



Subject index

Absorber

- The behaviour of control rod absorber under irradiation, J. Bourgoin, F. Couvreur, D. Gosset, F. Defoort, M. Monchanin and X. Thibault 275 (1999) 296

Actinides (*excludes Plutonium, Thorium and Uranium*)

- Vaporization behavior of NpN co-loaded with PuN, K. Nakajima, Y. Arai and Y. Suzuki 275 (1999) 332

Analytical Instruments and Methods

- Reexamination of the fundamental interactions of water with uranium, W.L. Manner, J.A. Lloyd and M.T. Paffett 275 (1999) 37

- Internal friction study of hydrogen behaviour in low activated martensitic F82H steel, Y. Jagodzinski, A. Tarasenko, S. Smuk, S. Tähtinen and H. Hänninen 275 (1999) 47

- Effect of Ti solute on the recovery of cold-rolled V–Ti alloys, T. Leguey, A. Muñoz and R. Pareja 275 (1999) 138

- Fracture strength of hydride precipitates in Zr–2.5Nb alloys, S.-Q. Shi and M.P. Puls 275 (1999) 312

Carbon

- Nitrogen implantation into carbon: retention, release and target-erosion processes, S. Grigull, R. Behrisch and S. Parascandola 275 (1999) 158

Ceramics (*not listed elsewhere*)

- Use of linear free energy relationship to predict Gibbs free energies of formation of zirconolite phases (M₂ZrTi₂O₇ and MHfTi₂O₇), H. Xu and Y. Wang 275 (1999) 211

- Use of linear free energy relationship to predict Gibbs free energies of formation of pyrochlore phases (CaMTi₂O₇), H. Xu and Y. Wang 275 (1999) 216

Chemical Reactions (*includes Electrochemical and Thermochemical Reactions*)

- Selection of materials as diluents for burning of plutonium fuels in nuclear reactors, H. Kleykamp 275 (1999) 1

- ⁷⁹Se: geochemical and crystallochemical retardation mechanisms, F. Chen, P.C. Burns and R.C. Ewing 275 (1999) 81

- Cation incorporation into zirconium oxide in LiOH, NaOH, and KOH solutions, Y.H. Jeong, K.H. Kim and J.H. Baek 275 (1999) 221

- Reactions of U–Zr alloy with Fe and Fe–Cr alloy, K. Nakamura, T. Ogata, M. Kurata, A. Itoh and M. Akabori 275 (1999) 246

Compatibility and corrosion (*includes Stress Corrosion Cracking*)

- Selection of materials as diluents for burning of plutonium fuels in nuclear reactors, H. Kleykamp 275 (1999) 1

- Reexamination of the fundamental interactions of water with uranium, W.L. Manner, J.A. Lloyd and M.T. Paffett 275 (1999) 37

- Influence of thermomechanical treatment on the corrosion behavior of Zr–1Nb–0.2Cu alloys, J.M. Kim and Y.H. Jeong 275 (1999) 74

- Synergistic interaction of fatigue and stress corrosion on the corrosion fatigue crack growth behavior in Alloy 600 in high temperature and high pressure water, W.Y. Maeng, Y.H. Kang, T.W. Nam, S. Ohashi and T. Ishihara 275 (1999) 194

- Cation incorporation into zirconium oxide in LiOH, NaOH, and KOH solutions, Y.H. Jeong, K.H. Kim and J.H. Baek 275 (1999) 221

Copper, Copper Alloys and Compounds

- The influence of neutron irradiation on the fatigue performance of OFHC copper and a dispersion strength-

