

## A. 量子物質科学

	論文課題	著者名	誌名、巻、号、(年 頁)	論文種別
A1	Energy gap in the Kondo semiconductor CeRhAs	T. Ekino, T. Takasaki, T. Suemitsu, T. Takabatake, H. Fujii	Physica, B312&313 (2002 ) pp. 221-223	原著
A2	Synthesis of the binary intermetallic superconductor MgB2 under hydrogen pressure,	Y. Nakamori, S. Orimo, T. Ekino, H. Fujii,	Alloys and Comp, 335 (2002) L21- L24	原著
A3	Superconducting gap in polycrystalline MgB2 studied by electron tunneling	T. Takasaki, T. Ekino, T. Muranaka, H. Fujii, J. Akimitsu	Physica C 378- 381(2002) pp. 229-233	原著
A4	Observation of a pseudogap in alpha-AlmSi by break-junction tunneling spectroscopy	J.Tamura- Okada, T. Ekino, T. Takasaki, Y. Yokoyama, Y. Watanabe, H. Fujii, S. Nanao	Journal of Noncrystalline Solids 312- 314(2002) pp. 513-516	原著
A5	パラメトリック線	遠藤一太	放射線 (応用物 理学会放射線分 科会発行) '281(2002) pp. 105-110	総説
A6	Observation of Stark-Induced Electric Dipole Transition in Atomic Samarium with Optical Double Resonance	I. Endo, T. Takahashi, M. Iinuma	J. Phys. Soc. Japan, 71 (2002 ) pp. 2137-2141	原著
A7	Raman scattering investigation of RB6 (R=Ca, La, Ce, Pr, Sm, Gd, Dy, and Yb)	N. Ogita, S. Nagai, N. Okamoto, M. Udagawa, F. Iga, M. Sera, J. Akimitsu, S. Kunii	Phys. Rev. B 68(2003) pp.224305-1-9	原著
A8	Raman scattering investigation of Y{1-x}Ca{x}TiO3	T. Tsurui, N. Ogita, M. Udagawa, M. Tsubota, F. Iga	Phys. Rev. B 69(2004) pp. 024102-1-8	原著
A9	Raman Scattering and Infrared Absorption Investigation of Hydrogen Configuration State in Mechanically Milled Graphite under H2 Gas	N. Ogita, K. Yamamoto, C. Hayashi, T. Matsushima, S. Orimo, T. Ichikawa, H. Fujii, M. Udagawa	J. Phys. Soc. Jpn. 73 (2004) pp.553-555	原著

A10	Sum Rules for Exchange and Correlation Energy Functional in the Current-Density Functional Theory	K. Higuchi, N. Fukue, H.Kodama, M. Higuchi	Journal of the Korean Physical Society, 40 (2002) pp. 1060	原著
A11	Sum rules and bounds on the exchange and correlation energy functional of the current-density functional theory	M. Higuchi, K. Higuchi	Physical Review, B65 (2002 ) 195122	原著
A12	Exchange and correlation energy functional in the current-density functional theory	K. Higuchi, M. Higuchi	Physica, B312- 313 (2002) pp. 534	原著
A13	Effect of mechanical grinding under Ar and H <sub>2</sub> atmospheres on structural and hydriding properties in LaNi <sub>5</sub> .	H. Fujii, H. Munehiro, K. Fujii S. Orimo	J. Alloys and Compounds 330- 332 (2002) 747- 751.	原著
A14	Remarkable hydrogen storage properties in three-layered Pd/Mg/Pd thin films	K. Higuchi, K. Yamamoto, H. Kajioaka, K. Toiyama, M. Honda, S. Orimo H. Fujii	J. Alloys and Compounds 330- 332 (2002) 526- 530	原著
A15	Optical transmission of magnesium hydride thin film with characteristic nanostructure	K. Yamamoto, K. Higuchi, H. Kajioaka, H. Sumida, S. Orimo H. Fujii	J. Alloys and Compounds 330- 332 (2002) 352- 356	原著
A16	Electron microscopy and hydriding properties of MgYNi <sub>4</sub> synthesized by mechanical alloying	Y. Kitano, K. Yamada, M. Miyamoto, S. Orimo, H. Fujii, K. Aono E. Tanabe	J. Alloys and Compounds 330- 332 (2002) 292- 295	原著
A17	Hydrogen in mechanically prepared nanostructured h-BN: a critical comparison with that in nanostructured graphite	P. Wang, S. Orimo, T. Matsushima, H. Fujii G. Majer	Appl. Phys. Lett. 80 (2002) 318- 321	原著
A18	Structural observation of energy storage materials prepared by MA.	T. Fukunaga, K. Itoh, S. Orimo H. Fujii	Physica B 311 (2002) 95-101	原著
A19	Interstitial alloys as hard magnetic materials	H. Fujii, I. Sasaki K. Koyama	J. Magn, Magn. Mat. 242-245 (2002) 59-65.	原著
A20	Remarkable Hydrogen Storage, Structural and Optical Properties in Multi-layered Pd/Mg Thin Films.	H. Fujii, K. Higuchi, K. Yamamoto, H. Kajioaka, S. Orimo K. Toiyama;	Mater.Trans. 43 (2002) 2721- 2727	原著

A21	Image Segmentation/Extraction Using Nonlinear Cellular Networks and their VLSI Implementation Using Pulse-Modulation Techniques	H. Ando, T. Morie, M. Miyake, M. Nagata, A. Iwata	IEICE Trans. Fundamentals, Vol. E85-A, No. 2, (2002) pp. 381-388.	原著
A22	An Hadamard Transform Chip Using the PWM Circuit Technique and Its Application to Image Processing	K. Katayama, M. Nagata, T. Morie, A. Iwata	IEICE Trans. Electron., Vol. E85-C, NO.8, , 2002 pp. 1596- 1603,	原著
A23	A Multi-Nano-Dot Circuit and Structure Using Thermal-Noise Assisted Tunneling for Stochastic Associative Processing	T. Morie T. Matsuura M. Nagata, A. Iwata	J. Nanosci. Nanotech., Vol. 2, No. 3, (2002) pp. 343-349,	原著
A24	Heterogeneous mixed-valence states in RPd <sub>3</sub> S <sub>4</sub> (R=Eu and Yb) viewed from thermopower, electrical resistivity and specific heat	J. Kitagawa, T. Takabatake, E. Matsuoka, F. Takahashi, K. Abe, M. Ishikawa	J. Phys. Soc. Jpn. 71 (2002) pp. 1630-1633	原著
A25	Thermoelectric properties of valence-fluctuating Eu compound with a clathrate-like structure, Eu <sub>3</sub> Pd <sub>20</sub> Ge <sub>6</sub>	J. Kitagawa, T. Sasakawa, T. Suemitsu, T. Takabatake, M. Ishikawa	J. Phys. Soc. Jpn. 71 (2002) pp. 1222-1225	原著
A26	Effect of Density Stratification on the Thermal Convection in a Rotating Spherical Shell	N. Nishikawa, K. Kusano	The Astrophysical Journal, 5811 (2002) pp. 745-	原著
A27	Numerical Study of Three-Dimensional Magnetohydrodynamic Instability in the Solar Coronal Magnetic Arcades	K. Kusano	The Astrophysical Journal, 671 (2002) pp. 532-	原著
A28	Effects of valence fluctuation and pseudogap formation on phonon thermal conductivity of Ce-based compounds with -TiNiSi-type structure	J. Kitagawa, T. Sasakawa, T. Suemitsu, Y. Echizen, T. Takabatake	Phys. Rev. B66 (2002) 224304(1- 6)	原著
A29	Energy band structure of Ru/(Ba,Sr)TiO <sub>3</sub> /Si capacitor deposited by inductively-coupled plasma-assisted radio-frequency-magnetron plasma	T. Kikkawa, N. Fujiwara, H. Yamada S. Miyazaki	Appl. Phys. Lett. Vol. 81, No. 15 (2002) pp. 2821- 2823	原著
A30	Growth and Characterization of Microcrystalline Silicon-Germanium Films	S. Miyazaki, H. Takahashi, H. Yamashita, M. Narasaki M. Hirose	J. Non-Cryst. Solid Vol. 299- 302 (2002) pp. 148-152	原著
A31	Characterization of High-k Gate Dielectric/Silicon Interfaces	S. Miyazaki	Appl. Surf. Sci. Vol. 190 (2002) pp. 66-74	原著
A32	Carrier Depletion Effect in the n+Poly-Si Gate Side-Wall/SiO <sub>2</sub> Interfaces as Evaluated by Gate Tunnel Leakage Current	H. Murakami, T. Mihara, S. Miyazaki M. Hirose	Jpn. J. Appl. Phys. Vol. 41, No. 5A (2002) pp. L512-L514	原著

