



## 査読付き論文

1. Z.H. Xiong, Y.F. Yang, K. Kondoh, R.D.K. Misra: A Novel W-Skeleton-Reinforced Al Matrix Composite by Consolidating a Newly Developed Core-Shell-Structured W-Coated Al Powder, METALLURGICAL AND MATERIALS TRANSACTIONS A 50A 7 (2019) 3301-3309.
2. A. Issariyapat, 近藤勝義, P. Visuttiptukul, T. Song, M. Qian, 梅田純子:窒素含有チタン粉末の特性と積層造形体における力学特性, スマートプロセス学会誌 8 3(2019)95-101.
3. A. Bahador, S. Kariya, J. Umeda, E. Hamzah, K. Kondoh:Tailoring Microstructure and Properties of a Superelastic Ti-Ta Alloy by Incorporating Spark Plasma Sintering with Thermomechanical Processing, Journal of Materials Engineering and Performance, (2019), DOI:10.1007/s11665-019-04061-8.
4. B. Chen, K. Kondoh, J. Umeda, S. Li, L. Jia, J. Li: Interfacial in-situ Al<sub>2</sub>O<sub>3</sub> nanoparticles enhance load transfer in carbon nanotube (CNT)-reinforced aluminum matrix composites, Journal of Alloys and Compounds, 789 (2019) 25-29, DOI:10.1016/j.jallcom.2019.03.063.
5. L. Jia, X. Li, K. Kondoh, B. Chen, S. Li, J. Umeda, Z. Lu: Hybrid effect of TiCp and TiBw co-strengthening Ti matrix composites prepared by spark plasma sintering and hot extrusion, Materials Characterization, 151 (2019) 6-14, DOI:10.1016/j.matchar.2019.02.026.
6. S. Kariya, M. Fukuo, J. Umeda, K. Kondoh: Quantitative analysis on light elements solution strengthening in pure titanium sintered materials by Labusch model using experimental data, Materials Transactions, 60 2 (2019) 263-268, DOI:10.2320/matertrans.Y-M2018849.
7. 枝知樹, A. Khantachawana, 梅田純子, 近藤勝義:Co 元素添加による Ti-Ni 超弾性焼結合金の力学特性制御, 粉体および粉末冶金, 66 1 (2019) 9-16, DOI:10.2497/jjspm.66.9.
8. Q. Guo, K. Kondoh, S. M. Han: Nanocarbon-reinforced metal-matrix composites for structural applications, MRS Bulletin, 44 (2019) 40-45, DOI:10.1557/mrs.2018.321.
9. J. Shen, J. Umeda B. Chen, J. Umeda, J. Zhang, Y.Li, K. Kondoh: Rate sensitivity and work-hardening behavior of an advanced Ti-Al-N alloy under uniaxial tensile loading, Materials Science & Engineering A, 744 28 (2019) 630-637, DOI:10.1016/j.msea.2018.12.066.
10. S.F. Li, Y.F. Yang, K. Kondoh, S. Kariya, Q.S. Zhu, Y. Shi: Activation of B as a sintering aid and its improved microstructure modification by using Ni-B coated Ti core-shell powder, Materialia 5 (2019) 100182, DOI: /10.1016/j.mtla.2018.100182.
11. 福生瑞希, 刈屋翔太, 梅田純子, 近藤勝義, 吉矢真人: 焼結過程での分解を利用したジルコニウムと酸素の複合固溶による工業用純チタン粉末押出材の強化機構, 粉体および粉末冶金, 65 12 (2018) 746-755, DOI:10.2497/jjspm.65.746.
12. 竹内彰吾, 畠山賢彦, 吉矢真人, 刈屋翔太, 梅田純子, 近藤勝義, 砂田聡:Fe 固溶強化チタン焼結材の電気化学特性, 粉体および粉末冶金, 65 12 (2018) 761-765, DOI: 10.2497/jjspm.65.761.
13. 上山健人, 刈屋翔太, 福生瑞希, 梅田純子, 近藤勝義:酸素固溶強化 Ti-6Al-4V 焼結合金の高延性発現機構の解明, 粉体および粉末冶金, 65 11 (2018) 699-706, DOI:10.2497/jjspm.65.699.
14. K. Kondoh, R. Ikemasu, J. Umeda, S. Kariya, A. Khantachawana: Microstructural and mechanical properties of α-titanium sintered material via thermal decomposition of additive chromium oxide particles, Materials Science & Engineering A, 739 (2019) 491-498, DOI:10.1016/j.msea.2018.10.081.
15. 刈屋翔太, 梅田純子, Ma Qian, 近藤勝義: 急冷処理による酸素過剰添加チタン材の延性向上とその機構解明, 金属学会誌, 82 10 (2018) 390-395, DOI: 10.2320/jinstmet.JAW201810.



16. M. Rizwan, M. Hamdi, W.J. Basirun, K. Kondoh, J. Umeda: Low pressure spark plasma sintered hydroxyapatite and Bioglass® composite scaffolds for bone tissue repair, *Ceramics International*, 44 (2018) 23052-23062, DOI:10.1016/j.ceramint.2018.09.108.
17. K. Boontawee, W. Pansuk, L. Tachai, K. Kondoh: Effect of Rice Husk Ash Silica as Cement Replacement for Making Construction Mortar, *Key Engineering Materials*, 775 (2018) 624-629, DOI: 10.4028/www.scientific.net/KEM.775.624.
18. 刈屋翔太, 福生瑞希, 梅田純子, 近藤勝義: 純チタン焼結材における軽元素固溶強化に関する実験データを用いた Labusch モデルによる定量解析, 粉体および粉末冶金, 65 7 (2018) 407-413, DOI:10.2497/jjspm.65.407.
19. X. Zhang, S. Li, B. Pan, D. Pan, S. Zhou, S. Yang, L. Jia, K. Kondoh: A novel strengthening effect of in-situ nano  $Al_2O_3$  on CNTs reinforced aluminum matrix nanocomposites and the matched strengthening mechanisms, *Journal of Alloys and Compounds*, 764 (2018) 279-288, DOI:10.1016/j.jallcom.2018.06.006.
20. H. Miyaji, S. Murakami, E. Nishida, T. Akasaka, B. Fugetsu, J. Umeda, K. Kondoh, T. Iizuka, T. Sugaya: Evaluation of Tissue Behavior on Three-dimensional Collagen Scaffold Coated with Carbon Nanotubes and  $\beta$ -tricalcium Phosphate Nanoparticles, *Journal of Oral Tissue Engineering*, 15 3 (2018) 123-130, DOI:10.11223/jarde.15.123.
21. A. Bahador, E. Hamzah, K. Kondoh, S. Tsutsumi, J. Umeda, T. A. A. Bakar, F. Yusof: Heat-Conduction-Type and Keyhole-Type Laser Welding of Ti-Ni Shape-Memory Alloys Processed by Spark-Plasma Sintering, *Materials Transactions*, 59 5 (2018) 835-842, DOI:10.2320/matertrans.M2017387.
22. R. Soba, Y. Tanabe, T. Yonezawa, J. Umeda and K. Kondoh: Effect of Shape Memory Heat Treatment on Microstructures and Mechanical Properties of Powder Metallurgy TiNi Shape Memory Alloy, *Materials Transactions*, 59 5 (2018) 805-810, DOI:10.2320/matertrans.Y-M2018810.
23. L.Jia, J. Chen, Z. Lu, S. Li, J. Umeda, K. Kondoh : Preparation of Si and O co-solution strengthened Ti alloys by using rice husks as  $SiO_2$  resource and quantitative descriptions on their strengthening effects, *Materials Research Express* 5 (2018) 046524, DOI:10.1088/2053-1591/aabbde.
24. B. Chen, J. Umeda, K. Kondoh: Study on Aluminum Matrix Composites Reinforced with Singly Dispersed Carbon Nanotubes, 粉体および粉末冶金, 65 3 (2018) 139-144, DOI:10.2497/jjspm.65.139.
25. 氷見太, 川人洋介, 水谷正海, 井上裕滋, 近藤勝義: 高出力・高輝度レーザを用いたステンレス鋼の水中レーザ貫通溶接特性, 溶接学会論文集, 36 1 (2018) 122-128, DOI:10.2207/qjjws.36.122.
26. J. Shen, B. Chen, J. Umeda, K. Kondoh: Advanced Mechanical Properties of a Powder Metallurgy Ti-Al-N Alloy Doped with Ultrahigh Nitrogen Concentration, *JOM*, 70 5 (2018) 626-631, DOI:10.1007/s11837-018-2780-9.
27. B. Chen, S. K. Moon, X. Yao, G. Bi, J. Shen, J. Umeda, K. Kondoh: Comparison Study on Additive Manufacturing (AM) and Powder Metallurgy (PM)  $AlSi_{10}Mg$  Alloys, *JOM*, 70 5 (2018) 644-649, DOI:10.1007/s11837-018-2793-4.
28. 早場亮一, 田邊由紀子, 米澤隆行, 梅田純子, 近藤勝義: TiNi 形状記憶粉末合金の組織および力学的特性に及ぼす形状記憶熱処理の影響, 粉体および粉末冶金, 65 2 (2018) 85-90, DOI:10.2497/jjspm.65.85.
29. D. Pan, S. Li, X. Zhang, B. Pan, S. Zhou, Y. Fu, K. Kondoh: Effect of Graphite Content on Properties of  $B_4C-W_2B_5$  Ceramic composites by In-situ Reaction of B-Gr-WC, *Journal of the American Ceramic Society* (2018) 3617-3626, DOI:10.1111/jace.15474.
30. R. Soba, Y. Tanabe, T. Yonezawa, J. Umeda, K. Kondoh: Microstructures and Mechanical Properties of Shape Memory Alloy Using Pre-Mixed TiNi Powders with  $TiO_2$  Particles, *Materials Transactions*, 59 1 (2018) 117-122, DOI:10.2320/matertrans.Y-M2017848.



