



## Subject index

### **Actinides** (*excludes Plutonium, Thorium and Uranium*)

- Thermodynamic systematics of the formation of liquid alloys of f-elements with bismuth, H. Yamana, J. Sheng, K. Kawamoto and H. Moriyama 294 (2001) 53
- Thermal expansion of  $(\text{Ca}_{1-x}\text{Pu}_x)\text{TiO}_3$ , T. Sato, Y. Hanajiri, T. Yamashita, T. Matsui and T. Nagasaki 294 (2001) 130
- Enthalpy and heat capacity of  $(\text{Ca}_{1-x}\text{Pu}_x)\text{TiO}_3$  ( $x = 0$  and  $0.20$ ), T. Sato, S. Yamazaki, T. Yamashita, T. Matsui and T. Nagasaki 294 (2001) 135

### **Beryllium, Beryllium Alloys and Compounds**

- Selected thermal properties of beryllium and phase equilibria in beryllium systems relevant for nuclear fusion reactor blankets, H. Kleykamp 294 (2001) 88

### **Ceramics** (*not listed elsewhere*)

- Some properties of a lead vanado-iodoapatite  $\text{Pb}_{10}(\text{VO}_4)_6\text{I}_2$ , M. Uno, M. Shinohara, K. Kurosaki and S. Yamanaka 294 (2001) 119
- Thermal expansion of  $(\text{Ca}_{1-x}\text{Pu}_x)\text{TiO}_3$ , T. Sato, Y. Hanajiri, T. Yamashita, T. Matsui and T. Nagasaki 294 (2001) 130
- Enthalpy and heat capacity of  $(\text{Ca}_{1-x}\text{Pu}_x)\text{TiO}_3$  ( $x = 0$  and  $0.20$ ), T. Sato, S. Yamazaki, T. Yamashita, T. Matsui and T. Nagasaki 294 (2001) 135
- Thermodynamic and mechanical properties of  $\text{Ce}_{1-x}\text{Hf}_x\text{O}_2$  ( $x = 0-0.10$ ) solid solutions, N. Nakajima, H. Mitani, Y. Yamamura and T. Tsuji 294 (2001) 188

### **Chemical Reactions** (*includes Electrochemical and Thermochemical Reactions*)

- Carbothermic synthesis of  $(\text{Cm}, \text{Pu})\text{N}$ , M. Takano, A. Itoh, M. Akabori,

- T. Ogawa, M. Numata and H. Okamoto 294 (2001) 24

### **Compatibility and Corrosion** (*include Stress Corrosion Cracking*)

- The corrosion of Alloy 690 in high-temperature aqueous media – thermodynamic considerations, R.J. Lemire and G.A. McRae 294 (2001) 141

### **Diffusion**

- Fission gas release and volume diffusion enthalpy in  $\text{UO}_2$  irradiated at low and high burnup, J.P. Hiernaut and C. Ronchi 294 (2001) 39
- Migration behaviour of iodine in nuclear fuel, W.H. Hocking, R.A. Verrall and I.J. Muir 294 (2001) 45

### **Electrical Properties**

- Thermoelectric properties of Rh-doped  $\text{Ru}_2\text{Si}_3$  prepared by floating zone melting method, Y. Arita, S. Mitsuda, Y. Nishi, T. Matsui and T. Nagasaki 294 (2001) 202
- Thermoelectric properties of  $\text{URu}_2\text{Si}_2$  and  $\text{URu}_3\text{Si}_5$ , Y. Arita, K. Terao, S. Mitsuda, Y. Nishi, T. Matsui and T. Nagasaki 294 (2001) 206
- Boron isotope effects on the thermoelectric properties of  $\text{UB}_4$  at low temperatures, Y. Nishi, Y. Arita, K. Terao, T. Matsui and T. Nagasaki 294 (2001) 209

