

平成19年度研究部共同研究 分野別研究発表一覧

	採択課題数			発表論文数			学会発表						研究成果による 工業所有権出願件数		
	重点研究	一般研究	若手萌芽研究	重点研究	一般研究	若手萌芽研究	重点研究		一般研究		若手萌芽研究		重点研究	一般研究	若手萌芽研究
							国内	国際	国内	国際	国内	国際			
1. 金属・合金	1	2	3	0	3	2	0	0	2	1	10	1	0	0	0
2. 半導体	3	9	3	6	25	2	6	5	9	3	0	0	0	0	0
3. セラミックス	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0
4. 超伝導体	2	4	2	14	6	2	0	0	4	1	0	0	0	0	0
5. 磁性、磁性材料	1	7	4	2	12	9	3	3	9	0	7	1	0	0	0
6. 複合材料	0	2	0	0	1	0	0	0	1	2	0	0	0	0	0
7. 非結晶、準結晶、液体状態	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0
8. 薄膜、超微粒子	0	6	2	0	11	1	0	0	16	7	3	0	0	0	0
9. 熱力学的性質、相図	1	1	0	7	1	0	5	1	1	0	0	0	0	0	0
10. 結晶成長、欠陥	1	4	2	0	5	2	0	0	3	3	2	0	0	0	0
11. 溶解、凝固、接合	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
12. 超高温、プラズマ	0	2	0	0	2	0	0	0	1	0	0	0	0	0	0
13. 照射、原子力関連(アクチノイド等)	0	2	0	0	3	0	0	0	6	1	0	0	0	0	0
14. 結晶構造(回折)	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0
15. 電気的、光学的性質	0	1	1	0	12	1	0	0	1	0	0	0	0	0	0
16. NMR、メスバウアー	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
17. 表面、界面、トンネル現象、触媒	0	1	1	2	10	0	0	0	0	1	0	2	0	0	0
18. 極低温	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0
19. 電気化学的性質、腐食	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
20. 機械的性質	0	2	0	1	1	0	3	0	0	0	0	0	0	0	0
21. 分光、分析	1	1	3	3	1	5	0	1	2	0	2	0	0	0	0
22. 電子、光学顕微鏡	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
23. 中性子、電子、イオン、X線散乱	2	2	2	3	2	4	1	1	0	0	5	2	1	0	0
24. 高純度物質、精製	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25. 強磁場、高圧	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26. 計算機	1	3	0	4	5	0	0	0	4	1	0	0	0	0	0
小計	14	56	23	47	103	28	19	11	63	20	29	6	1	0	0
合計	93			178			30		83		35		1		
							148								

発 表 論 文

金属・合金

- 1 . "Effects of microwave irradiation on metal hydrides and complex hydrides", Y.Nakamori, M.Matsuo, K.Yamada, T.Tsutaoka, S.Orimo, J.Alloys Comp., 446-447(2007)698.
- 2 . "High pressure synthesis and magnetic properties of Dy₇Rh₃ and Tb₇Rh₃ hydrides", R.Sato ,T.Tsutaoka, S.M., Filipek, J.Alloys Comp, 446-447(2007)610
- 3 . "Effects of aging in hydrogen atmosphere on electrical conductivity of Cu-3at.%Ti alloy", S.Semboshi, T.J Konno, Journal of Materials Research, 23, 2008, 473-477
- 4 . "Significant Improvement in Mechanical Properties of Biomedical Co-Cr-Mo Alloys with Combination of N addition and Cr-enrichment", Sang-Hak Lee, Naoyuki Nomura and Akihiko Chiba, Materials Transactions, 49, 2008, 260-264
- 5 . "生体用多孔質純チタンの引張特性に及ぼす医療用高分子充填の影響 ", 仲井正昭, 新家光雄, 赤堀俊和, 山野井秀明, 伊津野真一, 原口直樹, 伊藤芳典, 小笠原忠司, 大西隆, 粉体および粉末冶金 , 55巻5号, 2008, 印刷中

半導体

- 1 . "Silicon-based light emitters fabricated by embedding Ge quantum dots in Si microdisks"J. S. Xia, K. Nemoto, Y. Ikegami, N. Usami, and Y. Shiraki, Applied Physics Letters, 91, 2007, 111104
- 2 . "On Influences of Gate Bias on Hole Effective Mass and Mobility in Strained-Ge Channel Structures"Kentarou Sawano, Yugo Kunishi, Yuu Satoh, Kiyoji Toyama, Keisuke Arimoto, Toru Okamoto, Noritaka Usami, Kiyokazu Nakagawa, and Yasuhiro Shiraki, Applied Physics Express, 1, 2008, 11401
- 3 . "Hole density and strain dependencies of hole effective mass in compressively strained Ge channel structures", K. Sawano, Y. Kunishi, K. Toyama, T. Okamoto N. Usami, K. Nakagawa, Y. Shiraki, Physica, to be published, 2008
- 4 . "Direct correlation between the internal quantum efficiency and photoluminescence lifetime in undoped ZnO epilayers grown on Zn-polar ZnO substrates by plasma-assisted molecular beam epitaxy", D. Takamizu, Y. Nishimoto, S. Akasaka, H. Yuji, K. Tamura, K. Nakahara, T. Onuma, T. Tanabe, H. Takasu, M. Kawasaki, and S. F. Chichibu, Journal of Applied Physics, 103, 2008, 063502 4 頁
- 5 . "Effects of the high-temperature-annealed self-buffer layer on the improved properties of ZnO epilayers grown by helicon-wave-excited-plasma sputtering epitaxy on a-plane sapphire substrates", T. Koyama, A. N. Fouada, N. Shibata, and S. F. Chichibu, Journal of Applied Physics, 102, 2007, 073505 4 頁

- 6 . "Recombination dynamics of excitons in Mg0.11Zn0.89O alloy films grown using the high-temperature-annealed self-buffer layer by laser-assisted molecular-beam epitaxy", M. Kubota, T. Onuma, A. Tsukazaki, A. Ohtomo, M. Kawasaki, T. Sota, and S. F. Chichibu, Applied Physics Letters, 90, 2007, 141903 3 頁
- 7 . "Structural study of single-walled carbon nanotube films doped by a solution method" T. Takenobu, T. Takahashi, N. Akima, M. Shiraishi, H. Kataura and Y. Iwasa,J. Nanosci. Nanotech. ,7,2007,3533
- 8 . "インクジェット法を用いた単層カーボンナノチューブ薄膜トランジスタ"竹延大志,浅野武志,白石誠司,シーエムシー出版「インクジェットプリンターの応用と材料 II」,第 18 章,2007
- 9 . "A nuclear magnetic resonance study on rubrene-cobalt nano-composites" M. Shiraishi, H. Kusai, R. Nouchi, T. Nozaki, T. Shinjo, Y. Suzuki, M. Yoshida and M. Takigawa, Appl. Phys. Lett. ,in submission
- 10 . "Logic Circuits Using Solution-Processed Single-Walled Carbon Nanotube Transistors"R. Nouchi, H. Tomita, A. Ogura, M. Shiraishi and H. Kataura, Appl. Phys. Lett., in submission.
- 11 . "Suppression of current hysteresis in carbon nanotube thin film transistors "K.Tsukagoshi, M. Sekiguchi, Y. Aoyagi, T. Kanbara, T. Takenobu, Y. Iwasa, Japanese Journal of Applied Physics, 46 · 23,2007,L571-L573
12. "Charge injection process in organic field-effect transistors" T. Minari, T. Miyadera, K. Tsukagoshi, and Y.Aoyagi, Applied Physics Letters ,91 · 5,2007,053508/1-3
13. " Control of contact doping profile in a submicron channel pentacene field-effect transistor" F.Fujimori, K.Shigeto, T.Hamano, T.Minari, T.Miyadera, K.Tukagoshi, and Y.Aoyagi,Applied Physics Letters ,90 · 19,2007,193507/1-3
14. "Molecular-packing-enhanced charge transport in organic field-effect transistors based on semiconducting porphyrin crystals" T.Minari, M.Seto , T.Nemoto , S.Isoda , K.Tsukagoshi , and Y.Aoyagi,Applied Physics Letters ,91 · 12,2007,123501/1-3
15. "Suppression of short channel effect in organic thin film transistors" T.Minari, M.Seto , T.Nemoto , S.Isoda , K.Tsukagoshi , and Y.Aoyagi,Applied Physics Letters, 91 · 10,2007,113508/1-3
16. "FET 材料の電荷キャリア解明の現状と今後の展望"丸本一弘、黒田新一,MATERIAL STAGE,第 7 卷第 2 号,2007,83-88
17. "有機 FET 界面における伝導機構と磁性"丸本一弘、黒田新一,日本物理学会誌,第 62 卷 第 11 号,2007,851-855
18. "Electron spin resonance observation of gate-induced charge carriers in organic field-effect devices fabricated on silicon substrates" S. Watanabe, K. Ito, H. Tanaka, H. Ito, K. Marumoto and S. Kuroda, Japanese Journal of Applied Physics, 46(33), 2007, L792-L795

19. "Electron Spin Resonance Observation of Gate-Induced Ambipolar Charge Carriers in Organic Devices" K. Marumoto, T. Sakamoto, S. Watanabe, H. Ito, and S. Kuroda, Japanese Journal of Applied Physics, 46(48), 2007, 46(48)
20. "電子スピノ共鳴を用いた有機デバイスのミクロ特性評価法の開発"丸本一弘,電子スピノサイエンス,第6巻春号,2008,24-32
21. "Existence of tetrahedral site symmetry about Ge atoms in a single-crystal film of Ge₂Sb₂Te₅ found by X-ray fluorescence holography", S. Hosokawa, T. Ozaki, K. Hayashi, N. Hoppo, M. Fujiwara, K. Horii, P. Fons, A. V. Kolobov, and J. Tominaga, Appl. Phys. Lett., 90, 2007, 131913
22. "Investigation of oxygen distribution in electromagnetic CZ-Si melts with a transverse magnetic field using 3D global modeling", Lijun Liu, Satoshi Nakano, Koichi Kakimoto, Journal of Crystal Growth, Vol. 299, 2007, 48-58
23. "Party three-dimensional calculation of silicon Czochralski growth with a transverse magnetic field", Koichi Kakimoto, Lijun Liu, Journal of Crystal Growth, Vol. 303, 2007, 135-140
24. "Three-dimensional global modeling of a unidirectional solidification furnace with square crucibles", Lijun Liu, Satoshi Nakano, Koichi Kakimoto, Journal of Crystal Growth, Vol. 303, 2007, 165-169
25. "Numerical Analyses of Czochralski Furnace for Single Crystal Growth", Koichi KAKIMOTO, Takao TSUKADA, Nobuyuki IMAISHI, Journal of the Heat Society of Japan, Vol. 46, No. 196, 2007, 49-57
26. "Numerical investigation of induction heating and heat transfer in a SiC growth system", X. J. Chen, L.J. Liu, H Tezuka, Y. Usuki, and Kakimoto, Cryst. Res. Technol., Vol. 42, No. 10, 2007, 971-975
27. "Numerical investigation of crystal growth process of bulk Si and nitrides-a review", K. Kakimoto, L. Liu, H. Miyazawa, S. Nakano, D. Kashiwagi, X. J. Chen, and Y. Kangawa, Cryst. Res. Technol., 42, No. 12, 2007, 1185-1189
28. "Modeling of Segregation of Impurities in Directional Solidification Process for Multi-Crystalline Silicon", L.J.Liu, S. Nakano and K. Kakimoto, 2nd International Workshop on Science and Technology of Crystalline Si Solar Cells (CSSC), 2008, 52-59
29. "Effects of Crystal Rotation Rate on the Melt-Crystal Interface of a CZ-Si Crystal Growth in a Transverse Magnetic Field", Lijun Liu and K. Kakimoto, Journal of Crystal Growth, Vol. 310, 2008, 306-312
30. "Numerical analysis of the influence of tilt of crucibles on interface shape and fields of temperature and velocity in the unidirectional solidification process", Hiroaki Miyazawa, Lijun Liu, Sho Hisamatsu and Koichi Kakimoto, Journal of Crystal Growth, Vol. 310, 2008, 1034-1039