31. Y. Yamabe, J. Umeda, H. Imai, K. Kondoh: Tribological Property of  $\alpha$ - Pure Titanium Strengthened by Nitrogen Solid-Solution, *Materials Transactions*, 59 1 (2018) 61-65, DOI:10.2320/matertrans.Y-M2017842.
32. J. Shen, B. Chen, J. Umeda, K. Kondoh: Microstructure and mechanical properties of CP-Ti fabricated via powder metallurgy with non-uniformly dispersed impurity solutes, *Materials Science and Engineering A*, 716 (2018) 1-10, DOI:10.1016/j.msea.2018.01.031.
33. J. Umeda, T. Mimoto, H. Imai, K. Kondoh: Powder Forming Process from Machined Titanium Chips via Heat Treatment in Hydrogen Atmosphere, *Materials Transactions*, 58 12 (2017) 1702-1707, DOI:10.2320/matertrans.Y-M2017833.
34. X. Zhang, S. Li, D. Pan, B. Pan, K. Kondoh: Microstructure and synergistic-strengthening efficiency of CNTs-SiC<sub>p</sub> dual-nano reinforcements in aluminum matrix composites, *Composites Part A Applied Science and Manufacturing*, 105 (2018) 87-96, DOI:10.1016/j.compositesa.2017.11.013.
35. 早場亮一, 田邊由紀子, 米澤隆行, 梅田純子, 近藤勝義: TiO<sub>2</sub> 粒子添加 TiNi 混合素粉末焼結材の組織構造と力学特性, *粉体および粉末冶金*, 64 11 (2017) 589-594, DOI:10.2497/jjspm.64.589.
36. K. Kondoh, J. Umeda: C-O bond enhancing direct bonding strength between plastic and pure titanium, *Materials Letters*, 211 (2018) 331-334, DOI:10.1016/j.matlet.2017.10.042.
37. B. Chen, J. Shen, X. Ye, J. Umeda, K. Kondoh: Advanced mechanical properties of powder metallurgy commercially pure titanium with a high oxygen concentration, *Journal of Material Research*, 32 19 (2017) 3769-3776, DOI:10.1557/jmr.2017.338.
38. A. Azarniya, M. S. Safavi, S. Sovizi, A. Azarniya, B. Chen, H. R. M. Hosseini, S. Ramakrishna: Metallurgical Challenges in Carbon Nanotube-Reinforced Metal Matrix Nanocomposites, *Metals*, 7 10 (2017) 1-44, DOI:10.3390/met7100384.
39. 藤田淳司, 梅田純子, 近藤勝義: 酸化物分散マグネシウム複合焼結材の高温での強化機構解明, *粉体および粉末冶金*, 64 9 (2017) 479-485, DOI:10.2497/jjspm.64.479.
40. B. Chen, J. Shen, X. Ye, L. Jia, S. Li, J. Umeda, M. Takahashi, K. Kondoh: Length effect of carbon nanotubes on the strengthening mechanisms in metal matrix composites, *Acta Materialia*, 140 (2017) 317-325, DOI:10.1016/j.actamat.2017.08.048.
41. 森脇慶幸, 周藤将司, 梅田純子, 道浦吉貞: バイオシリカのコンクリート混和材としての利用に関する研究, *コンクリート工学年次論文*, 37 1 (2017) 145-150.
42. P. Khemglad, J. Kajornchaiyakul, K. Kondoh, A. Khantachawana: Effect of Si Content on Mechanical Properties of Ti-Si-N Ternary Alloys Prepared by Spark Plasma Sintering, *Key Engineering Materials*, 751 (2017) 14-18, DOI: 10.4028/www.scientific.net/KEM.751.14.
43. 麻寧緒, A. Elsayed, 近藤勝義: マグネシウム粉末焼結押出合金における異方性塑性硬化特性の実験測定と変形挙動の解析, *塑性と加工*, 58, 678, (2017), 587-592, DOI:10.9773/sosei.58.587.
44. B. Chen, S.K. Moon, X. Yao, G. Bi, J. Shen, J. Umeda, K. Kondoh: Strength and Strain Hardening of a Selective Laser Melted AlSi10Mg Alloy, *Scripta Materialia*, 141 (2017) 45-49, DOI:10.1016/j.scriptamat.2017.07.025.
45. 近藤勝義, 池増竜帆, 梅田純子, 刈屋翔太, A. Khantachawan: 酸化物粒子の熱分解を利用したチタン焼結材の結晶粒微細化と高強度化(第2報), *チタン*, 65 3 (2017) 114-119.
46. J. Fujita, J. Umeda, K. Kondoh: Synthesis of Al<sub>2</sub>Ca Dispersoids by Powder Metallurgy Using a Mg-Al Alloy and CaO Particles, *Materials*, 10 7 (2017) 716, DOI:10.3390/ma10070716.



47. 山辺康宏, 梅田純子, 近藤勝義: 窒素固溶強化純チタン焼結材の摩擦摺動特性, 粉体および粉末冶金, 64 6 (2017) 275-280, DOI:10.2497/jjspm.64.275.
48. H. Imai, H. Yamabe, K. Kondoh, J. Umeda, A. Khantachawana: In Situ Decomposition of Silicon Nitride Particles in Titanium Composite and its Mechanical Properties, Key Engineering Materials, 737 (2017) 38-43, DOI:10.4028/www.scientific.net/KEM.737.38.
49. A. Bahador, E. Hamzah, K. Kondoh, Y. Kawahito, J. Umeda, T. A. A. Bakar: Mechanical and superelastic properties of laser welded Ti-Ni shape-memory alloys produced by powder metallurgy, Journal of Materials Processing Technology, 248 (2017) 198-206, DOI:10.1016/j.jmatprotec.2017.05.019.
50. A. Bahador, E. Hamzah, K. Kondoh T. Abubakar, F. Yusof, S. N. Saud, M. K. Ibrahim, M.A. Ezazi: Defocusing Effects of Laser Beam on the Weldability of Powder Metallurgy Ti-Based Shape Memory Alloys, Procedia Engineering, 184 (2017) 205-213, DOI:10.1016/j.proeng.2017.04.087.
51. 近藤勝義, 池増竜帆, 梅田純子, 刈屋翔太, A. Khantachawan: 酸化物粒子の熱分解を利用したチタン焼結材の結晶粒微細化と高強度化(第1報), チタン, 65 2 (2017) 130-137.
52. X.X. Ye, B. Chen, J.H. Shen, J. Umeda, K. Kondoh: Microstructure and strengthening mechanism of ultrastrong and ductile Ti-xSn alloy processed by powder metallurgy, Journal of Alloys and Compounds, 709 (2017) 381-393, DOI:10.1016/j.jallcom.2017.03.171.
53. A. Bahador, E. Hamzah, K. Kondoh, T. A. A. Bakar, F. Yusof, H. Imai, S. N. Saud, M. K. Ibrahim: Effect of deformation on the microstructure, transformation temperature and superelasticity of Ti-23 at% Nb shape-memory alloys, Materials and Design, 118 (2017) 152-162.
54. Y. F. Yang, H. Imai, K. Kondoh, M. Qian: Enhanced Homogenization of Vanadium in Spark Plasma Sintering of Ti-10V-2Fe-3Al Alloy from Titanium and V-Fe-Al Master Alloy Powder Blends, JOM, 69 4 (2017) 663-668, DOI:10.1007/s11837-017-2271-4.
55. B. Chen, H. Imai, J. Umeda, M. Takahashi, K. Kondoh: Effect of Spark-Plasma-Sintering Conditions on Tensile Properties of Aluminum Matrix Composites Reinforced with Multiwalled Carbon Nanotubes (MWCNTs), JOM, 69 4 (2017) 669-675, DOI:10.1007/s11837-017-2263-4.
56. J. Shen, X. Chen, V. Hammond, L.J. Kecskes, S.N. Mathaudhu, K. Kondoh, Q. Wei: The effect of rolling on the microstructure and compression behavior of AA5083 subjected to large-scale ECAE, Journal of Alloys and Compounds, 695 (2017) 3589-3597, DOI:10.1016/j.jallcom.2016.11.406.
57. B. Chen, J. Shen, X. Ye, H. Imai, J. Umeda, M. Takahashi, K. Kondoh: Solid-state interfacial reaction and load transfer efficiency in carbon nanotubes (CNTs)-reinforced aluminum matrix composites, Carbon, 114 (2017) 198-208, DOI:10.1016/j.carbon.2016.12.013.
58. X.X. Ye, H. Imai, J.H. Shen, B. Chen, G.Q. Han, J. Umeda, M. Takahashi, K. Kondoh: Dynamic recrystallization behavior and strengthening-toughening effects in a near- $\alpha$  Ti-xSi alloy processed by hot extrusion, Materials Science & Engineering A, 684 (2017) 165-177, DOI:10.1016/j.msea.2016.12.054.
59. J. Shen, B. Chen, X. Ye, H. Imai, J. Umeda, K. Kondoh: The formation of bimodal multilayered grain structure and its effect on the mechanical properties of powder metallurgy pure titanium, Materials and Design, 116 (2017) 99-108, DOI:10.1016/j.matdes.2016.12.004.
60. X.X. Ye, H. Imai, J.H. Shen, B. Chen, G.Q. Han, J. Umeda, K. Kondoh: Study of twinning behavior of powder metallurgy Ti-Si alloy by interrupted in-situ tensile tests, Materials Science & Engineering A, 679 (2017) 543-553, DOI:10.1016/j.msea.2016.10.070.