### **Experimental Techniques**

- High-temperature, Knudsen cell-mass spectroscopic studies on lanthanum oxide/uranium dioxide solid solutions, S. Sunder, R. McEachern and J.C. LeBlanc 294 (2001) 59
- Thermodynamic studies on  $\text{ThGa}_2$ , B. Prabhakara Reddy, R. Kandan, R. Babu, K. Nagarajan and P.R. Vasudeva Rao 294 (2001) 112

**Fast Reactors**

- An investigation of the Pu migration phenomena during irradiation in fast reactor, T. Ishii and T. Asaga 294 (2001) 13

**Fission Products**

- Thermochemical data and modelling for ex-vessel corium behaviour during a severe accident, E.H.P. Cordfunke, M.E. Huntelaar, F. Funke, M.K. Koch, Ch. Kortz, P.K. Mason, M.A. Mignanelli and M.S. Newland 294 (2001) 18

- A qualitative comparison of barium behaviour in the PHEBUS FPT0 test and analytical tests, R. Dubourg and P. Taylor 294 (2001) 32

- Migration behaviour of iodine in nuclear fuel, W.H. Hocking, R.A. Verrall and I.J. Muir 294 (2001) 45

- X-ray photoelectron spectroscopy on uranium oxides: a comparison between bulk and thin layers, S. Van den Berghe, F. Miserque, T. Gouder, B. Gaudreau and M. Verwerft 294 (2001) 168

**Fuels and Fuel Elements**

- Heat capacity measurements on unirradiated and irradiated fuel pellets, M. Amaya, K. Une and K. Minato 294 (2001) 1

- An investigation of the Pu migration phenomena during irradiation in fast reactor, T. Ishii and T. Asaga 294 (2001) 13

- Carbothermic synthesis of (Cm,Pu)N, M. Takano, A. Itoh, M. Akabori, T. Ogawa, M. Numata and H. Okamoto 294 (2001) 24

- Fission gas release and volume diffusion enthalpy in UO<sub>2</sub> irradiated at low and high burnup, J.P. Hiernaut and C. Ronchi 294 (2001) 39

- High-temperature, Knudsen cell-mass spectroscopic studies on lanthanum oxide/uranium dioxide solid solutions, S. Sunder, R. McEachern and J.C. LeBlanc 294 (2001) 59

- Vaporization chemistry of hypo-stoichiometric (U,Pu)O<sub>2</sub>, R. Viswanathan and M.V. Krishnaiah 294 (2001) 69

- Thermodynamics of (Mg,Ce,U)O<sub>2+x</sub> ( $x \geq 0$ ) solid solutions, T. Fujino, K. Park, N. Sato and M. Yamada 294 (2001) 104

**Gases (excludes Hydrogen, Helium and Tritium) in Materials**

- Fission gas release and volume diffusion enthalpy in UO<sub>2</sub> irradiated at low and high burnup, J.P. Hiernaut and C. Ronchi 294 (2001) 39

**Hydrogen and Hydrides (includes Deuterium and Deuterides)**

- Thermal properties of hydride fuel 45% U-ZrH<sub>1.6</sub>, K. Kakiuchi, N. Itagaki, T. Furuya, T. Hattori, Y. Nakazono, F. Ono, K. Yamaguchi and M. Yamawaki 294 (2001) 28

- Thermodynamic analysis of chemical states of fission products in uranium-zirconium hydride fuel, J. Huang, B. Tsuchiya, K. Konashi and M. Yamawaki 294 (2001) 154

**Impurities**

- Selected thermal properties of beryllium and phase equilibria in beryllium systems relevant for nuclear fusion reactor blankets, H. Kleykamp 294 (2001) 88

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

- Migration behaviour of iodine in nuclear fuel, W.H. Hocking, R.A. Verrall and I.J. Muir 294 (2001) 45

**Laser**

- Application of a new thermochemical measurement method for nuclear materials at temperatures beyond 3000 K, J.W. Hastie, D.W. Bonnell and P.K. Schenck 294 (2001) 175

