
既刊研究報告 (Published Papers)

A. 量子物質科学

論文題目	著者名	誌名, 巻, 号 (年頁)	論文種別
A1 Hartree-Fock study on the $5f$ orbital magnetic moment of US	Tatsuya Shishidou Tamio Oguchi Takeo Jo	Physical Review B, 59 , 10 (1999) pp. 6813–6823	原著
A2 Orbital moment sum rule for isotropic X-ray absorption spectrum in more-than-half valence shells	T. Jo S. Imada J. van Elp	Physica B, 259-261 , (1999) pp. 1151–1152	原著
A3 An Interpretation of Magnetic Circular Dichroism in 3d-2p X-Ray Emission for Ferromagnetic Fe, Co and Ni	Takeo Jo Jean-Claude Parlebas	Journal of the Physical Society of Japan, 68 , 4 (1999) pp. 1392–1397	原著
A4 Resonant Photoemission Spectroscopy in the Mn 2p-3d Excitation Region of Ni-As-Type MnTe	Hitoshi Sato Arata Tanaka Akihito Furuta Shinya Senba Hiroyuki Okuda Kojiro Mimura Masashi Nakatake Yoshifumi Ueda Masaki Taniguchi Takeo Jo	Journal of the Physical Society of Japan, 68 , 6 (1999) pp. 2132–2138	原著
A5 Tight-Binding Approach to Natural Circular Dichroism in the X-Ray Region	Makoto Okutani Takeo Jo Paolo Carra	Journal of the Physical Society of Japan, 68 , 10 (1999) pp. 3191–3194	原著
A6 Intersite Effects on Valence Band Spectra of Undoped CuO_2 Plane and CuO_3 Chain	A. Tanaka	J. Phys. Soc. Jpn., 68 , 11 (1999) pp. 3493–3496	原著
A7 Threshold electronic structure at the oxygen K edge of 3d-transition-metal oxides: A configuration interaction approach	J. van Elp A. Tanaka	Phys. Rev. B, 60 , 8 (1999) pp. 5331–5339	原著
A8 Stability of Fulde-Ferrell-Larkin-Ovchinnikov state in type-II superconductors against the phase fluctuations	Hiroshi Shimahara	Physica B, 259-261 , (1999) pp. 492–493	原著
A9 Exactly Aligned Magnetic Field and the Fulde-Ferrell-Larkin-Ovchinnikov State in Quasi-Low-Dimensional Superconductors	Hiroshi Shimahara	Journal of Superconductivity, 12 , 3 (1999) pp. 469–473	原著

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A10 Enhancement of the Upper Critical Field Due to a Fermi-Surface Effect in Quasi-Two-Dimensional Superconductors in Parallel Magnetic Fields	Hiroshi Shimahara	J.Phys.Soc.Jpn., 68 , 9 (1999) pp. 3069–3075	原著
A11 FLAPW calculations of the magneto-optical Kerr effect of bcc Fe	H. Miyazawa T. Oguchi	Journal of Magnetism and Magnetic Materials, 192 , (1999) pp. 325–333	原著
A12 First-principles investigation of the magneto-optical Kerr effect	H. Miyazawa T. Oguchi	Journal of the Magnetism Society of Japan, 23 , (1999) pp. 355–357	原著
A13 Theoretical study of the exchange force between magnetic films	K. Nakamura T. Oguchi H. Hasegawa K. Sueoka K. Hayakawa K. Mukasa	Journal of the Magnetism Society of Japan, 23 , (1999) pp. 724–726	原著
A14 Possibility of measuring exchange force through force microscopy	K. Nakamura T. Oguchi H. Hasegawa K. Sueoka K. Hayakawa K. Mukasa	Applied Surface Science, 140 , (1999) pp. 366–370	原著
A15 Angle-dependent magnetoresistance oscillation in the layered perovskite Sr_2RuO_4	E. Ohmichi H. Adachi Y. Mori Y. Maeno T. Ishiguro T. Oguchi	Physical Review B, 59 , (1999) pp. 7263–7265	原著