61. X.X. Ye, H. Imai, J.H. Shen, B. Chen, G.Q. Han, J. Umeda, M. Takahashi, K. Kondoh: Strengthening-toughening mechanism study of powder metallurgy Ti-Si alloy by interrupted in-situ tensile tests, *Journal of Alloys and Compounds* 694 (2017) 82-92, DOI:10.1016/j.jallcom.2016.09.319.
62. 梅田純子, 藤井寛子, 近藤勝義: 焼成粉殻中の脆性炭化物を利用した非晶質シリカ微粒子の生成プロセス, *スマートプロセス学会誌*, 5 6 (2016) 365-372.
63. 今井久志, 近藤勝義, 梅田純子: カーボンナノチューブ分散純銅基複合材料の組織変化と力学特性, *粉体および粉末冶金*, 63 12 (2016) 1015-1020, DOI:10.2497/jjspm.63.1015.
64. 梅田純子, 三本嵩哲, 今井久志, 近藤勝義: 水素熱処理を利用したチタン切削屑の粉体化プロセス, *粉体および粉末冶金*, 63 12 (2016) 1002-1008, DOI:10.2497/jjspm.63.1002.
65. J. Shen, H. Imai, B. Chen, X. Ye, J. Umeda, K. KONDOH: Highly Thermally Stable Microstructure in Mg Fabricated Via Powder Rolling, *JOM*, 68 12 (2016) 1-6, DOI:10.1007/s11837-016-2209-2.
66. S. Li, H. Imai, J. Umeda, Y. Fu, K. Kondoh: Investigation of High-strength Lead-free Machinable Cu40Zn Duplex Graphite Brasses by Powder Metallurgy, *Materials Science and Technology*, 32 17 (2016) 1751-1756, DOI:10.1080/02670836.2016.1246098.
67. P. Pripanapong, J. Umeda, H. Imai, M. Takahashi, K. Kondoh: Bonding mechanism of Ti/AZ80 dissimilar materials fabricated by spark plasma sintering, *Journal of Multidisciplinary Engineering Science Studies*, 2 10 (2016) 1009-1013.
68. H. Imai, K.Y. Chen, K. Kondoh, J. Umeda, H.Y. Tsai: Effect of Reaction between Alloying Element and VGCFs on Mechanical and Electrical Properties of PM Copper Alloy Composites Dispersed with VGCFs, *Materials Transactions*, 57 10 (2016) 1784-1788, DOI:10.2320/matertrans.Y-M201682.
69. B. Chen and K. Kondoh: Sintering Behaviors of Carbon Nanotubes—Aluminum Composite Powders, *Metals*, 6(9) 213 (2016), DOI:10.3390/met6090213.
70. K. Kondoh, T. Oguri, J. Umeda, H. Imai: Anisotropy Of Texture-controlled Powder Metallurgy Magnesium Alloys Via Roll-compaction Process, *Journal of Multidisciplinary Engineering Science Studies*, 2 8 (2016) 810-814.
71. T. Threrujirapong, K. Kondoh, J. Umeda: Tribological Behavior of Powder Metallurgy Ti Composites Reinforced With Multi-wall Carbon Nanotubes, *Journal of Multidisciplinary Engineering Science Studies*, 2 8 (2016) 822-826.
72. P. Pripanapong, S. Kariya, T. Luangvaranunt, J. Umeda, S. Tsutsumi, M. Takahashi, K. Kondoh: Corrosion behavior and strength of dissimilar bonding material between Ti and Mg alloys by spark plasma sintering, *Materials*, 9(8) 665 (2016), DOI:10.3390/ma9080665.
73. P. Pripanapong, J. Umeda, H. Imai, M. Takahashi, K. Kondoh: Tensile Strength of Ti/Mg Alloys Dissimilar Bonding Material Fabricated by Spark Plasma Sintering, *International Journal of Engineering Innovation & Research*, 5 4 (2016) 253-259.
74. P. Pripanapong, S. Li, J. Umeda, K. Kondoh: Effect of Textures on Tensile Properties of Extruded Ti64/VGCF Composite by Powder Metallurgy Route, *Mechanics, Materials Science & Engineering*, 5 1(2016), DOI:10.13140/RG.2.1.1120.1525.
75. L. Jia, X. Wang, B. Chen, H. Imai, S. Li, Z. Lu, K. Kondoh: Microstructural evolution and competitive reaction behavior of Ti-B<sub>4</sub>C system under solid-state sintering, *Journal of Alloys and Compounds*, 687 (2016) 1004-1011.



76. B. Chen, K. Kondoh, H. Imai, J. Umeda: Effect of initial state on dispersion evolution of carbon nanotubes in aluminium matrix composites during a high-energy ball milling process, *Powder Metallurgy*, 59 3 (2016) 216-222.
77. T. Mimoto, J. Umeda, K. Kondoh: Strengthening behaviour and mechanisms of extruded powder metallurgy pure Ti materials reinforced with ubiquitous light elements, *Powder Metallurgy*, 59 3 (2016) 223-228.
78. G. Han, J. Shen, X. Ye, B. Chen, H. Imai, K. Kondoh, W. Du: The influence of CNTs on the microstructure and ductility of CNT/Mg composites, *Materials Letters*, 181 (2016) 300-304.
79. J. Umeda, N. Nakanishi, K. Kondoh, H. Imai: Surface potential analysis on initial galvanic corrosion of Ti/Mg-Al dissimilar material, *Materials Chemistry and Physics*, 179 (2016) 5-9.
80. J. Shen, V. Gärtnerová, L. J. Kecskes, K. Kondoh, A. Jäger, Q. Wei: Residual stress and its effect on the mechanical properties of Y-doped Mg alloy fabricated via back-pressure assisted equal channel angular pressing (ECAP-BP), *Materials Science & Engineering A*, 669 (2016) 110-117.
81. 今井久志, 陳冠宇, 近藤勝義, 梅田純子, 蔡宏營: 添加元素と VGCF の反応が VGCF 分散銅基複合粉末材料の力学および電気特性に与える影響, *粉体および粉末冶金*, 63 4 (2016) 150-156, DOI: 10.2497/jjspm.63.150.
82. N. A. Jamal, A. W. Tan, Y. Farazila, K. Kondoh, H. Imai, S. Ramesh, A. Hazleen: Fabrication and compressive properties of low to medium porosity closed-cell porous Aluminum using PMMA space holder technique, *Materials* 9(4) 254 (2016), DOI:10.3390/ma9040254.
83. J. Shen, H. Imai, B. Chen, X. Ye, J. Umeda, K. Kondoh: Deformation mechanisms of pure Mg materials fabricated by using pre-rolled powders, *Materials Science & Engineering A*, 658 (2016) 309-320.
84. S. Sunada, A. Takagi, M. Hatakeyama, J. Umeda, S. Li, K. Kondoh: Corrosion Resistant Evaluation of Oxygen Solid-Solution Strengthened Pure Titanium, *Chiang Mai Journal of Science*, 43 (2016) 381-392.
85. S. Li, K. Kondoh, H. Imai, B. Chen, L. Jia, J. Umeda, Y. Fu: Strengthening behavior of in situ-synthesized (TiC-TiB)/Ti composites by powder metallurgy and hot extrusion, *Materials and Design*, 95 (2016) 127-132.
86. B. Chen, K. Kondoh, H. Imai, J. Umeda, M. Takahashi: Simultaneously enhancing strength and ductility of carbon nanotube/aluminum composites by improving bonding conditions, *Scripta Materialia*, 113 (2016) 158-162.
87. J. Shen, K. Kondoh, T. L. Jones, S. N. Mathaudhu, L. J. Kecskes, Q. Wei: Effect of strain rate on the mechanical properties of magnesium alloy AMX602, *Materials Science & Engineering A*, 649 (2016) 338-348.
88. P. Pripanapong, T. Mimoto, J. Umeda, H. Imai, K. Kondoh: Effect of vapor grown carbon fiber content on microstructure and tensile properties of Ti64/TiC composite fabricated by powder metallurgy method, *Journal of Composite Material*, 50(24) (2015) 3405-3414.
89. B. Chen, H. Imai, S. Li, L. Jia, J. Umeda, K. Kondoh: Crack Formation in Powder Metallurgy Carbon Nanotube (CNT)/Al Composites During Post Heat-Treatment, *JOM*, 67 12 (2015) 2887-2891.
90. J. Umeda, B. Fugetsu, E. Nishida, H. Miyaji, K. Kondoh: Friction behavior of network-structured CNT coating on pure titanium plate, *Applied Surface Science*, 357 (2015) 721-727.
91. E. Nishida, H. Miyaji, J. Umeda, K. Kondoh, H. Takita, I. Kanayama, S. Tanaka, A. Kato, B. Fugetsu, T. Akasaka, M. Kawanami: Biological Response to Nanostructure of Carbon Nanotube/titanium Composite Surfaces, *Nano Biomedicine*, 7(1) (2015) 11-20.



92. H. Imai, K. Chen, K. Kondoh, H. Tsai: Effect of alloying elements on mechanical properties and electrical conductivity of P/M copper alloys dispersed with vapor-grown carbon fiber, *Ceramic Transactions*, 252 (2015) 383-392.
93. B. Chen, S. Li, H. Imai, L. Jia, J. Umeda, M. Takahashi, K. Kondoh: Carbon nanotube induced microstructural characteristics in powder metallurgy Al matrix composites and their effects on mechanical and conductive properties, *Journal of Alloys and Compounds*, 651 (2015) 608-615.
94. 刈屋翔太, 梅田純子, 今井久志, 宇野澤晴生, Manuel MARYA, 近藤勝義: Fe/SiC 粒子分散 Mg 粉末合金の力学特性と腐食挙動, *粉体および粉末冶金*, 62 9 (2015) 1-6, DOI:10.2497/jjspm.62.462.
95. T. Mimoto, J. Umeda, K. Kondoh: Titanium Powders via Gas-Solid Direct Reaction Process and Mechanical Properties of Their Extruded Materials, *Materials Transactions*, 56 8 (2015) 1153-1158.
96. H. Imai, K. Chen, K. Kondoh, H. Tsai, J. Umeda: Effect of Chromium Behavior on Mechanical and Electrical Properties of P/M Copper-Chromium Alloy Dispersed with VGCF, *International Journal of Chemical, Nuclear, Materials and Metallurgical Engineering*, 9 7 (2015) 755-758.
97. B. Chen, S. Li, H. Imai, L. Jia, J. Umeda, M. Takahashi, K. Kondoh: Load transfer strengthening in carbon nanotubes reinforced metal matrix composites via in-situ tensile tests, *Composites Science and Technology*, 113 (2015) 1-8.
98. Y. Sun, H. Fujii, H. Imai, K. Kondoh: Suppression of hydrogen-induced damage in friction stir welded low carbon steel joints, *Corrosion Science*, 94 (2015) 88-98.
99. S. Yamamoto, T. Okuaki, M. Egashira, K. Kondoh, C. Masuda: Evaluation of temperature distribution in steel balls induced by friction generated during tribotest against diamond like carbon coatings, *Tribology*, 9 1 (2015) 33-40.
100. B. Chen, S. Li, H. Imai, L. Jia, J. Umeda, M. Takahashi, K. Kondoh: An approach for homogeneous carbon nanotube dispersion in Al matrix composites, *Materials and Design*, 72 (2015) 1-8.
101. S. Li, K. Kondoh, H. Imai, B. Chen, L. Jia, J. Umeda: Microstructure and mechanical properties of P/M titanium matrix composites reinforced by in-situ synthesized TiC-TiB, *Materials Science & Engineering A*, 628 (2015) 75-83.
102. L. Jia, K. Kondoh, H. Imai, M. Onishi, B. Chen, S. Li: Nano-scale AlN powders and AlN/Al composites by full and partial direct nitridation of aluminum in solid-state, *Journal of Alloys and Compounds* 629 (2015) 184-187.
103. J. Shen, W. Yin, K. Kondoh, T. Jones, L. J. Kecskes, S. N. Yarmolenko, Q. Wei: Mechanical behavior of alanthanum-doped magnesium alloy at different strain rates, *Materials Science & Engineering A*, 626 (2015) 108-121.
104. L. Jia, B. Chen, S. Li, H. Imai, K. Kondoh: Pinning Effect of In-Situ TiCp and TiBw on the Grain Size and Room Temperature Strength of (TiC + TiB)/Ti Composites, *KONA Powder and Particle Journal*, 32 (2015) 264-269.
105. B. Chen, S. Li, H. Imai, J. Umeda, M. Takahashi, K. Kondoh: Inter-Wall Bridging Induced Peeling of Multi-Walled Carbon Nanotubes during Tensile Failure in Aluminum Matrix Composites, *Micron*, 69 (2015) 1-5.
106. 近藤勝義, 米澤隆行, 梅田純子, 今井久志, 早場亮一: 粉末冶金法による非鉄系金属材料の高次機能化に関する研究 - TiNi系形状記憶焼結材における強度・形状回復率の向上を目指して -, *粉体および粉末冶金*, 61 11 (2014) 501-513, DOI:10.2497/jjspm.61.501.
107. 梅田純子, 高田龍一, 道浦吉貞, 近藤勝義: 農作物非食部バイオマスから高純度非晶質シリカの抽出プロセスとコンクリート用混和材としての利活用, *スマートプロセス学会誌*, 3 5 (2014) 317-321.