**Liquid Metals**

- Thermodynamic study of liquid lithium-lead alloys using the EMF method, W. Gąsior and Z. Moser 294 (2001) 77

**Magnesium, Magnesium Alloys and Compounds**

- Thermodynamics of (Mg,Ce,U)O<sub>2+x</sub> ( $x \geq 0$ ) solid solutions, T. Fujino, K. Park, N. Sato and M. Yamada 294 (2001) 104

**Mechanical Properties (not listed elsewhere)**

- Thermophysical properties of BaUO<sub>3</sub>, S. Yamanaka, K. Kurosaki, T. Matsuda and M. Uno 294 (2001) 99

- Some properties of a lead vanado-iodapatite Pb<sub>10</sub>(VO<sub>4</sub>)<sub>6</sub>I<sub>2</sub>, M. Uno, M. Shinohara, K. Kurosaki and S. Yamanaka 294 (2001) 119

- Thermodynamic and mechanical properties of Ce<sub>1-x</sub>Hf<sub>x</sub>O<sub>2</sub> ( $x = 0-0.10$ ) solid solutions, N. Nakajima, H. Mitani, Y. Yamamura and T. Tsuji 294 (2001) 188

**Metals, Alloys and Compounds** (*not listed elsewhere*)

Thermodynamic study of liquid lithium-lead alloys using the EMF method, W. Gąsior and Z. Moser 294 (2001) 77

**Molybdenum, Molybdenum Alloys and Compounds**

Thermal properties of  $\text{Mo}_3\text{Te}_4$ , K. Kurosaki, A. Kosuga, M. Uno and S. Yamanaka 294 (2001) 179

**Nickel, Nickel Alloys and Compounds**

The corrosion of Alloy 690 in high-temperature aqueous media – thermodynamic considerations, R.J. Lemire and G.A. McRae 294 (2001) 141

**Phase Equilibria** (*includes Constitution, Phase Stability, Phase Instability*)

Thermochemical data and modelling for ex-vessel corium behaviour during a severe accident, E.H.P. Cordfunke, M.E. Huntelaar, F. Funke, M.K. Koch, Ch. Kortz, P.K. Mason, M.A. Mignanelli and M.S. Newland 294 (2001) 18

A qualitative comparison of barium behaviour in the PHEBUS FPT0 test and analytical tests, R. Dubourg and P. Taylor 294 (2001) 32

Selected thermal properties of beryllium and phase equilibria in beryllium systems relevant for nuclear fusion reactor blankets, H. Kleykamp 294 (2001) 88

Thermodynamic evaluation of the quaternary U–Pu–Zr–Fe system – assessment of cladding temperature limits of metallic fuel in a fast reactor, M. Kurata, K. Nakamura and T. Ogata 294 (2001) 123

Thermal expansion of  $(\text{Ca}_{1-x}\text{Pu}_x)\text{TiO}_3$ , T. Sato, Y. Hanajiri, T. Yamashita, T. Matsui and T. Nagasaki 294 (2001) 130

Thermodynamic analysis of chemical states of fission products in uranium–zirconium hydride fuel, J. Huang, B. Tsuchiya, K. Konashi and M. Yamawaki 294 (2001) 154

Thermal expansion and solubility limits of plutonium-doped lanthanum zirconates, S. Yamazaki, T. Yamashita, T. Matsui and T. Nagasaki 294 (2001) 183

Solubility limits and bulk thermal expansion of  $\text{ThO}_2:\text{M}^{n+}$  ( $\text{M}=\text{Y}^{3+}$ ,  $\text{Sr}^{2+}$  and  $\text{Ba}^{2+}$ ), A.K. Tyagi, M.D. Mathews and R. Ramachandran 294 (2001) 198

**Phase Transformation** (*includes Evaporation, Sublimation*)

Vaporization chemistry of hypo-stoichiometric  $(\text{U},\text{Pu})\text{O}_2$ , R. Viswanathan and M.V. Krishnaiah 294 (2001) 69

