Subject Index of Volume 184

Alanine

crystal structure of an Sm complex with β -ala, L1

Aluminium

metal oxide with low temperature LiFeSnO₄ type crystal structure: (Cu, Zn)₄AlTaO₈, 323

glass-forming ability of Al-Ce system: a thermodynamic approach, 139 magnetic and microstructural properties of Nd-Fe-Al alloys, 121

reaction kinetics of MmNi_{4.5}A_{10.5}-H system, 109

Antimony

Fe containing substitutes of structure types Pd₅Sb₂, 131

Arsenic

crystal structure of $U_6Ni_{20}P_{13}$ and $U_6Ni_{20}As_{13}$, L27

Bismuth

synthesis and structure of Bi₂Fe₂Mn₂O₁₀, 151

Boron

phase transformations in sputtered Nd-Fe-B alloys, 35

Cerium

glass-forming ability of Al-Ce system: a thermodynamic approach, 139

Chemical vapor deposition

CVD method for manufacture of SiC tubes, 219

Copper

effect of La_2O_3 addition on crystal structure of 2201-type Bi-Sr-Cu-O phase: $\text{Bi}_3\text{Sr}_2\text{La}_n\text{Cu}_{1.25}\text{O}_{7.75+1.5n}$, L15

contribution on $KCuTa_3O_9$, L21 metal oxide with low temperature

LiFeSnO₄ type crystal structure: (Cu, Zn)₄AlTaO₈, 323

preparation and crystal structure of Na₄Cu₂S₃, a thiocuprate with discrete anions, 265

structure refinements of LiCu₂O₂ and LiCu₃O₃ from neutron powder diffraction data, 315 kinetics and mechanism of low temperature corrosion of Ti with Cu(I) chloride. A comparison with Si and an Si-Ti alloy, 211

Corrosion

kinetics and mechanism of low temperature corrosion of Ti with Cu(I) chloride. A comparison with Si and an Si-Ti alloy, 211

Crystallography

crystallographic data, vibrational spectra and magnetic properties of lanthanide digermanates Ln₂Ge₂O₇, 25

Deoxidation

preparation and characterization of extra-low-oxygen Ti, 43

Diffusion

model calculations for hydride nucleation on oxide-coated metallic surfaces: surface- and diffusion-related parameters, 11

Erbium

orbital magnetization and Fe contribution to magnetic anisotropy of Er₂Fe₁₇C_x, 235

Germanium

crystallographic data, vibrational spectra and magnetic properties of lanthanide digermanates Ln₂Ge₂O₇, 25

Glasses

glass-forming ability of Al-Ce system: a thermodynamic approach, 139

Gold

information on Ba₉Au₂O₁₂, 187 synthesis and crystal structure of Au AAuX with A≡Na, K, Rb or Cs, X≡S, Se or Te, 87

HDDR magnets

production and characterization of bonded, hot-pressed and die-upset, HDDR magnets, 243

High-frequency levitation

kinetics of interaction of C and O in Nb during vacuum levitation melting, 305 kinetics of O and C removal from liquid Mo in high-frequency levitation in vacuum, 297

Holmium

crystal and magnetic structure of permanent magnetic material ${\rm Ho_2Fe_{14}C},$ 161

Hydrides

model calculations for hydride nucleation on oxide-coated metallic surfaces: surface- and diffusion-related parameters, 11

Hydrogen

H-induced metal atom rearrangements in $\mathrm{Pd}_{3+x}\mathrm{Mn}_{1-x}$ alloys with $x\!=\!0$ using TEM, electrical resistivities and H_2 solubilities, 69

reaction kinetics of MmNi_{4.5}A_{10.5}-H system, 109

kinetics of H-induced ordering in Pd_3Mn to L12-type structure, 57

Hydrogen storage

synthesis, characterization and hydrogenation behaviour of Mg-xwt.%FeTi(Mn) and La₂Mg₁₇-xwt.%LaNi₅ — new H storage composite alloys, 1

Iron

crystal and magnetic structure of permanent magnetic material Ho₂Fe₁₄C, 161

crystal and magnetic structure of permanent magnetic material Tm₂Fe₁₄C, 175

magnetic and microstructural properties of Nd-Fe-Al alloys, 121

magnetic and structural properties of Fe and Mn lanthanide spinels, 203

orbital magnetization and Fe contribution to magnetic anisotropy of $Er_2Fe_{17}C_x$, 235

phase transformations in sputtered Nd-Fe-B alloys, 35

P-C-T relation of Sm₂Fe₁₇-N system, L5

vaporization behaviour of iron monotelluride, 285

synthesis and structure of $Bi_2Fe_2Mn_2O_{10}$, 151

production and characterization of bonded, hot-pressed and die-upset HDDR magnets, 243