108. K. Kondoh, B. Sun, S. Li, H. Imai, J. Umeda: Experimental and Theoretical Analysis of Nitrogen Solid-Solution Strengthening of PM Titanium, *International Journal of Powder Metallurgy*, 50 3 (2014) 35-40.
109. B. Chen, L. Jia, S. Li, H. Imai, M. Takahashi, K. Kondoh: In Situ Synthesized  $Al_4C_3$  Nanorods with Excellent Strengthening Effect in Aluminum Matrix Composites, *Advanced Engineering Materials*, 16 8 (2014) 972-975.
110. L. Jia, S. Li, H. Imai, B. Chen, K. Kondoh: Size effect of  $B_4C$  powders on metallurgical reaction and resulting tensile properties of Ti matrix composites by in-situ reaction from Ti- $B_4C$  system under a relatively low temperature, *Materials Science & Engineering A*, 614 (2014) 129-135.
111. L. Jia, B. Chen, S. Li, H. Imai, M. Takahashi, K. Kondoh: Stability of strengthening effect of in situ formed TiCp and TiBw on the elevated temperature strength of (TiCp+TiBw)/Ti composites, *Journal of Alloys and Compounds*, 614 (2014) 29-34.
112. S. Yamamoto, M. Egashira, K. Kondoh, C. Masuda: Evaluation of the Wear Energy Consumption of Nitrogenated Diamond-Like Carbon against Alumina, *Tribology Letter*, (2014), DOI:10.1007/s11249-014-0357-5.
113. T. Yonezawa, T. Yoshimura, J. Umeda, K. Kondoh and R. Souba: Microstructures and Mechanical Properties of Sintered and Extruded TiNi Shape-Memory Alloys Using Prealloyed Powder with Additions of  $TiO_2$ , *International Journal of Powder Metallurgy*, 50 1 (2014) 33-39.
114. Y.F. Yang, H. Imai, K. Kondoh and M. Qian: Comparison of Spark Plasma Sintering of Elemental and Master Alloy Powder Mixes and Prealloyed Ti-6Al-4V Powder, *International Journal of Powder Metallurgy*, 50 1 (2014) 41-47.
115. H. Imai, S. Li, K. Kondoh, Y. Kosaka, T. Okada, K. Yamamoto, M. Takahashi, J. Umeda: Microstructure and Mechanical Properties of Cu-40%Zn-0.5%Cr Alloy by Powder Metallurgy, *Materials Transactions*, 55 3 (2014) 528-533.
116. H. Imai, K. Kondoh, S. Li, J. Umeda, B. Fugetsu, M. Takahashi: Microstructural and Electrical Properties of Copper-titanium Alloy Dispersed with Carbon Nanotubes via Powder Metallurgy Process, *Materials Transactions*, 55 3 (2014) 522-527.
117. K. Kondoh, H. Fukuda, J. Umeda, H. Imai, B. Fugetsu: Microstructural and mechanical behavior of MWCNTs reinforced Al-Mg-Si alloy composites in aging treatment, *Carbon*, 72 (2014) 15-21.
118. H. Imai, H. Atsumi, S. Li, K. Kondoh: Characteristics of Lead-free Machinable Brass of Powder Metallurgy Cu-40 mass% Zn /1.0 mass% Mg with Graphite Particles, *Applied Mechanics and Materials*, 481 (2014) 79-85.
119. 米澤隆行, 今井久志, 梅田純子, 近藤勝義, 早場亮一: Ni-rich TiNi 形状記憶粉末合金の組成・組織制御と高強度発現機構の解明, *日本機械学会論文集(A編)*, 79 808 (2013) 1695-1704, DOI: 10.1299/kikaia.79.1695.
120. S. Li, H. Imai, K. Kondoh: Microstructure, Phase Transformation, Precipitation Behavior and Mechanical Properties of P/M Cu40Zn-1.0 wt% Ti Brass Alloy via Spark Plasma Sintering and Hot Extrusion, *Journal of Materials Science & Technology*, 29 11 (2013) 1018-1024.
121. 今井久志, 李樹豊, 上坂美治, 近藤勝義: 完全鉛フリー・快削性高強度黄銅粉末合金に関する研究-高強度黄銅合金粉末押出材における添加元素の挙動と機械的特性-, *粉体および粉末冶金*, 60 11 (2013) 453-459, DOI:10.2497/jjspm.60.453.
122. 三本嵩哲, 李樹豊, 梅田純子, 近藤勝義: 水素によるチタン焼結押出材の高強度発現機構, *粉体および粉末冶金*, 60 11 (2013) 467-474, DOI:10.2497/jjspm.60.467.
123. K. Funatsu, H. Fukuda, R. Takei, J. Umeda, K. Kondoh: Quantitative evaluation of initial galvanic corrosion behavior of CNTs reinforced Mg-Al alloy, *Advanced Powder Technology*, 24 (2013) 833-837.





124. S. Li, B. Sun, H. Imai, K. Kondoh: Powder Metallurgy Ti-TiC Metal Matrix Composites Prepared by In-situ Reactive Processing of Ti-VGCFs System, *Carbon*, 61 (2013) 216-228.
125. S. Li, H. Imai, H. Atsumi, K. Kondoh: An investigation of microstructure and phase transformation behavior of Cu<sub>40</sub>Zn-1.0 wt.% Ti brass via powder metallurgy, *Journal of Materials Engineering and Performance*, 22 10 (2013) 3168-3174.
126. X. P. Li, M. Yan, H. Imai, K. Kondoh, G.B. Schaffer, M. Qian: The critical role of heating rate in enabling the removal of surface oxide films during spark plasma sintering of Al-based bulk metallic glass powder, *Journal of Non-Crystalline Solids*, 375 (2013) 95-98.
127. X. P. Li, M. Yan, H. Imai, K. Kondoh, J. Q. Wang, G. B. Schaffer, M. Qian: Fabrication of 10mm diameter fully dense Al<sub>86</sub>Ni<sub>6</sub>Y<sub>4.5</sub>Co<sub>2</sub>La<sub>1.5</sub> bulk metallic glass with high fracture strength, *Materials Science & Engineering A*, 568 (2013) 155-159.
128. X. Yang, E. Liu, C. Shi, C. He, J. Li, N. Zhao, K. Kondoh: Fabrication of carbon nanotube reinforced Al composites with well-balanced strength and ductility, *Journal of Alloys and Compounds*, 563 (2013) 216-220.
129. T. Jones, K. Kondoh, T. Mimoto, N. Nakanishi, J. Umeda: The Development of a Ti-6Al-4V Alloy via Oxygen Solid Solution Strengthening for Aerospace & Defense Applications, *Key Engineering Materials*, 551 (2013) 118-126.
130. S. Li, B. Sun, H. Imai, T. Mimoto, K. Kondoh: Powder metallurgy titanium metal matrix composites reinforced with carbon nanotubes and graphite, *Composites A*, 48 (2013) 57-66.
131. S. Li, B. Sun, K. Kondoh, T. Mimoto, H. Imai: Influence of carbon reinforcements on the mechanical properties of Ti composites via powder metallurgy and hot extrusion, *Materials Science Forum*, 750 (2013) 40-43.
132. J. Umeda, T. Mimoto, K. Kondoh, B. Fugetsu: Tribological Properties of Titanium Plate Coated with Carbon Nanotubes, *Key Engineering Materials*, 545 (2013) 158-162.
133. B. Sun, S. Li, H. Imai, T. Mimoto, J. Umeda, K. Kondoh: Fabrication of high-strength Ti materials by in-process solid solution strengthening of oxygen via P/M methods, *Materials Science and Engineering A*, 563 (2013) 95-100.
134. 今井久志, 李樹豊, 近藤勝義, 上坂美治, 岡田拓也, 山本浩士, 高橋基, 梅田純子: Cu-40%Zn-0.5%Cr粉末合金の組織および機械的性質に及ぼすCrの挙動, 粉体および粉末冶金, 59 11 (2012) 645-651, DOI:10.2497/jjspm.59.645.
135. 船津恵介, 梅田純子, 高橋誠, 近藤勝義: X線照射による励起場形成を利用した純マグネシウムの表面改質現象, スマートプロセス学会誌, 16 (2012) 293-297.
136. 孫斌, 李樹豊, 今井久志, 三本嵩哲, 梅田純子, 近藤勝義: 酸素固溶強化による高強度チタン粉末焼結材の創製, スマートプロセス学会誌, 16 (2012) 283-287.
137. 米澤隆行, 吉村知浩, 梅田純子, 近藤勝義, 早場亮: TiO<sub>2</sub>粒子を添加した高強度TiNi形状記憶粉末合金の組織構造と力学特性, スマートプロセス学会誌, 16 (2012) 288-292.
138. 今井久志, 近藤勝義, 李樹豊, 梅田純子, 古月文志, 高橋誠: 粉末冶金法を用いたカーボンナノチューブ分散 Cu-Ti合金の組織と機械的および電気的特性, 粉体および粉末冶金, 59 10 (2012) 609-615, DOI:10.2497/jjspm.59.609.
139. S. Li, H. Imai, K. Kondoh, A. Kojima, Y. Kosaka, K. Yamamoto, M. Takahashi: Dependence of microstructure and mechanical properties on hot-extrusion temperatures of the developed high-strength Cu<sub>40</sub>Zn-CrFeTiSn brass by powder metallurgy, *Materials Science & Engineering A*, 558 (2012) 616-622.