Application of a new thermochemical measurement method for nuclear materials at temperatures beyond 3000 K, J.W. Hastie, D.W. Bonnell and P.K. Schenck 294 (2001) 175

**Plutonium, Plutonium Alloys and Compounds**

Phase equilibria in the  $\text{UO}_2$ – $\text{PuO}_2$  system under a temperature gradient, H. Kleykamp 294 (2001) 8

Carbothermic synthesis of  $(\text{Cm},\text{Pu})\text{N}$ , M. Takano, A. Itoh, M. Akabori, T. Ogawa, M. Numata and H. Okamoto 294 (2001) 24

Vaporization chemistry of hypo-stoichiometric  $(\text{U},\text{Pu})\text{O}_2$ , R. Viswanathan and M.V. Krishnaiah 294 (2001) 69

Thermodynamic evaluation of the quaternary U–Pu–Zr–Fe system – assessment of cladding temperature limits of metallic fuel in a fast reactor, M. Kurata, K. Nakamura and T. Ogata 294 (2001) 123

Molecular dynamics study of mixed oxide fuel, K. Kurosaki, K. Yamada, M. Uno, S. Yamanaka, K. Yamamoto and T. Namekawa 294 (2001) 160

Thermal expansion and solubility limits of plutonium-doped lanthanum zirconates, S. Yamazaki, T. Yamashita, T. Matsui and T. Nagasaki 294 (2001) 183

**Radiation Effects: Atomic Defects**

Carbothermic synthesis of  $(\text{Cm},\text{Pu})\text{N}$ , M. Takano, A. Itoh, M. Akabori, T. Ogawa, M. Numata and H. Okamoto 294 (2001) 24

**Reprocessing**

Thermodynamic systematics of the formation of liquid alloys of f-elements with bismuth, H. Yamana, J. Sheng, K. Kawamoto and H. Moriyama 294 (2001) 53

Thermodynamic studies on  $\text{ThGa}_2$ , B. Prabhakara Reddy, R. Kandan, R. Babu, K. Nagarajan and P.R. Vasudeva Rao 294 (2001) 112

**Safety of Nuclear Reactors**

Thermochemical data and modelling for ex-vessel corium behaviour during a severe accident, E.H.P. Cordfunke, M.E. Huntelaar,