A33	Quantitative Analysis of Oxide Voltage and Field Dependence of Time-Dependent Dielectric Soft Breakdown and Hard Breakdown in Ultrathin Gate Oxides	W. Mizubayashi, Y. Yoshida, S. Miyazaki M. Hirose	Jpn. J. Appl. Phys. Vol. 41, No. 4B (2002) pp. 2426-2430	原著
A34	Chemical and electronic structure of ultrathin zirconium oxide films on silicon as determined by photoelectron spectroscopy	S. Miyazaki, M. Narasaki, M. Ogasawara M. Hirose	Solid State Electronics Vol. 16 (2002) pp. 1679-1685	原著
A35	Improved Performance of Amorphous Silicon Photoreceptor by Using a Thick Surface Layer with a Graded-Band-Gap Structure	A. Teshima S. Miyazaki	Jpn. J. Appl. Phys. Vol. 41, No. 11B (2002) pp. L1294-L1296	原著
A36	Characterization of Ultrathin Gate Dielectrics on Silicon by Photoelectron Spectroscopy	S. Miyazaki	Proc of 2001 MRS Workshop Series - Alternatives on to SiO <sub>2</sub> as Gate Dielectric for Future Si-Based Microelectronics (2002) pp. (8-1)-	原著
A37	Importance of Ballistic Carriers for the Dynamic Response in Sub-100nm MOSFETs	T. Okagaki, M. Tanaka, H. Ueno, M. Miura- Mattaush	IEEE Electron Device Lett. 23 (2002) pp.154-156	原著
A38	Simple Nondestructive Extraction of the Vertical Channel-Impurity Profile of Small-Size Metal-Oxide-Semiconductor Field-Effect Transistors	Hans Juergen Mattausch, M. Suetake, D. Kitamaru, M. Miura- Mattausch, S. Kumashiro, N. Shigyo, S.Odanaka, N. Nakayama	Appl. Phys. Letters, Vol. 80, No. 16, (2002) pp. 2994-2996,	原著
A39	Origin of Transconductance Oscillations in Silicon-on-Insulator Metal-Oxide-Semiconductor Field-Effect Transistors with an Ultrathin 6-nm-Thick Active Si Layer	H. Ueno, M. Tanaka, K. Morikawa, T. Takahashi, M. Miura- Mattausch, Y. Omura,	J. Appl. Phys., Vol. 91, No. 8, (2002) pp. 5360-5364,	原著
A40	Evidence of Mesoscopic Carrier Transport in SOI-MOSFETs with Ultra-Thin Active Si-Layer	H. Ueno, M. Tanaka, K. Morikawa, T. Takahashi, M. Miura- Mattausch Y. Ohmura	Physica B, Vol. 314,, (2002) pp. 367-371	原著
A41	Circuit Simulation Models for Coming MOSFET Generations	M. Miura- Mattausch, H. Ueno, H. J. Mattausch, S. Kumashiro, T. Yamaguchi, K. Yamashita N. Nakayama	IEICE Trans. Fund. Electron., Vol. E85-A, No. 4, , (2002) pp. 740-747	原著

- |     |   |  |  |    |
|-----|---|--|--|----|
| A42 | Quantum Effect in Sub-0.1um MOSFET with Pocket Technologies and Its Relevance for the On-Current Condition                | K. Morikawa,<br>H. Ueno,<br>D. Kitamaru,<br>M. Tanaka,<br>T. Okagaki,<br>M. Miura-<br>Mattausch,<br>Hans Juergen<br>Mattausch,<br>S. Kumashiro,<br>T. Yamaguchi,<br>K. Yamashita,<br>N. Nakayama | Jpn. J. Appl.<br>Phys., Vol. 41,<br>No. 4B,, (2002)<br>pp. 2359-2362           | 原著 |
| A43 | A Practical Small-Signal Equivalent Circuit Model for RF-MOSFETs Valid up to the Cut-Off Frequency                        | H. Kawano<br>M. Nishizawa,<br>S. Matsumoto,<br>S. Mitani,<br>M. Tanaka,<br>N. Nakayama,<br>H. Ueno,<br>M. Miura-<br>Mattausch,<br>H. J. Mattausch  | IEEE Int.<br>Microwave Sym.<br>Digest, (2002) pp.<br>2121-2124                 | 原著 |
| A44 | Impurity-Profile-Based Threshold-Voltage Model of Pocket-Implanted MOSFETs for Circuit Simulation                         | H. Ueno,<br>D. Kitamaru,<br>K. Morikawa,<br>M. Tanaka,<br>M. Miura-<br>Mattausch<br>H.J. Mattausch,<br>S. Kumashiro,<br>T. Yamaguchi,<br>K. Yamashita,<br>N. Nakayama                            | IEEE<br>Transactions on<br>Electron Devices,<br>49[10], (2002)<br>pp.1783-1789 | 原著 |
| A45 | Validity of mobility universality for scaled metal-oxide-semiconductor field-effect transistors down to 100nm gate length | S. Matsumoto,<br>K. Hisamitsu,<br>M. Tanaka,<br>H. Ueno,<br>M. Miura-<br>Mattausch,<br>H. J.<br>Mattausch,<br>S. Kumashiro,<br>T. Yamaguchi,<br>K. Yamashita,<br>N. Nakayama                     | J. Appl. Phys.,<br>92[9], (2002)<br>pp.5228-5232                               | 原著 |
| A46 | デバイスモデルと回路シミュレーション  | 三浦道子、<br>上野弘明  | 応用物理 716<br>(2002) pp. 726-<br>730   | 原著 |
| A47 | Rough surface effect on the Meissner diamagnetism in normal layer of N-S proximity contact system                         | K. Yamada,<br>S. Higashitani,<br>K. Nagai  | J. Phys. Soc.<br>Jpn, 71, (2002)<br>pp. 293-299                                |    |
| A48 | Transverse sound in liquid-3He-aerogel system   | K. Nagai   |  |    |

A49	From Mott insulator to ferromagnetic metal: a pressure study of Ca <sub>2</sub> RuO <sub>4</sub>	F. Nakamura, T. Goto, M. Ito, T. Fujita, S. Nakatsuji, H. Fukazawa, Y. Maeno, P. Alireza, D. Forsythe S R. Julian	Phys. Review, B65 (2002 ) 220402(R)	原著
A50	Evolution of Fermi-Liquid Interactions in Sr <sub>2</sub> RuO <sub>4</sub> under Pressure	D. Forsythe, S. R. Julian, C. Bergemann, E. Pugh, M. J. Steiner, P. L. Alireza, G. J. McMullan, F. Nakamura, R.K. W. Haselwimmer, I.R. Walker,, S. S. Saxena, G. G. Lonzarich A. P. Mackenzie, Z. Q. Mao, Y. Maeno	Physical Review Letters, 89 (2002 )166402	原著
A51	Mid-gap state formed inside Mott gap of 1T-TaS <sub>2</sub> single crystals and metal-insulator transition	T. Isa, T. Fukase, M. Sasaki, M. Koyano, N. Taniguchi, T. Kimura, Y. Isobe, H. Negishi	J. Low Temp. Phys. 127(2002)pp. 63- 79	原著
A52	Angle-resolved photoemission spectroscopy and magnetic circular dichroism in Fe-intercalated TiS <sub>2</sub>	A. Yamasaki, S. Imada, A. Sekiyama, S. Suga, T. Matsushita, T. Muro, Y. Saitoh, H. Negishi, M. Sasaki	Surf. Rev. Lett .9(2002)pp. 961- 966	原著
A53	Parametric resonances in intense one-dimensional beams propagating through a periodic focusing channel	H. Okamoto, Y. Yokoya	Nuclear Instruments and Methods A482(2002)pp. 51-64	原著
A54	Radio-frequency quadrupole trap as a tool for experimental beam physics	H. Okamoto, Y. Wada, R.takai	Nuclear Instruments and Methods, 485 (2002 )pp. 244- 254	原著
A55	Single-particle orbit equation in crystalline beams	H. Okamoto	Physics of plasmas, 91 (2002 )pp. 322- 329	原著
A56	Particle beam resonances driven by dispersion and space charge	H.Okamoto, S. Machida	Nuclear Instruments and Methods, A482 (2002 )pp. 65-78	原著