- ened copper alloy, B.N. Singh, J.F. Stubbins and P. Toft 275 (1999) 125
- Crystallographic Properties**
- ⁷⁹Se: geochemical and crystallo-chemical retardation mechanisms, F. Chen, P.C. Burns and R.C. Ewing 275 (1999) 81
- Defects and Defect structures** (*excludes by Irradiation*)
- Effects of thermal cycles on ²²²Rn permeability in Au, S.K. Bhattacharyya and S.K. Pabi 275 (1999) 206
- Diffusion**
- Comments on 'Thermal treatment of uranium oxide irradiated in pressurized water reactor: swelling and release of fission gases'¹ by I. Zacharie, S. Lansart, P. Combette, M. Troabas, M. Coster and M. Groos, J.H. Evans 275 (1999) 108
- Reactions of U-Zr alloy with Fe and Fe-Cr alloy, K. Nakamura, T. Ogata, M. Kurata, A. Itoh and M. Akabori 275 (1999) 246
- Mechanisms involved in thermal diffusion of rare earth elements in apatite, P. Martin, G. Carlot, A. Chevarier, C. Den-Auwer and G. Panczer 275 (1999) 268
- Diffusion-controlled hydride growth near crack tip in zirconium under temperature transients, S.-Q. Shi 275 (1999) 318
- Electron Irradiation**
- Determination of displacement threshold energies in pure Ti and in γ -TiAl alloys by electron irradiation, G. Sattonnay, F. Rullier-Albenque and O. Dimitrov 275 (1999) 63
- Electron Microscopy**
- Damage observed in Mo irradiated with 14 MeV neutrons at RTNS-II, K. Yamakawa and Y. Shimomura 275 (1999) 101
- Experimental Techniques**
- Feedback control of highly radiative plasmas in Tore Supra, C. Grisolia, Ph. Ghendrih, A. Grosman, P. Monier-Garbet, D. Moulin and J.C. Vallet 275 (1999) 95
- Fatigue**
- The influence of neutron irradiation on the fatigue performance of OFHC copper and a dispersion strengthened copper alloy, B.N. Singh, J.F. Stubbins and P. Toft 275 (1999) 125
- Synergistic interaction of fatigue and stress corrosion on the corrosion fatigue crack growth behavior in Alloy 600 in high temperature and high pressure water, W.Y. Maeng, Y.H. Kang, T.W. Nam, S. Ohashi and T. Ishihara 275 (1999) 194
- First Wall Materials**
- Low temperature yield properties of two 7-9Cr ferritic/martensitic steels, P. Spätig, G.R. Odette and G.E. Lucas 275 (1999) 324
- Fission Products**
- Assessment of the radial extent and completion of recrystallisation in high burn-up UO₂ nuclear fuel by EPMA, C.T. Walker 275 (1999) 56
- ⁷⁹Se: geochemical and crystallo-chemical retardation mechanisms, F. Chen, P.C. Burns and R.C. Ewing 275 (1999) 81
- Location of krypton atoms in uranium dioxide, T. Petit, G. Jomard, C. Lemaignan, B. Bigot and A. Pasturel 275 (1999) 119
- A theoretical study of volatile fission products release from oxide fuels, M.C. Paraschiv, A. Paraschiv and V.V. Grecu 275 (1999) 164
- Fracture and Fracture Toughness**
- Synergistic interaction of fatigue and stress corrosion on the corrosion fatigue crack growth behavior in Alloy 600 in high temperature and high pressure water, W.Y. Maeng, Y.H. Kang, T.W. Nam, S. Ohashi and T. Ishihara 275 (1999) 194
- Fracture strength of hydride precipitates in Zr-2.5Nb alloys, S.-Q. Shi and M.P. Puls 275 (1999) 312
- Fuels and fuel Elements**
- Selection of materials as diluents for burning of plutonium fuels in nuclear reactors, H. Kleykamp 275 (1999) 1
- Reexamination of the fundamental interactions of water with uranium, W.L. Manner, J.A. Lloyd and M.T. Paffett 275 (1999) 37
- A theoretical study of volatile fission products release from oxide fuels, M.C. Paraschiv, A. Paraschiv and V.V. Grecu 275 (1999) 164
- Reactions of U-Zr alloy with Fe and Fe-Cr alloy, K. Nakamura, T. Ogata, M. Kurata, A. Itoh and M. Akabori 275 (1999) 246
- Study by acoustic microscopy of irradiated and non-irradiated uranium dioxide, V. Roque, D. Baron, J. Bourgoin and J.M. Saurel 275 (1999) 305

Fusion Reactors

Internal friction study of hydrogen behaviour in low activated martensitic F82H steel, Y. Jagodzinski, A. Tarasenko, S. Smuk, S. Tähtinen and H. Hänninen 275 (1999) 47

Feedback control of highly radiative plasmas in Tore Supra¹, C. Grisolia, Ph. Ghendrih, A. Grosman, P. Monier-Garbet, D. Moulin and J.C. Vallet 275 (1999) 95

Gases (excludes Hydrogen, Helium and Tritium)

Reply to the comments by J.H. Evans about two papers 'Thermal treatment of UO₂ irradiated in a pressurized water reactor: swelling and release of fission gases'¹ and 'Microstructural analysis and modelling of intergranular swelling of an irradiated UO₂ fuel treated at high temperature'² by I. Zacharie, S. Lansiaart, P. Combette, M. Trotabas, M. Coster and M. Groos, P. Combette and I. Zacharie 275 (1999) 112