31. "Numerical analysis of influence of crucible shape on interface shape in a unidirectional solidification process", Hiroaki Miyazawa, Lijun Liu and Koichi Kakimoto, Journal of Crystal Growth, Vol.310, 2008, 1142-1147
32. "Phosphorus doping and hydrogen passivation of donors and defects in silicon nanowires synthesized by laser ablation", N. Fukata, J. Chen, T. Sekiguchi, S. Matsushita, T. Oshima, N. Uchida, K. Murakami, T. Tsurui, S. Ito, Appl. Phys. Lett., 90, 2007, 153117
33. "Hydrogen passivation of P donors and defects in P-doped silicon nanowires synthesized by laser ablation", N. Fukata, S. Matsushita, T. Tsurui, J. Chen, T. Sekiguchi, N. Uchida and K. Murakami, Physica B: Condensed Matter., 401-402, 2007, 523

セラミックス

- 1 . "Fabrication of Calcium Phosphate Films for Coating on Titanium Substrates Heated up to 773 K by RF Magnetron Sputtering and their Evaluations", K.Ueda, T.Narushima, T.Goto, M.Taira, and T.Katsube, Biomedical Materials, 2(2007)S160-S166.
- 2 . "In Vitro Evaluation of RF Magnetron-sputtered Calcium Phosphate Films on Titanium", K.Ueda, T.Narushima, T.Katsube, H.Kawamura and T.Goto , Key Engineering Materials, 352(2007), 305-309.
- 3 . "In vivo and in vitro Evaluations of Calcium Phosphate Films Coated on Titanium by RF Magnetron Sputtering", K.Ueda, T.Narushima, T.Goto, H.Nakagawa, H.Kawamura and T.Katsube, Ti-2007, Science and Technology, Proc.the 11th World Conference on Titanium(JIMIC-5), (2007), 1477-1480
- 4 . "ブラスト処理を施した Ti-6Al-4V 合金基板へのリン酸カルシウムコーティングと生体内評価,, : 粉体および粉末冶金", 成島尚之, 上田恭介, 後藤孝, 勝部朝之, 川村仁, 中川浩伸, 平雅之,印刷中

超伝導体

- 1 . "Superconducting symmetries of nano-structured anisotropic superconductors", M. Kato, T. Koyama, M. Machida, T. Ishida, Physica C, 2007, 460-462, 1436-1437
- 2 . "Quantum dynamics of the phase difference in an assembly of closed 0-π Josephson junctions made by d- and s-wave superconductors," T. Koyama, M. Machida, M. Kato, T. Ishida, Physica C, 2007, 460-462, 1305-1306
- 3 . "Effects of weak impurity potential on the quasi-particle states in high-Tc superconductors" M. Kato, K. Maki, Physica C, 2007, 460-462, 1031-1032
- 4 . "Artificial Spin System Using Composite Structures of d- and s-wave Superconductors"

- M.Kato, M. Hirayama, S. Nakajima, T.Koyama, M. Machida, T. Ishida, J. Magn. Magn. Mater., 310, 2007,495-497
- 5 . "Vortex Doping into Finite-Sized Superconducting Networks" T. Ishida, Y. Matsushita, M Shimizu, M.Kato, M.Hayashi, H.Ebisawa, K.Satoh, T.Yotsuya, O.Sato, International Journal of Modern Physics B, 21, 2007, 3177-3179
 - 6 . "Macroscopic quantum effect in intrinsic Josephson junctions containing magnetic flux" T. Koyama, M. Machida, M. Kato, T. Ishida, Physica C, 2007, 463-465, 985-988
 - 7 . "Numerical simulation for thermal relaxation of hot spot in MgB2 neutron detector" M.Nishikawa, M. Kato, T. Ishida, Physica C, 2007, 463-465, 1115-1118
 - 8 . "Quasi-particle spectrum of giant vortex states in a square nanoscopic superconducting plate" H. Suematsu, M. Kato, T. Koyama, M. Machida, T. Ishida, Physica C, 2007, 463-465, 262-265
 - 9 . "Penetrations And Dynamics of Vortices in Mesoscopic Superconducting Plates" O. Sato, M. Kato, Physica C, 2007, 463-465, 258-261
 10. "Anisotropic superconductors in nano-structures" M. Kato, T. Koyama, M. Machida, T. Ishida, Physica C, 2007, 463-465, 254-257
 11. "A study of superconducting transition of network models of multiply connected superconductors" O. sato and M. Kato, Physica C, in press
 12. "Phase Transition and Magnetization of Superconducting networks in a Magnetic Field" O. Sato and M. Kato, Physica C, in press
 13. "Simulation of logic gate using d-dot's" S. Nakajima, M. Kato, T. Koyama, M. Machida, T. Ishida and F. Nori, Physica C, in press
 14. "Three-directional FEM analyses of pre-bending effects for Nb3Sn composite wires", S. Murase, I. Okada, K. Kiyama, N. Nanato, S.B. Kim, H. Oguro, G. Nishijima, S. Awaji, K. Watanabe and M. Wake, IEEE Trans. Appl. Supercond., 17, 2007, 2676-2679
 15. "Conductance Spectroscopy of Spin-triplet Superconductivity" Y. Asano, Y. Tanaka, A.A.Golubov, S. Kashiwaya, Physical Review Letters, 99, 2007, 67005
 16. "Odd-frequency Pairs and Josephson Current through a Strong Ferromagnet" Y. Asano, Y. Tanaka, A.A.Golubov, Physical Review B, 76, 2007, 224525
 17. "Josephson π -state due to Spin-active Junction Interfaces" Y. Asano, et. al., International Journal of Modern Physics B, 21, 2007, 3395-3397
 18. "Josephson Current through a Half Metal" Y. Asano, et. al., Physica C, 463-465, 2007, 1327-1328
 19. "Anomalous Josephson Current by Odd Frequency Cooper Pairs" Y. Asano. et. al., Physica C, 460-462, 2007, 1327-1328
 20. "Ferromagnetic quantum critical fluctuations and anomalous coexistence of ferromagnetism and superconductivity in UCoGe revealed by Co-NMR and NQR

- studies", T.Ohta, Y.Nakai, Y.Ihara, K.Ishida, K.Deguchi, N.K.Sato, I.Satoh, J .Phys.Soc.Jpn. 77 (2008)023707-1-5.
21. "STM studies of electronic order in the underdoped surface of $\text{YBa}_2\text{Cu}_3\text{O}_y$ "T. Nishizaki, N. Kobayashi and M. Maki, Int. J. of Modern Physics B, 21, 2007, 3199-3201
 22. "One-dimensional electronic order in underdoped surface of $\text{YBa}_2\text{Cu}_3\text{O}_y$ studied by STM" T. Nishizaki, M. Maki and N. Kobayashi, The Journal of Physics and Chemistry of Solids (in press)

磁性、磁性材料

1. "Manganese(III,IV) and Manganese(III) Oxide Clusters Trapped by Copper(II) Complexes" S. Yamashita, T. Shiga, M. Kurashina, M. Nihei, H. Nojiri, H. Sawa, T. Kakiuchi, and H. Oshio, Inorg. Chem., 46, 2007, 3810-3812
2. "A Wheel-Shaped Single-Molecule Magnet of $[\text{MnII}_3\text{MnIII}_4]$: Quantum Tunneling of Magnetization under Static and Pulse Magnetic Fields" S. Koizumi, M. Nihei, T. Shiga, M. Nakano, H. Nojiri, R. Bircher, O. Waldmann, S. T. Ochsenbein, H. U. Gudel, F. F. Alonso, and H. Oshio, Chem. Eur. J. , 13, 2007, 8445-8453
3. "Thermodynamic properties and Elementary Excitations in Quantum Sine-Gordon Spin System KCuGaF_6 ", R. Morisaki, T. Ono, H. Tanaka, and H. Nojiri, J. Phys. Soc. Jpn., 76, 2007, 063706(1-4)
4. "Quantum Phase Transition of a Triangular Lattice Spin Tube and Edge Spin Effects" K. Okunishi, S. Yoshikawa, T. Sakai and S. Miyashita
5. "Exchange Coupling and Energy-Level Crossing in a Magnetic Chain $[\text{Dy}_2\text{Cu}_2]_n$ Evaluated by High-Frequency Electron Paramagnetic Resonance" A. Okazawa, T. Ishida, T. Nogami, and H. Nojiri, Chemistry of Materials, 20, 2008, in press
6. "Quantum Tunneling of Magnetization via Well-Defined Dy-Cu Exchange Coupling in a Ferrimagnetic High-Spin $[\text{Dy}_4\text{Cu}]$ Single-Molecule Magnet" S. Ueki, T. Ishida, T. Nogami, K.-Y. Choi, and H. Nojiri, Chemical Physics Letters, 440, 2007, 263-267
7. "Tetranuclear Heterometallic Cycle Dy_2Cu_2 and the Corresponding Polymer Showing Slow Relaxation of Magnetization Reorientation" S. Ueki, A. Okazawa, T. Ishida, T. Nogami, and H. Nojiri, Polyhedron, 26, 2007, 1970-1976
8. 根津 将"オキシマート架橋を有する 4f-3d 多核錯体の合成とその磁気的性質"修士論文, 2008
9. "Ac Susceptibility Studies of Spin Freezing Behavior in U_2CuSi_3 ", D. X. Li, S. Nimori, T. Yamamura, Y. Shiokawa, J. Appl. Phys., 103, 2008, 07B715 1-3
10. "Re-entrant Spin-glass Behavior in CeAu_2Si_2 ", D. X. Li, T. Yamamura, S. Nimori, Y. Shiokawa, J. Alloys and Compounds, 451, 2008, 461-463
11. "Magnetic Ordering in $(\text{Th}_x\text{U}_x)\text{Co}_2\text{X}_2$ (X=Ge, Si) Solid Solutions" T. Yamamura, D. X. Li, M. Kuznetz, Y. Shiokawa, J. Appl. Phys. , 103, 2008, 07A916 1-3

