

## 2007 年度業績 — 掛下 知行

### 学術論文・解説記事

1. T. Fukuda, J-h. Kim and T. Kakeshita, Effect of magnetic field on martensitic transformation temperature in Ni<sub>2</sub>MnGa with single variant and multi-variant states, Materials Science Forum, 539-543, 3243-3248
2. T. Sakon, A. Takaha, K. Obara, K. Dejima, H. Nojiri, M. Motokawa, T. Fukuda and T. Kakeshita, Magnetic Field-Induced Strain of Shape-Memory Alloy Fe<sub>3</sub>Pt studied by a Capacitance Method in a Pulsed Magnetic Field, Jpn. J. Appl. Phys., 46, 146-151
3. J-h. Lee, T. Fukuda, T. Kakeshita and K. Kindo, Effects of Magnetic Field and Deformation on Isothermal Martensitic Transformation in SUS304 and SUS304L Steels, Mater. Trans., 48, 2833-2839
4. S. Farjami, M. Yuge, T. Fukuda, T. Terai, T. Kakeshita, Effect of Magnetic Field on g-a Transformation in Fe-Rh Alloys", Materials Transactions, 48, 2821-2825
5. Z. W. Ouyang, Y. H. Matsuda, H. Nojiri, T. Inami, K. Ohwada, M. Tsubota, T. Sakon, T. Fukuda and T. Kaneshita, Direct observation of field-induced variant transformation in Fe<sub>3</sub>Pt using pulsed magnetic field x-ray diffraction, J. Appl. Phys., 113917, 102
6. 福田隆、掛下知行, Ni-Mn-Ga 合金の双晶変形とマルテンサイト変態に及ぼす磁場、応力ならびに静水圧の影響, まてりあ, 46(3), 189-192
7. 福田隆、掛下知行, 強磁性形状記憶合金における巨大磁場誘起歪とその発生機構, まぐね, 2(5), 226-231

### 国際会議プロシーディングス

1. J-h. Lee, T. Fukuda, T. Kakeshita, Effect of Magneti Field on Isothermal martensitic Transformation in SUS304L Stainless Steel, Materials Science Forum, 561-565, 2333-2336
2. T. Yamamoto, M-S. Choi, S. Majima, T. Fukuda, T. Kakeshita, E. Taguchi and H. Mori, Relation Between Diffuse Scattering and Fermi Surface Nesting in Iron Doped Ti-Ni Alloys, Materials Science Forum, 561-565, 2337-2340

### 受賞

1. 保井基良, 学生ポスター賞 (日本磁気科学会), 2007 年 6 月 20 日