- F. Funke, M.K. Koch, Ch. Kortz, P.K. Mason, M.A. Mignanelli and M.S. Newland 294 (2001) 18
- A qualitative comparison of barium behaviour in the PHEBUS FPT0 test and analytical tests, R. Dubourg and P. Taylor 294 (2001) 32
- Mass spectrometric study of  $\text{UO}_2\text{-ZrO}_2$  pseudo-binary system, M. Baïchi, C. Chatillon, C. Guèneau and S. Chatain 294 (2001) 84
- The oxidation kinetics and the structure of the oxide film on Zircaloy before and after the kinetic transition, T. Arima, T. Masuzumi, H. Furuya, K. Idemitsu and Y. Inagaki 294 (2001) 148
- Semiconductors**
- X-ray photoelectron spectroscopy on uranium oxides: a comparison between bulk and thin layers, S. Van den Berghe, F. Miserque, T. Gouder, B. Gaudreau and M. Verwerft 294 (2001) 168
- Silicon and Silicon Compounds**
- Thermoelectric properties of Rh-doped  $\text{Ru}_2\text{Si}_3$  prepared by floating zone melting method, Y. Arita, S. Mitsuda, Y. Nishi, T. Matsui and T. Nagasaki 294 (2001) 202
- Thermoelectric properties of  $\text{URu}_2\text{Si}_2$  and  $\text{URu}_3\text{Si}_5$ , Y. Arita, K. Terao, S. Mitsuda, Y. Nishi, T. Matsui and T. Nagasaki 294 (2001) 206
- Surface Effects**
- X-ray photoelectron spectroscopy on uranium oxides: a comparison between bulk and thin layers, S. Van den Berghe, F. Miserque, T. Gouder, B. Gaudreau and M. Verwerft 294 (2001) 168
- Swelling**
- Thermodynamic analysis of chemical states of fission products in uranium-zirconium hydride fuel, J. Huang, B. Tsuchiya, K. Konashi and M. Yamawaki 294 (2001) 154
- Theory and Modelling**
- An investigation of the Pu migration phenomena during irradiation in fast reactor, T. Ishii and T. Asaga 294 (2001) 13
- Fission gas release and volume diffusion enthalpy in  $\text{UO}_2$  irradiated at low and high burnup, J.P. Hieraunaut and C. Ronchi 294 (2001) 39
- The modelling of fuel volatilisation in accident conditions, H. Manenc, P.K. Mason and M.P. Kissane 294 (2001) 64
- Thermodynamic Properties**
- Heat capacity measurements on unirradiated and irradiated fuel pellets, M. Amaya, K. Une and K. Minato 294 (2001) 1
- Phase equilibria in the  $\text{UO}_2\text{-PuO}_2$  system under a temperature gradient, H. Kleykamp 294 (2001) 8
- An investigation of the Pu migration phenomena during irradiation in fast reactor, T. Ishii and T. Asaga 294 (2001) 13
- Thermochemical data and modelling for ex-vessel corium behaviour during a severe accident, E.H.P. Cordfunke, M.E. Huntelaar, F. Funke, M.K. Koch, Ch. Kortz, P.K. Mason, M.A. Mignanelli and M.S. Newland 294 (2001) 18
- Thermodynamic systematics of the formation of liquid alloys of f-elements with bismuth, H. Yamana, J. Sheng, K. Kawamoto and H. Moriyama 294 (2001) 53
- High-temperature, Knudsen cell-mass spectroscopic studies on lanthanum oxide/uranium dioxide solid solutions, S. Sunder, R. McEachern and J.C. LeBlanc 294 (2001) 59
- Vaporization chemistry of hypo-stoichiometric  $(\text{U,Pu})\text{O}_2$ , R. Viswanathan and M.V. Krishnaiah 294 (2001) 69
- Thermodynamic study of liquid lithium-lead alloys using the EMF method, W. Gąsior and Z. Moser 294 (2001) 77
- Mass spectrometric study of  $\text{UO}_2\text{-ZrO}_2$  pseudo-binary system, M. Baïchi, C. Chatillon, C. Guèneau and S. Chatain 294 (2001) 84
- Selected thermal properties of beryllium and phase equilibria in beryllium systems relevant for nuclear fusion reactor blankets, H. Kleykamp 294 (2001) 88
- Thermal properties of zirconium hydride, S. Yamanaka, K. Yamada, K. Kurosaki, M. Uno, K. Takeda, H. Anada, T. Matsuda and S. Kobayashi 294 (2001) 94
- Thermodynamics of  $(\text{Mg,Ce,U})\text{O}_{2+x}$  ( $x \geq 0$ ) solid solutions, T. Fujino, K. Park, N. Sato and M. Yamada 294 (2001) 104
- Thermodynamic studies on  $\text{ThGa}_2$ , B. Prabhakara Reddy, R. Kandam, R. Babu, K. Nagarajan and P.R. Vasudeva Rao 294 (2001) 112
- Some properties of a lead vanado-iodoapatite  $\text{Pb}_{10}(\text{VO}_4)_6\text{I}_2$ , M. Uno, M. Shinohara, K. Kurosaki and S. Yamanaka 294 (2001) 119