12. "Magnetization Study in Er₃Co₂Ge₄", S. Nimori, D. X. Li , J. Magn. Magn. Mater., 310, 2007, e572-e574
13. "NMR Studies of the Partial Disordered State in a Triangular Antiferromagnet UNi₄B", A. Oyamada, M. Kondo, K. Fukuoka, T. Itou, S. Maegawa, D. X. Li, Y. Haga,J. Phys.: Condens. Matter, 19, 2007, 145246 1-6
14. "Effect of High Pressure on the Magnetocaloric Properties of LaFe_{11.5}Si_{1.5}", L. Jia, J. R. Sun, B. G. Shen, D. X. Li, S. Nimori, J. Appl. Phys, 101, 2007, 106108 1-3
15. "Hybrid molecular material exhibiting single-molecule magnet behavior and molecular conductivity" H.Hiraga,H.Miyasaka,K.Nakata,T.Kajiwara,lnorg.Chem.,46,4007,9661 -9671
16. "Magnetically Induced Ferroelectricity in Multiferroic Compounds of RMn₂O₅"H. Kimura, S. Kobayashi, S. Wakimoto, Y. Noda, and K. Kohn, Ferroelectrics, 354,2007,77
17. "Field-Induced Dielectric and Magnetic Phase Transitions in Multiferroic Compounds of RMn₂O₅ (R =Er, Ho)"H. Kimura, Y. Kamada, Y. Noda, S.Wakimoto, K. Kaneko, N. Metoki, K. Kakurai, and K. Kohn,J. Korean Phys. Soc.,51,2007,870
18. "Temperature Dependences of Electric Polarization and Magnetic Ordering of TmMn₂O₅"M. Fukunaga, H. Kimura, Y. Noda, and K. Kohn,J. Korean Phys. Soc.,51,2007,768
19. "Simultaneous Measurements of Magnetic Neutron Diffraction, Electrical Polarization and Permittivity of Multiferroic ErMn₂O₅"M. Fukunaga, K. Nishihata, H. Kimura, Y. Noda, and K. Kohn,J. Phys. Soc. Jpn.,76,2007,74710
20. "Heteroepitaxial growth of ferromagnetic rutile Co_xTi_{1-x}O_{2-d} on GaN(0001)" ,Y. Hirose, T. Hitosugi, J. Kasai, Y. Furubayashi, K. Nakajima, T. Chikyow, S. Konuma, T. Shimada, and T. Hasegawa, Appl. Phys. Lett., 92, 2008, 42503
21. "Magnetic susceptibility studies of single crystalline CeNiGe₂ under high pressure", Masashi Ohashi, Gendo Oomi, Isamu Satoh, Journal of the physical society of Japan, 76, 2007, 114712
22. "CeAl₂における圧力誘起量子相転移の探索", 宮川英典, 大橋政司, 巨海玄道, 佐藤伊佐努, 小松原武美, 九州大学極低温センターだより, 創刊号, 2007, 8
23. "高濃度近藤物質 CeAu₂Si₂ の電子物性と圧力の効果",木村美央, 修士論文 (九州大学 大学院理学府) , 修士, 2007

複合材料

- 1 . "Crystal Structural Properties of Beta-Form Dicalcium Silicates based on Ab-initio Calculations"Ryoji Sakurada,Abhishek Kumar Singh,Masami Uzawa,Yoshiyuki Kawazoe,2007,Oral-7

非結晶、準結晶、液体状態

- 1 . "構造不規則型 Ce 合金の強相関電子物性", 雨海有佑, 室蘭工業大学博士学位論文, 博士, 2008
- 2 . "Does supercooled liquid Si have a density maximum?", M. Watanabe, M. Adachi, T. Morishita, K. Higuchi, H. Kobatake and H. Fukuyama, Faraday Discussions, 136, 2007, 279-286

薄膜、超微粒子

- 1 . "Electron transport in thin graphite films: Influence of microfabrication processes" Takuya Moriki, Akinobu Kanda, 他, Physica E, 40, 2007, 241-244
- 2 . "Gate-controlled superconducting proximity effect in ultrathin graphite films" T. Sato, T. Moriki, 他 Physica E, 40, 2008, 1495-1497
- 3 . "グラファイト超薄膜における超伝導近接効果" 佐藤崇, 修士論文
- 4 . "Inter-layer Screening Length to Electric Field in Thin Graphite Film" Hisao Miyazaki, Shunsuke Odaka 他 Applied Physics Express, 1, 2008, 034007-1-4
- 5 . "Coulomb Blockade Oscillations in Narrow Corrugated Graphite Ribbons" Hisao Miyazaki, Shunsuke Odaka 他, Applied Physics Express, 1, 2008, 024001-1-4
- 6 . "Coulomb Blockade Oscillations in Patterned Ultrathin Graphite Films" Shunsuke Odaka, Hisao Miyazaki 他, Jpn J. Appl. Phys., 47 · 1, 2008, 697-699
- 7 . "Low-temperature Formation of Nitrous Oxide, Mediated by Supported Tungsten Nanoclusters" 村上 純一、山口 渡, Journal of the American Chemical Society, 129-19, 2007, 6102-6103
- 8 . "Photodissociation Spectroscopy of the Chromium Trimer Ion" 間嶋、登野、寺寄、川添、近藤, The European Physical Journal D, 43, 2007, 23-26
- 9 . "Detection of OH Stretching Mode of CH₃OH Chemisorbed on Ni³⁺ and Ni⁴⁺ by Infrared Photodissociation Spectroscopy" 平林、大川、市橋、近藤、川添 The Journal of Physical Chemistry A, 111, 2007, 7664-7669
- 10 . "Preparation of TiO₂ coating on dental metal materials by plasma CVD", R. Marumori, T. Kimura, N. Hayashi, M. Yoda et al, Interface Oral Health Science 2007, 2nd, 2007, 349-350
- 11 . "プラズマ CVD 法による歯科金属材料への TiO₂ コーティング", 丸森亮太朗, 木村禎一, 後藤孝, 依田正信, 木村幸平, 粉体および粉末冶金, 博士, 55巻5号, 2008
- 12 . "Silicon on insulator for symmetry-converted growth" Y. Fujikawa, Y. Yamada-Takamura, G. Yoshikawa, T. Ono, M. Esashi, P. P. Zhang, M. G. Lagally, and T. Sakurai, Appl. Phys. Lett., 90, 2007, 243107

熱力学的性質、相図

- 1 . "Synthesis of Ca(AlH₄)₂ and its dehydrogenation reactions", N. Morisaku, I. Nakaya,

- H. Sawai, H. Hirate, Y.Z. Li, Y. Shinzato, H. Yukawa, M. Morinaga, S. Orimo, K. Ikeda, J. Alloys Compd., 印刷中
- 2 . "Synthesis and Decomposition of Pure Ca(AlH₄)₂", N. Morisaku, K. Komiya, Y.Z. Li, H. Yukawa, M. Morinaga, K. Ikeda, S. Orimo, Advanced Materials Research, 26-28, 2007, 869-872
 - 3 . "Synthesis and Dehydrogenation of M(AlH₄)₂ (M=Mg, Ca)", K. Komiya, N. Morisaku, Y. Shinzato, K. Ikeda, S. Orimo, Y. Ohki, K. Tatsumi, H. Yukawa, M. Morinaga, J. Alloys Compd., 446-447, 2007, 237-241
 - 4 . "Thermodynamical stability and electronic structure of a perovskite-type hydride, NaMgH₃", K. Ikeda, S. Kato, Y. Shinzato, N. Okuda, Y. Nakamori, A. Kitano, H. Yukawa, M. Morinaga, S. Orimo, J. Alloys Compd., 446-447, 2007, 162-165
 - 5 . "Formation region and hydrogen storage abilities of perovskite-type hydrides", K. Ikeda, Y. Kogure, Y. Nakamori, S. Orimo, Prog. Solid State Chem., 35, 2007, 329-337
 - 6 . "Raman scattering and lattice stability of NaAlH₄ and Na₃AlH₆", H. Yukawa, N. Morisaku, Y. Li, K. Komiya, R. Rong, Y. Shinzato, R. Sekine, M. Morinaga, J. Alloys Compd, 446-447, 2007, 242-247
 - 7 . "Perovskite-type hydrides – syntheses, structures and properties", K. Ikeda, T. Sato, S. Orimo, Int. J. Mater. Res., 99, 印刷中, 5-9
 - 8 . "Cu₇核錯体化合物の極低温スピニン物性"所のぞみ、山下智史、中澤康浩,阪大化学熱学レポート,2007,48-49

結晶成長、欠陥

- 1 . "Influence of seed/crystal interface shape on dislocation generation in Czochralski Si crystal growth" , T. Taishi, Y. Ohno, I. Yonenaga, K. Hoshikawa, Physica B , 401-402, 2007, 560-563
- 2 . "Segregation and precipitation of Ga and As during the Czochralski (CZ) growth in Ge", T. Taishi, Y. Murao, Y. Ohno, I. Yonenaga, Journal of Cryst Growth, 投稿準備中
- 3 . "Formation of multiple nanoscale twin boundaries that emit intense monochromatic light in indirect-gap AlGaAs epilayers", Y. Ohno, K. Shoda, T. Taishi, I. Yonenaga, and S. Takeda, Appl. Surf. Sci., in press, 2008
- 4 . "Electronic properties of nanoscale multiple twin boundaries in AlGaAs", Y. Ohno, N. Yamamoto, T. Taishi, I. Yonenaga, and S. Takeda, Physica B , 401-402, 2007, 270-274
- 5 . "Intense monochromatic light emission from multiple nanoscale twin boundaries in indirect-gap AlGaAs epilayers", Y. Ohno, N. Yamamoto, K. Shoda, and S. Takeda, Jpn. J. Appl. Phys. Part2. Express Letter, 46, 2007, 434-439
- 6 . "立体構造を有する Si 基板上への 4 族半導体ヘテロ構造の形成と電気伝導特性に関する研究"川口元氣,修士論文,2008

- 7 . "Structural and transport properties of strained Ge and SiGe grown on patterned substrate", G. Kawaguchi, K. Shimizu, K. Arimoto, M. Watanabe, K. Nakagawa, J. Yamanaka, N. Usami, K. Nakajima, K. Sawano and Y. Shiraki, J. Cryst. Growth (投稿予定)

超高温、プラズマ

- 1 . "Hydrogen retention properties of co-deposition under high-density plasmas in TRIAM-1M", Tokitani M, Miyamoto M, Tokunaga K, Fujiwara T , Yoshida N, Sakamoto M, Zushi H, Hanada K, Nagata S, Tsuchiya B, JOURNAL OF NUCLEAR MATERIALS, 367, 2007, 1487-1491
- 2 . "Retention properties of plasma particles in tungsten exposed to LHD divertor plasmas", Tokitani M, Miyamoto M, Tokunaga K, Fujiwara T, Yoshida N, Masuzaki S, Ashikawa N, Morisaki T, Shoji M, Komori A, Nagata SS, Tsuchiya B, JOURNAL OF NUCLEAR MATERIALS, 363, 2007, 443-447

照射、原子力関連（アクチノイド等）

- 1 . "Improvement in Crystal Quality of Epitaxial Ag and Cu Films Induced by Self-Ion Irradiation", K.Takahiro, K.Kawatsura, S.Nagata, B.Tsuchiya, S.Yamamoto, H.Naramoto, Surf.Coat.Technol., 201, 2007, 8273-8277
- 2 . "Tensile property of low activation vanadium alloy after liquid lithium exposure", Nagasaka, T., Muroga, T., Li, M., Hoelzer, D.T., Zinkle, S.J., Grossbeck, M.L., and Matsui, H , Fusion Engineering and Design, 81, 2006, 307-313
- 3 . "Biaxial thermal creep of two heats of V4Cr4Ti at 700 and 800 °C in a liquid lithium environment ", Meimei Li, T. Nagasaka, D.T. Hoelzer, M.L. Grossbeck, S.J. Zinkle, T. Muroga, K. Fukumoto, H. Matsui and M. Narui , Journal of Nuclear Materials, 367-370, 2007, 788-793

電気的、光学的性質

- 1 . "Hall effect in CoO₂ layers with a hexagonal structure "W.Koshibae,A.Oguri and S.Maekawa, Phys.Rev.B , 75, 2007, 205115
- 2 . "Magnetic correlations of the Hubbard model on frustrated lattices" N.Bulut, W. Koshibae and S.Maekawa, J.Mag.Mag.Mat., 310, 2007, 511-513
- 3 . "Theoretical study of the electronic structure in β-pyrochlore oxides" W.Koshobae, H.Murata and S.Maekawa, J.Mag.Mag.Mat., 310, 2007, 1005-1007
- 4 . "In-crystal and surface charge transport of electric-field induced carriers in organic single-crystal semiconductors" J. Takeya, J. Kato, K. Hara, M. Yamagishi, R. Hirahara, K. Yamada, Y. Nakazawa, S. Ikehata, K. Tsukagoshi, Y. Aoyagi, T. Takenobu, and Y. Iwasa, Phys. Rev. Lett., 98, 2007, 196804