A57	Effect of a longitudinal radio-frequency field on crystalline beams	Y.Yuri, H.Okamoto	Journal of the Physical Society of Japan, 71 (2002) pp. 1003-1004	原著
A58	High-resolution resonance photoemission study of CeMX (M=Pt, Pd; X=P, As, Sb)	T. Iwasaki, A. Sekiyama, A. Yamasaki, M. Okazaki, K. Kadono, H. Utsunomiya, S. Imada, Y. Saitoh, T. Muro, T. Matsushita, H. Harima, S. Yoshii, M. Kasaya, A. Ochiai, T. Oguchi, K. Katoh, Y. Niide, K. Takegahara, S. Suga	Phys. Rev. B 65 (2002) 195109(9 pages)	原著
A59	Cohesion in AIB <sub>2</sub> -Type Diborides: A First-Principles Study	T. Oguchi	J. Phys. Soc. Jpn. 71 (2002) pp. 1495-1500	原著
A60	Electronic Structure of B-2p States in AIB <sub>2</sub> Single Crystal: Direct Observation of $p\sigma$ and $p\pi$ Density of States	J. Nakamura, M. Watanabe, T. Oguchi, S. Nasubida, E. Kabasawa, N. Yamada, K. Kuroki, H. Yamazaki, S. Shin, Y. Umeda, S. Minakawa, N. Kimura H. Aoki,	J. Phys. Soc. Jpn. 71 (2002) pp. 408-410	原著
A61	First-principles study on structural stability of alkali and alkali-earth coadsorbed on Cu(001) surface	K. Oka, T.Oguchi	J. Phys. Soc. Jpn. 71 (2002) pp. 880-887	原著
A62	First-principles calculation of spontaneous polarization and phase stability in NaNO <sub>2</sub>	F. Ishii, T. Oguchi	J. Phys. Soc. Jpn. 71 (2002) pp. 336-339	原著
A63	Nano-Beam Production by RFQ with Ion-Trap Injector	K.Ito, A Ogata, H.Okamoto	Int. J. Appl. Electromagnetics and Mechanics 14 (2001/2002) pp. 283-287	原著
A64	Plasmon Linac	Naoko Saito Atsushi Ogata	J. Plasma Fusion Res. 78 (2002) pp. 613-614	原著
A65	Fulde-Ferrell-Larkin-Ovchinnikov state and field-induced superconductivity in an organic superconductor	H. Shimahara		原著
A66	Anisotropic superconductivity mediated by phonons in layered compounds with weak screening effect	H.Shimahara M.Kohmoto	Phys. Rev. B65 (2002) 174502	原著
A67	Triplet superconductivity induced by screened phonon interactions in ferromagnetic compounds	H. Shimahara, M. Kohmoto	Europhys. Lett. 57 (2002) pp. 247-253	原著

A68	Temperature dependence of the upper critical field of an anisotropic singlet superconductivity in a square lattice tight-binding model in parallel magnetic fields	H.Shimahara, K. Moriwake	J. Phys. Soc. Jpn. 715 (2002 ) pp. 1234-1237	原著
A69	Enhancement of the upper critical field and a field induced superconductivity in antiferromagnetic conductors	H. Shimahara	J. Phys. Soc. Jpn. 713 (2002 ) pp. 713-716	原著
A70	A Boltmann Machine with Non-rejective Move	H.Z.Zhu, N. Sun, M. Sasaki, K. Eguchi, T. Tabata F, Ren	Trans. IEICE Japan Vol.E85- ANo.6 (2002 )pp. 1229-1235	原著
A71	Magnetic Properties in Phase IV of Ce <sub>0.8</sub> Nd <sub>0.2</sub> B <sub>6</sub> Studied by Muon Spin Relaxation	M. Sera	J. Phys. Soc. Jpn. 71Suppl. (2002 )pp. 118-	原著
A72	Hall effect of CeB <sub>6</sub> and Ce <sub>x</sub> La <sub>1-x</sub> B <sub>6</sub>	M. Sera	J. Phys. Soc. Jpn. 71Suppl. (2002 ) pp. 109-111	原著
A73	<sup>11</sup> B NMR study of GdB <sub>6</sub>	M. Sera	J. Phys. Soc. Jpn. 71Suppl. (2002 )pp. 100-	原著
A74	Ce site substitution effects on the multipolar interactions in CeB <sub>6</sub>	M. Sera F. Iga S. Kobayashi Y. Sugamoto, K. Nagatomo K. Umeo S. Tuji K. Kojima J. Aki Y. Zenitani	J. Phys. Soc. Jpn. 71Suppl. (2002 )pp. 52-55	原著
A75	Rapid Suppression of the Metamagnetic Transition for H//<111> in NdB <sub>6</sub> by La Doping	M. Sera	J. Phys. Soc. Jpn. 7112 (2002 ) pp. 2994-3002	原著
A76	Magnetic Properties in Phase IV of Ce <sub>0.7</sub> La <sub>0.3</sub> B <sub>6</sub> Studied by Muon Spin Relaxation	M. Sera	J. Phys. Soc. Jpn. 711 (2002 ) pp. 31-34	原著
A77	A Novel Method to Improve Adhesion of Electroless Copper Deposition on Polyimide Substrate	Z.Wang, A.Furuya, K.Yasuda, H.Ikeda, T.Baba, M.Hagiwara, S.Toki, S.Shingubara, H.Kubota, T.Ohmi	J. Adhesion Technology, 16 (2002 )pp. 1027- 1040	原著
A78	Fabrication of two- and three-dimensional structures of nanoparticles using LB method and DNA hybridization	T.Takahagi, S.Huang, G.Tsutsui, H.Sakaue, S.Shingubara	Mat. Res .Soc. Symp.Proc. 704 (2002 )pp. 47-52.	原著
A79	Direct Electroless Copper Plating on Barrier Metals without Pd Catalyst	Z. Wang, T. Ida, H. Sawa, H. Sakaue, S. Shingubara, T. Takahagi	Proc. of Advanced Metallization Conference 2001,MRS Conf. Proc. ULSI-XVII (2002 )pp. 185- 190	原著



A80	Evaluation of Temperature Rise Due to Joule Heating and Preliminary Investigation of It's Effect on Electromigration Reliability	S.Shingubara, S.Miyazaki, H.Sakaue, T.Takahagi	American Institute of Physics Conf Proc. 612 (2002 ) pp. 94-104	原著
A81	Formation of Al Dot Hexagonal Array on Si Using anodation and Selective Etching	S.Shingubara, Murakami, H.Sakaue, T.Takahagi	Jpn. J. Appl. Phys. Part. 2413B (2002 ) L340-L343	原著
A82	Copper drift in low dielectric constant Insulator films caused by O <sub>2</sub> <sup>+</sup> primary ion beam	K. Shibahara D. Onimatsu Y. Ishikawa T. Oda T. Kikkawa	Appl. Surf. Sci. Vol. 203-204 (2002) pp.387- 390	
A83	Degradation in a Molybdenum-Gate MOS Structure Caused by N <sup>+</sup> Ion Implantation for Work Function Control",	T. Amada N. Maeda K. Shibahara	Mat. Res. Soc. Symp. Proc. 716 (2002 )pp. 299- 304	原著
A84	Ultra-Shallow Junction Formation with Antimony Implantation	K. Shibahara	IEICE Trans. Electron. E.85- C4 (2002 )pp. 1091-1097	原著
A85	Fabrication of 100 nm Width Fine Active-Region Using LOCOS Isolation	D. Notsu N. Ikeuchi Y. Aoki N. Kawakami K. Shibahara	IEICE Trans. Electron. E.85- C4 (2002 )pp. 1119-1123	原著
A86	Improved Mechanical Strength of Porous Diamond Film by Silane Coupler	H. Sakaue, N. Yoshimura, S. Shingubara T. Takahagi	Mater. Res. Soc. Proc, (2002 )pp. 313-318	原著
A87	Magnetic-history dependent magnetoresistance in UNiAl	O. Syshchenko, K. Prokes, V. Sechovsky, T. Fujita T. Suzuki	Physica B, 311 (2002) pp. 233- 237	原著
A88	Elastic and specific heat critical properties of La <sub>1.85</sub> Sr <sub>0.15</sub> CuO <sub>4</sub>	J. Nyhus, U. Thisted, N. Kikugawa, T. Suzuki, K. Fossheim	Physica C, 369 (2002) pp. 273- 277	原著
A89	Unconventional strain dependence of superconductivity in spin-triplet superconductor Sr <sub>2</sub> RuO <sub>4</sub>	N.Okuda, T.Suzuki, Z. Mao, Y. Maeno, T.Fujita	J. Phy. Soc. Jpn. 71 (2002 )pp. 1134-1139	原著
A90	Novel physical properties in CeMg <sub>2</sub> T <sub>9</sub> (T = Ni, Cu) with two-dimensional alignment of Ce atoms	Y. Nakamori, M. Ito, H. Fukuda, T. Suzuki, H. Fujii, T. Fujita, Y. Kitano	Physica B, 312- 313 (2002 )pp. 235-236	原著