論文題目	著者名	誌名, 巻, 号 (年頁)	論文種別
A16 High Resolution $4d-4f$ Resonance Photoemission Spectroscopy of CePdX (X=A, Sb)	T. Iwasaki S. Suga S. Imada A. Sekiyama T. Muro S. Ueda M. Saeki H. Harada T. Matsushita H. Ishii O. Sakai R. Takayama T. Suzuki M. Akuura T. Oguchi K. Katoh A. Ochiai	Journal of the Physical Society of Japan, 68 , (1999) pp. 1716-1724	原著
A17 Surface core-level shift in oxygen adsorbed W(110) surface	T. Oguchi	Surface Science, 438 , (1999) pp. 37-42	原著
A18 Theoretical study of STM in Cu(001)-(2×1)-Li	I. Ohsaki T. Oguchi	Surface Science, 438 , (1999) pp. 26-30	原著
A19 First-principles investigation of the magneto-optical Kerr effect of metallic multilayers	H. Miyazawa T. Oguchi	Journal of the Physical Society of Japan, 68 , (1999) pp. 1412-1422	原著
A20 First-principles calculation of the exchange force on a magnetic Fe surface	K. Nakamura T. Oguchi H. Hasegawa K. Sueoka K. Hayakawa K. Mukasa	Applied Surface Science, 142 , (1999) pp. 433-437	原著
A21 Electronic Structure Theory for Condensed Matter Systems	T. Ohno T. Oguchi	Computational Materials Design, (1999) pp. 1-38	総説
A22 Mean field theory of U $M_{4,5}$ absorption MCD for US	T. Shishidou T. Jo T. Oguchi J.-C. Parlebas	Physica B, 259-261 , (1999) pp. 1161-1162	原著
A23 Magnetic Helicity in Space and Laboratory Plasmas	Kanya Kusano	Geophysical Monograph, 111 , (1999) pp. 149-156	原著

論文題目	著者名	誌名, 卷, 号 (年頁)	論文種別
A24 Electron localization in chains and ladders	Hiroyuki Mori	Annalen der Physik, 8 , 7-9 (1999) pp. 181	原著
A25 Crystalline Electric Field Ground State of NdB ₆	M. Sera M. Hiroi S. Awaji N. Kobayashi S. Sakatsume S. Kunii	Jpn. J. Appl. Phys., 11 , (1999) pp. 191-193	原著
A26 Magnetic Properties of the antiferro (AF) quadrupolar ordered state dominated by the AF octupolar and AF exchange interactions - A Simple Model for CeB ₆ -	M. Sera S. Kobayashi	J. Phys. Soc. Jpn., 68 , 5 (1999) pp. 1664-1678	原著
A27 Hole-induced antiferromagnetic ordering in the spin singlet state of the ladder/chain material : Sr _{2.5} Ca _{11.5} Cu ₂₄ O ₄₁	T. Nagata H. Fujino J. Akimitsu M. Nishi K. Kakurai S. Katano M. Hiroi M. Sera N. Kobayashi	J. Phys. Soc. Jpn., 68 , 7 (1999) pp. 2206-2209	原著
A28 Metamagnetic Transition in NdB ₆ with a Small Magnetic Anisotropy in Low Magnetic Field	S. Awaji M. Sera M. Hiroi S. Kobayashi N. Kobayashi S. Kunii	J. Phys. Soc. Jpn., 68 , 8 (1999) pp. 2518-2521	原著
A29 Antiferro-multipolar short range order above the antiferro-quadrupolar ordering temperature in CeB ₆	S. Kobayashi M. Hiroi M. Sera N. Kobayashi S. Kunii	J. Phys. Soc. Jpn., 68 , 10 (1999) pp. 3407-3412	原著
A30 Magnetic phase diagram of Ce _{0.4} La _{0.6} B ₆ up to 15T investigated by specific heat measurements	M. Hiroi S. Kobayashi M. Sera N. Kobayashi S. Kunii	Physica B, 259-261 , (1999) pp. 34-35	原著