- 5 . "Very high mobility organic single crystal transistors with in-crystal conduction channels"J. Takeya, M. Yamagishi, Y. Tominari, R. Hirahara, Y. Nakazawa, T. Nishikawa, T. Kawase, T. Shimoda, and S. Ogawa,Appl. Phys. Lett.,90,2007,102120
- 6 . "Single-crystal field-effect transistors of benzoannulated fused oligothiophenes and oligoselenophenes"K. Yamada, T. Okamoto, K. Kudoh, S. Yamaguchi, and J. Takeya,Appl. Phys. Lett.,90,2007,72102
- 7 . "Effect of metal electrodes on rubrene single-crystal transistors"T. Takenobu, T. Takahashi, J. Takeya, and Y Iwasa,Appl. Phys. Lett.,90,2007,13507
- 8 . "High-mobility double-gate organic single-crystal transistors with organic crystal gate insulators" M. Yamagishi, J. Takeya, Y. Tominari, Y. Nakazawa, T. Kuroda, S. Ikehata, M. Uno, T. Nishikawa, and T. Kawase,Appl. Phys. Lett.,90,2007,182117
- 9 . "Orientation control of pentacene molecules and transport anisotropy of the thin film transistors by photo-aligned polyimide film"Dong Guo, K. Sakamoto, K. Miki, S. Ikeda and K. Saiki, Applied Physics Letters,90,2007,102117
10. "Light exposure dependence of molecular orientation of glassy polyfluorene layers formed on photo-aligned polyimide films"K.Sakamoto, K..Usami, and K. Miki.,Colloides and Surfaces B-Biointerfaces,56,2007,260
11. "Electronic and transport properties of bismuth nanolines for applications in molecular electronics"R.V. Belosludov, A.A. Farajian, H. Mizuseki, K. Miki and Y. Kawazoe,Physical Review B,75,2007,113411
12. "Very thin photoalignment films for liquid crystalline conjugated polymers: Application to polarized light-emitting diodes"K. Sakamoto, K. Miki, M. Misaki, K. Sakaguchi, M. Chikamatsu, and R. AzumiApplied Physics Letters,91,2007,183509
13. "Exciton transfer between localized states in ZnO quantum well structures", T. Makino, K. Saito, M. Kawasaki, Superlattices Microstruct, 42(1), 2007, 206-211

NMR、メスバウアー

- 1 . "NMR studies of ^{55}Mn in amorphous Cex Mn100-x alloys",H.Niki, K.Okamura, M.Yogi, Y.Amakai, H.Takano, S.Murayama and Y.Obi, physica B : Condensed Matter, 403, 2008, 930

表面、界面、トンネル現象、触媒

- 1 . "X-ray photoelectron spectroscopic studies on phase identification and quantification of nickel aluminides" N. Ohtsu, M. Oku, T. Shishido, K. Wagatsuma, Applied Surface Science, 253, 2007, 8712-8717
- 2 . "Oxidation behavior of NiAl alloy at low temperatures" N. Ohtsu, M. Oku, K. Obara, S. Ito, T. Shishido, K. Wagatsuma, Surface Interface Analysis, 39, 2007, 528-532
- 3 . "Output properties of C60 field-effect transistors with Au electrodes modified by

- 1-alkanethiols" T.Nagano,M.Tsutsui,R.Nouchi,N.Kawasaki,Y.Ohta,Y.Kubozono,N.Takahashi and A.Fujiwara,J.phys.Chem.C111,2007,7211-7217
- 4 . "Hole-injection barrier in pentacene field-effect transistor with Au electrodes modified by C₁₆H₃₃SH" Naoko Kawasaki, Yohei Ohta, Yoshihiro Kubozono, and Akihiko Fujiwara, Appl.Phys.Lett. 91, 2007, 123518-1, 123518-3
 - 5 . "Transport properties of field-effect transistors with thin films of C₇₆ and its electronic structure" Hiroyuki Sugiyama, Takayuki Nagano, Ryo Nouchi, Naoko Kawasaki, Yohei Ohta, Kumiko Imai, Michiko Tsutsui, Yoshihiro Kubozono, and Akihiko Fujiwara, 449, 2007, 160-164
 - 6 . "Transport properties of field-effect transistor with Langmuir-Blodgett films of C₆₀ dendrimer and estimation of impurity levels" N.Kawasaki, T.Nagano, Y.Kubozono, S.Sako, Y.Morimoto, Y.Takaguchi, A.Fujiwara, C.-C.Chu, T.Imae, Appl.Phys.Lett., 91, 2007, 243515-1-243515-3
 - 7 . "STM 探針からのキャリア注入による C₆₀ のポリマー/モノマー化に関する研究" 久保園芳博, 表面科学, 28, 2007, 659-664
 - 8 . "走査トンネル顕微鏡によるフラーレンのナノまにびゅレーション" 久保園芳博, 固体物理, 43, 2008, 9-20
 - 9 . "An investigation of correlation between transport characteristics and trap states in n-channel organic field-effect transistors" Naoko Kawasaki, Yohei Ohta, Yoshihiro Kubozono, Atsushi Konishi, Akihiko Fujiwara, Appl.Phys.Lett., 2008, in press
 10. "Etching-Enhanced Surface Stress Relaxation during Initial Ozone Oxidation" T. Narushima, M. Kitajima, A. Nakamura, A. Kurokawa, S. Ichimura and K. Miki, Surf. Sci., 601, 2007, 1384-1388
 11. "Al nanoclusterarrays on Si(111)-7x7 surfaces: Formation process and interactions among clusters" Run-Wei Li, Hongjun Liu, J.H.G. Owen, Y. Wakayama, K. Miki and H.W. Yoem, Physical Review B, 76, 2007, 75418
 12. "A scanning tunnelling microscopy investigation into the initial stages of copper phthalocyanine growth on passivated silicon surfaces" J. Gardener, J.H.G. Owen, K. Miki and S. Heutz, Surf. Sci., 602, 2008, 843-851

電気化学的性質、腐食

- 1 . "Nb₂O₅ Deposit on Aluminium from NbCl₅-used Sol and Anodizing of Nb₂O₅-coated Al", S. Koyama, T. Kikuchi, M. Sakairi, H. Takahashi and S. Nagata, Electrochemistry, 修士, 75, 2007, 573

機械的性質

- 1 . "In Situ X-Ray Analysis of Mechanism of Nonlinear Super Elastic Behavior of Ti-Nb-Ta-Zr System Beta-Type Titanium Alloy for Biomedical Applications", M.

- Niinomi, T. Akahori and M. Nakai, Materials Science & Engineering C, C28, 2008, 406-413
- 2 . "Mechanical Properties of Ti-Cr System Alloys Prepared by Powder Metallurgy", Y.Murayama, A.Okubo and H.Kimura, Ti-2007 Science and Technology ,edited by M.Niinomi, S.Akiyama, M.Ikeda, M.Hagiwara,K.Maruyama, The Japan Institute of Metals(2007), pp.1489-1492

分光、分析

- 1 . "Two-dimensional observation of emission spectra excited from laser induced plasmas and the application to emission spectrometric analysis" C. Kitaoka, K. Wagatsuma, Analytical Sciences, 修士, 23, 2007, 1261-1265
- 2 . "Emission characteristics of nickel ionic lines excited by reduced-pressure laser-induced plasmas using argon, krypton, nitrogen, and air as the plasma gas", S. Nakamura, K. Wagatsuma, Spectrochimca Acta Part B, 修士, 62, 2007, 1303-1310
- 3 . "Emission and sputtering characteristics of Ne-Ar mixed gas glow discharge plasmas",H. Park, M. Tsukiji, K. Wagatsuma, S.C. Lee,Analytical Sciences, 23, 2007, 1133-1136
- 4 . "Ultrafast dynamics of high-density carriers in ZnO nano-multipods studied by femtosecond optical Kerr gate spectroscopy", Shingo Mitsubori, Sang Hyun Lee, Takafumi Yao , Ikufumi Katayama and Jun Takeda, 投稿準備中、phys. stat. solid. C
- 5 . "Photoemission study of TiO₂/VO₂ interfaces" ,K. Maekawa, M. Takizawa, H. Wadati, T. Yoshida, A. Fujimori, H. Kumigashira, M. Oshima, Y. Muraoka, Y. Nagao, and Z. Hiroi, Phys. Rev. B, 76, 2007, 115121
- 6 . "High-throughput characterization of metal electrode performance for electric-field-induced resistance switching in metal-Pr_{0.7}Ca_{0.3}MnO₃-metal structures", K. Tsubouchi, I. Ohkubo, H. Kumigashira, M. Oshima, Y. Matsumoto, K. Itaka, and H. Koinuma,Adv. Matter., 19, 2007, 1711-1713
- 7 . "Magnetic domain structure of technically patterned ferromagnet La_{1-x}S_xMnO₃ thin film",M. Kubota, T. Taniuchi, K. Yasuhara, H. Kumigashira, K. Ono, M. Oshima, H. Okazaki, T. Wakita, N. Yokoya, H. Akinaga, M. Lippmaa, M. Kawasaki, and H. Koinuma,Appl. Phys. Lett., 91, 2007, 182503
- 8 . "In-situ Photoemission Study of Pr_{1-x}C_xMnO₃ Epitaxial Thin Films with Suppressed Charge Fluctuations", H. Wadati, A. Maniwa, A. Chikamatsu, I. Ohkubo, H. Kumigashira, M. Oshima, A. Fujimori, M. Lippmaa, M. Kawasaki, and H. Koinuma, Phys. Rev. Lett., 100, 2008, 26402
- 9 . "Interfacial electronic structure of SrTiO₃/SrRuO₃ heterojunctions studied by in situ photoemission spectroscopy",H. Kumigashira, M. Minohara, M. Takizawa, A. Fujimori, D. Toyota, I. Ohkubo, M. Oshima, M. Lippmaa, and M. Kawasaki, Appl.