140. 船津恵介, 竹井怜, 梅田純子, 近藤勝義: Mg 合金中の微視的異材界面における表面電位差が初期ガルバニック腐食現象へ及ぼす影響, 日本機械学会論文集(A 編), 78 794 (2012) 1432-1445, DOI:10.1299/kikaia.78.1432.
141. H. Atsumi, H. Imai, S. Li, K. Kondoh, Y. Kousaka, A. Kojima: Microstructural and Mechanical Properties of the Extruded  $\alpha/\beta$  Duplex Phase Brass Cu-40Zn-Ti Alloy, *Ceramic Transactions*, 236 (2012) 41-46.
142. H. Atsumi, H. Imai, S. Li, K. Kondoh, Y. Kousaka, A. Kojima: The Characteristics of High Strength and Lead-Free Machinable  $\alpha/\beta$  Duplex Phase Brass Cu-40Zn-Cr-Fe-Sn-Bi Alloy, *Ceramic Transactions*, 236 (2012) 47-56.
143. H. Atsumi, H. Imai, S. Li, K. Kondoh, Y. Kousaka, A. Kojima: Fabrication and properties of high-strength extruded brass using elemental mixture of Cu-40% Zn alloy powder and Mg particle, *Materials Chemistry and Physics*, 135 (2012) 554-562.
144. S. Li, H. Imai, K. Kondoh, A. Kojima, Y. Kosaka, K. Yamamoto, M. Takahashi: Development of precipitation strengthened brass with Ti and Sn alloying elements additives by using water atomized powder via powder metallurgy route, *Materials Chemistry and Physics*, 135 (2012) 644-652.
145. K. Kondoh, T. Threrujirapong, S. Bin, H. Imai, S.F. Li, J. Umeda, B. Fugetsu: Multi-Walled Carbon Nanotubes Reinforced Titanium Composites via Powder Metallurgy Process, *Key Engineering Materials*, 520 (2012) 261-268.
146. J. Chen, H. Fujii, Y. Sun, Y. Morisada, K. Kondoh, K. Hashimoto: Effect of grain size on the microstructure and mechanical properties of friction stir welded non-combustive magnesium alloys, *Materials Science & Engineering A*, 549 (2012) 176-184.
147. K. Kondoh, T. Threrujirapong J. Umeda, B. Fugetsu: High-temperature properties of extruded titanium composites fabricated from carbon nanotubes coated titanium powder by spark plasma sintering and hot extrusion, *Composites Science and Technology*, 72 (2012) 1291-1297.
148. S. Li, H. Imai, H Atsumi, K. Kondoh, A. Kojima, Y. Kosaka, K. Yamamoto, M. Takahashi: The effects of Ti and Sn alloying elements on precipitation strengthened Cu40Zn brass using powder metallurgy and hot extrusion, *Materials Science & Engineering A*, 535 (2012) 22-31.
149. B. Sun, S. Li, H. Imai, J. Umeda, K. Kondoh: Synthesis kinetics of  $Mg_2Si$  and solid-state formation of Mg-Mg<sub>2</sub>Si composite, *Powder Technology*, 217 (2012) 157-162.
150. M. Wahba, Y. Kawahito, K. Kondoh, S. Katayama: A fundamental study of laser welding of hot extruded powder metallurgy (P/M) AZ31B magnesium alloy, *Materials Science & Engineering A*, 529 (2011) 143-150.
151. 三本嵩哲, 中西望, 梅田純子, 近藤勝義: 水素化チタンの熱分解反応を利用した純チタン粉末材の創製, *高温学会誌*, 37 6 (2011) 300-305.
152. 孫斌, 李樹豊, 今井久志, 梅田純子, 近藤勝義: 粉末冶金法による  $Mg_2Si$  の固相合成機構の解明, *高温学会誌*, 37 6 (2011) 295-299.
153. H. Atsumi, H. Imai, S. Li, K. Kondoh, Y. Kousaka, A. Kojima: High-strength, lead-free machinable  $\alpha-\beta$  duplex phase brass Cu-40Zn-Cr-Fe-Sn-Bi alloys, *Materials Science & Engineering A*, 529 (2011) 275-281.
154. K. Kondoh, N. Nakanishi, R. Takei, H. Fukuda, J. Umeda: Evaluation of Initial Corrosion Phenomenon of Magnesium Alloys by SKPFM, *Materials Science Forum*, 690 (2011) 397-400.
155. K. Kondoh, T. Threrujirapong H. Fukuda, J. Umeda: Un-bundled Carbon Nanotubes Reinforced Light Metal Composites via Powder Metallurgy Route, *Materials Science Forum*, 690 (2011) 339-342.



156. X. Luo, G. Yang, C. Lia, K. Kondoh: High strain rate induced localized amorphization in cubic BN/NiCrAl nanocomposite through high velocity impact, *Scripta Materialia*, 65 (2011) 581-584.
157. H. Imai, S. Li, K. Kondoh, Y. Kosaka, A. Kojima, H. Atsumi, J. Umeda: Effect of Chromium Precipitation on Machinability of Sintered Brass Alloys Dispersed with Graphite Particles, *Materials Transactions*, 52 7 (2011) 1426-1430.
158. K. Kondoh, J. Fujita, J. Umeda, H. Imai, K. Enami, M. Ohara, T. Igarashi: Thermo-dynamic analysis on solid-state reduction of CaO particles dispersed in Mg–Al alloy, *Materials Chemistry and Physics*, 129 (2011) 631-640.
159. A. Elsayed, J. Umeda, K. Kondoh: The texture and anisotropy of hot extruded magnesium alloys fabricated via rapid solidification powder metallurgy, *Materials & Design*, 32 (2011) 4590-4597.
160. K. Okada, M. Nandi, J. Maruyama, T. Oka, T. Tsujimoto, K. Kondoh, H. Uyama: Fabrication of mesoporous polymer monolith: a template-free approach, *Chemical Communications*, (2011), DOI: 10.1039/C1CC12402A.
161. S. Li, H. Imai, A. Kojima, Y. Kosaka, K. Yamamoto, M. Takahashi, H. Atsumi, K. Kondoh: Effect of Heat Treatment on Phase Transformation and Precipitation Behavior of Cu40Zn-1.0 wt% Ti Brass via Powder Metallurgy, ICEAM 2011, *Advanced Materials Research*, 233-235 (2011) 2732-2735.
162. H. Fukuda, K. Kondoh, J. Umeda, B. Fugetsu: Fabrication of magnesium based composites reinforced with carbon nanotubes having superior mechanical properties, *Materials Chemistry and Physics*, 127 (2011) 451-458.
163. H. Fukuda, K. Kondoh, J. Umeda, B. Fugetsu: Aging behavior of the matrix of aluminum–magnesium–silicon alloy including carbon nanotubes, *Materials Letters*, 65 (2011) 1723-1725.
164. 竹井怜, 梅田純子, 近藤勝義: 表面電位差を用いた Mg 合金中の母相と分散物間におけるガルバニック腐食現象の評価, *日本機械学会論文集 (A 編)*, 77 774 (2011) 301-315, DOI: 10.1299/kikaia.77.301.
165. 中西望, 竹井怜, 今井久志, 近藤勝義: Mg-Al 合金と Ti の界面における局所腐食現象の解析, *日本機械学会論文集 (A 編)*, 77 774 (2011) 316-322, DOI:10.1299/kikaia.77.316.
166. H. Fukuda, K. Kondoh, J. Umeda, B. Fugetsu : Interfacial analysis between Mg matrix and carbon nanotubes in Mg-6 wt.% Al alloy matrix composites reinforced with carbon nanotubes, *Composites Science and Technology*, 71 (2011) 705-709.
167. S. Li, K. Kondoh, H. Imai, H. Atsumi: Fabrication and properties of lead-free machinable brass with Ti additive by powder metallurgy, *Powder Technology*, 205 (2011) 242-249.
168. A. Elsayed, J. Umeda, K. Kondoh: Application of rapid solidification powder metallurgy to the fabrication of high-strength, high-ductility Mg–Al–Zn–Ca–La alloy through hot extrusion, *Acta Materialia*, 59 (2011) 273-282.
169. 渥美春彦, 今井久志, 李樹豊, 上坂美治, 小島明倫, 近藤勝義: 微量金属元素を添加した高強度黄銅合金の組織構造と力学特性, *日本機械学会論文集 (A 編)*, 76 771 (2010) 1501-1506, DOI: 10.1299/kikaia.76.1501.
170. H. Fukuda, J. A. Szpunar, K. Kondoh, R. Chromik: The influence of carbon nanotubes on the corrosion behaviour of AZ31B magnesium alloy, *Corrosion Science*, 52 (2010) 3917-3923.
171. J. Umeda, K. Kondoh: High-purification of amorphous silica originated from rice husks by combination of polysaccharide hydrolysis and metallic impurities removal, *Industrial Crops and Products*, 32 (2010) 539-544.
172. K. Kondoh, K. Kaneko, T. Akita: *Advanced Powder Metallurgy Metals by Metal Working*, *Steel research international*, 81 9 (2010) 1283-1287.