Location of krypton atoms in uranium dioxide, T. Petit, G. Jomard, C. Lemaignan, B. Bigot and A. Pasturel 275 (1999) 119

Growth

Morphology of UO₂, M. Abramowski, R.W. Grimes and S. Owens 275 (1999) 12

Hydrogen and Hydrides (includes Deuterium and Deuterides)

Internal friction study of hydrogen behaviour in low activated martensitic F82H steel, Y. Jagodzinski, A. Tarasenko, S. Smuk, S. Tähtinen and H. Hänninen 275 (1999) 47

Electrolytic hydrogenation and its isotope effect in Zr and Pd studied by ERDA and SIMS techniques, Y. Oya, T. Suzuki, K. Inuma, K. Morita, T. Horikawa, K. Abe and M. Okamoto 275 (1999) 186

Hydride distribution around a blister in Zr-2.5Nb pressure tubes, G. Domizzi, G. Vigna, S. Bermúdez and J. Ovejero-García 275 (1999) 255

Fracture strength of hydride precipitates in Zr-2.5Nb alloys, S.-Q. Shi and M.P. Puls 275 (1999) 312

Diffusion-controlled hydride growth near crack tip in zirconium under temperature transients, S.-Q. Shi 275 (1999) 318

Ion Irradiation

Mechanical properties of 304L stainless steel irradiated with 800 MeV protons, J. Chen, Y. Dai, F. Carsughi, W.F. Sommer, G.S. Bauer and H. Ullmaier 275 (1999) 115

Nitrogen implantation into carbon: retention, release and target-erosion processes, S. Grigull, R. Behrisch and S. Parascandola 275 (1999) 158

Iron, Iron alloys (excludes steels) and compounds

Equilibrium phase relations in the U-Zr-Fe ternary system, K. Nakamura, M. Kurata, T. Ogata, A. Itoh and M. Akabori 275 (1999) 151

Irradiation (not listed elsewhere, includes Irradiation History or Schedule)

Study by acoustic microscopy of irradiated and non-irradiated uranium dioxide, V. Roque, D. Baron, J. Bourgoïn and J.M. Saurel 275 (1999) 305

Magnesium, Magnesium Alloys and Compounds

Wet precipitate method for mixing magnesium and uranium in preparation of Mg_yU_{1-y}O_{2+x} solid solution, T. Fujino, Y. Hoshi, N. Sato and K. Yamada 275 (1999) 19

Mechanical Properties (not listed elsewhere)

Mechanical properties of 304L stainless steel irradiated with 800 MeV protons, J. Chen, Y. Dai, F. Carsughi, W.F. Sommer, G.S. Bauer and H. Ullmaier 275 (1999) 115

Low temperature yield properties of two 7-9Cr ferritic/martensitic steels, P. Spätig, G.R. Odette and G.E. Lucas 275 (1999) 324

Metals, Alloys and Compounds (not listed elsewhere)

Electrolytic hydrogenation and its isotope effect in Zr and Pd studied by ERDA and SIMS techniques, Y. Oya, T. Suzuki, K. Inuma, K. Morita, T. Horikawa, K. Abe and M. Okamoto 275 (1999) 186

Effects of thermal cycles on ²²²Rn permeability in Au, S.K. Bhattacharyya and S.K. Pabi 275 (1999) 206

Microstructure and Texture (excludes by Irradiation)

Morphology of UO₂, M. Abramowski, R.W. Grimes and S. Owens 275 (1999) 12

Influence of thermomechanical treatment on the corrosion behavior of Zr-1Nb-0.2Cu alloys, J.M. Kim and Y.H. Jeong 275 (1999) 74

Molybdenum, Molybdenum Alloys and Compounds

Damage observed in Mo irradiated with 14 MeV neutrons at RTNS-II, K. Yamakawa and Y. Shimomura 275 (1999) 101

