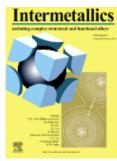


AUTHOR INFORMATION PACK

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Keywords for Intermetallics

keywThe keywords for Intermetallics are separated into seven categories:

- A. MATERIAL TYPE
- B. ASPECT OR PROPERTY STUDIED
- C. SYNTHESIS AND PROCESSING
- D. STRUCTURAL FEATURES
- E. THEORY
- F. CHARACTERIZATION
- G. APPLICATION

A. TYPES OF MATERIAL

functional alloys (magnetic, electrical, biomedical) intermetallics (aluminides, silicides) high-entropy alloys metallic glasses (or amorphous metals) nanocrystalline metals porous materials shape-memory alloys thin films and multilayers

B. ASPECT OR PROPERTY STUDIED

age-hardening
alloy design
anelasticity
anisotropy
annealing
atomic packing density
biocompatibility
bonding
brittleness and ductility
cavitation
constitutive equation
corrosion
crack propagation
creep (properties and mechanisms)

crystal chemistry

cyclic plasticity

deformation map

diffusion

density functional theory

dislocation structure

dispersion strengthening

dynamic recrystallization

elastic properties

electrochemistry

electronic structure

electrical properties

embrittlement

equal channel angular pressing/extrusion

erosion

fatigue resistance and crack growth

fracture

fracture toughness

glass forming ability

glass transition and crystallization

grain boundary diffusion

grain boundary embrittlement

grain boundary segregation

grain boundary sliding

hydrides

hydrogen embrittlement

hydrogen storage

in situ

indentation size effect

internal friction

inhomogeneous deformation

irradiation effects

magnetic properties

martensitic transformation

mechanical properties

microalloying

nanocrystalline structure

nucleation and growth

order/disorder transformation

oxidation

phase transformation (crystallographic aspects kinetics and mechanisms)

plastic deformation mechanisms

phase stability

residual stresses

self-assembly

semi-solid

shape-memory effects (including superelasticity)

shear band

slip system

solid-solution hardening

strain-aging

stress relaxation

superconducting properties

superplasticity

surface properties

texture (macro- and micro-; including ODFs) (see also 'grain-boundary

character distribution©, Section D)

thermal properties

thermal stability

thermoelectric properties

thermodynamic properties toughness tribological properties twinning viscosity void formation and growth work-hardening yield stress

C. PROCESSING (INCLUDING SYNTHESIS)

casting (including segregation)

coatings

crystal growth

electroplating

focused ion beam machining

friction stir processing

functionally graded structure

heat treatment

hot isostatic pressing

isothermal forging

joining (welding, brazing, diffusion-bonding, etc.)

laser processing and cladding

mechanical alloying and milling

microwave processing

nanocrystals (see 'nanostructured materials', Section A)

near-net-shape manufacturing

spray forming

thermoplastic forming

powder metallurgy (including sintering and consolidation)

purification

rapid solidification

reaction synthesis

recrystallization and recovery (including grain growth)

severe plastic deformation

single-crystal growth (see 'crystal growth', this section)

superplastic forming

surface finishing

thermomechanical processing (including extrusion, rolling and forging)

deposition (including electron beam, sputtering, and electrodeposition)

ultrasonic processing

welding (see 'joining', this section)

D. STRUCTURAL FEATURES

antiphase domain

dislocation geometry and arrangement (including superdislocation)

point defect (vacancy, anti-site, interstitial, impurity)

planar faults

plastic deformation unit

free volume

grain boundary

martensitic structure

microstructure

interfaces

segregation

site occupancy

E. THEORY

ab-initio calculations

molecular dynamics simulation

Monte Carlo simulation

finite-element modeling

defects: theory

electronic structure, calculation mechanical properties, theory

multiscale

pair correlation function phase field modeling phase stability, prediction

ordering energies physical properties

yield behavior

F. CHARACTERIZATION

(to be indexed only where the technique is the main topic of the paper)

analysis, chemical

atom probe

atomic force microscopy

Auger electron spectroscopy

chemical map

differential scanning calorimetry

differential thermal analysis

diffraction/sacterring (electron, neutron and X-ray)

digital image correlation

electrochemical characterization

electron backscatter diffraction

electron microprobe

electron microscopy, scanning

electron microscopy, transmission

extended X-ray absorption fine structure

field ion microscopy

high-speed photography

internal stress measurement

ion-beam methods

mechanical testing

metallographic techniques

microscopy, various

nanoindentation

orientation imaging microscopy

residual stress measurement

scanning tunneling electron microscopy

secondary ion mass spectrometry

spectroscopic methods, various

pole figure

tomography

trace element analysis

x-ray tomography

G. APPLICATION

aero-engine components

aerospace structures

automotive uses, including engines (and other transportation uses)

biomedical

catalysis

corrosion- and erosion-resistant applications

damping

dental

ecosystem

energy systems (including energy conversion)

environmental

furnace, including heating elements

hydrogen storage and permeation

MicroElectroMechanical (MEMS) and NanoElectroMechanical NEMS

Sensor shape-memory alloy applications (actuators, couplings, etc.) superconducting thermoelectric power generation wear-resistant

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