Kinetics

reaction kinetics of $MmNi_{4.5}A_{10.5}$ –H system, 109

kinetics of H-induced ordering in Pd_3Mn to L12-type structure, 57

Lanthanum

crystallographic data, vibrational spectra and magnetic properties of lanthanide digermanates Ln₂Ge₂O₇, 25

effect of La₂O₃ addition on crystal structure of 2201-type Bi-Sr-Cu-O phase: Bi₃Sr₂La_nCu_{1.25}O_{7.75+1.5n}, L15

synthesis, characterization and hydrogenation behaviour of Mg_xwt.%FeTi(Mn) and La₂Mg₁₇-xwt.%LaNi₅ — new H storage composite alloys, 1

Lithium

structure refinements of LiCu₂O₂ and LiCu₃O₃ from neutron powder diffraction data, 315

Lutetium

magnetic and structural properties of Fe and Mn lanthanide spinels, 203

Magnetic isotropy

orbital magnetization and Fe contribution to magnetic anisotropy of $Er_2Fe_{17}C_x$, 235

Magnetism

crystal and magnetic structure of permanent magnetic material Ho₂Fe₁₄C, 161

crystal and magnetic structure of permanent magnetic material $Tm_2Fe_{14}C$, 175

crystallographic data, vibrational spectra and magnetic properties of lanthanide digermanates Ln₂Ge₂O₇, 25

magnetic and microstructural properties of Nd-Fe-Al alloys, 121

magnetic and structural properties of Fe and Mn lanthanide spinels, 203

Manganese

magnetic and structural properties of Fe and Mn lanthanide spinels, 203 Molybdenum

A₂MoTiO_{7-x} (A≡rare earth or Y): new series of oxide pyrochlores prepared by topochemical reduction of A₂MoTiO₈ scheelites, 343

kinetics of O and C removal from liquid Mo in high-frequency levitation in vacuum, 297

Neodymium

magnetic and microstructural properties of Nd-Fe-Al alloys, 121

phase transformations in sputtered Nd-Fe-B alloys, 35

production and characterization of bonded, hot-pressed and die-upset HDDR magnets, 243

Neutron powder diffraction

structure refinements of LiCu₂O₂ and LiCu₃O₃ from neutron powder diffraction data, 315

Nickel

crystal structure of $U_6Ni_{20}P_{13}$ and $U_6Ni_{20}As_{13}$, L27

reaction kinetics of MmNi_{4.5}Al_{0.5}-H system, 109

synthesis, characterization and hydrogenation behaviour of Mg-xwt.%FeTi(Mn) and La₂Mg₁₇-xwt.%LaNi₅ — new H storage composite alloys, 1

Niobium

kinetics of interaction of C and O in Nb during vacuum levitation melting, 305

synthesis and structure of Nb₃SiTe₆, new layered ternary Nb telluride compound, 257

Nitrogen

P-C-T relation of Sm₂Fe₁₇-N system, L5

Nucleation

model calculations for hydride nucleation on oxide-coated metallic surfaces: surface- and diffusion-related parameters, 11

Osmium

pyrite-type $RuS_{2-2x}Se_{2x}$ and $Ru_{1-x}Os_xS_2$ solid solutions: X-ray structure determination and Raman spectra, 275

Oxide coatings

model calculations for hydride nucleation on oxide-coated metallic surfaces: surface- and diffusion-related parameters, 11

Palladium

H-induced metal atom rearrangements in $Pd_{3+x}Mn_{1-x}$ alloys with x=0

using TEM, electrical resistivities and H₂ solubilities, 69

kinetics of H-induced ordering in Pd₃Mn to L12-type structure, 57 phase diagram of Pd-Pr below 50at.% Pr, L9

Fe containing substitutes of structure types Pd₅Sb₂, 131

Praseodymium

phase diagram of Pd-Pr below 50at.% Pr, L9

Pyrochlores

A₂MoTiO_{7-x} (A≡rare earth or Y): new series of oxide pyrochlores prepared by topochemical reduction of A₂MoTiO₈ scheelites, 343

Raman spectroscopy

pyrite-type $RuS_{2-2x}Se_{2x}$ and $Ru_{1-x}Os_xS_2$ solid solutions: X-ray structure determination and Raman spectra, 275

Rubidium

synthesis and crystal structure of Au AAuX with A≡Na, K, Rb or Cs, X≡S, Se or Te, 87