173. H. Imai, K. Kondoh, S. Li, H. Atsumi, Y. Kosaka, A. Kojima: Effect of Bismuth Addition on Machinability and Mechanical Properties of Lead-Free Brass via Powder Metallurgy Process, *Steel research international*, 81 9 (2010) 1296-1299.
174. S. Li, H. Imai, H. Atsumi, K. Kondoh: Effects of Ti Addition on Microstructure and Mechanical Properties of Extruded Cu40Zn-2.2Bi Brass by Powder Metallurgy, *Steel research international*, 81 9 (2010) 1312-1315.
175. A. Elsayed, H. Imai, J. Umeda, K. Kondoh: Microstructure and Mechanical Properties of Hot Extruded ZK61 Alloy Produced by Rapid Solidification Powder Metallurgy, *Steel research international*, 81 9 (2010) 1304-1307.
176. T. Threrujirapapong, K. Kondoh, H. Imai, J. Umeda, B. Fugetsu: Hot Extrusion of Pure Titanium Reinforced with Carbon Nanotubes, *Steel research international*, 81 9 (2010) 1320-1323.
177. S. Li, H. Imai, H. Atsumi, K. Kondoh: Contribution of Ti Addition to Characteristics of Extruded Cu40Zn Brass Alloy Prepared by Powder Metallurgy, *Materials and Design*, 32 (2011) 192-197.
178. S. Li, H. Imai, H. Atsumi, K. Kondoh: Phase transformation and precipitation hardening behavior of Cr and Fe in BS40CrFeSn alloy, *Journal of Materials Science*, 45 (2010) 5669-5675.
179. 中西望, 今井久志, 近藤勝義, 藤井英俊: Mg-Al 系合金と Ti の高温濡れ現象, *高温学会誌*, 36 4 (2010) 192-195.
180. J. Umeda, M. Kawakami, K. Kondoh, A. EL-Sayed, H. Imai: Microstructural and mechanical properties of titanium particulate reinforced magnesium composite materials, *Materials Chemistry and Physics*, 123 (2010) 649-657.
181. H. Imai, S. Li, Y. Kosaka, A. Kojima, H. Atsumi, K. Kondoh: High Strength and Lead-free Machinable Brass by Powder Metallurgy Process, *Materials Science Forum*, 654-656 (2010) 2680-2683.
182. T. Yoshimura, T. Threrujirapapong, H. Imai, K. Kondoh: Mechanical Properties of Oxide Dispersion Strengthened Pure Titanium Produced by Powder Metallurgy Method, *Materials Science Forum*, 654-656 (2010) 815-818.
183. H. Atsumi, H. Imai, S. Li, Y. Kousaka, A. Kojima, K. Kondoh: Microstructure and Mechanical Properties of High Strength Brass Alloy with Some Elements, *Materials Science Forum*, 654-656 (2010) 2552-2555.
184. K. Kondoh, H. Fukuda, J. Umeda, H. Imai, B. Fugetsu, M. Endo: Microstructural and mechanical analysis of carbon nanotube reinforced magnesium alloy powder composites, *Materials Science & Engineering A*, 527 (2010) 4103-4108.
185. H. Imai, S. Li, H. Atsumi, Y. Kosaka, A. Kojima, K. Kondoh: Development of Lead-Free Machinable Brass with Bismuth and Graphite Particles by Powder Metallurgy Process, *Materials Transactions*, 51 5 (2010) 855-859.
186. T. Luangvaranunt, C. Dhadsanadhep, J. Umeda, E. Nisaratanaporn and K. Kondoh: Aluminum-4mass%Copper/Alumina Composites Produced from Aluminum Copper and Rice Husk Ash Silica Powders by Powder Forging, *Materials Transaction*, 51 4 (2010) 756-761.
187. S. Li, H. Imai, H. Atsumi, K. Kondoh: Characteristics of High Strength Extruded BS40CrFeSn Alloy Prepared by Spark Plasma Sintering and Hot Pressing, *Journal of Alloys and Compounds*, 493 1-2 (2010) 128-133.
188. H. Imai, Y. Kosaka, A. Kojima, S. Li, K. Kondoh, J. Umeda, H. Atsumi: Characteristics and machinability of lead-free P/M Cu60Zn40 brass alloys dispersed with graphite, *Powder Technology*, 198 (2010) 417-421.
189. 廖 金孫, 堀田 真, 閻師昭彦, 金子貫太郎, 近藤勝義: 高耐衝撃性マグネシウム合金の製造技術の開発, *まてりあ*, 49 1 (2010) 23-25, DOI: 10.2320/materia.49.23.





190. K. Kondoh, A. Elsayed, H. Imai, J. Umeda, T. Jones: Microstructures and mechanical responses of powder metallurgy non-combustive magnesium extruded alloy by rapid solidification process in mass production, *Materials and Design*, 31 (2010) 1540-1546.
191. A. Elsayed, K. Kondoh, H. Imai, J. Umeda: Microstructure and mechanical properties of hot extruded Mg–Al–Mn–Ca alloy produced by rapid solidification powder metallurgy, *Materials and Design*, 31 (2010) 2444-2453.
192. K. Kondoh, M. Kawakami, H. Imai, J. Umeda, H. Fujii: Wettability of pure Ti by molten pure Mg droplets, *Acta Materialia*, 58 (2010) 606-614.
193. 榎並啓太郎, 大原正樹, 五十嵐貴教, 藤田淳司, 近藤勝義: バルクメカニカルアロイングによる耐熱性マグネシウム複合材料の開発, *粉体および粉末冶金*, 56 12 (2009) 717-721.
194. T. Threrujirapong, K. Kondoh, H. Imai, J. Umeda, B. Fugetsu: Mechanical properties of a Titanium Matrix Composite Reinforced with Low Cost Carbon Black via Powder Metallurgy Processing, *Materials Transactions*, 50 12 (2009) 2757-2762.
195. T. Yoshimura, H. Imai, T. Threrujirapong, K. Kondoh: Cost effective Pure Titanium with High Mechanical Response by Oxide Dispersion Strengthening, *Materials Transactions*, 50 12 (2009) 2751-2756.
196. 吉村知浩, 今井久志, 近藤勝義: 純チタンの結晶粒微細化と酸化物分散強化, *日本金属学会誌*, 73 10 (2009) 768-772
197. K. Kondoh, J. Umeda, R. Watanabe: Cavitation erosion of aluminum matrix sintered composite with AlN dispersoids, *Wear*, 267 (2009) 1511-1515
198. K. Kondoh, J. Umeda, K. Kawabata: Tribological analysis of Mg<sub>2</sub>Si particulates reinforced powder metallurgy magnesium alloy composites under oil lubrication condition, *Advances in Materials Science & Engineering*, (2009) 628737.
199. J. Liao, M. Hotta, K. Kaneko, K. Kondoh: Enhanced impact toughness of magnesium alloy by grain refinement, *Scripta Materialia*, 61 (2009) 208-211.
200. K. Kondoh, T. Threrujirapong, H. Imai, J. Umeda, B. Fugetsu: Characteristics of powder metallurgy pure titanium matrix composite reinforced with multi-wall carbon nanotubes, *Composites Science and Technology*, 69 (2009) 1077-1081.
201. K. Kondoh, J. Fujita, J. Umeda, T. Serikawa: Estimation of Compositions of Zr-Cu Binary Sputtered Film and Its Characterization, *Advances in Materials Science & Engineering*, (2009) 518354.
202. K. Kondoh, H. Imai, Y. Kosaka, A. Kojima, J. Umeda: Machinable Cu-40%Zn Composites Containing Graphite Particles by Powder Metallurgy Process, *Journal of Metallurgy*, (2009) 853092.
203. K. Kondoh, J. Umeda, R. Watanabe: Cavitation resistance of powder metallurgy magnesium matrix composite with Mg<sub>2</sub>Si dispersoids, *Materials Science & Engineering A*, 499 (2009) 440-444.
204. J. Umeda, K. Kondoh, H. Imai: Friction and wear behavior of sintered magnesium composite reinforced with CNT-Mg<sub>2</sub>Si/MgO, *Materials Science & Engineering A*, 504 (2009) 157-162.
205. K. Kondoh, M. Kawakami, J. Umeda, H. Imai: Magnesium Matrix Composites Reinforced with Titanium Particles, *Materials Science Forum*, 618-619 (2009) 371-375.
206. K. Kondoh, T. Threrujirapong, J. Umeda, H. Imai, B. Fugetsu: Microstructural and Mechanical Properties of Titanium Matrix Composites Reinforced with Nano Carbon Materials via Powder Metallurgy Process, *Materials Science Forum*, 618-619 (2009) 495-499.
207. Ma Qian, K. Kondoh, D. Kent, J. Umeda, P. Yu, G. B. Schaffer: The In-Situ Fabrication of Al-AlN Composites