中性子、電子、イオン、X線散乱

- 1 . "Experimental and computational studies on solvent-free rare-earth metal borohydrides R(BH₄)₃ (R=Y,Dy, and Gd)", T. Sato, K. Miwa, Y. Nakamori, K. Ohoyama, H.W. Li, T. Noritake, M. Aoki, S. Towata, S. Orimo, Phys. Rev. B, 77, 2008, 104114(1)-104114(8)
- 2 . "Defect structure of Ta- and Al- doped Zn₂TiO₄ showing oxide ion conduction via cation vacancy", S. Takai, H. Okada, K. Ohoyama, T. Esaka , J. Ceramic Society of Japan , 116, 2008, 525-529.
- 3 . " Scanning Wide-Angle Neutron Diffraction and its Application to Local Structures Investigations in Stainless Steel", Kenji Ohoyama, Kazuyuki Isawa,Kazuyoshi Yamada,Jpn.J. Appl. Phys.,46, 2007, 7925-7931.
- 4 . "Structure of glass and liquid studied with a conical nozzle levitation and diffraction technique", A. Mizuno, S. Kohara S. Matsumura, M. Watanabe, J.K.R.Weber, and M. Takata, Materials Science Forum, 539-543, 2007, 2012-2017
- 5 . "Neutron Holography Measurement Using Multi Array Detector" Kouichi Hayashi, Kenji Ohoyama, Shinichi Orimo, Yuko Nakamori, Hideyuki Takahashi1 and Kaoru Shibata, Japanese Journal of Applied Physics, 47,4, 2007, 印刷中
- 6 . "Momentum dependent charge excitations of two-leg ladder:resonant inelastic x-ray scattering of (La,Sr,Ca)₁₄Cu₂₄O₄₁" K.Ishii, K.Tsutsui, T.Tohyama, T.Inami, J.Mizuki, Y.Murakami, Y.Endoh, S.Maekawa, K.Kudo, Y.Koike, Physical Review B, 76 • 4,2007,045124
- 7 . "Momentum-resolved charge excitations in high-T_c cuprates studied by resonant inelastic x-ray scattering" K.Ishii, M.Hoesch, T.Inami, K.Kuzushita, K.Ohwada, M.Tsubota, Y.Murakami, J.Mizuki, Y.Endoh, K.,Journal of Physics and Chemistry of Solids,2008,accepted
- 8 . "Neutron scattering study of phonon dynamics on type-I Clathrate Ba₈Ga₁₆Ge₃₀" C. H. Lee, H. Yoshizawa, M. A. Avila, I. Hase, K. Kihou and T. Takabatake, J. Phys.: Conf. Ser., 92, 2007, 12169
- 9 . "Phonon Dynamics of Type-I Clathrate Sr₈Ga₁₆Ge₃₀ Studied by Inelastic Neutron Scattering" C. H. Lee, H. Yoshizawa, M. A. Avila, I. Hase, K. Kihou and T. Takabatake, J. Phys. Soc. Jpn. 77, 260 (2008) Suppl. A, 77, 2008, 260

計算機

- 1 . "Monte Carlo calculation of second and third virial coefficients of small-scale comb polymers on lattice" K.Shida,A.Kasuya,K.Ohno,Y.Kawazoe, and Y.Nakamura, Journal of Chemical Physics, 126 • 15, 2007, 15490;1-7

- 2 . "Nano-and Micromaterials"K.Ohno,M.Tanaka,J.Takeda, and Y.Nakamura, Springer Series on Advances in Materials Research,9,2008,1-337
- 3 . "Ab-initio GW calculations using an all-electron approach"S.Ishii,K.Ohno, and Y.Kawazoe, Springer Series on Advances in Materials Research, 9,2008, 171-188 Chapter6
- 4 . "Thermodynamic Properties of Materials Using Lattice -Gas Models with Renormalized Potentials"R.Sahara,H.Mizuseki,K.Ohno, and Y.Kawazoe, Springer Series on Advances in Materials Research,9,2008,275-290 Chapter11
- 5 . "Electronic states and metal-insulator transition in the triangular lattice d-p model for layered cobaltates "Yoshiaki Ōno,Physica C,2007,460-462,1047-1048
- 6 . "Effect of ferromagnetic spin fluctuations on the electronic states in NaxCoO₂ based on two-dimensional triangular lattice 11-band d-p model"Yuki Yanagi and Yoshiaki Ōno,J. of Phys.Chem.Sol.in press
- 7 . "Antiferromagnetic, Charge and Orbital Ordered States of Na0.5CoO₂ Based on Two-Dimensional Triangular Lattice d-p Model" Youichi Yamakawa and Yoshiaki Ōno,J. Phys.Chem.Sol.in press
- 8 . "Enhancement of phonon effects in photoexcited states of one-dimensional Mott insulators" H. Matsueda, A. Ando, T. Tohyama, S. Maekawa, Physical Review B, 2008, 印刷中
- 9 . "Formation and atomic structure of boron nitride nanotubes with a cup-stacked structure" T. Oku, N. Koi, K. Suganuma, R. V. Belosludov and Y. Kawazoe, Solid State Communications,143,2007,331-336

国際会議・国内会議・シンポジウム等における発表

金属、合金

1. "ラーベス相 HoMn_2 水素化物の脱水素化に伴う結晶構造変化",牧原義一, 中森裕子, 折茂慎一,日本金属学会,岐阜大学,2007・9
2. "水素雰囲気中での時効処理が及ぼす Cu-Ti 合金の機械的・電気的特性への影響",西田智哉, 沼倉宏, 千星聰,銅及び銅合金技術研究会,日本伸銅協会,関西大学,2007/11
3. "Microstructure and electrical conductivity of Cu-Ti alloys aged in hydrogen atmosphere",S. Semboshi, R. Gemma, T. Al-Kassab, A. Pundt, R. Kirchheim, Deutsche Physikalische Gesellschaft,Berlin,2008/2
4. "窒素添加した Ni フリー生体用 Co-29Cr-6Mo 合金の冷間圧延",森真奈美, 黒須信吾, 野村直之, 千葉晶彦,日本金属学会秋季講演大会 (2007),岐阜大学,2007/9/21
5. "窒素添加した Ni フリー生体用 Co-29Cr-6Mo 加工材に及ぼす時効熱処理の影響",森真奈美, 黒須信吾, 野村直之, 松本洋明, 千葉晶彦,日本金属学会春季講演大会 (2008) , 武藏工業大学,2008/3/28
6. "Development of Fabrication Process of Porous Titanium and Polymethylmethacrylate (PMMA) Composite Biomaterial",M. Nakai, M. Niinomi, T. Akahori, Y. Shinozaki, H. Toda, S. Itsuno, N. Haraguchi, Y. Itoh, T. Ogasawara and T. Onishi,11th World Conference on Titanium (Ti-2007),Kyoto,2007/6
7. "Mechanical Properties of Porous Titanium Filled with Polymethylmethacrylate for Biomedical Applications",M. Nakai, M. Niinomi, T. Akahori, Y. Shinozaki, H. Toda, S. Itsuno, N. Haraguchi, Y. Itoh, T. Ogasawara and T. Onishi,International Conference on Advanced Technology in Experimental Mechanics 2007 (ATEM'07),Fukuoka,2007/9
8. "Improvement in Mechanical Properties of Porous Titanium by Biomedical Polymer Filling",M. Nakai, M. Niinomi, T. Akahori, Y. Shinozaki, S. Itsuno, N. Haraguchi, Y. Itoh, T. Ogasawara and T. Onishi,5th International Conference on Porous Metals and Metallic Foams (MetFoam2007),Montreal,2007/9
9. "多孔質純チタンの力学的性質に及ぼす医療用高分子充填の影響",仲井正昭, 新家光雄, 赤堀俊和, 山野井秀明, 篠崎洋輔, 戸田裕之, 伊津野真一, 原口直樹, 伊藤芳典, 小笠原忠司, 大西隆,軽金属学会第 112 回春期大会,富山国際会議場,2007/5
10. "医療用高分子を充填した生体用多孔質純チタンの力学的特性",山野井秀明, 新家光雄, 赤堀俊和, 仲井正昭, 伊津野真一, 原口直樹, 伊藤芳典, 小笠原忠司, 大西隆,日本金属学会 2007 年秋期 (第 141 回) 大会,岐阜大学,2007/9
11. "モノマー含浸・重合による多孔質純チタン/ポリメタクリル酸メチル複合体の作製と力学的特性評価",仲井正昭, 新家光雄, 赤堀俊和, 山野井秀明, 伊津野真一, 原口直樹, 伊藤芳典, 小笠原忠司, 大西隆,第 29 回日本バイオマテリアル学会大会,千里ライフサイエ

ンスセンター,2007/11

12. "生体用多孔質純チタン/医療用高分子複合体の諸特性",山野井秀明, 新家光雄, 赤堀俊和, 仲井正昭, 伊津野真一, 原口直樹, 伊藤芳典, 小笠原忠司, 大西隆,軽金属学会第 113 回秋期大会,千葉大学,2007/11
13. "生体用多孔質純チタンの引張特性に及ぼす医療用高分子充填の影響",仲井正昭, 新家光雄, 赤堀俊和, 山野井秀明, 伊津野真一, 原口直樹, 伊藤芳典, 小笠原忠司, 大西隆,粉体粉末冶金協会平成 19 年度秋季大会,京都工芸繊維大学,2007/11
14. "医療用高分子を充填した生体用多孔質純チタンの引張および圧縮特性",仲井正昭, 新家光雄, 赤堀俊和, 山野井秀明, 伊津野真一, 原口直樹, 伊藤芳典, 小笠原忠司, 大西隆, 進藤拓,日本金属学会 2008 年春季 (第 142 回) 大会,武藏工業大学,2008/3

半導体

1. "Hole density and strain dependencies of hole effective mass in compressively strained Ge channel structures",K. Sawano, Y. Kunishi, K. Toyama, T. Okamoto N. Usami, K. Nakagawa, Y. Shiraki,13th International Conference on Modulated Semiconductor Structures (MSS13),MO-PM65,Genova, Italy,2007/7
2. "Enhanced light emission from Ge quantum dots in microdisks",J. S. Xia, Koudai Nemoto, Yuta Ikegami, Noritaka Usami, and Yasuhiro Shiraki,The 20th IEEE/LEOS Annual Meeting (LEOS'07),WDD3,Florida, USA,2007/11
3. "Enhanced light-emission from crystalline silicon in microdisk resonators",Jinsong Xia, Koudai Nemoto, Yuta Ikegami, Yasushi Nakata, Yasuhiro Shiraki,the 4th IEEE/LEOS Group Four Photonics Conference (GFP'07),WP10,tokyo, Japan,2007/9
4. "Room-temperature resonant light-emission from Ge self-assembled dots in silicon microring resonators",夏金松, 岩本敏, 宇佐美德隆, 富永隆一郎, 荒川泰彦, 白木靖寛,2008 年春季第 55 回応用物理学会, 28a-ZX-10,千葉、日本,2008/3
5. "イオン注入法による高 Ge 組成薄膜緩和 SiGe 層の開発", 星裕介, 澤野憲太郎, 平岡良康, 宇佐美德隆, 中川清和, 白木靖寛, 2008 年春季第 55 回応用物理学会, 27p-F-2, 千葉、日本, 2008/3
6. "Direct correlation between the internal quantum efficiency and photoluminescence lifetime in undoped ZnO epilayers grown on Zn-polar ZnO substrates by plasma-assisted molecular beam epitaxy",D. Takamizu, Y. Nishimoto, S. Akasaka, H. Yuji, K. Tamura, K. Nakahara, T. Tanabe, H. Takasu, M. Kawasaki, T. Onuma and S. F. Chichibu,International Symposium on Semiconductor Light Emitting Devices,M1,Phoenix, AZ USA,April 27-May 2, 2008
7. "MgxZn_{1-x}O epitaxial films grown on ZnO substrates by molecular beam epitaxy",H.Yuji, K.Nakahara, K.Tamura, S.Akasaka, A.Sasaki, T.Tanabe, H.Takasu, T.Onuma, S.F.Chichibu, A.Tsukazaki, A.Ohtomo, and M.Kawasaki,The Society of Photo-Optical Instrumentation Engineers (SPIE) Photonics West