- Enthalpy and heat capacity of  $(\text{Ca}_{1-x}\text{Pu}_x)\text{TiO}_3$  ( $x = 0$  and  $0.20$ ), T. Sato, S. Yamazaki, T. Yamashita, T. Matsui and T. Nagasaki 294 (2001) 135
- Thermodynamic analysis of chemical states of fission products in uranium-zirconium hydride fuel, J. Huang, B. Tsuchiya, K. Konashi and M. Yamawaki 294 (2001) 154
- Molecular dynamics study of mixed oxide fuel, K. Kurosaki, K. Yamada, M. Uno, S. Yamanaka, K. Yamamoto and T. Namekawa 294 (2001) 160
- Application of a new thermochemical measurement method for nuclear materials at temperatures beyond 3000 K, J.W. Hastie, D.W. Bonnell and P.K. Schenck 294 (2001) 175
- Thermodynamic and mechanical properties of  $\text{Ce}_{1-x}\text{Hf}_x\text{O}_2$  ( $x = 0-0.10$ ) solid solutions, N. Nakajima, H. Mitani, Y. Yamamura and T. Tsuji 294 (2001) 188
- Thermomechanical Treatment**
- The corrosion of Alloy 690 in high-temperature aqueous media – thermodynamic considerations, R.J. Lemire and G.A. McRae 294 (2001) 141
- Thermophysical Properties**
- Heat capacity measurements on unirradiated and irradiated fuel pellets, M. Amaya, K. Une and K. Minato 294 (2001) 1
- Thermal properties of hydride fuel 45% U-ZrH<sub>1.6</sub>, K. Kakiuchi, N. Itagaki, T. Furuya, T. Hattori, Y. Nakazono, F. Ono, K. Yamaguchi and M. Yamawaki 294 (2001) 28
- Thermal properties of zirconium hydride, S. Yamanaka, K. Yamada, K. Kurosaki, M. Uno, K. Takeda, H. Anada, T. Matsuda and S. Kobayashi 294 (2001) 94
- Thermophysical properties of BaUO<sub>3</sub>, S. Yamanaka, K. Kurosaki, T. Matsuda and M. Uno 294 (2001) 99
- Thermal properties of Mo<sub>3</sub>Te<sub>4</sub>, K. Kurosaki, A. Kosuga, M. Uno and S. Yamanaka 294 (2001) 179
- Thermal expansion and solubility limits of plutonium-doped lanthanum zirconates, S. Yamazaki, T. Yamashita, T. Matsui and T. Nagasaki 294 (2001) 183
- Thermodynamic and mechanical properties of  $\text{Ce}_{1-x}\text{Hf}_x\text{O}_2$  ( $x = 0-0.10$ ) solid solutions, N. Nakajima, H. Mitani, Y. Yamamura and T. Tsuji 294 (2001) 188
- Thermal conductivity of  $(\text{U,Ce})\text{O}_2$  with and without Nd or Zr, K. Kurosaki, R. Ohshima, M. Uno, S. Yamanaka, K. Yamamoto and T. Namekawa 294 (2001) 193
- Solubility limits and bulk thermal expansion of  $\text{ThO}_2:\text{M}^{n+}$  ( $\text{M}=\text{Y}^{3+}$ ,  $\text{Sr}^{2+}$  and  $\text{Ba}^{2+}$ ), A.K. Tyagi, M.D. Mathews and R. Ramachandran 294 (2001) 198
- Thorium, Thorium Alloys and Compounds**
- Solubility limits and bulk thermal expansion of  $\text{ThO}_2:\text{M}^{n+}$  ( $\text{M}=\text{Y}^{3+}$ ,  $\text{Sr}^{2+}$  and  $\text{Ba}^{2+}$ ), A.K. Tyagi, M.D. Mathews and R. Ramachandran 294 (2001) 198
- Uranium, Uranium Alloys and Compounds**
- Heat capacity measurements on unirradiated and irradiated fuel pellets, M. Amaya, K. Une and K. Minato 294 (2001) 1
- Phase equilibria in the  $\text{UO}_2\text{-PuO}_2$  system under a temperature gradient, H. Kleykamp 294 (2001) 8
- Thermal properties of hydride fuel 45% U-ZrH<sub>1.6</sub>, K. Kakiuchi, N. Itagaki, T. Furuya, T. Hattori, Y. Nakazono, F. Ono, K. Yamaguchi and M. Yamawaki 294 (2001) 28
- A qualitative comparison of barium behaviour in the PHEBUS FPT0 test and analytical tests, R. Dubourg and P. Taylor 294 (2001) 32
- High-temperature, Knudsen cell-mass spectroscopic studies on lanthanum oxide/uranium dioxide solid solutions, S. Sunder, R. McEachern and J.C. LeBlanc 294 (2001) 59
- The modelling of fuel volatilisation in accident conditions, H. Manenc, P.K. Mason and M.P. Kissane 294 (2001) 64
- Mass spectrometric study of  $\text{UO}_2\text{-ZrO}_2$  pseudo-binary system, M. Baïchi, C. Chatillon, C. Guèneau and S. Chatain 294 (2001) 84
- Thermophysical properties of BaUO<sub>3</sub>, S. Yamanaka, K. Kurosaki, T. Matsuda and M. Uno 294 (2001) 99
- Thermodynamics of  $(\text{Mg,Ce,U})\text{O}_{2+x}$  ( $x \geq 0$ ) solid solutions, T. Fujino, K. Park, N. Sato and M. Yamada 294 (2001) 104
- Molecular dynamics study of mixed oxide fuel, K. Kurosaki, K. Yamada, M. Uno, S. Yamanaka, K. Yamamoto and T. Namekawa 294 (2001) 160
- X-ray photoelectron spectroscopy on uranium oxides: a comparison