A91	Elastic moduli of unconventional superconductor Sr <sub>2</sub> RuO <sub>4</sub>	N.Okuda, T.Suzuki, Z. Mao, Y. Maeno, T.Fujita	Physica B, 312-313 (2002) pp. 800-802	原著
A92	Electric properties of a URhGe single crystal	K. Prokes, T. Tahara, Y. Echizen, T. Takabatake, T. Fujita, I, H. Hagmusa, JCP. Klaasse, E. Bruck, F.R. de Boer, M. Divis, V.Sechovsky	Physica B311(2002) pp. 220-232	原著
A93	Defect-induced magnetic fluctuations in Yb B12	N. Shishiuchi, Y. Kato. O. M. Vyaselev. M. Takigawa, S. Hiura, F. Iga, T. Takabatake	J. Phys. Chem. Solids, 63 (2002 ) pp. 1231-1234	原著
A94	Thermoelectric properties of binary Cd-Yb quasicrystal and its approximant	Y. Muro, T. Sasukawa, T. Suemitsu, T. Takabatake, R. Tamura, S. Takeuchi	Jpn. J. appl. Phys. 41(2002) pp. 3787-3790	原著
A95	The metal-insulator transition in Y <sub>1-x</sub> CaxTiO <sub>3</sub> caused by phase separation	K. Kato, E. Nishibori, M. Takata, M. Sakata, T. Nakano, K. Uchihira, M. Tsubota, F. Iga, T. Takabatake	J. Phys. Soc. Jpn. 71 (2002) pp. 2082-2085	原著
A96	Neutron scattering studies of non-Fermi liquid behavior in Ce compounds	J.-G. Park, D.T. Adroja, K.A. McEwen, A.P. Murani, J.-Y. So, E. Beirne, Y. Echizen, T. Takabatake	Physica B, 312&313 (2002 ) pp. 475-477	原著
A97	Pressure-dependent studies of Ni-incorporated CeSb	H.C. Kim, S. Lee, J.-G. Park, H.-C. Ri, M.-H. Jung, T. Takabatake, D.T. Adroja, T. Tomita, T. Goto, N. Mori	Physica B, 312&313 (2002 ) pp. 261-263	原著

A98	Influence of electronic structure of CeSbNi <sub>0.15</sub> on its optical conductivity	S.O. Hong B.H. Min, H.J. Lee, S. Kimura, M.H. Jung, T. Takabatake, Y.S. Kwon	Physica B, 312&313 (2002 ) pp. 251-252	原著
A99	Pseudogap formation in the optical spectra of CeNiSn, CeRhSb, and CeRhAs	H. Okamura, M. Matsunami, T. Nanba, T. Suemitsu, T. Yoshino, T. Takabatake, Y. Ishikawa, H. Harima	Physica B, 312&313 (2002 ) pp. 218-220	原著
A100	Shubnikov-de Haas oscillations in CeNiSn	T. Terashima C. Terakura, S. Uji, H. Aoki, Y. Echizen, T. Takabatake	Physica B, 312&313 (2002 ) pp. 213-214	原著
A101	Optical gap in diluted Kondo semiconductors Yb <sub>1-x</sub> LuxB <sub>12</sub> : lattice and single-site effects	H. Okamura M. Matsunami, T. Inaoka, S. Kimura, T. Nanba, F. Iga, S. Hiura, T. Takabatake	Physica B, 312&313 (2002 ) pp. 157-158	原著
A102	Resistivity, Hall effect, and Shubnikov-de Haas oscillations in CeNiSn	T. Terashima, C. Terakura, S. Uji, H. Aoki, Y. Echizen, T. Takabatake	Phys. Rev. B66 2002 075127 (1-7)	原著
A103	Evidence of a ferromagnetic transition in Yb <sub>1-x</sub> LaxB <sub>6</sub> (0<x< 0.006)	F. Iga, Y. Ueda, T. Takabatake, T. Suzuki, W. Higemoto, K. Nishiyama, H. Kawanaka	Phys. Rev. B65 (2002 ) 220408(R)1-4	原著
A104	Electrical resistivity of CeNiSn under uniaxial and hydrostatic pressures	Y. Echizen, K. Umeo, T. Igaue, T. Takabatake	J. Phys.:Cond. Matter 14 (2002 ) pp. 5145-5152	原著
A105	Crystal Structure of the LaRhAs compound	O.L. Sologub, P.S. Salamakha, T. Sasakawa, X.Chen, S. Yamanaka, T. Takabatake	J. Alloys and Compounds345 (2002 )L6-L8	原著

A106	Electronic structures of the Kondo semiconductor YbB12: temperature and non-magnetic dilution effects	H. Okamura, M. Matsunami, T. Inaoka, S. Kimura, T. Nanba, F. Iga, S. Hiura, T. Takabatake	J. Phys. Soc. Jpn. 71 (2002 )pp. 303-305	原著
A107	Optical conductivity of CeNiSn, CeRhSb, and CeRhAs	M. Matsunami, H. Okamura, T. Nanba, T. Suemitsu, T. Yoshino, T. Takabatake, Y. Isikawa, H. Harima	J. Phys. Soc. Jpn. 71 (2002 )pp. 291-293	原著
A108	Field-induced magnetic transitions and pressure-induced magnetic instability in CePdAl	T. Goto, S. Hane, K. Umeo, T. Takabatake, Y. Isikawa	J. Phys. Chem. Solids, 63 (2002 ) pp. 1159-1163	原著
A109	Magnetic and transport properties of the antiferromagnetic Kondo-lattice compound CeNiBi2	M. H. Jung, A. H. Lacerda, T. Takabatake	Phys. Rev. B65 (2002 )132405 (1-3)	原著
A110	Magnetic and transport properties of a new valence-fluctuating compound, CeRhP	T. Sasakawa, T. Suemitsu, J. Kitagawa, O. Sologub, P. Salamakha, T. Takabatake	J. Phys.: Cond. Matter, 14 (2002 ) L267-272	原著
A111	Temperature-dependent Fermi surface in CeBiPt	G. Goll, J. Hagel, H. v. Lohneysen, T. Pietrus, S. Wanka, J. Wosnitza, G. Zwicknagl, T. Yoshino, T. Takabatake, A. G. M. Jansen	Europhys. Lett. 572 (2002 )pp. 233-239	原著
A112	Successive phase transition and energy-gap formation in CeRhAs	T.Sasakawa, T.Suemitsu, T.Takabatake, K.Umeo, M.H.Jung, M.Sera, T.Suzuki, T.Fujita, M.Nakajima, K.Iwasa, M.Kohgi, Ch.Paul, St.Berger, E.Bauer	Physical Review, B66 (2002 ) 041103(1-4)	原著