- 2008,No.6895-10,San Jose,CA USA,Jan.20-23 (2008)
- 8 . "Homoepitaxial MgZnO grown by molecular beam epitaxy toward ultraviolet light-emitting diodes",K.Nakahara, H.Yuji, K.Tamura, S.Akasaka, A.Sasaki, Y.Nishimoto, D.Takamizu, T.Fujii, T.Tanabe, H.Takasu, T.Onuma, S.F.Chichibu, A.Tsukazaki, A.Ohtomo, and M.Kawasaki,The Society of Photo-Optical Instrumentation Engineers (SPIE) Photonics West 2008,No.6895-17,San Jose,CA USA,Jan.20-23 (2008)
 - 9 . "分子線エピタキシー法で成長した Zn 極性 ZnO 基板上 ZnO 膜の時間分解フォトルミネッセンス",高水大樹, 田村謙太郎, 西本宜央, 佐々木 敦, 赤坂俊輔, 湯地洋行, 中原健, 尾沼猛儀, 川崎雅司, 秩父重英,2008 年春季応用物理学会シンポジウム,27a-ZJ-3,日本大学理工学部,3 月 27 日 (2007 年)
 10. "分子線エピタキシー法(MBE)による Zn 極性面 ZnO 基板上 MgZnO/ZnO ヘテロ構造",中原 健, 湯地洋行, 赤坂俊輔, 田村謙太郎, 西本宜央, 高水大樹, 佐々木 敦, 藤井哲雄, 田辺哲弘, 高須秀視, 塚崎 敦, 大友 明, 天池弘明, 尾沼猛儀, 秩父重英, 川崎雅司,2008 年春季応用物理学会シンポジウム,28a-ZJ-8,日本大学理工学部,3 月 28 日 (2007 年)
 11. "有機トランジスタの学理と応用",岩佐 義宏他,東北大学金属材料研究所研究会 (共催 : 科研費特定領域研究「新しい環境下における分子性導体の特異な機能の探索」),東北大学金属材料研究所／秋保温泉,2007 年 6 月 28 日(木)~30 日(土)
 - 12 . "Suppression of short-channel effect in top-contact pentacene thin film transistor",Kazuhiro Tsukagoshi, Fumihiro Fujimori, Takeo Minari, Tetsuhiko Miyadera, Tetze Hamano, and Yoshinobu Aoyagi, 49th Electronic Materials Conference (EMC 2007),Indiana, USA,2007/6
 13. "Development of A New Method for Studying Microscopic Properties of Organic Devices by Electron Spin Resonance",K. Marumoto,A Joint Conference of the International Symposium on Electron Spin Science and the 46th Annual Meeting of the Society of Electron Spin Science and Technology (ISESS-SEST2007),Shizuoka,Japan,2007 · 11
 14. "有機電界効果デバイスの ESR による評価",丸本一弘,秋季 第 68 回応用物理学会学術講演会、シンポジウム「有機デバイスの物性評価と有機 FET の新展開 (基礎編)」,6p-D-8,北海道工業大学,2007 年 9 月 丸本一弘、坂本知隆、伊東裕、黒田新一
 15. "両極性有機電界効果デバイスの電子スピニ共鳴",丸本一弘、坂本知隆、伊東裕、黒田新一,2007 年秋季 第 68 回応用物理学会学術講演会,7a-D-1,北海道工業大学、札幌,2007 · 9
 16. "有機デバイスにおける電界注入スピノの ESR 観測",丸本一弘,日本磁気学会第 18 回「スピノエレクトロニクス専門研究会」,中央大学、東京,2007 · 12
 17. "分子性デバイスにおける両極性電界注入キャリアの ESR 研究",丸本一弘、新井徳道、後藤博正、坂本知隆、渡辺峻一郎、伊東裕、黒田新一、竹延大志、岩佐義宏,分子研研究

会「先端的 ESR 手法による分子性物質の新機能性探索」,岡崎コンファレンスセンター、岡崎,2007・12

18. "ルブレン単結晶トランジスタの電子スピントン共鳴",丸本一弘、新井徳道、後藤博正、富成征弘、竹谷純一、田中久暁、黒田新一、竹延大志、岩佐義宏,日本物理学会第 63 回年次大会,25pTG-7,近畿大学、東大阪,2008・3
19. "ルブレン単結晶 FET の ESR による評価",丸本一弘、新井徳道、後藤博正、富成征弘、竹谷純一、田中久暁、黒田新一、竹延大志、岩佐義宏,2008 年春季 第 55 回応用物理学関係連合講演会,28a-ZE-6,日本大学、船橋,2008・3
20. "Development of thermoelectric material Ba₈Al_xGa_yGe₃₀",T.Uemura, K. Akai, K. Kishimoto, K. Koga, H. Takagi, T. Ko,ACCMS-4,Korea,2007. 9
21. "First-principles electronic structure study on nano-cage",K. Akai, K. Kishimoto, K. Koga, H. Takagi, T. Koyanagi, M.,Korea,ACCMS-42007. 9
22. "Transport properties of semiconducting group-IV based",T. Eto, T. Uemura, T. Kishimoto, K. Koga, K. Akai, H. Taka,ACCMS-VO,Sendai,2008, 1 月
23. "希薄磁性半導体 Cd_{0.6}Mn_{0.4}Te の Mn-K 蛍光 X 線ホログラフィー",八方直久、中村邦彦、林好一、細川伸也,応用物理学会・2007 年春季(第 55 回)学術講演会,千葉・船橋,2008・3

超伝導体

1. "マイスナー効果に及ぼす超伝導体形状の影響",加藤龍蔵,日本物理学会,24a P S – 1 1 7 ,近畿大学,2008 年 3 月
2. "Conductance Spectroscopy of Spin-triplet Superconductors", Y. Asano, MTI International Argonne Fall Workshop on Nanophysics VII, Sinchu, 2007/12
3. "UCoGe における強磁性と超伝導の共存・競合",坂聖光、出口和彦、佐藤憲昭、佐藤伊佐務,日本物理学会,近畿大学,2008 年 3 日
4. "遮歴強磁性体 UCoGe における Co-NMR/NQR(□)",大田哲也、石田憲二、中井祐介、井原慶彦、出口和彦、佐藤憲昭、佐藤伊佐務,日本物理学会,近畿大学,2008 年 3 月
5. "逼歴強磁性体 UCoGo における Co-NMR/NQR(II)",大田哲也、石田憲二、中井祐介、井原慶彦、出口和彦、佐藤憲昭、佐藤伊佐務,日本物理学会、近畿大学、2008 年 3 月

磁性、磁性材料

1. "Quantum Tunneling Dynamics of Spin Reorientation inSingle Molecule Magnet",H. Oshio,4th FIMS Symposium,Tsukuba,Japan,May, 2007
2. "Quantum Tunneling Dynamics of Spin Reorientation inSingle Molecule Magnet",H. Oshio,Japan-USA Joint Symposium on Chemistry of CoordinationSpace, Chicago, USA, Jun, 2007
3. "Towards Novel Spin Tubes and Related Compounds",H. Oshio,Workshop on quantum spin tube-recent progress and futureprospects, IFACM,Sendai, Japan,July,

2007

4. "Quantum Tunneling Dynamics of Spin Reorientation in a Wheel Single Molecule Magnet", H. Oshio, 10th Eurasia Conference on Chemical Sciences, Manila, Philippin, Jan., 2008
5. "Single Molecule Magnets and their Quantum Tunneling Dynamics of Spin Riorientation", H. Oshio, India-Japan Joint Cooperative Science, Recent Trends in Molecular Material Research, Kovalam, India, Jan., 2008
6. "Manganese-Terbium Single-Molecule Magnets", T. Shiga, H. Nogiri, H. Oshio, ISIMS-2008, P-37, Tsukuba, Japan, May, 2008
7. "3本鎖スピニチュープの磁化過程", 坂井徹, 大塚雄一, 佐藤正寛, 奥西巧一, 岡本満美, 日本物理学会秋季大会, 北海道大学, 2007. 9
8. "High-Field EPR Study on a 4f-3d Single-ChainMagnet [Dy₂Cu₂]n", A. Okazawa, T. Ishida, T. Nogami, and H. Nogiri, Asian Conference on Coordination Chemistry (ACCC 2007), Okazaki, 29 July - 2 Aug.,
9. "グリオキシム架橋した[Dy₂Cu₂]型单鎖磁石の高磁場 ESR の研究", 岡澤 厚、石田尚行、野上 隆、野尻浩之, 第一回分子科学討論会, 仙台, 9月 27-30 日
10. "Exchange Coupling and Energy-Level Structure of 4f-3d Heterometallic Single-Molecule Magnets by High-Frequency EPR", A. Okazawa, T. Nogami, H. Nogiri, and T. Ishida, A Joint Conference of the International Symposium on Electron Spin Science and the 46th Annual Meeting of the Society of Electron Spin Science and Technology (ISESS-SEST2007), Shizuoka, 6 - 9 Nov.,
11. "直線三核型 4f-3d ヘテロ金属錯体单分子磁石における交換相互作用の決定", 石田尚行、岡澤 厚、渡邊 亮、野上 隆、野尻浩之, 日本化学会第 88 春季年会, 東京, 3 月 26-30 日
12. "オキシマート架橋を用いた 4f-3d 錯体の磁性と新規单分子磁石の構築", 根津 将、石田 尚行、野上 隆、野尻浩之, 日本化学会第 88 春季年会, 東京, 3 月 26-30 日
13. "二次元混合スピニ系 BIPNNBNO の ESR", 神澤恒毅, 細越裕子, 西原禎文, 野尻浩之, 分子研研究会－先端的 ESR 手法による分子性物質の新機能性探索－, 分子科学研究所, 2007.12.
14. "RE-ENTRANT SPIN-GLASS BEHAVIOUR IN CeAu₂Si₂", 李德新、二森茂樹、塙川佳伸, 日本物理学会第 2007 年春季大会, 鹿児島大学, 2007/3
15. "Ac susceptibility studies of the spin freezing behavior in U₂CuSi₃", 李德新、二森茂樹、塙川佳伸, 日本物理学会第 62 回年次大会, 北海道大学, 2007/9
16. "Mn(III)-Ni(II)フェリ磁性單一次元鎖磁石の磁気挙動", 宮坂等, 日本物理学会秋季大会, 北海道大学, 2007. 9
17. "マルチフェロイック RMn₂O₅ の格子不整合磁気秩序相における磁気構造と誘電性", 木村宏之, 西畠敬介, 福永守, 野田幸男, 近圭一郎, 日本物理学会, 北海道大学, 2007.9
18. "Magnetic-order-induced ferroelectricity in multiferroic", 木村宏之, 東工業大学国際シ

ンポジウム, 東京工業大, 2008.1

19. "マルチフェロイック物質 HoMn₂O₅ の強誘電性と磁気秩序の中性子による研究", 木村宏之, 日本物理学会, 近畿大学, 2008.3
20. "Ferromagnetic Rutile Co_xTi_{1-x}O₂ Heteroepitaxy on Wurtzite GaN and ZnO", Y, Hirose, T. Hitosugi, J. Kasai, Y. Furubayashi, K. Nakajima, T., The 34th International Symposium on Compound Semiconduct, MoC P39, Kyoto, 2007, Oct.
21. "Insulator - ferromagnetic metal transition in anatase Fe:TiO₂", Enju Sakai, Yasushi Hirose, Taro Hitosugi, Toshihiro Shimada, American Physical Society March meeting 2007, Y33.00002, New Orleans, 2008, March
22. "Fe:TiO₂ の酸素欠損誘起強磁性", 坂井延寿, 一杉太郎, 島田敏宏, 広瀬 靖, 長谷川哲也, 第 55 回応用物理学会, 29p-L-6, 日本大学船橋, 2008, March
23. "強磁性 ErAl₂ における Ce 置換効果 II", 宮川英典, 大橋政司, 巨海玄道, 佐藤佐務, 小松原武美, 日本物理学会第 62 回年次大会, 22pPSB-62, 北海道大学, 2007.9

複合材料

1. "Crystal Structure Analysis of Dicalcium Silicates by Ab-initio Calculation, 32nd Conference on Our World", Ryoji Sakurada, Abhishek Kumar Singh, Tina Marie Briere, Masami Uzawa, and Yoshiyuki Kawazoe in Concrete and Structures, Singapore, Vol.26, pp 407-412, 2007.
2. "Flexural Performance of RC Beams Reinforced with Braided Organic FRP Bars", Ryoji Sakurada, Takumi Shimomura, Kyu-ichi Maruyama, and Sumiyuki Matsubara, 32nd Conference on Our World in Concrete and Structures, Singapore, Vol.26, pp 413-418, 2007.
3. "Crystal Structure Properties of Beta-Form Dicalcium Silicates based on Ab-initio Calculations", Ryoji Sakurada, Abhishek Kumar Singh, Masami Uzawa, and Yoshiyuki Kawazoe, Asian Consortium on Computational Materials Science-Virtual Organization, Sendai, Oral-73, 2008.