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A31 Possibility of Quantum Hall Effect in Quasi-Two-Dimensional η -Mo ₄ O ₁₁ Crystal	M. Sasaki N. Miyajima H. Negishi S. Negishi M. Inoue H. Kadomatsu G. Machel	Solid State Commun., 109 , (1999) pp. 357–362	原著
A32 Anisotropies in the Magnetotransport Properties of Quasi-Two-Dimensional η -Mo ₄ O ₁₁	M. Sasaki N. Miyajima H. Negishi W. X. Gao M. Inoue H. Kadomatsu G. Machel H. Nojiri M. Motokawa	J. Phys. Soc. Jpn., 68 , 2 (1999) pp. 539–547	原著
A33 Photoinduced transient thermoelectric effect in perovskite manganite Pr _{0.67} Sr _{0.33} MnO ₃ film	M. Sasaki G. R. Wu W. X. Gao H. Negishi M. Inoue G. C. Xiong	Phys. Rev. B, 59 , 19 (1999) pp. 12425–12430	原著
A34 Transport Properties of Molecular Conductors (DMe-DCNQI) ₂ Cu and Its Deuterated Crystals	M. Inoue M. Sasaki H. Negishi R. Kato	Synth. Met., 103 , (1999) pp. 2103–2104	原著
A35 Possibility of Chiral-Surface-State Originated Bulk Quantum Hall Effect in η -Mo ₄ O ₁₁	M. Sasaki N. Miyajima W. X. Gao H. Negishi H. Kadomatsu M. Inoue	Synth. Met., 103 , (1999) pp. 2660–2661	原著
A36 Nonlinear Response of Pulsed Electric Field in η -Mo ₄ O ₁₁ Crystal under Magnetic Field	M. Sasaki Y. Kawamura W. X. Gao H. Negishi M. Inoue	Synth. Met., 103 , (1999) pp. 2662	原著

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A37 Quantum Hall Effect in the Bulk Semiconductor Bismuth and Antimony Tellurides: Proof of the Existence of a Current-Carrier Reservoir	V. A. Kulbachinskii A.Y. Kaminskii N. Miyajima M. Sasaki H. Negishi M. Inoue H. Kadomatsu	JETP Lett., 70 , (1999) pp. 767-771	原著
A38 Impurity Scattering by Guest 3d Metals and Their Impurity Band Formation in M_xTiS_2	H. Negishi S. Kakita H. Yamada S. Negishi M. Sasaki M. Inoue	Solid State Commun., 112 , (1999) pp. 275-279	原著
A39 Pump power dependence of coherent phonons in $\eta-Mo_4O_{11}$	K. Kisoda M. Hase H. Harima S. Nakashima K. Sakai M. Tani H. Negishi M. Inoue	Physica B, 263-264 , (1999) pp. 51-53	原著
A40 Infrared Study of the Broken Symmetry Ground States in $\eta-Mo_4O_{11}$	Z. Zhu J.L. Musfeldt Y.J. Wang J. Sarro Z. Fisk H. Negishi M. Inoue	Synth. Met., 103 , (1999) pp. 2238-2241	原著
A41 Angle-Resolved Photoemission Study of Ni-Intercalated 1T-TiS ₂	T. Matsushita S. Suga A. Kimura H. Negishi M. Inoue	Phys. Rev. B, 60 , 3 (1999) pp. 1678-1686	原著
A42 Magnetic excitations in the Kondo compound CeRhSb	K. Ohoyama M. Kohgi T. Yoshino T. Takabatake W. Hahn R.S. Eccleston	Physica B, 259-261 , (1999) pp. 283-284	原著
A43 Effect of Kondo-hole impurity on the pseudogap in CeNiSn	Y. Echizen T. Takabatake	Physica B, 259-261 , (1999) pp. 292-293	原著