A113	Effect of defects in ytterbium ion valency in YbB12	T. S. Al 'tshuler, M. S. Bresler, Yu. V. Goryunov, F. Iga, T. Takabatake	Phys. Solid State, 44 (2002 ) pp.1536-1539	原著
A114	Direct observation of the Ce 4f states in the Kondo semiconductor CeRhAs and related compounds: A high-resolution resonant photoemission study	K. Shimada, K. Kobayashi, T. Narimura, P. Baltzer, H. Namatame, M. Taniguchi, T. Suemitsu, T. Sasakawa, T. Takabatake	Phys. Rev. B66 (2002 )	原著
A115	Optical spectroscopic studies of the dispersibility of gold nanoparticle solutions	SH. Huang , K. Minami, H. Sakaue , S. Shingubara , T. Takahagi	J. Appl.Phys .92 (2002 )pp. 7486- 7490	原著
A116	DC Josephson effect in a Tomonaga-Luttinger liquid	Y. Takane	J. Phys. Soc. Jpn. 712 (2002 ) pp. 550-568	原著
A117	Dephasing of the quantum interference effect in open ballistic billiards	Y. Takane	J. Phys. Soc. Jpn. 7111 (2002 ) pp. 2617-2620	原著
A118	Quantum nucleation of phase slip in charge-density-wave systems	Y. Takane	J. Phys. Soc. Jpn. 718 (2002 ) pp. 1824-1827	原著
A119	Coulomb blockade of the collective current in charge-density-wave systems	Y. Takane	J. Phys. Soc. Jpn. 714 (2002 ) pp. 1019-1022	原著
A120	Ferromagnetic resonance effect on resistivity in mesoscopic structures	Y. Takane	J. Phys. Soc. Jpn. 712 (2002 ) pp. 662-663	原著
A121	Electronic Structure and Phase Transition in V2O3: Importance of 3d Spin-Orbit Interaction and Lattice Distortion	A. Tanaka	J. Phys. Soc. Jpn. 71 (2002 )pp. 1091-1107	原著
A122	3d spin-orbit photoemission spectrum of nonferromagnetic materials: The test cases of CoO and Cu	G. Ghiringhelli, L. H. Tjeng, A. Tanaka, O. Tjernberg, T. Mizokawa, J. L. de Boer N. B. Brookes	Phys. Rev. B66 (2002 )75101	原著
A123	Spin-Triplet Superconductivity in UNi2Al3 Revealed by the 27Al Knight Shift Measurement	K. Ishida, D. Ozaki, T. Kamatsuka, H. Tou, M. Kyogaku, Y. Kitaoka, N. Tateiwa, N. K. Sato, N. Aso, C. Geibel, F. Steglich	Physical Review Letters Vol.89, (2002 ) 037002/1-4	原著
A124	Dc-magnetization and 1H-NMR studies of layered superconductor Li0.48(THF)HfNCI	H. Tou, Y. Maniwa, T. Koiwasaki, S. Yamanaka	Physica B Vol. 312-313 (2002 ) pp. 155-156	原著

A125	Magnetic interaction in K-absorbing zeolite LTA	H. Kira, H. Tou, Y. Maniwa, Y. Murakami	Physica B 312: 789-790 MAR 2002	原著
A126	Raman scattering investigation of high temperature ferromagnetic crystals	M.Udagawa, S.Nagai, N.Ogita, F.Iga, R.Kaji, R.Sumida, J.Akimitsu, S.Kunii, R.Suzuki, H.Onodera, Y.Yamaguchi	J.Phys.Soc.Jpn. 71Suppl. 4(2002) pp. 314-316	原著
A127	Nom-Fermi liquid behavior in Ce <sub>2</sub> Rh <sub>3</sub> Ge <sub>5</sub> above the critical pressure of the antiferromagnetic instability	K. Umeo, T. Takabatake, S. Hane, H. Mitamura, T. Goto	Physica B312&313 (2002 ) pp. 403-405	原著
A128	$\mu$ SR studies of the heavy fermion compound Ce <sub>7</sub> Ni <sub>3</sub>	A. Kratzer D. R. Noakes, G. M. Kalvius, E. Schreier, R. Wappling, K. Umeo, T. Takabatake, H. V. Lohneysen	Physica B312&313(2002) pp. 469-471	原著
A129	Electrical conductance of the zigzag nanographite ribbons locally applied gate voltage	K. Wakabayashi T. Aoki	Int. J. Mod. Phys. B1632 (2002 )pp. 4897-4909	原著
A130	Numerical study of the lattice vacancy effects on the single-channel electron transport of nanographite ribbons	K. Wakabayashi	J. Phys. Soc. Jpn. 7110 (2002 ) pp. 2500-2504	原著
A131	Influence of Organic Contaminant on Trap Generation in Thin SiO <sub>2</sub> of Metal-Oxide-Semiconductor Capacitors	T. Yoshio, S. Yokoyama, T. Fujii,	Jpn. J. Appl. Phys 417A(2002) pp. 4750-4753	原著
A132	NH <sub>3</sub> -annealed atomic-layer-deposited silicon nitride as a high-k gate dielectric with high reliability	A. Nakajima, Q.D. M. Khosru, T. Yoshimoto, T. Kidera, S. Yokoyama	Appl. Phys. Lett. 80, No. 7(2002)1252- 1254.	原著
A133	Low Thermal-Budget Ultrathin NH <sub>3</sub> -Annealed Atomic-Layer-Deposited Si-Nitride/SiO <sub>2</sub> Stack Gate Dielectrics With Excellent Reliability	Q. D. M. Khosru A. Nakajima T. Yoshimoto S. Yokoyama	IEEE Electron Device Lett. 234(2002) pp.179-181	原著
A134	Coulomb blockade effects and conduction mechanism in extremely thin polycrystalline-silicon wires	K. Kawamura T. Kidera A. Nakajima S. Yokoyama	J. Appl. Phys. Lett.918(2002)52 13-5220	原著
A135	Reliable extraction of the energy distribution of Si/SiO <sub>2</sub> interface traps in ultrathin metal-oxide-semiconductor	Q. D. M. Khosru A. Nakajima T. Yoshimoto S. Yokoyama	Appl. Phys. Lett.8021(2002)3 952-3954	原著

A136	Fabrication of Si single-electron transistors having double SiO <sub>2</sub> barriers	Y. Ito T. Hatano A. Nakajima S. Yokoyama	Appl. Phys. Lett.8024(2002)4 617-4619	原著
A137	ウエハ保管環境のMOSデバイス特性への影響	横山新 吉野雄信 芝原健太郎 中島安理 吉川公磨 角南英夫 Q.D.M.Khosru	エアロゾル 172(2002) pp 96-104	原著
A138	Conduction mechanism of Si single-electron transistor having a one-dimensional regular array of multiple tunnel junctions	A. Nakajima Y. Ito S. Yokoyama	Appl. Phys. Lett.814(2002)73 3-735	原著
A139	Low-temperature formation of highly reliable silicon-nitride gate dielectrics with suppressed soft-breakdown phenomena for advanced complementary metal-oxide-semiconductor technology	A. Nakajima Q. D. M. Khosru T. Yoshimoto T. Kidera S. Yokoyama	J. Vac. Sci. & Tech. B20 (2002) pp. 1406-1409	原著
A140	High-quality NH <sub>3</sub> -annealed atomic layer deposited Si-nitride/SiO <sub>2</sub> stack gate dielectrics for sub-100 nm technology generations	Q. D. M. Khosru A. Nakajima T. Yoshimoto S. Yokoyama	Solid-State Electronics46(2002) pp. 1659-1664	原著
A141	Response to "Comment on †Reliable extraction of the energy distribution of Si/SiO <sub>2</sub> interface traps in ultrathin metal-oxide-semiconductor structures"[Appl. Phys. Lett. 81, 3681 (2002)]	Q. D. M. Khosru A. Nakajima T. Yoshimoto S. Yokoyama	Appl. Phys. Lett.8119(2002) pp. 3683-3684	原著
A142	Atomic-layer-deposited silicon-nitride/SiO <sub>2</sub> stack-a highly potential gate dielectrics for advanced CMOS technology	A. Nakajima Q. D. M. Khosru T. Yoshimoto S. Yokoyama	Microelectronics Reliability42(2002) pp. 1823-1835	原著
A143	Evaluation of Surface Contamination by Noncontact Capacitance Method under UV Irradiation	M. Kohno, T. Kitagawa, S. Hirae, S. Yokoyama	Extend. Abst. of the Int. Conf. on Solid State Devices and Materials(2002) pp. 724-725	原著
A144	Atomic-layer deposition of ZrO <sub>2</sub> with a Si nitride barrier layer	H. Ishii T. Kidera A. Nakajima S. Yokoyama	Extend. Abst. of the Int. Conf. on Solid State Devices and Materials(2002) pp. 452-453	原著
A145	Effect of Static Electric Field on the Beat Structures in Four-Wave Mixing Signals from Semiconductor Microcavities	Suryadi, Y. Kadoya, K. Watatani, H. Takeda, M. Yamanishi	J. Phys. Soc. Jpn. 71 (2002) pp. 2384-2388	原著
A146	Theory of photon-number squeezing in a heterojunction LED by the nonlinear backward pump process	H. Sumitomo, M. Yamanishi, Y. Kadoya	Phys. Rev. B65 (2002) 165326-1-165326-15	原著
A147	Photon-number squeezing by the nonlinear backward pump process in a constant-voltage heterojunction LED	H. Sumitomo, M. Yamanishi, Y. Kadoya	Phys. Rev. B65 (2002) 165325-1-165325-9	原著

