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

AUTHOR INFORMATION PACK

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DESCRIPTION

Please note that we have moved submission system to Editorial Manager. If you plan to submit to Materials Research Bulletin, please click on the Submit your Paper link to be taken to the correct submission system. Please do not use saved/bookmarked links.

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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**Xinhui Xia**, Zhejiang University School of Materials Science and Engineering, China

**Dongfeng Xue**, Shandong University, State Key Laboratory of Crystal Materials, China

**Haixue Yan**, Queen Mary University of London School of Engineering and Materials Science, United Kingdom

Ceramics Processing and Characterizations, Spark Plasma Sintering, Nano, Ferroelectrics and Thermoelectrics

**Shuhong Yu**, University of Science and Technology of China School of Chemistry and Materials Science, China

**Di Zhou**, Xi'an Jiaotong University School of Electronic and Information Engineering, China

Microwave dielectric materials, low temperature co-fired ceramics technology (LTCC), energy storage capacitor materials, microwave absorption materials, and functional composite materials.

**Yong Zhou**, Nanjing University, China
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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 ionicics (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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inorganic compounds
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magnetic materials
metals
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multilayers
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superconductors
structural materials
thin films
pnictides
topological insulators

B. PREPARATION AND PROCESSING
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crystal growth
epitaxial growth
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luminescence
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C. TECHNIQUES
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photoelectron spectroscopy
positron annihilation spectroscopy
Raman spectroscopy
scanning tunneling microscopy (STM)
thermogravimetric analysis (TGA)
ultrasonic measurements
XAFS (EXAFS and XANES)
X-ray diffraction
neutron diffraction
transmission electron microscopy (TEM)
electron spin resonance

D. PROPERTIES AND PHENOMENA  acoustical properties
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color centers
crystal structure
defects
dielectric properties
diffusion
electelastic properties
electrical properties
electrochemical properties
electronic paramagnetic resonance (EPR)
electronic structure
energy storage
equations-of-state
Fermi surface
ferroelectricity
fracture
ionic conductivity
specific heat
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