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A44 Kondo-semiconductor to Kondo-impurity transition in the heat capacity of $\text{Yb}_{1-x}\text{Lu}_x\text{B}_{12}$	F. Iga S. Hiura J. Klijn N. Shimizu T. Takabatake M. Ito Y. Matumoto F. Masaki T. Suzuki T. Fujita	Physica B, 259-261 , (1999) pp. 312-314	原著
A45 Optical Spectra of the Kondo Semiconductor YbB_{12}	H. Okamura S. Kimura H. Shinozaki T. Nanba F. Iga N. Shimizu T. Takabatake	Japanese Journal of Applied Physics Series, 11 , (1999) pp. 85-87	原著
A46 Effects of High Pressure and High-Magnetic Field on the Energy Gap in a Kondo Semiconductor YbB_{12}	F. Iga T. LeBihan D. Braithwaite J. Flouquet M. Idiri K. Kindo N. Takamoto I. Oguro N. Shimizu S. Hiura T. Takabatake	Japanese Journal of Applied Physics Series, 11 , (1999) pp. 88-90	原著
A47 High-Resolution Photoemission Study of the Kondo Insulator YbB_{12}	T. Susaki Y. Takeda M. Arita K. Mamiya A. Fujimori K. Shimada M. Taniguchi F. Iga T. Takabatake M. Kasaya S. Suga H. Harima	Japanese Journal of Applied Physics Series, 11 , (1999) pp. 94-96	原著

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A48 Optical study of the gap formation and low-energy excitations in YbB ₁₂	H. Okamura S. Kimura H. Shinozaki T. Nanba F. Iga N. Shimizu T. Takabatake	Physica B, 259-261 , (1999) pp. 317–318	原著
A49 Magnetic instability in Ce ₇ Ni ₃ studied by low-temperature specific heat and magnetic susceptibility	K. Umeo T. Pietrus H.v. Lohneysen T. Takabatake	Physica B, 259-261 , (1999) pp. 407–408	原著
A50 Temperature-dependent high-resolution photoemission study of the Kondo insulator YbB ₁₂	T. Susaki Y. Takeda M. Arita K. Mamiya A. Fujimori K. Shimada H. Namatame M. Taniguchi N. Shimizu F. Iga T. Takabatake	Phys. Rev. Lett., 82 , (1999) pp. 992–995	原著
A51 Anisotropic behavior of magnetic and transport properties in CePdSb and CePtSb	K. Katoh T. Takabatake I. Oguro A. Ochiai A. Uesawa T. Suzuki	J. Phys. Soc. Jpn., 68 , (1999) pp. 613–619	原著
A52 Crystal growth and magnetoresistance of a superconductor LaRhSb	T. Yoshino T. Takabatake	J. Phys. Soc. Jpn., 68 , (1999) pp. 1456–1457	原著
A53 Magnetic excitations in a single crystal of the Kondo semiconductor YbB ₁₂	F. Iga A. Bouvet L.P. Regnault T. Takabatake A. Hiess T. Tasuya	J. Phys. Chem. Solids, 60 , (1999) pp. 1193–1196	原著