A148 THz Electromagnetic Wave Radiation from Bulk Semiconductor Microcavities Excited by Short Laser Pulses T. Sakurada, Y. Kadoya, M. Yamanishi Japanese J. Appl. Phys. 41 Pt.2 No.3A (2002 ) L256-L259 原著



## B. 分子機能生命科学

	論文課題	著者名	誌名、巻、号、(年 頁)	論文種別
B1	Complete elimination of endosymbiotic algae from <i>Paramecium bursaria</i> and its confirmation by diagnostic PCR	M. Tanaka, M. Murata-Hori, T. Kadono T. Yamada, T. Kawano, T. Kosaka, H. Gosoya	Acta Protozool., 41 (2002) pp.255-261	原著
B2	Peculiar polysaccharide-degrading enzymes encoded by chloroviruses	T. Yamada	Curr. Topics Virol. 2 (2002) pp. 171-177	原著
B3	クロロウイルスのバイオテクノロジーへの利用	山田 隆	生物工学会誌 806 (2002) pp. 239-242	総説
B4	Hydrogen Production of <i>Enterobacter aerogenes</i> altered by extracellular and intracellular redox states	Y. Nakashimada, M.A. Rachman, T. Kakizono, N. Nishio	International J. Hydrogen Energy 27(2002) pp. 1399-1405	原著
B5	Abundance of the RSC nucleosome-remodeling complex is important for the cells to tolerate DNA damage in <i>Saccharomyces cerevisiae</i>	H. Koyama, M. Itoh, K. Miyahara, E. Tsuchiya	FEBS Letters 531(2002) pp. 215-221	原著
B6	Pharmacokinetic study of allixin, a phytoalexin produced by garlic.	Y. Kodera, M. Ichikawa, J. Yoshida, N. Kashimoto, N. Uda, I. Sumioka, N. Ide, K. Ono	Chem. Pharm. Bull. 50(2002) pp. 354-363	原著
B7	Induction of a proliferative response of T cells by a high molecular antigen in <i>Dermatophgoides farinae</i> feces.	A. Tategaki, S. Kawamoto, K. Hashimoto, T. Okuda, T. Aki, O. Suzuki, K. Ono, S. Shigeta	Int. Arch. Allergy Immunol. 127(2002) pp. 276-284	原著
B8	Der f 16: a novel gelsolin related molecule identified as an allergen from the house dust mite, <i>Dermatophgoides farinae</i> .	S. Kawamoto, T. Suzuki, T. Aki, T. Katsutani, S. Tsuboi, S. Shigeta, K. Ono	FEBS Lett. 516(2002) pp. 234-238	原著
B9	Enzymatic preparation of glycerides rich in docosahexaenoic acid from <i>Thraustochytrid</i> single cell oils by <i>Candida rugosa</i> Lipase.	J. Hung, T. Aki, S. kawamoto, S. Shigeta, K. Ono, O. Suzuki	J. Oleo Sci.51(2002)447- 455	原著
B10	Simple preparation of TiO <sub>2</sub> particles dispersed activated carbons and their photo-sterilization activity.	H. Tamai, N. Katsu, K. Ono, H. Yasuda,	J. Materials Sci. 37(2002) pp. 3175-3180	原著

B11	Physical, Chemical and biological properties of S-allylcysteine, an amino acid derived from garlic.	Y. Kodera, A. Suzuki, O. Imada, S. Kasuga, I. Sumioka, A. Kauezawa, N. Tares, M. Fujikawa, S. Nagae, K. Masamoto, K. Maeshige, K. Ono	J. Agric. Food Chem . 503(2002) pp. 622-632	原著
B12	Enhancement of (R,R)-2,3-butanediol production from xylose by <i>Paenibacillus polymyxa</i> at elevated temperatures.	B. Marwoto, Y. Nakashimada, T. Kakizono, N. Nishio	Biotechnol. Lett. 24(2002) pp. 109-114	原著
B13	A RelA-SpoT homolog (Cr-RSH) identified in <i>Chlamydomonas reinhardtii</i> generates stringent factor in vivo and localizes to chloroplasts in vitro	K. Kasai, S. Usami, T. Yamada Y. Endo, K. Ochi, Y. Tozawa	Nucleic Acids Res, 30 (22) (2002) pp. 4985- 4992	原著
B14	Evolution of <i>rbcl</i> group IA introns and intron open reading frames within the colonial Volvocales (Chlorophyceae)	H. Nozaki, M. Takahara, A. Nakazawa Y. Kita, T. Yamada, H. Takano,	Mol. Phylogenet. Evol. 23 (2002) pp. 326-338	原著
B15	Chitin synthesis in chlorovirus CVK2-infected <i>Chlorella</i> cells	T. Kawasaki, M. Tanaka, M. FujieS. Usami, K. Sakai, T. Yamada	Virology 302(2002) pp. 123-131	原著
B16	A variable region on the chlorovirus CVK2 genome contains five copies of the gene for Vp260, a viral-surface glycoprotein	N. Chuchird, K. Nishida, T. Kawasaki M. Fijie, S. Usdami, T. Yamada	Virology, 295 (2002) pp. 289- 298	原著
B17	微生物による赤潮藻類の殺藻	加藤純一 李宣沃 大竹久夫 満谷淳	Bio Industry 191(2002) pp. 36-43	原著
B18	醤油醸造副産物の処理と有効利用	中島田 豊 古林 万木夫 野村 暢彦	バイオサイエンス とインダストリー 60(2002) pp. 807-812	原著
B19	Biological and chemical treatment of the solid waste from the process of soy sauce manufacture	H. Nagai, M. Kobayashi Y. Tsuji, Y. Nakashimada, T. Kakizono,	Water Science and Technology 45(2002) pp. 335-338	原著

B20	スギ花粉、ダニ抗原の分子種構成と分子多型	小埜和久 藤村孝志 河本正次 秋 庸裕 重田征子 坪井信治 勝谷 隆 林 鷹治	アレルギー科 14(2002) pp. 275-284	総説
B21	Development of novel biological process for recovering phosphorus from wastewater.	H.Ohtake, A..Kuroda, J.Kato, N.Takiguchi,	Journal of Chemical Industrial Engineering (China) 53(2002) pp. 21-22	原著
B22	functional differences between RSC1 and RSC2, components of a growth essential chromatin-remodeling complex of <i>Saccharomyces cerevisiae</i> , during the sporulation process	M. Yukawa, H. Koyama, K. Miyahara, E. Tsuchiya	FEMS Yeast Research 2(2002) pp. 87-91	原著
B23	Biosynthesis of the Cyclitol Moiety of Pyralomicin 1a in <i>Nonomurea spiralis</i> MI178-34F18	H. Naganawa, H. Hashizume, Y. Kubota, R. Sawa, Y. Takahashi, K. Arakawa, S. G. Bowers, T. Mahmud	J. Antibiot, 55,6(2002) pp. 578-584	原著
B24	Characterization of the Early Stage Aminoshikimate Pathway in the Formation of 3-Amino-5-hydroxybenzoic Acid: The RifN Protein Specifically Converts Kanosamine into Kanosamine 6-phosphate	K. Arakawa, R. Muller, T. Mahmud, Tin-Wein Yu, H. G. Floss	J. Am. Chem. Soc. 124,36(2002) pp. 10644-10645	原著
B25	Fission yeast <i>Mor2/Cps12</i> , a protein similar to <i>Drosophila furry</i> , is essential for cell morphogenesis and its mutation induces <i>Wee1</i> -dependent G2 delay	D. Hirata, N. Kishimoto, M. Suda, Y. Sogabe, S. Nakagawa, Y. Yoshida, K. Sakai, M. Mizunuma, T. Miyakawa, J. Ishiguro, T. Toda	EMBO J.vol. 21 No.18(2002) pp. 4863-4873	原著
B26	Isolation and characterization of thermophilic benzothiophene-degrading <i>Mycobacterium</i> sp. Y.	Watanapokasin, S. Nuchfoang, S. Nilwarangkoon, S. Sarangbin, T. Kakizono,	Appl. Biochem. Biotechnol. 98- 100(2002) pp. 301-309	原著
B27	Phosphatidylinositol 3-phosphate 5-kinase is required for the cellular response to nutritional starvation and mating pheromone signals in <i>Schizosaccharomyces pombe</i>	M. Morishita, F. Morimoto, K. Kitamura, T. Koga, Y. Fukui, H. Maekawa, I. Yamashita, C. Shimoda	Genes to Cells 7(2002) pp. 199- 215	原著