Neutron Irradiation

Damage observed in Mo irradiated with 14 MeV neutrons at RTNS-

- II, K. Yamakawa and Y. Shimomura
The influence of neutron irradiation on the fatigue performance of OFHC copper and a dispersion strengthened copper alloy, B.N. Singh, J.F. Stubbins and P. Toft 275 (1999) 101
- Nickel, Nickel Alloys and Compounds**
The mode of stress corrosion cracking in Ni-base alloys in high temperature water containing lead, S.S. Hwang, H.P. Kim, D.H. Lee, U.C. Kim and J.S. Kim 275 (1999) 28
Synergistic interaction of fatigue and stress corrosion on the corrosion fatigue crack growth behavior in Alloy 600 in high temperature and high pressure water, W.Y. Maeng, Y.H. Kang, T.W. Nam, S. Ohashi and T. Ishihara 275 (1999) 194
- Permeation**
Effects of thermal cycles on ^{222}Rn permeability in Au, S.K. Bhattacharyya and S.K. Pabi 275 (1999) 206
- Phase Equilibria (includes Constitution, Phase Stability, Phase Instability)**
Equilibrium phase relations in the U–Zr–Fe ternary system, K. Nakamura, M. Kurata, T. Ogata, A. Itoh and M. Akabori 275 (1999) 151
Reactions of U–Zr alloy with Fe and Fe–Cr alloy, K. Nakamura, T. Ogata, M. Kurata, A. Itoh and M. Akabori 275 (1999) 246
- Physical Properties (not listed elsewhere)**
Selection of materials as diluents for burning of plutonium fuels in nuclear reactors, H. Kleykamp 275 (1999) 1
- Plasma-Materials Interaction**
Feedback control of highly radiative plasmas in Tore Supra¹, C. Grisolia, Ph. Ghendrih, A. Grosman, P. Monier-Garbet, D. Moulin and J.C. Vallet 275 (1999) 95
- Plasma Properties (includes Plasma Disruption)**
Feedback control of highly radiative plasmas in Tore Supra¹, C. Grisolia, Ph. Ghendrih, A. Grosman, P. Monier-Garbet, D. Moulin and J.C. Vallet 275 (1999) 95
- Plutonium, Plutonium Alloys and Compounds**
Selection of materials as diluents for burning of plutonium fuels in nuclear reactors, H. Kleykamp 275 (1999) 1
- Use of linear free energy relationship to predict Gibbs free energies of formation of zirconolite phases (MZrTi_2O_7 and MHfTi_2O_7), H. Xu and Y. Wang 275 (1999) 211
Use of linear free energy relationship to predict Gibbs free energies of formation of pyrochlore phases (CaMTi_2O_7), H. Xu and Y. Wang 275 (1999) 216
Vaporization behavior of NpN co-loaded with PuN, K. Nakajima, Y. Arai and Y. Suzuki 275 (1999) 332
- Precipitates and Precipitation**
Influence of thermomechanical treatment on the corrosion behavior of Zr–1Nb–0.2Cu alloys, J.M. Kim and Y.H. Jeong 275 (1999) 74
Fracture strength of hydride precipitates in Zr–2.5Nb alloys, S.-Q. Shi and M.P. Puls 275 (1999) 312
- Processing**
Wet precipitate method for mixing magnesium and uranium in preparation of $\text{Mg}_y\text{U}_{1-y}\text{O}_{2+x}$ solid solution, T. Fujino, Y. Hoshi, N. Sato and K. Yamada 275 (1999) 19
Preparation and characterization of uranyl oxalate powders, H. Tel, M. Bülbül, M. Eral and Y. Altaş 275 (1999) 146
- Radiation Effects: Atomic Defects**
Effect of Ti solute on the recovery of cold-rolled V–Ti alloys, T. Leguey, A. Muñoz and R. Pareja 275 (1999) 138
- Radiation Effects: Extended Defects, Microstructures**
Assessment of the radial extent and completion of recrystallisation in high burn-up UO_2 nuclear fuel by EPMA, C.T. Walker 275 (1999) 56
Damage observed in Mo irradiated with 14 MeV neutrons at RTNS-II, K. Yamakawa and Y. Shimomura 275 (1999) 101
- Rare Earths**
Mechanisms involved in thermal diffusion of rare earth elements in apatite, P. Martin, G. Carlot, A. Chevarier, C. Den-Auwer and G. Panczer 275 (1999) 268
- Steels, Austenitic**
Mechanical properties of 304L stainless steel irradiated with 800 MeV protons, J. Chen, Y. Dai, F. Carsughi, W.F. Sommer, G.S. Bauer and H. Ullmaier 275 (1999) 115

Steels, Ferritic

- Internal friction study of hydrogen behaviour in low activated martensitic F82H steel, Y. Jagodzinski, A. Tarasenko, S. Smuk, S. Tähtinen and H. Hänninen 275 (1999) 47
- Low temperature yield properties of two 7–9Cr ferritic/martensitic steels, P. Spätig, G.R. Odette and G.E. Lucas 275 (1999) 324