薄膜、超微粒子

1. "グラファイト超薄膜における超伝導近接効果 II", 神田晶申, 佐藤崇, 田中翔, 後藤秀徳, 大塚洋一, 宮崎久生, 小高隼介, 塚越一仁, 青柳克信, 日本物理学会第 63 回年次大会, 24aWB-2, 近畿大学, 2008 年 3 月
2. "グラファイト超薄膜-強磁性体接合の電気伝導特性 II", 後藤秀徳, 田中翔, 佐藤崇, 神田晶申, 大塚洋一, 宮崎久生, 小高隼介, 塚越一仁, 青柳克信, 日本物理学会第 63 回年次大会, 24aWB-9, 近畿大学, 2008 年 3 月
3. "Superconducting proximity effect in thin graphite films", A. Kanda, T. Sato, S.

- Tanaka, H. Goto, Y. Ootuka, K.Tsukagoshi, H. Miyazaki, S. Odaka, Y. Aoyagi,2008
 APS March Meeting,Q29.00009,New Orleans(USA),2008年3月
4. "グラフェンおよびグラファイト超薄膜の電気伝導",神田晶申,仙台プラズマフォーラム,東北大学,2008年2月
 5. "グラフェンおよびグラファイト超薄膜の電気伝導:実験的見地から",神田晶申,日本学術振興会未踏・ナノデバイステクノロジー第151委員会第83回研究会,逗子,2008年2月
 6. "Gate-controlled superconducting proximity effect in thin graphite films",A. Kanda,Miniworkshop on Mesoscopic Physics 2008,Hsinchu,Taiwan,2008年1月
 7. "Gate-controlled superconducting proximity effect in thin graphite films",A. Kanda, T. Sato, S. Tanaka, H. Goto, Y. Ootuka, K.Tsukagoshi, H. Miyazaki, S. Odaka, Y. Aoyagi,Frontiers in Nanoscience and Nanotechnology Workshop, Basel, Switzerland, 2008年1月
 8. "グラファイト超薄膜のスピニ伝導のゲート制御",後藤秀徳,佐藤崇,田中翔,神田晶申,大塚洋一,宮崎久生,小高隼介,塙越一仁,青柳克信,「量子ナノ物理学」第3回公開シンポジウム,T-P03,東京,2007年12月
 9. "Superconducting proximity effect in ultrathin graphite films",T. Sato, S. Tanaka, H. Goto, A. Kanda, Y. Ootuka, H. Miyazaki, S. Odaka, K. Tsukagoshi, Y. Aoyagi, International Symposium on Advanced Nanodevices and Nanotechnology (ISANN2007), 2-3, Hawaii, USA,2007年12月
 10. "Mesoscopic superconductivity",A. Kanda,2nd International Autumn Seminar on Nanoscience and Engineering in Superconductivity for Young Scientists,那須,2007年11月
 11. "超薄膜グラファイトの伝導とゲート電圧効果",神田晶申,日本物理学会第62回年次大会シンポジウム「グラファイトからグラフェンへ」,23pRA-7,北海道,2007年9月
 12. "グラファイト超薄膜-強磁性体接合の電気伝導特性",後藤秀徳,田中翔,佐藤崇,神田晶申,大塚洋一,宮崎久生,小高隼介,塙越一仁,青柳克信,日本物理学会第62回年次大会,24aRA-7,北海道,2007年9月
 13. "グラファイト超薄膜における超伝導近接効果",佐藤崇,田中翔,後藤秀徳,神田晶申,大塚洋一,宮崎久生,小高隼介,塙越一仁,青柳克信,日本物理学会第62回年次大会,24aRA-8,北海道,2007年9月
 14. "Superconducting Proximity Effect in Thin Graphite Films",A. Kanda, T. Sato, S. Tanaka, Y. Ootuka, H. Miyazaki, S. Odaka, K. Tsukagoshi, Y. Aoyagi, Fifth International Conference on Vortex Matter in Nanostructured Superconductors (VORTEX V)
 PII-09,Rhodes,Greece,2007年9月
 15. "Gate modulation of superconducting proximity effect in ultrathin graphite films",A.Kanda, T.Moriki, T.Sato, Y.Ootuka, H.Miyazaki, S.Odaka,K.Tsukagoshi,

- and Y.Aoyagi,The 17th International Conference on Electronic Properties of Two-Dimensional Systems (EP2DS17), P E 1 2 5 ,Genova, Italy,2007年7月
16. "Superconducting proximity effect in thin graphite films",A.Kanda, T.Moriki, T.Sato, Y.Ootuka, H.Miyazaki, S.Odaka,K. Tsukagoshi, and Y.Aoyagi,6th International Conference on Low Dimensional Structures and Devices (LDSD2007), T u – P 2 8 ,San Andres,Colombia,2007年4月
 17. "Room temperature reduction of dinitrogen mediated by supported tungsten nanoclusters"村上 純一、山口 渡,ACCMS-VO 2nd general meeting,Sendai, Japan 2008年1月8日
 18. "担持タンクスチンナノクラスターによる窒素分子の水素化",村上 純一、山口 渡,ナノ学会第五回大会,つくば,2007年5月8日
 19. "担持タンクスチンナノクラスターによる分子状窒素の活性化と還元",村上 純一、山口 渡,分子科学討論会,仙台 2007年9月8日
 20. "孤立したタンクスチンナノクラスター上の窒素の分子",山口 渡、 村上 純一,ナノ学会第5回大会,つくば,2007年5月8日
 21. "シリコン表面に担持された単原子層白金クラスターの幾何構造と電子構造に関する第一原理計算ならびに STM",Murugan、安松、早川、近藤、川添,日本化学会第88春季年会,4D2-05,東京,2008年3月
 22. "Infrared Photodissociation of Molecule-Adsorbed Cobalt Clusters –Vibrational and Electronic Transitions", M. Ichihashi, S. Hirabayashi, and T. Kondow, The Second General Meeting of ACCMS-VO, Sendai, Japan, January 2008.
 23. "Preparation of TiO₂ coating on metal substrates by plasma enhanced CVD", R.Marumori, T.Kimura, N.Hayashi, M.Yoda, K.Kimura, T.Goto, The 6th International Symposium on Titanium in Dentistry, Kyoto,June 5~6 2007
 24. "MBE-SPM Study of GaN Growth on Silicon", Yukiko Yamada-Takamura, IFCAM-WPI Workshop "Frontier in Materials Science", Sendai, 2007.9
 25. "Pulsed Laser Deposition : SrTiO₃導電性の形成と評価",大西剛、花宮英美、道間健一、Mikk Lippmaa,2008年春季 第55回応用物理学関係連合講演会,日本大学船橋キャンパス、2008/3
 26. "SrTiO₃の発光",大西剛、望月圭介、山本博文、藤本英司、角谷正友、Mikk Lippmaa,2008年春季 第55回応用物理学関係連合講演会,日本大学船橋キャンパス、2008/3

熱力学的性質、相図

- 1 . "Synthesis and Decomposition of Pure Ca(AlH₄)₂",N. Morisaku, K. Komiya, Y.Z. Li, H. Yukawa, M. Morinaga,K. Ikeda, S. Orimo,6th Pacific Rim International Conference on AdvancedMaterials and Processing (PRICM-6),Jeju Island,Korea,平成19年11月,
- 2 . "In-situ Raman Spectra during the Decomposition ofMAlH₄ (M=Li, Na, K)",Y.Z. Li, N. Morisaku, H. Hirate, I. Nakaya, H. Sawai, H.Yakawa, M.Morinaga,日本金属学会

2007 年秋期大会,岐阜大学,平成 19 年 9 月

3. "カルシウムアラネート Ca(AlH₄)₂ の脱水素化反応と TiCl₃ 添加の効果",守作直人, 李宇展, 平手博, 中矢一平, 澤井寛, 池田一貴, 折茂慎一, 湯川宏, 森永正彦, 日本金属学会 2007 年秋期大会,岐阜大学,平成 19 年 9 月
4. "カルシウムアラネートの脱水素化反応におけるメカニカルミリングおよび NaCl の影響",中矢一平, 澤井寛, 守作直人, 平手博, 李宇展, 湯川宏, 森永正彦, 日本金属学会 2007 年秋期大会,武藏工大,平成 20 年 3 月
5. "NaAlH₄ と KAlH₄ の混合による融点と水素放出温度への影響",澤井寛, 中矢一平, 守作直人, 平手博, 李宇展, 湯川宏, 森永正彦, 日本金属学会 2007 年秋期大会,武藏工大,平成 20 年 3 月
6. "CaPd 水素化物の構造変化と水素化特性",池田一貴, 渡辺直希, 奥田法樹, 大山研司, 中森裕子, 折茂慎一, 竹下博之, 日本金属学会 2007 年秋期大会,武藏工大,平成 20 年 3 月
7. "Mn-Ni 系单一次元鎖磁石の磁場下熱容量",山下智史、中澤康浩、宮坂等、山下正廣,第 43 回熱測定討論会,札幌市,2007・1

結晶成長、欠陥

1. "Influence of seed/crystal interface shape on dislocation generation due to thermal shock in Czochralski Si crystal growth" ,T. Taishi, Y. Ohno, I. Yonenaga, K. Hoshikawa, 4th International Conference on Defects in Semiconductors, Po-42, Albuquerque (USA),2007/7
2. "CZ-Si 結晶成長における種子づけ界面形状と転位発生挙動",太子敏則, 小泉晴比古, 大野 裕, 米永一郎, 干川圭吾,応用物理学会 2007 年度秋季大会,札幌,2007/9
3. "高濃度 Ga および As 添加 CZ-Ge 結晶成長における偏析挙動",太子敏則、村尾優、大野 裕、米永一郎,第 56 回応用物理学関係連合講演会,28p-ZV-8,船橋,2008/3
4. "Formation of multiple nanoscale twin boundaries acting as twinning superlattice in AlGaAs epilayers",Y. Ohno, T. Taishi, I. Yonenaga, K. Shoda, and S. Takeda,The 9th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures,Tokyo,2007.11
5. "Multiple twin boundaries acting as superlattice in AlGaAs epilayers",Y. Ohno, N. Yamamoto, T. Taishi, I. Yonenaga, K. Shoda and S. Takeda,The 15th International Conference on Crystal Growth,Salt Lake City, USA,2007.8
6. "Electronic properties of twin boundaries in AlGaAs",Y. Ohno, N. Yamamoto, T. Taishi, I. Yonenaga, K. Shoda and S. Takeda,24th International Conference on Defects in Semiconductors,Albuquerque, USA,2007.7
7. "P3HT/PCBM 膜における結晶化・凝集化過程のその場観察",柳谷伸一郎、佐崎元、宇佐美徳隆、中嶋一雄、後藤信夫,第 55 回応用物理学関係連合講演会,千葉・日大舟橋キャンパス,2008.03