B28	Fission yeast F-box protein Pof3 is required for genome integrity and telomere function	S. Katayama, K. Kitamura, A. Lehmann, O. Nikaido, T. Toda	Mol. Bio. Cell13(2002) pp. 211-224	原著
B29	Characterization of the dnaK locus in <i>Streptomyces griseus</i>	K. Inada, H. Kinashi, O. Nimi, T. Hasegawa, H. Shinkawa	Actinomycetologi ca 16,2(2002) pp. 37-40	原著
B30	Cloning and analysis of telomere and the terminal inverted repeat of the linear chromosome of <i>Streptomyces griseus</i>	K. Goshi., T. Uchida, A. Lezhava, M. Yamasaki, K. Hiratsu, H. Shinkawa, H. Kinashi	J. Bacteriol. 184, 12(2002) pp. 3411-3415	原著
B31	A simple method to release polyphosphate from activated sludge for phosphorus reuse and recycling	A. Kuroda, N. Takiguchi, T. Gotanda, K. Nomura, J. Kato, T. Ikeda, H. Ohtake	Biotechnology and Bioengineering, 783(2002) pp. 333-338	原著
B32	Cloning and characterization of extracellular metal protease gene of the algicidal marine bacterium <i>Pseudoalteromonas</i> sp. strain A28	S.-O. Lee, J. Kato, K. Nakashima, A. Kuroda, T. Ikeda, N. Takiguchi, H. Ohtake	Bioscience, Biotechnology, and Biochemistry, 666(2002) pp. 1366-1369	原著
B33	Statistical analysis of <i>Pseudomonas aeruginosa</i> biofilm development: Impact of mutations in genes involved in twitching motility, cell-to-cell signaling, and stationary-phase sigma factor expression	A. Heydron, B. Erbsoll, J. Kato, M. Hentzer, M. P. Parsek, T. Tolker-Nielsen, M. Givskov, S. Molin	Applied and Environmental Microbiology, 684(2002) pp. 2008-2017	原著
B34	Behavioral responses of the ciliated protozoan <i>Paramecium caudatum</i> to 2,4-dichlorophenoxyacetic acid and its analogues	N. Takiguchi, T. Tajima, K. Asayama, T. Ikeda, A. Kuroda, J. Kato, H. Ohtake	Journal of Bioscience and Bioengineering, 934(2002) pp. 416-420	原著
B35	Isolation and characterization of cbbL and cbbS genes encoding form I riblose-1,5-bisphosphate carboxylase/oxygenase large and small subunits in <i>Nitrosomonas</i> sp. strain ENI-11	R. Hirota, J. Kato, H. Morita, A. Kuroda, T. Ikeda, N. Takiguchi, H. Ohtake	Bioscience, Biotechnology, and Biochemistry, 663(2002) pp. 632-635	原著

- B36 Accumulation of inorganic polyphosphate in phoU mutants of *Escherichia coli* and *Synechocystis* sp. strain PCC6803. T. Morohoshi, T. Maruo, Y. Shirai, J. Kato, T. Ikeda, N. Takiguchi, H. Ohtake, A. Kuroda 68(2002) pp. 4107-4110 原著
- B37 A sensitive method for detecting AMP by utilizing polyphosphate-dependent ATP regeneration and bioluminescence reactions. S. Tanaka, A. Kuroda, J. Kato, T. Ikeda, N. Takiguchi, H. Ohtake Biochem. Eng. J.9(2002) pp. 193-197 原著
- B38 Identification of *Saccharomyces cerevisiae* isoleucyl-tRNA synthetase as target of G1-specific inhibitor reveromycin A Y. Miyamoto, K. Machida, M. Mizunuma, Y. Emoto, N. Sato, K. Miyahara, D. Hirata, T. Usui, H. Takahashi, H. Osada, T. Miyakawa J. Biol. Chem. 277(2002) pp. 28810-28814 原著
- B39 Rpf2p, an evolutionarily conserved protein, interacts with ribosomal protein L11 and is essential for the processing of 27 SB pre-r-RNA to 25 S rRNA and the 60 S ribosomal subunit assembly in *Saccharomyces cerevisiae* D. Morita, K. Miyoshi, Y. Mtsui, A. Toh-e, H. Shinkawa, T. Miyakawa, K. Mizuta J. Biol. Chem. 277, 32(2002) pp. 28780-28786 原著
- B40 isolation of yeast *Kurtzmanomyces* sp. I-11, novel producer of mannosylerythritol lipid K. Kakugawa, M. Tamai, K. Imamura, K. Miyamoto, S. Miyoshi, Y. Morinaga, O. Suzuki, T. Miyakawa Biosci. Biotechnol. Biochem. 661(2002) pp. 188-191 原著
- B41 Cloning, characterization and expression of cDNA encoding a lipase from *Kurtzmanomyces* sp. I-11. K. Kakugawa, M. Shobayashi, O. Suzuki, T. Miyakawa Biosci. Biotechnol. Biochem. 666(2002) 原著
- B42 Purification and characterization of lipase from glycolipid-producing yeast *Kurtzmanomyces* sp. I-11 K. Kakugawa, M. Shobayashi, O. Suzuki, T. Miyakawa Biosci. Biotechnol. Biochem. 665(2002) pp. 978-985 原著
- B43 Allixin accumulation with long term storage of garlic. Y. Kodera, M. Ayabe, K. Ogasawara, S. Yoshida, N. Hayashi, K. Ono Chem. Pharm. Bull. 50(2002) pp. 405-407 原著

B44	Identification and expression of a mammalian fatty acid elongase involved in de novo biosynthesis of C18 fatty acids.	K. Inagaki, T. Aki, Y. Fukuda, S. Kawamoto, S. Shigeta, K. Ono, O. Suzuki	Biosci. Biotech. Biochem. 66(2002) pp. 613-621	原著
B45	Toward elucidating the full spectrum of mite allergen -- state of the art.	S. Kawamoto, T. Aki, M. Yamashita, A. Tategaki, T. Fujimura, S. Tsuboi, T. Katsutani, O. Suzuki, S. Shigeta, Y. Murooka, K. Ono	J. Biosci. Bioeng. 94(2002) pp. 285-298	原著
B46	A high-molecular-weight mite antigen (HM1) fraction aggravates airway hyperresponsiveness of allergic mice to house dusts and whole mite cultures	A. Tategaki, S. Kawamoto, T. Okuda, T. Aki, H. Yasueda, O. Suzuki, K. Ono, S. Shigeta	Int. Arch. Allergy Immunol. 129(2002) pp. 204-211	原著
B47	Purification and characterization of a novel fungal $\alpha$ -glucosidase from <i>Mortierella alliacea</i> with high starch-hydrolytic activity.	Y. Tanaka, T. Aki, Y. Hidaka, Y. Furuya, S. Kawamoto, S. Shigeta, K. Ono, O. Suzuki	Biosci. Biotech. Biochem. 66(2002) pp. 2415-2423	原著
B48	Molecular cloning and characterization of a new Japanese cedar pollen allergen homologous to plant isoflavone reductase family	S. Kawamoto, T. Fujimura, M. Nishida, T. Tanaka, T. Aki, M. Masubuchi, T. Hayashi, O. Suzuki, S. Shigeta, K. Ono	Clin. Exp. Allergy, 32(2002) pp. 1064-1070	原著
B49	Tobacco Plants were transformed by agrobacterium rhizogenes infection during their evolution	K. Suzuki, I. Yamashita, N. Tanaka	Plant J. 32(2002) pp. 775-787	原著
B50	Aryl hydrocarbon receptor is required for prevention of blood clotting and for the development of vasculature and bone in the embryos of Medaka fish, <i>Oryzias latipes</i>	T. Kawamura, I. Yamashita	Zoological Science, 19(2002) pp. 309-319	原著
B51	Estrogen inhibits development of yolk veins and causes blood clotting in transgenic Medaka fish overexpressing estrogen receptor	T. Kawamura, S. Sakai, S. Omura, R. Hori-e, T. Kawahara, M. Kinoshita, I. Yamashita	Zoological Science, 19(2002) pp. 1355-1361	原著

B52 Nanostructured Graphite-Hydrogen Systems  
prepared by Mechanical Milling Method.