Surface Effects

- Reexamination of the fundamental interactions of water with uranium, W.L. Manner, J.A. Lloyd and M.T. Paffett 275 (1999) 37
- Nitrogen implantation into carbon: retention, release and target-erosion processes, S. Grigull, R. Behrisch and S. Parascandola 275 (1999) 158
- Electrolytic hydrogenation and its isotope effect in Zr and Pd studied by ERDA and SIMS techniques, Y. Oya, T. Suzuki, K. Inuma, K. Morita, T. Horikawa, K. Abe and M. Okamoto 275 (1999) 186

Swelling

- Comments on 'Thermal treatment of uranium oxide irradiated in pressurized water reactor: swelling and release of fission gases'¹ by I. Zacharie, S. Lansiant, P. Combette, M. Trotabas, M. Coster and M. Groos, J.H. Evans 275 (1999) 108
- The behaviour of control rod absorber under irradiation, J. Bourgoïn, F. Couvreur, D. Gosset, F. Defoort, M. Monchanin and X. Thibault 275 (1999) 296

Theory and Modelling

- Low temperature yield properties of two 7–9Cr ferritic/martensitic steels, P. Spätig, G.R. Odette and G.E. Lucas 275 (1999) 324

Thermodynamic Properties

- Gibbs energy of formation of barium thorate (BaThO₃) by reactive carrier gas technique, S.R. Bharadwaj, R. Mishra, M. Ali (Basu), D. Das, A.S. Kerkar and S.R. Dharwadkar 275 (1999) 201
- Determination of thermodynamic stability of CrSbO₄ using oxide solid electrolyte, K. Swaminathan and O.M. Sreedharan 275 (1999) 225
- Volatilization of urania in steam at elevated temperatures, K. Hashizume, W.-E. Wang and D.R. Olander 275 (1999) 277

- A thermodynamic database for zirconium alloys, N. Dupin, I. Ansara, C. Servant, C. Toffolon, C. Lemaignan and J.C. Brachet 275 (1999) 287
- Vaporization behavior of NpN co-loaded with PuN, K. Nakajima, Y. Arai and Y. Suzuki 275 (1999) 332

Thermomechanical Treatment

- Influence of thermomechanical treatment on the corrosion behavior of Zr–1Nb–0.2Cu alloys, J.M. Kim and Y.H. Jeong 275 (1999) 74

Thorium, Thorium Alloys and Compounds

- Gibbs energy of formation of barium thorate (BaThO₃) by reactive carrier gas technique, S.R. Bharadwaj, R. Mishra, M. Ali (Basu), D. Das, A.S. Kerkar and S.R. Dharwadkar 275 (1999) 201

Titanium, Titanium Alloys and Compounds

- Determination of displacement threshold energies in pure Ti and in γ -TiAl alloys by electron irradiation, G. Sattonnay, F. Rullier-Albenque and O. Dimitrov 275 (1999) 63

Uranium, Uranium Alloys and Compounds

- Morphology of UO₂, M. Abramowski, R.W. Grimes and S. Owens 275 (1999) 12
- Wet precipitate method for mixing magnesium and uranium in preparation of Mg_yU_{1-y}O_{2+x} solid solution, T. Fujino, Y. Hoshi, N. Sato and K. Yamada 275 (1999) 19
- Reexamination of the fundamental interactions of water with uranium, W.L. Manner, J.A. Lloyd and M.T. Paffett 275 (1999) 37
- Assessment of the radial extent and completion of recrystallisation in high burn-up UO₂ nuclear fuel by EPMA, C.T. Walker 275 (1999) 56
- Comments on 'Thermal treatment of uranium oxide irradiated in pressurized water reactor: swelling and release of fission gases'¹ by I. Zacharie, S. Lansiant, P. Combette, M. Trotabas, M. Coster and M. Groos, J.H. Evans 275 (1999) 108
- Reply to the comments by J.H. Evans about two papers 'Thermal treatment of UO₂ irradiated in a pressurized water reactor: swelling and release of fission gases'¹ and 'Microstructural analysis and modelling of intergranular swelling of an irradiated UO₂ fuel treated at high temperature'² by I. Zacharie, S. Lansiant, P. Combette, M. Trotabas