- between bulk and thin layers, S. Van den Berghe, F. Miserque, T. Gouder, B. Gaudreau and M. Verwerft 294 (2001) 168
- Thermal conductivity of (U,Ce)O<sub>2</sub> with and without Nd or Zr, K. Kurosaki, R. Ohshima, M. Uno, S. Yamanaka, K. Yamamoto and T. Namekawa 294 (2001) 193
- Thermoelectric properties of URu<sub>2</sub>Si<sub>2</sub> and U<sub>2</sub>Ru<sub>3</sub>Si<sub>5</sub>, Y. Arita, K. Terao, S. Mitsuda, Y. Nishi, T. Matsui and T. Nagasaki 294 (2001) 206
- Boron isotope effects on the thermoelectric properties of UB<sub>4</sub> at low temperatures, Y. Nishi, Y. Arita, K. Terao, T. Matsui and T. Nagasaki 294 (2001) 209
- Wastes**
- Some properties of a lead vanado-iodoapatite Pb<sub>10</sub>(VO<sub>4</sub>)<sub>6</sub>I<sub>2</sub>, M. Uno, M. Shinohara, K. Kurosaki and S. Yamanaka 294 (2001) 119
- Zirconium, Zirconium Alloys and Compounds**
- Thermal properties of hydride fuel 45% U-ZrH<sub>1.6</sub>, K. Kakiuchi, N. Itagaki, T. Furuya, T. Hattori, Y. Nakazono, F. Ono, K. Yamaguchi and M. Yamawaki 294 (2001) 28
- Mass spectrometric study of UO<sub>2</sub>-ZrO<sub>2</sub> pseudo-binary system, M. Baïchi, C. Chatillon, C. Guèneau and S. Chatain 294 (2001) 84
- Thermal properties of zirconium hydride, S. Yamanaka, K. Yamada, K. Kurosaki, M. Uno, K. Takeda, H. Anada, T. Matsuda and S. Kobayashi 294 (2001) 94
- The oxidation kinetics and the structure of the oxide film on Zircaloy before and after the kinetic transition, T. Arima, T. Masuzumi, H. Furuya, K. Idemitsu and Y. Inagaki 294 (2001) 148
- Application of a new thermochemical measurement method for nuclear materials at temperatures beyond 3000 K, J.W. Hastie, D.W. Bonnell and P.K. Schenck 294 (2001) 175
- Thermal expansion and solubility limits of plutonium-doped lanthanum zirconates, S. Yamazaki, T. Yamashita, T. Matsui and T. Nagasaki 294 (2001) 183