S. Orimo,  
T. Matsushima,  
H. Fujii,  
T. Fukunaga,  
G. Mayer,  
A. Zuttel  
L. Schlapbach;

Mol. Cryst. Liq.  
Cryst. 386  
(2002) 173-178.

原著

博士論文(Doctorial Dissertations)

論文題目	著者名	主査	副査	
新規に取得した酵母が生産する糖脂質および耐熱性リパーゼに関する研究	角川 幸治	宮川都吉	小埜和久, 加藤純一	2002
Studies on Physical, Chemical and Biological Properties of Allixin (3-Hydroxy-5-methoxy-6-methyl-2-pentyl-4-H-pyran-4-one), a Novel Stress Compound, Produced by Garlic ( <i>Allium sativum</i> L.). ニンニク( <i>Allium sativum</i> L.)の生産する新規化合物アリキシン(3-ハイドロキシ-5-メトキシ-6-メチル-2-ペンチル-4H-ピラン-4-オン)の物理的,化学的及び生物学的諸性質に関する研究	小寺 幸広	小埜和久	木梨陽康, 重田征子, 池田 幸	2002
ポリリン酸の代謝に関わる酵素の生化学的解析と応用	田中 正太郎	大竹久夫	宮川都吉, 山田 隆	2002
Genomic variability and host-range selection of chloroviruses (クロロウイルスのゲノム可変性と宿主選択に関する研究)	Niti Chuchird	山田 隆	小埜和久, 加藤純一	2002
アンモニア酸化細菌 <i>Nitrosomonas</i> sp. ENI-11株のアンモニア酸化系遺伝子群の分子生物学的解析	廣田 隆一	大竹久夫	木梨陽康, 西尾尚道	2002
Studies on Polyunsaturated Fatty Acids Produced by <i>Thraustochytrids</i> (トラウストキトリドが生産する高度不飽和脂肪酸に関する研究)	黄 建忠	小埜和久	西尾尚道, 加藤純一, 秋 庸裕	2002
Genetic and Biochemical Investigation of Algicidal Mechanism from the Algicidal Marine Bacterium <i>Pseudoalteromonas</i> sp. Strain A28 (赤潮殺藻細菌の赤潮殺藻機構の分子生物学的解析)	李 宣沃	大竹久夫	山下一郎, 土屋英子	2002
Superconductivity and Phase Diagram of Tetragonal $La_{2-x}Sr_xCuO_4$ studied by Resistivity Measurements under Pressure (圧力下の電気抵抗率測定による正方晶 $La_{2-x}Sr_xCuO_4$ の超伝導および相図の研究)	堀 純也	藤田敏三	小口多美夫, 宇田川眞行, 鈴木孝至	2002
Study of Type-B Coherent Electron-Positron Pair Production in a Crystal (結晶におけるタイプBコヒーレント電子陽電子対生成の研究)	岡崎 良子	遠藤一太	城 健男, 小方 厚, 杉立 徹	2002
高分子ダニアルレルゲンのT細胞活性化の解析	立垣 愛郎	小埜和久	山田 隆, 土屋英子, 重田征子	2002



既刊図書(Published Books)

著書名(編集者)	著者名	発行所	発行年	編著訳・ 分担執筆等 の区別
化学フロンティア(7)ナノマテリアル最前線 - 現実になった究極のものづくり-	若林克法	化学同人	2002	分担執筆
クリーンルーム設計と運転 維持管理、第11章クリーンルームの技術動向と今後の展望 第1節スーパークリーンルーム	横山 新	(株)情報機構、	2002	分担執筆
酵母の特殊な変異形質を利用するCa <sup>2+</sup> シグナル伝達に作用する薬剤のポジティブスクリーニング	下向敦範、 水沼正樹、 平田大、 高橋英俊、 宮川都吉	日本農芸化学会誌	2002	共著
月刊 マテリアル インテグレーション	金光義彦、 松本貴裕、 他10名	(株)ティー・アイ・シー	2002	共著
微生物学の基礎? 真核生物 微生物利用の大展開 (今中忠行監修)	山田 隆	エヌ・ティー・エス	2002	分担執筆
微生物学の基礎? ウイルス 微生物利用の大展開 (今中忠行監修)	山田 隆	エヌ・ティー・エス	2002	分担執筆
タウア・ニン 最新VLSIの基礎	芝原健太郎、 竹内潔、 寺内衛、 寺田和夫、 堀敦、 宮本恭幸	丸善	2002	共訳
生物学実験書 改訂版	小埜和久、 新川英典	培風館	2002	分担執筆
生命工学への招待	松永是、 養王田正文、 他28名	朝倉書店	2002	分担執筆
多層配線技術の最新動向 - 銅配線 / 低誘電率膜 生物的メタン生産	新宮原正三 西尾尚道、 中島田豊	EDリサーチ社 エヌ・ティー・エス 微生物利用の大展開	2002 2002	単著 分担執筆
計算機科学を利用した生物プロセスの解析 - 定性的シミュレーションと定量的シミュレーション -	西尾尚道、 中島田豊	シーエムシー出版	2002	分担執筆
生命体ソフトウェアの進化	西尾尚道、 中島田豊	科学と工業	2002	共著
微生物利用の大展開	西尾尚道、 加藤純一	エム・ティー・エス	2002	分担執筆
固体物理 (強相関電子系におけるスピン3重項超伝導-NMR実験を中心として)	石田憲二、 藤 秀樹、 北岡良雄	アグネ	2003	共著
人工生命体の時代 生命工学への招待 - 基礎と応用 - (松永是編著)	大竹 久夫	朝倉書店	2002	編著 共編著
人工生命 バイオテクノロジーの流れ 過去から未来へ 改訂第2版 (太田隆久監修)	大竹 久夫	化学工業日報社	2002	共著
人工生命 人工生命体の時代 計測技術の進歩	大竹久夫 大竹久夫 滝口昇	化学工業日報社 朝倉書店 シーエムシー出版	2002	分担執筆
固体物理 (新しい超伝導体 電子ドープ型層状窒化物Li <sub>x</sub> (THF) <sub>y</sub> HfCl <sub>2</sub> -風変わった超伝導体か?)	藤秀樹	アグネ	2002	単著

広島大学低温センターだより(電子ドープ型層状窒化物の奇妙な超伝導特性)	藤秀樹	広島大学低温センター	2002	単著
進化する酵母 -Fission Yeast-	平田 大、 桐沢和恒、 須田雅子	秀潤社(細胞工学)	2002	共著
2001年ノーベル医学生理学賞 解く・3人の細胞周期研究者」	細胞分裂制御の謎を 平田大	化学同人(化学)	2002	単著

既登録 出願特許(Patents)

特許の名称	申請番号・登録番号	発明者(全員)	既登録・出願年月日	状況
アレルギー遺伝子による形質転換乳酸菌	特開2002-281966	室岡義勝、山下光雄、小埜和久、河本正次	2002,10	登録済み
組換えアレルギー	第3325332	小埜和久、重田征子、和田武志	2002,7	登録と権利取得
精製ダニアレルギー	第3302418	岡智、小埜和久、重田征子、和田武志	2002,4	登録と権利取得
新規なスギ花粉アレルギー遺伝子および該遺伝子がコードするタンパク質またはその抗原性断片	特開2002-058487	小埜和久、重田征子、河本正次、益淵正典、田中俊典	2002,2	登録済み
IgE産生抑制剤	特開2002-047176	中島寿昭、青山倫也、鈴木修、小埜和久、河本正次	2002,2	登録済み
ファジイ推論装置	第038658号	佐々木守	2002,1	登録と権利取得
ファジイ推論装置	第038421号	佐々木守	2002,1	登録と権利取得
基板表面酸化防止の方法および装置 (防止基板表面酸化之方法及装置)		横山 新	2002,3	登録と権利取得