- bas, M. Coster and M. Groos, P. Combette and I. Zacharie 275 (1999) 112
- Location of krypton atoms in uranium dioxide, T. Petit, G. Jomard, C. Lemaignan, B. Bigot and A. Pasturel 275 (1999) 119
- Preparation and characterization of uranyl oxalate powders, H. Tel, M. Bülbül, M. Eral and Y. Altaş 275 (1999) 146
- Equilibrium phase relations in the U–Zr–Fe ternary system, K. Nakamura, M. Kurata, T. Ogata, A. Itoh and M. Akabori 275 (1999) 151
- Use of linear free energy relationship to predict Gibbs free energies of formation of zirconolite phases (M_{Zr}Ti₂O₇ and M_{Hf}Ti₂O₇), H. Xu and Y. Wang 275 (1999) 211
- Use of linear free energy relationship to predict Gibbs free energies of formation of pyrochlore phases (CaMTi₂O₇), H. Xu and Y. Wang 275 (1999) 216
- Fluorination of uranium dioxide particles: a review of physical and chemical properties of the compounds involved, S.S. Sazhin and A.P. Jeapes 275 (1999) 231
- Reactions of U–Zr alloy with Fe and Fe–Cr alloy, K. Nakamura, T. Ogata, M. Kurata, A. Itoh and M. Akabori 275 (1999) 246
- Volatilization of urania in steam at elevated temperatures, K. Hashizume, W.-E. Wang and D.R. Olander 275 (1999) 277
- Study by acoustic microscopy of irradiated and non-irradiated uranium dioxide, V. Roque, D. Baron, J. Bourgoin and J.M. Saurel 275 (1999) 305
- Vandium, Vanadium Alloys and Compounds**
- Effect of Ti solute on the recovery of cold-rolled V–Ti alloys, T. Leguey, A. Muñoz and R. Pareja 275 (1999) 138
- Wastes**
- Selection of materials as diluents for burning of plutonium fuels in nuclear reactors, H. Kleykamp 275 (1999) 1
- ⁷⁹Se: geochemical and crystallochemical retardation mechanisms, F. Chen, P.C. Burns and R.C. Ewing 275 (1999) 81
- Use of linear free energy relationship to predict Gibbs free energies of formation of zirconolite phases (M_{Zr}Ti₂O₇ and M_{Hf}Ti₂O₇), H. Xu and Y. Wang 275 (1999) 211
- Use of linear free energy relationship to predict Gibbs free energies of formation of pyrochlore phases (CaMTi₂O₇), H. Xu and Y. Wang 275 (1999) 216
- Mechanisms involved in thermal diffusion of rare earth elements in apatite, P. Martin, G. Carlot, A. Chevarier, C. Den-Auwer and G. Panczer 275 (1999) 268
- Zirconium, Zirconium Alloys and Compounds**
- Influence of thermomechanical treatment on the corrosion behavior of Zr–1Nb–0.2Cu alloys, J.M. Kim and Y.H. Jeong 275 (1999) 74
- Equilibrium phase relations in the U–Zr–Fe ternary system, K. Nakamura, M. Kurata, T. Ogata, A. Itoh and M. Akabori 275 (1999) 151
- Electrolytic hydrogenation and its isotope effect in Zr and Pd studied by ERDA and SIMS techniques, Y. Oya, T. Suzuki, K. Iinuma, K. Morita, T. Horikawa, K. Abe and M. Okamoto 275 (1999) 186
- Use of linear free energy relationship to predict Gibbs free energies of formation of zirconolite phases (M_{Zr}Ti₂O₇ and M_{Hf}Ti₂O₇), H. Xu and Y. Wang 275 (1999) 211
- Use of linear free energy relationship to predict Gibbs free energies of formation of pyrochlore phases (CaMTi₂O₇), H. Xu and Y. Wang 275 (1999) 216
- Cation incorporation into zirconium oxide in LiOH, NaOH, and KOH solutions, Y.H. Jeong, K.H. Kim and J.H. Baek 275 (1999) 221
- Hydride distribution around a blister in Zr–2.5Nb pressure tubes, G. Domizzi, G. Vigna, S. Bermúdez and J. Ovejero-García 275 (1999) 255
- A thermodynamic database for zirconium alloys, N. Dupin, I. Ansara, C. Servant, C. Toffolon, C. Lemaignan and J.C. Brachet 275 (1999) 287
- Fracture strength of hydride precipitates in Zr–2.5Nb alloys, S.-Q. Shi and M.P. Puls 275 (1999) 312
- Diffusion-controlled hydride growth near crack tip in zirconium under temperature transients, S.-Q. Shi 275 (1999) 318