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A54 Temperature-dependent high-resolution photoemission study of $Y_{1-x}Ca_xTiO_3$	M. Arita Y. Takeda Y. Okamura H. Sato K. Shimada K. Mamiya H. Namatame M. Taniguchi M. Tsubota F. Iga T. Takabatake	Jpn. J. Appl. Phys., 38 Suppl. 38-1 , (1999) pp. 206–208	原著
A55 Low-temperature high-resolution resonant photoemission study of Kondo insulator $Ce_3Bi_4Pt_3$	Y. Takeda M. Arita Y. Okamura H. Sato K. Shimada K. Mamiya H. Namatame M. Taniguchi K. Katoh F. Iga T. Takabatake	Jpn. J. Appl. Phys., 38 Suppl. 38-1 , (1999) pp. 209–211	原著
A56 Superconductivity and magnetoresistance in a single-crystal $LaNiSn$	Y. Echizen K. Umeo T. Takabatake	Solid State Commun., 111 , (1999) pp. 153–157	原著
A57 ^{63}Cu and ^{117}Sn NMR measurements of UCu_2Sn and negative Knight shift of ^{63}Cu	K. Kojima A. Harada T. Takabatake S. Ogura K. Hiraoka	Physica B, 269 , (1999) pp. 249–253	原著
A58 The collapse of the p-f mixing in $CeSb$ with Ni incorporation	D.T. Adroja M.H. Jung Y. Shibata T. Takabatake	J. Phys.: Condens. Matter, 11 , (1999) pp. 3687–3697	原著
A59 Uniaxial-stress induced magnetic order in $CeNiSn$	K. Umeo T. Igaue H. Chyono Y. Echizen T. Takabatake M. Kosaka Y. Uwatoko	Phys. Rev. B, 60 , (1999) pp. 6957–6960	原著

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A60 Low temperature specific heat of the Kondo-semimetal CeNiSn in zero and applied magnetic fields	A. Bruckl K. Neumaier D. Einzel K. Andres S. Flaschin G.M. Kalvius G.Nakamoto T. Takabatake	J. Low Temp. Phys., 115 , (1999) pp. 291–306	原著
A61 High-resolution Ce3d-4f resonant photoemission study of CeNiSn and CePdSn	A. Sekiyama S. Suga S. Ueda H. Harada T. Matsumoto T. Nakatani T. Iwasaki K. Matsuda M. Kotsugi S. Imada T. Takabatake	Solid State Commun., 111 , (1999) pp. 373–378	原著
A62 Temperature-dependent high-resolution photoemission study of the Kondo insulator Ce ₃ Bi ₄ Pt ₃	Y. Takeda M. Arita H. Sato K. Shimada H. Namatame M. Taniguchi K. Katoh F. Iga T. Takabatake	J. Electron Spectr. Relat. Phenom., 101-103 , (1999) pp. 721–724	原著
A63 Optical spectra of RB ₆ (R = rare-earth, x = 4, 6,12)	S. Kimura H. Okamura T. Nanba M. Ikezawa S. Kunii F. Iga N. Shimizu T. Takabatake	J. Electron Spectr. Relat. Phenom., 101-103 , (1999) pp. 761–764	原著

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A64 Antiferromagnetic Kondo-lattice systems $Ce_2Rh_3Ge_5$ and $Ce_2Ir_3Ge_5$ with moderate heavy-fermion behavior	Z. Hossain H. Ohmoto K. Umeo F. Iga T. Suzuki T. Takabatake N. Takamoto K. Kindo	Phys. Rev. B, 69 , (1999) pp. 10383–10387	原著
A65 Impurity-induced localization of quasiparticles in the presence of a pseudogap in CeNiSn	T. Takabatake Y. Echizen T. Yoshino K. Kobayashi G. Nakamoto H. Fujii M. Sera	Phys. Rev. B, 59 , 21 (1999) pp. 13878–13881	原著
A66 Metallic ground state of CeNiSn	K. Izawa T. Suzuki T. Fujita T. Takabatake G. Nakamoto H. Fujii K. Maezawa	Physical Review B, 59 , 4 (1999) pp. 2599–2603	原著
A67 Magnetic properties of UNiAl under pressure	K. Prokes T. Fujita N.V. Mushnikov S. Hane T. Tomita T. Goto V. Sechovsky A.V. Andreev A.A. Menovsky	Physical Review B, 59 , 13 (1999) pp. 8720–8724	原著
A68 A study of the first-order valence transition in $Ce(Ni_{1-x}Co_x)Sn$ single crystals by magnetic susceptibility measurements	D.T. Adroja Y. Echizen T. Takabatake Y. Matsumoto T. Suzuki T. Fujita B.D. Rainford	Journal of Physics: Condensed Matter, 11 , (1999) pp. 543–554	原著