Ruthenium

preparation and structure determination of $Ba_8Ru_{3.33}Ta_{1.67}O_{18}Cl_2$, 195

pyrite-type RuS_{2-2x}Se_{2x} and Ru_{1-x}Os_xS₂ solid solutions: X-ray structure determination and Raman spectra, 275 standard molar Gibbs free energy of

formation on URu₃(s), 329

Samarium

P-C-T relation of Sm_2Fe_{17} -N system, L5

crystal structure of an Sm complex with β -ala, L1

Scheelites

 A_2 MoTiO_{7-x} (A=rare earth or Y): new series of oxide pyrochlores prepared by topochemical reduction of A_2 MoTiO₈ scheelites, 343

Selenium

magnetic and structural properties of Fe and Mn lanthanide spinels, 203 pyrite-type $RuS_{2-2x}Se_{2x}$ and $Ru_{1-x}Os_xS_2$ solid solutions: X-ray structure determination and Raman spectra, 275 synthesis and crystal structure of Au AAuX with $A \equiv Na$, K, Rb or Cs,

X≡S, Se or Te, 87

SiC

CVD method for manufacture of SiC tubes, 219

Silicon

synthesis and structure of Nb₃SiTe₆, new layered ternary Nb telluride compound, 257

kinetics and mechanism of low temperature corrosion of Ti with Cu(I) chloride. A comparison with Si and an Si-Ti alloy, 211

Silver

new phase in Tl-Ag-Te system: crystal structure of Tl₂Ag₁₆Te₁₁, 337

Strontium

effect of La₂O₃ addition on crystal structure of 2201-type Bi-Sr-Cu-O phase: Bi₃Sr₂La_nCu_{1.25}O_{7.75+1.5n}, L15

Tantalum

preparation and structure determination of Ba₈Ru_{3.33}Ta_{1.67}O₁₈Cl₂, 195 contribution on KCuTa₃O₆, L21 metal oxide with low temperature LiFeSnO₄ type crystal structure: (Cu, Zn)₄AlTaO₆, 323

Tellurium

new phase in Tl-Ag-Te system: crystal structure of Tl₂Ag₁₆Te₁₁, 337

study of vaporization behaviour of Fe monotelluride, 285

synthesis and structure of Nb₃SiTe₆, new layered ternary Nb telluride compound, 257

order-disorder transformation in V_3Te_4 , 95

synthesis and crystal structure of Au AAuX with A≡Na, K, Rb or Cs, X≡S, Se or Te, 87

Thallium

new phase in Tl-Ag-Te system: crystal structure of Tl₂Ag₁₆Te₁₁, 337

Thermodynamics

standard molar Gibbs free energy of formation on URu₃(s), 329

Thiocuprate

preparation and crystal structure of Na₄Cu₂S₃, thiocuprate with discrete anions, 265

Thulium

crystal and magnetic structure of permanent magnetic material Tm₂Fe₁₄C, 175

Titanium

 A_2MoTiO_{7-x} (A=rare earth of Y): new series of oxide pyrochlores prepared by topochemical reduction of A_2MoTiO_8 scheelites, 343

preparation and characterization of extra-low-oxygen Ti, 43

synthesis, characterization and hydrogenation behaviour of Mg-xwt.%FeTi(Mn) and La₂Mg₁₇-xwt.%LaNi₅ — new H storage composite alloys, 1

kinetics and mechanism of low temperature corrosion of Ti with Cu(I) chloride. A comparison with Si and an Si-Ti alloy, 211

Transformation

order-disorder transformation in V₃Te₄, 95

Transmission electron microscopy
H-induced metal atom rearrangements
in $Pd_{3+x}Mn_{1-x}$ alloys with x=0using TEM, electrical resistivities
and H_2 solubilities, 69

Uranium

crystal structure of U₆Ni₂₀P₁₃ and U₆Ni₂₀As₁₃, L27 standard molar Gibbs free energy of formation on URu₃(s), 329

Vanadium

order-disorder transformation in V_3Te_4 , 95

Vaporization

study of vaporization behaviour of Fe monotelluride, 285

Vibrational spectroscopy

crystallographic data, vibrational spectra and magnetic properties of lanthanide digermanates Ln₂Ge₂O₇, 25

Ytterbium

magnetic and structural properties of Fe and Mn lanthanide spinels, 203

 A_2 MoTiO_{7-x} (A=rare earth or Y): new series of oxide pyrochlores prepared by topochemical reduction of

Zinc

metal oxide with low temperature LiFeSnO₄ type crystal structure: (Cu, Zn)₄AlTaO₈, 323

A₂MoTiO₈ scheelites, 343