence and photocatalysis; crystal-structure and defect-structure analysis; novel electronics; non-crystalline solids; flexible electronics; protein-material interactions; and polymeric ion-exchange membranes.

AUDIENCE

Materials Scientists, Ceramists, Chemists

IMPACT FACTOR

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INTRODUCTION

Materials Research Bulletin is an international journal reporting high-impact research on processing-structure-property relationships in functional materials and nanomaterials with interesting electronic, magnetic, optical, thermal, mechanical or catalytic properties. Papers purely on thermodynamics or theoretical calculations (e.g., density functional theory) do not fall within the scope of the journal unless they also demonstrate a clear link to physical properties. Topics covered include functional materials (e.g., dielectrics, pyroelectrics, piezoelectrics, ferroelectrics, relaxors, thermoelectrics, etc.); electrochemistry and solid-state ionics (e.g., photovoltaics, batteries, sensors, and fuel cells); nanomaterials, graphene, and nanocomposites; luminescence and photocatalysis; crystal-structure and defect-structure analysis; novel electronics; non-crystalline solids; flexible electronics; protein-material interactions; and polymeric ion-exchange membranes.

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ceramics  
chalcogenides  
composites  
electronic materials  
elements  
fluorides  
fullerenes  
glasses  
halides  
hydrides  
inorganic compounds  
interfaces  
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layered compounds  
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sputtering
vapor deposition
solvothermal
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luminescence
magnetic properties
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mechanical properties
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high pressure
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ultrasonic measurements
XAFS (EXAFS and XANES)
X-ray diffraction
neutron diffraction
transmission electron microscopy (TEM)
electron spin resonance

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charge-density waves
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color centers
crystal structure
defects
dielectric properties
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elastic properties
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electronic paramagnetic resonance (EPR)
electronic structure
energy storage
equations-of-state
Fermi surface
ferroelectricity
fracture
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specific heat
spin-density waves
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