- 8 . "Structural and transport properties of strained Ge and SiGe grown on patterned substrate",G. Kawaguchi, K. Shimizu, K. Arimoto, M. Watanabe, K. Nakagawa, J. Yamanaka, N. Usami, K. Nakajima, K. Sawano and Y. Shiraki,The 4-th Asian Conference on Crystal Growth and Crystal Technology,仙台,2008/5

溶解、凝固、接合

- 1 . "ガスジェット浮遊法と高エネルギーX線回折法による酸化物結晶成長のその場観察",小山千尋, 水野章敏, 渡邊匡人, 小原真司,2008年春季 第55回応用物理学関係連合講演会,28a-ZV-3,日本大学,2008/3

超高温、プラズマ

- 1 ."LHD プラズマ計測用レトロミラーの不純物堆積による光反射率低下現象",大多和義久、藤原正、徳永和俊、ほか,日本原子力学会,博多,2007・9

照射、原子力関連（アクチノイド等）

- 1 . "Application of X-ray Photoelectron Spectroscopy to Characterization of Au Nanoparticles Formed by Ion Implantation into Al₂O₃ and SiO₂",Oizumi, awatsura,Issiki, K.Nishio, S.Nagata, S.Yamamoto, K.Narumi, H.Naramoto, 9th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures, PS3-73, 東京, 2007/11
- 2 . "Ion-induced Self-organized Ripple Patterns on Graphite and Diamond Surface", K.Takahiro,S.Oizumi,K.Kawatsura,S.Nagata,S.Yamamoto,K.Narumi,H.Naramoto,9 th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures,PS3-23,東京,2007/11
- 3 . "Ripple Formation on Graphite and Diamond Surfaces by Ion Irradiation", K.Takahiro, K.Ozaki, K.Kawatsura, S.Nagata, S.Yamamoto, K.Narumi, H.Naramoto, The 18th Symposium of The Materials Research Society of Japan,K-P12, 東京,2007/12
- 4 . "炭素材料表面への斜入射イオン照射によるリップル形成",K.Takahiro,.Ozaki, K.Kawatsura, S.Nagata, S.Yamamoto, K.Narumi, H.Naramoto, 第55回応用物理学関係連合講演会, 30p-ZL-3, 東京, 2008/3
- 5 . "低放射化バナジウム合金の液体 リチウム浸漬による機械的特性変化",長坂琢也, 室賀健夫, Meimei Li, David T. Hoelzer, Steven J.,原子力学会 2005 年秋の大会,八戸工業大,9/13-15/2005
- 6 . "Tensile Property of Low Activation Vanadium Alloy after",T. Nagasaka, T. Muroga, M. M. Li, D. T. Hoelzer, S. J. Zinkle,7th International Symposium on Fusion Nuclear technology,東京,May, 2005
- 7 . "Thermal Creep of Two Heats of V-4Cr-4Ti in a Liquid L",M. M. Li, T. Nagasaka, D. T.

Hoelzer, M. L.. Grossbeck, S. J,12th International Conference on Fusion Reactor Materials,Santa Barbar,Dec, 2005

結晶構造（回析）

- 1 . "Improvement of wettability between pentacene molecules and Au electrodes by thiol-SAM treatment",Y. Tsuruma, S. Ikeda, K. Saiki, A. Al-Mahboob, G. Yoshikawa, J. T. Sadowski, Y. Fujikawa and T. Sakurai,WPI & IFCAM Joint Workshop "Challenge of Interdisciplinary Materials Science to Technological Innovation of the 21st Century",P-34,Sendai,2008・2

電気的、光学的性質

- 1 . "Electronic and optical properties of In- and Al-doped G",H. Takagi, K. Koga, K. Akai, M. Matsuura,ACCMS-VO,Sendai,2008,1月

表面、界面、トンネル現象、触媒

- 1 . "New delta co-doping technology with use of the atomic line on silicon",K. Miki,St. Christoph,Symposium on Surface Science 3S*08,Austria, 2008年3月17日
- 2 . "陽極酸化により作製した二酸化チタンの光触媒特性",正橋直哉, 水越克彰, 大津直史, 千星聰,日本金属学会,武蔵野工大,2008/2/28
- 3 . "陽極酸化 TiO₂ 表面および UV 照射反応の XPS 分析", 大津直史, 水越克彰, 千星聰, 正橋直哉, 我妻和明,日本金属学会,武蔵野工大,2008/2/28

極低温

- 1 . "熱処理したハスティロイ圧延薄板のビッカース硬さと電気抵抗率",千葉 孝, 石川 弘孝, 亀卦川 尚子 (一関高専) ; 村上 義弘 (東北大) ; 塩原 融 (SRL) ,2007年度春季低温工学・超電導学会,3D-a08,千葉,2007年5月
- 2 . "圧延ハスティロイ基板の電熱特性に対する熱処理の効果",加藤 卓弥, 阿部 雄樹, 亀卦川 尚子 (一関高専) ; 村上 義弘, 小林 典男 (東北大) ; 塩原 融 (SRL) ,2007年度秋季低温工学・超電導学会,2A-a06,仙台,2007年11月
- 3 . "配向 Ni-W 合金基板の熱伝導度",阿部 雄樹, 加藤 卓弥, 亀卦川 尚子 (一関高専) ; 青木 裕治, 高橋 保夫 (昭和電線) ; 塩原 融 (SRL) ,2007年度秋季低温工学・超電導学会,2P-p10,仙台,2007年11月

機械的性質

- 1 . "Crystal Growth and Plastic Deformation Behavior of Ti-29Nb-13Ta-4.6Zr Bcc-based Single Crystal", T. Nakano, K. Hagihara, H. Maki, Y. Umakoshi and M. Niinomi, Proc. the 11th World Conf. on Titanium (Ti-2007), Jun. 3-7, 2007, Kyoto, Japan

- 2 . "Effect of Bcc-phase Stability on Cyclic Deformation Behavior in Beta-type Ti-Nb-Ta-Zr Alloys Single Crystals with Different Nb Content", K. Hagihara, T. Nakano, A. Sonoura, K. Watanabe, Y. Umokoshi and M. Niinomi, Proc. the 11th World Conf. on Titanium (Ti-2007), Jun. 3–7, 2007, Kyoto, Japan
- 3 . "変形モードに依存した生体用 β 型 Ti-Nb-Ta-Zr 単結晶の疲労変形挙動", 園浦章弘, 中野貴由, 萩原幸司, 馬越佑吉, 新家光雄, 日本金属学会 2007 年秋季(第 141 回)大会日本金属学会, 岐阜大学, 2007/9

分光、分析

- 1 . "Observation of two-dimensional image of emission spectra from low-pressure laser-induced plasmas (keynote, invited lecture)", C. Kitaoka and K. Wagatsuma, The 9th Asian Conference on Analytical Science, Jeju Island, Korea, Nov. 4-8, 2007
- 2 . "ZnO ナノ構造体の高密度励起子による誘導放出発光", 三堀 真吾、李 常賢、八百 隆文、武田 淳, 日本物理学会第 62 回年次大会, 23pPSB-14, 北海道大学, 2007.9.
- 3 . "ZnO ナノ構造体の高密度励起子発光のダイナミクス", 三堀真吾、李 常賢、八百隆文、片山郁文、武田淳, 日本物理学会第 63 回年次大会, 26aPS-47, 近畿大学, 2008.3
- 4 . "In-situ photoemission studies on oxide heterostructures", 組頭広志, 日本物理学会, 近畿大学, 2008/3
- 5 . "LIBS を用いたガス中気相水銀のオンライン分析", 蜂島義瑛、義家 亮、上宮成之, 第 52 回日本エネルギー学会関西支部発表会, 関西大学, 平成 19 年 12 月

中性子、電子、イオン、X 線散乱

- 1 . "埋もれた界面の反応について", 桜井健司, 埋もれた界面の X 線・中性子解析に関するワークショップ 2007, 仙台, 2006/7/22 ~ 2006/7/26
- 2 . "The Current Status and Activity of Neutron Powder Diffractometers in Japan", Kenji Ohoyama, Hiroshi Fukazawa, Takashi Kamiyama, Workshop on Powder Diffraction with 2-Dimensional Detectors (PD2DD), フランス ILL, 2008 年 2 月
- 3 . "Charge excitations in high-Tc cuprates studied by resonant inelastic x-ray scattering", Kenji Ishii, 6th International Conference on Inelastic X-ray Scattering (IXS2007)
Session 5, 1st, 淡路島, 2007 年 5 月,
- 4 . "Momentum dependent charge excitations in cuprates studied by resonant inelastic x-ray scattering", K. Ishii, Spectroscopes in Novel Superconductors (SNS2007) Thu-11, 仙台, 2007 年 8 月,
- 5 . "辺共有一次元鎖 $\text{Ca}_{2+x}\text{Y}_{2-x}\text{Cu}_5\text{O}_{10}$ の共鳴非弾性 X 線散乱", 石井賢司, 池内和彦, 稲見俊哉, 水木純一郎, 筒井健二, 遠山貴己, 前川禎通, 工藤一貴, 小池洋二, 村上洋一, 遠藤康夫, 日本物理学会第 62 回年次大会, 22pWG-7, 札幌, 2007 年 9 月
- 6 . "Momentum Dependent Charge Excitations in Correlated Electron Systems Studied

by Resonant Inelastic X-ray Scatterin",K. Ishii,
8th Conference of the Asian Crystallographic Association (AsCA '07)
O3B06-M1,Taipei,2007 年 11 月

- 7 . "共鳴非弾性X線散乱による $\text{Ca}_{2+x}\text{Y}_{2-x}\text{Cu}_5\text{O}_{10}$ の電荷励起",石井賢司, 池内和彦, 稲見俊哉, 水木純一郎, 筒井健二, 遠山貴己, 前川禎通, 工藤一貴, 小池洋二, 村上洋一, 遠藤康夫,第 21 回日本放射光学会年会・放射光科学合同シンポジウム,滋賀,2008 年 1 月
- 8 . "Ni 置換 La_2CuO_4 の共鳴非弾性X線散乱",石井賢司, 池内和彦, ジャリッジイニヤス, 水木純一郎, 平賀晴弘, 山田和芳,筒井健二, 遠山貴己, 前川禎通, 石井啓文, 蔡永強, 遠藤康夫,日本物理学会第 63 回年次大会,24pWQ-2,大阪,2008 年 3 月
- 9 . "Neutron scattering study of phonon dynamics on cage compounds",C. H. Lee, H. Yoshizawa, I. Hase, K. Kihou, H. Sugawara, M. A. Avila, T. Watanabe, Y. Nemoto, T. Takabatake, H. Sato and T. Goto,12th International Conference on Phonon Scattering in Condensed Matter,Paris, France,2007.7

計算機

- 1 . "一次元モット絶縁体の光学応答に対するパイエルス型電子格子相互作用の効果",千船外史、松枝宏明、遠山貴己前川禎通,日本物理学会,23aYH-7,近畿大学,2008.3
- 2 . "一次元モット絶縁体の光吸収に対する電子・格子相互作用の効果Ⅱ",松枝宏明、安藤彰祐、遠山貴己、前川禎通,日本物理学会,26aPS-67,近畿大学,2008.3
- 3 . "Atomic structures and properties of boron nitride nanotubes",T. Oku, N. Koi, K. Suganuma, R. V. Belosludov, Y. Kawazoe and M. Nishijim,The Second General Meeting of ACCMS-VO,PS-8,仙台、2008/1
- 4 . "Atomic structures and properties of boron nitride nanohorn-tubes",14th International Symposium on Intercalation Compounds,P8TU-18,Seoul, Korea, 2007/6
- 5 . "A new molecular-dynamics/continuum hybrid method",Y. Senda and G. Kim, ACCMS-VO, Sendai,2008,1 月