- from Metal Powders and their Resistance to Wear and Cavitation, Materials Science Forum, 618-619 (2009) 617-620.
208. 川村貴人,砂田聡,近藤勝義,真島一彦: SWAP 法を用いて作製された AZ31 焼結押出材の腐食特性, 日本金属学会誌, 73 3 (2009) 189-197.
209. 近藤勝義: Roll Compaction プロセスによるマグネシウム粉末合金の創製, 塑性と加工, 50 578 (2009) 197-200.
210. J. Umeda, K. Kondoh, M. Kawakami, H. Imai: Powder metallurgy magnesium composite with magnesium silicide in using rice husk silica particles, Powder Technology, 189 (2009) 399-403.
211. 近藤勝義: 粉末成形の基礎と素材製造プロセス 2.粉末の加工プロセスによる組織制御, 材料, 57 12 (2008) 1261-1265.
212. K. Kondoh, T. Threrujirapong, H. Imai, J. Umeda, B. Fugetsu: CNTs/TiC reinforced titanium matrix nanocomposites via powder metallurgy and its microstructural and mechanical properties, Journal of Nanomaterials, (2008) 127538.
213. J. Umeda, K. Kondoh: High-purity amorphous silica originated in rice husks via carboxylic acid leaching process, Journal of Materials Science, 43 (2008) 7084-7090.
214. K. Kondoh, K. Kawabata, T. Serikawa, H. Kimura: Structural Characteristics and Crystallization of Metallic Glass Sputtered Films by Using Zr System Target, Research Letters in Materials Science, (2008) 312057.
215. 金子貫太郎, 閻師昭彦, 松田靖史, 近藤勝義: 高強度・高靱性マグネシウム合金製長下肢装具の開発, 軽金属, 58 11 (2008) 617-621.
216. 今井久志, 近藤勝義, 上坂美治, 小島明倫, 片野元, 梅田純子: 放電焼結法を用いた 60Cu-40Zn 黄銅合金粉末押出材の特性, 粉体および粉末冶金, 55 10 (2008) 743-749.
217. 川村貴人,砂田聡,近藤勝義,能登谷久公,真島一彦: SSRT 条件化における AZ31Mg 合金の電気化学インピーダンス特性, 日本金属学会誌, 72 9 (2008) 667-673.
218. 榎並啓太郎, 藤田行俊, 本江克次, 大原正樹, 五十嵐貴教, 近藤勝義: バルクメカニカルアロイング法によるマグネシウム複合材料の開発, 粉体および粉末冶金, 55 4 (2008) 244-249.
219. 川村貴人, 砂田聡, 能登谷久公, 近藤勝義, 真島一彦: AZ 系Mg合金の自然浸漬環境下における腐食特性に及ぼす Al 含有量の影響, 日本金属学会誌, 72 3 (2008) 216-223.
220. K. Kondoh, T. Serikawa, K. Kawabata, T. Yamaguchi: Mg-C films deposited by radio-frequency sputtering, Scripta Materialia, 57 6 (2007) 489-491.
221. 砂田聡, 川村貴人, 近藤勝義, 能登谷久公, 真島一彦: 各種手法により作製された Mg 合金の腐食特性,粉体および粉末冶金, 54 9 (2007) 658-664.
222. J. Umeda, K. Kondoh, Y. Michiura: Process Parameters Optimization in Preparing High-Purity Amorphous Silica Originated from Rice Husks, Materials Transactions, 48 12 (2007) 3095-3100.
223. T. Luangvaranunt, T. Threrujirapong, S. Danchaivijit and K. Kondoh: Fabrication of Al-Fe Alloys by Repeated Compaction and Extrusion of Mixture of Elemental Powders, Journal of Solid Mechanics and Materials Engineering, 1 7 (2007) 931-937.
224. T. Luangvaranunt, S. Jearwun, K. Kondoh: Removal of adsorbed moisture on iron powders by rice husk ash, Journal of Metals, Materials and Minerals, 17 1 (2007) 47-52.
225. 近藤勝義: 粉体プロセスによるマグネシウム合金の微細組織制御と高強靱性化, 粉体工学会誌, 43 6 (2006) 450-456.
226. T. Serikawa, M. Henmi, T. Yamaguchi, H. Oginuma, and K. Kondoh: Depositions and Microstructure of Mg-Si



- Thin Film by Ion Beam Sputtering, Surface and Coatings Technology, 200 (2006) 4233-4239.
227. T. Yamaguchi, T. Serikawa, M. Henmi, H. Oginuma, K. Kondoh: Mg<sub>2</sub>Si coating technology on magnesium alloys to improve corrosion and wear resistance, Materials Transactions, 47 4 (2006) 1026-1030.
228. P. Cao, M. Qian, K. Kondoh and D. H. St John: A Comparative Study of Carbon Additives on Grain Refinement of Magnesium Alloys, International Foundry Research, 58 4 (2006) 18-22.
229. 金子貫太郎, 塩崎修司, 護法良憲, 秋田亨, 近藤勝義, 荻沼秀樹: 高強靱性マグネシウム合金の環境軽負荷型製造技術の開発, 塑性と加工, 47 551 (2006) 49-52.
230. 金子貫太郎, 塩崎修司, 近藤勝義, 荻沼秀樹, 秋田亨: 高強靱性マグネシウム合金の環境軽負荷型製造技術の開発, までりあ, 45 1 (2006) 54-56.
231. K. Kondoh, H. Oginuma, J. Umeda and T. Umeda: Innovative Reuse of Agricultural Wastes as Industrial Raw Materials to Form Magnesium Composites, Materials Transactions, 46 12 (2005) 2586-2591.
232. K. Kondoh, T. Yamaguchi, T. Serikawa, and H. Oginuma: Surface Modification of Magnesium Alloy by Mg<sub>2</sub>Si Coating Technology, JSME International Journal, A 48 4 (2005) 264-268.
233. K. Kondoh, R. Tsuzuki, W. Du and S. Kamado: Materials and Processing Designs for High-Performance Magnesium Alloys, Materials Science Forum, 475-479 (2005) 453-456.
234. 芹川正, 逸見百子, 山口貴嗣, 荻沼秀樹, 近藤勝義: イオンビームスパッタによる Mg-Si 薄膜形成, 日本金属学会誌, 69 1(2005) 31-35.
235. M. Sumida, K. Kondoh: In-situ synthesis of Ti matrix composite reinforced with dispersed Ti<sub>5</sub>Si<sub>3</sub> particles via spark plasma sintering, Materials Transactions, 46 10 (2005) 2135-2141.
236. 山口貴嗣, 近藤勝義, 芹川正, 逸見百子, 荻沼秀樹: Mg<sub>2</sub>Si 焼結体を用いたマグネシウム合金への Mg-Si 成膜プロセスと皮膜特性, 粉末及び粉末冶金, 52 4 (2005) 276-281.
237. 荻沼秀樹, 近藤勝義, 住田雅樹, 湯浅栄二: Mg<sub>2</sub>Si 粒子添加によるマグネシウム基複合材料の作製およびその機械的特性, 粉体および粉末冶金, 52 4 (2005) 282-286.
238. 荻沼秀樹, 近藤勝義, 山口貴嗣, 湯浅栄二: 放電プラズマ焼結法による Mg-Si 金属間化合物の作製, 粉体および粉末冶金, 52 2 (2005) 79-83.
239. R. Tsuzuki, K. Kondoh, M. Ishihara, E. Yuasa: Thermal behavior of AZ31 and Si in solid state synthesis of Mg<sub>2</sub>Si, 粉体および粉末冶金, 51 (2005) 736-740.
240. 近藤勝義: 反復式塑性加工による高機能化材料技術, 塑性と加工, 45 519 (2004) 10-14.
241. 近藤勝義: マグネシウム合金の高機能化材料技術に関する実用化研究, 軽金属, 54 5 (2004) 187-191.
242. 近藤勝義, 都筑律子, 杜文博, 鎌土重晴: 反復式塑性加工と固相合成法を利用したマグネシウム合金の高機能化リサイクル, までりあ, 43 4 (2004) 275-280.
243. K. Kondoh, R. Tsuzuki, W. Du and T. Aizawa: High Performance Magnesium Composite Alloy by Employing Wasted High Purity SiO<sub>2</sub> Ingot, Transactions of the Materials Research Society of Japan, 29 5 (2004), 1961-1964.
244. K. Kondoh, R. Tsuzuki, W. Du and S. Kamado: Materials and Processing Designs for Magnesium Alloys-Grain Refining by Repeated Plastic Working and Solid-State Synthesis of Mg<sub>2</sub>Si (Review), Advances in Technology of Materials and Materials Processing Journal (ATM), 6 2 (2004) 328-335.
245. T. Serikawa, M. Henmi, K. Kondoh: Microstructure and Mg concentration of Mg-Si thin film deposited by Ion beam sputtering on glass substrate, Journal of Vacuum Science and Technology A, 22 (2004) 1971-1974.
246. K. Kondoh and T. Luangvaranunt: New Process to Fabricate Magnesium Composites Using SiO<sub>2</sub> Glass Scraps,



- Materials Transactions, 44 12 (2003) 2468-2474.
247. K. Kondoh and T. Aizawa: Environmentally Benign Fabricating Process of Magnesium Alloy by Cyclical Plastic Working in Solid-State, Materials Transactions, 44 7 (2003) 1276-1283.
248. K. Kondoh, H. Oginuma, A. Kimura, S. Matsukawa, and T. Aizawa: In-situ Synthesis of Mg<sub>2</sub>Si Intermetallics via Powder Metallurgy Process, Materials Transactions, 44 5 (2003) 981-985.
249. K. Kondoh, H. Oginuma, R. Tsuzuki and T. Aizawa: Magnesium Matrix Composite with Solid-state Synthesized Mg<sub>2</sub>Si Dispersoids, Materials Transactions, 44 4 (2003) 611-618.
250. K. Kondoh, H. Oginuma, and T. Aizawa: Tribological Properties of Magnesium Composite Alloy with In-situ Synthesized Mg<sub>2</sub>Si Dispersoids, Materials Transactions, 44 4 (2003) 524-530.
251. K. Kondoh, T. Luangvaranunt and T. Aizawa: Solid-State Recycle Processing for Magnesium Alloy Waste via Direct Hot Forging, Materials Transactions, 43 3 (2002) 322-325.
252. T. Aizawa, T. Luangvaranunt, K. Kondoh: Solid State Recycling of Recyclable Aluminum Wastes with In-Process Microstructure Control, Materials Transactions, 43 3 (2002) 315-321.
253. T. Luangvaranunt, K. Kondoh, T. Aizawa: A Novel Process to Form Al-12 mass%Si Bulk Material from Machined Chips using Bulk Mechanical Alloying, Materials Transactions, 43 5 (2002) 1178-1182.
254. 近藤勝義, 木村淳, 渡辺龍三: 高温下での粒子表面酸化皮膜の還元反応に及ぼすマグネシウムの影響, アルミニウム合金粉末粒子の焼結現象と粒子表面構造制御に関する研究(第1報), 溶接学会論文集, 9 1 (2001) 167-173.
255. 近藤勝義, 木村淳, 渡辺龍三: マグネシウムによる Al<sub>2</sub>O<sub>3</sub> 皮膜の還元分解現象を利用した焼結挙動, アルミニウム合金粉末粒子の焼結現象と粒子表面構造制御に関する研究(第2報), 溶接学会論文集, 9 2 (2001) 377-382.
256. 近藤勝義, 木村淳, 渡辺龍三: 直接窒化反応法を利用した AlN の生成機構と Al-AlN 複合焼結体の特性, アルミニウム合金粉末粒子の焼結現象と粒子表面構造制御に関する研究(第3報), 溶接学会論文集, 9 2 (2001) 383-389.
257. 近藤勝義, 荻沼秀樹, 湯浅栄二, 相澤龍彦, 木村淳: Mg<sub>2</sub>Si の固相合成に及ぼす粉体特性および圧粉条件の影響, 粉体および粉末冶金, 48 9 (2001) 816-823.
258. 近藤勝義, T. Luangvaranunt, 相澤龍彦: AZ91D マグネシウム合金チップの固相リサイクルプロセス, 軽金属, 51 10 (2001) 516-520.
259. K. Kondoh, T. Luangvaranunt and T. Aizawa: Morphology-Free Processing of Magnesium Alloys, Materials Transactions, 42 7 (2001) 1254-1257.
260. K. Kondoh, H. Oginuma, E. Yuasa, and T. Aizawa: Solid-State Synthesis of Mg<sub>2</sub>Si from Mg-Si Mixture Powder, Materials Transactions, 42 7 (2001) 1293-1300.
261. K. Kondoh, A. Kimura, and R. Watanabe: Cavitation Toughness of In-situ Nitrided Al-AlN Composite Sintered Material, Powder Metallurgy, The Institute of Materials, 44 2 (2001) 157-160.
262. K. Kondoh, A. Kimura, and R. Watanabe: Effect of Mg on Sintering Phenomenon of Aluminum Alloy Powder Particle, Powder Metallurgy, The Institute of Materials, 44 2 (2001) 161-164.
263. K. Kondoh, A. Kimura, and R. Watanabe: Analysis of Tin Behavior on Surface of Rapidly Solidified Aluminum Alloy Powder Particles during Heating, Powder Metallurgy, The Institute of Materials, 44 3 (2001) 253-258.
264. T. Aizawa and K. Kondoh: Nano-structured materials via bulk mechanical alloying, Scripta materialia. 44 (2001) 1751-1755.
265. T. Aizawa, T. Luangvaranunt, K. Kondoh: Solid State Recycling from Green Wastes to Aluminum Alloys with High Material Efficiency, J. Japan Inst. Metals, 65 7 (2001) 581-588.
266. Kimura, K. Kondoh, M. Shibata, R. Watanabe: Breakaway Behavior of Surface Oxide film on





- Aluminum-Silicon-Magnesium Alloy Powder Particles at High Temperature in a Vacuum, *Materials Transactions*, 42 (2001) 1373-1379.
267. T. Luagnvaranaunt, P. Visuttipitukul, K. Kondoh, H. Kuwahara, T. Aizawa: Gas nitriding of magnesium-titanium alloys fabricated by bulk mechanical alloying, *Materials Transactions*, 42 (2001) 1312-1316.
268. 近藤勝義, 木村淳, 渡辺龍三: アルミニウム合金粉末の焼結現象に及ぼすマグネシウムの影響, 粉体および粉末冶金, 47 1 (2000) 36-41.
269. 近藤勝義, 木村淳, 渡辺龍三: 急冷凝固アルミニウム合金粉末の直接窒化反応に及ぼす粉末中の錫の影響, 粉体および粉末冶金, 47 1 (2000) 42-46.
270. 近藤勝義, 渡辺龍三, 橋本等: 急冷凝固アルミニウム合金粉末の圧密化挙動に及ぼす粒子径の影響, 粉体および粉末冶金, 47 8 (2000) 853-859.
271. 近藤勝義, 渡辺龍三: Al基焼結複合材料の耐キャビテーション性能に及ぼすAlN分散の影響, 粉体および粉末冶金, 47 8 (2000) 860-865.
272. 近藤勝義, 木村淳, 武田義信, 渡辺龍三: 高温下での Al-Si-Mg-Sn 合金粉末表面におけるマグネシウムおよび錫の挙動とそれらの直接窒化反応に及ぼす影響, 日本金属学会誌, 64 11 (2000) 1106-1112.
273. 近藤勝義, 瀧川貴稔, 渡辺龍三: 温間成形における鉄系粉末の圧密化挙動に及ぼす潤滑剤の影響, 粉体および粉末冶金, 47 9 (2000) 941-945.
274. K. Kondoh and Y. Takeda: Effects of Granulating Conditions on Characteristics of Wet Granulated Aluminum Alloy Powder, *Powder Metallurgy2000*, The Institute of Materials, 43 1 (2000) 63-68.
275. K. Kondoh and Y. Takeda: Tribological Property of In-Situ Directly Nitrided and Sintered Al-AlN Composite, *Powder Metallurgy 2000*, The Institute of Materials, 43 1 (2000) 69-75.
276. K. Kondoh and Y. Takeda: Effects of Content and Particle Size of Si crystal on Damping Property of Powder Forged Al-Si Alloy, *Powder Metallurgy 2000*, The Institute of Materials, 43 3 (2000) 275-280.
277. K. Kondoh, R. Watanabe, and H. Hashimoto: Analysis of Compaction Behavior of Wet Granulated Aluminum Alloy Powder, *Powder Metallurgy2000*, The Institute of Materials, 43 4 (2000) 359-363.
278. K. Kondoh, A. Kimura, and R. Watanabe: The effect of Sn and Mg on Direct Nitriding Reaction of PM Aluminum Alloy, *Powder Metallurgy2000*, The Institute of Materials, 43 5 (2000).
279. K. Kondoh and Y. Takeda: The Effect of Granulating Conditions on the Characteristics of a Granulated Aluminum Alloy, *Aluminum Transactions*, 2 2 (2000) 345-352.
280. 木村淳, 近藤勝義, 柴田雅裕, 渡辺龍三: 高温真空下における Al-Si-Mg 合金粉末表面酸化膜の破壊挙動, 日本金属学会誌 64 (2000) 227-233.
281. 近藤勝義, 橋倉学, 武田義信: Al-Si 系粉末合金の減衰特性に及ぼす Si 含有量と粒子径の影響, 粉体および粉末冶金, 46 7 (1999) 715-721.
282. 近藤勝義, 武田義信: 湿式造粒処理を施したアルミニウム合金粉末の粉体特性に及ぼすバインダーの影響, 粉体および粉末冶金, 46 7 (1999) 772-779.
283. 近藤勝義, 武田義信, 渡辺龍三, 橋本等: 湿式造粒処理を施したアルミニウム合金粉末の圧密化挙動解析, 粉体および粉末冶金, 46 7 (1999) 780-786.
284. 近藤勝義, 木村淳, 武田義信: In-Situ 窒化反応法により合成した AlN 皮膜の SR-XPS による生成反応解析と組織構造解析, 粉体および粉末冶金, 46 8 (1999) 801-810.
285. 近藤勝義, 木村淳, 武田義信, 渡辺龍三: In-Situ 窒化反応法を利用した Al-AlN 複合焼結材料の機械的特性および摩擦摺動特性, 粉体および粉末冶金, 46 10 (1999) 1044-1052.



286. 近藤勝義, 木村淳, 渡辺龍三: 加熱過程におけるアルミニウム合金粉末表面での錫の挙動解析, 粉体および粉末冶金, 4611 (1999) 1141-1147.
287. K. Kondoh, A. Kimura, and Y. Takeda: Wear Properties of In-Situ Reacted Al-AlN Composite Sintered Material and Applications for Automatic Transmission Parts, Society of Automotive Engineering Technical Paper, 99011048 (1999) 3-8.
288. 木村淳, 近藤勝義, 武田義信, 柴田雅裕: アルミニウム合金粉末表面でのマグネシウムの挙動, 日本金属学会誌 63 (1999) 1191-1196.
289. 木村淳, 近藤勝義, 柴田雅裕: 放射光光電子分光法によるアルミニウム合金粉末のナノ表面化学反応の解析, 光子デバイス研究会資料, (1999) 29-32.
290. K. Kondoh and T. Ohji: Optimum Heat Input Control in Arc Welding on Steel and Aluminum Pipe, Materials Transactions, 39 3 (1998) 413-419.
291. K. Kondoh and T. Ohji: Optimizing Algorithm Based on Convex Programming Method for Optimum Heat Input Control in Arc Welding, Materials Transactions, 39 3 (1998) 420-426.
292. K. Kondoh and T. Ohji: Algorithm Based on Non-Linear Programming Method for Optimum Heat Input Control in Arc Welding, Science and Technology of Welding and Joining, The Institute of Materials, 3 3 (1998) 127-134.
293. K. Kondoh and T. Ohji: In-Process Heat Input Control in Arc Welding, Science and Technology of Welding and Joining, The Institute of Materials, 36 (1998) 295-303.
294. 木村淳, 近藤勝義, 片山誠, 蟹江智彦, 柴田雅裕: 放射光を用いたXPSによる表面化学反応の解析, X線分析の進歩, 29 (1998) 13-21.
295. 近藤勝義, 上田恵司, 黄地尚義: パイプの円周溶接における最適入熱制御に関する研究, 溶接学会論文集, 15-3 (1997) 494-501.
296. K. Kondoh, Y. Takano, and Y. Takeda: Friction and Wear Properties of Integrated Composite Copper-Based Friction Materials, Society of Automotive Engineering Technical Paper, 970979 (1997) 11-17.
297. Kimura, M. Shibata, K. Kondoh, Y. Takeda, M. Katayama, T. Kanie, H. Takada: Reduction mechanism of surface oxide in aluminum alloy powders containing magnesium studied by x-ray photoelectron spectroscopy using synchrotron radiation, Applied Physics Letter, 70 (1997) 3615-3617.
298. K. Kondoh, K. Kosuge, and Y. Takeda: Lubrication Pump Made of Rapidly Solidified Aluminum Alloy for High Performance Engine, Society of Automotive Engineering Technical Paper, 960281 (1996) 9-15.
299. K. Kondoh, T. Hayashi, and Y. Takeda: Wear Property of Powder Forged Aluminum Alloy, Advanced Powder Metallurgy, 6 (1993) 178-181.
300. K. Kondoh, T. Kaji, T. Hayashi, and Y. Takeda: Al-Fe-X Alloys Consolidated by Powder Forging without Lateral Flow, Advanced Powder Metallurgy, 2 (1992) 339-353.
301. 近藤勝義, 黄地尚義, 西口公之: 最適入熱条件推定のアルゴリズム, 溶接学会論文集, 8-1 (1990) 48-53.
302. 近藤勝義, 黄地尚義, 西口公之: アーク溶接の最適入熱制御, 溶接学会論文集, 8-2 (1990) 167-173.