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A69 Specific Heat of YbPtSn	T. Suzuki Y. Matsumoto F. Masaki K. Izawa M. Ito K. Katoh T. Takabatake T. Fujita	Physica B, 259-261 , (1999) pp. 146-147	原著
A70 Phase diagram of UNiSn in magnetic field and under hydrostatic pressure	T. Akazawa T. Suzuki T. Tahara T. Goko J. Hori H. Goshima F. Nakamura T. Fujita T. Takabatake H. Fujii	Physica B, 259-261 , (1999) pp. 248-249	原著
A71 Electronic properties of a UIrGe single crystal	K. Prokes T. Tahara T. Fujita H. Goshima T. Takabatake M. Mihaalik A.A. Menovsky S. Fukuda J. Sakurai	Physica Review B, 60 , (1999) pp. 9532-9538	原著
A72 Anomalous behavior of physical properties in RMg ₂ Ni ₉ (R=Ce and Pr) with a two-dimensional rare earth arrangement	H. Fukuda H. Fujii Y. Matsumoto T. Suzuki T. Fujita K. Kadir T. Sakai	Physica B, 259-261 , (1999) pp. 894-895	原著

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A73 Normal state, superconductivity and quasiparticle Fermi surface of the strongly correlated oxide Sr_2RuO_4	S.R. Julian A.P. Mackenzie G.G. Lonzarich C. Bergemann R.L.W. Haselwimmer Y. Maeno S. NishiZaki A.W. Tyler S. Ikeda T. Fujita	Physica B, 259-261 , (1999) pp. 928-933	原著
A74 Transport properties of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ under pressure	F. Nakamura T. Goko N. Kikugawa J. Hori Y. Uno T. Fujita	Physica C, 317-318 , (1999) pp. 366-372	原著
A75 Structural Transitions and Localization in $\text{La}_{2-x-y}\text{Nd}_y\text{Sr}_x\text{CuO}_4$ with p 1/8	S. Sakita F. Nakamura T. Suzuki T. Fujita	Journal of the Physical Society of Japan, 68 , 8 (1999) pp. 2755-2761	原著
A76 Reduction of Superconducting Transition Temperature due to Orthorhombic Distortion in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$	T. Goko F. Nakamura T. Fujita	Journal of Physical Society of Japan, 68 , 9 (1999) pp. 3074-3077	原著
A77 Impurity scattering effect on the anisotropic resistivity for $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ with a wide range of x	N. Kikugawa J. Hori F. Nakamura T. Fujita	Journal of Low Temperature Physics, 117 , 5/6 (1999) pp. 1139-1143	原著
A78 T_c Enhancement in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ under anisotropic pressure	F. Nakamura J. Hori T. Goko Y. Uno N. Kikugawa T. Fujita	Journal of Low Temperature Physics, 117 , 5/6 (1999) pp. 1145-1149	原著
A79 T_c ENHANCEMENT IN $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ BY ANISOTROPIC PRESSURE	T. Fujita J. Hori T. Goko F. Nakamura	Int. Journal of Mod. Phys. B, 13 , 29, 30 & 31 (1999) pp. 3655-3659	原著

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A80 Hyperfine Constants and Tensor Polarizabilities of 4f66s6p9G0-6 States in Sm I	T.Kuwamoto I.Endo A.Fukumi T.Horiguchi M.Inuma Y.Ishida T.Kondo H.Matsuzaki T.Takahashi	J. Phys. Soc. Jpn., 68 , (1999) pp. 1877-1882	原著
A81 Toward the experimental observation of nonlinear effects in laser-electron beam scattering	K.Matsukado I.Endo T.Takahashi T.Tauchi	Rev. Sci. Instruments, (1999)	原著
A82 Three dimensional laser cooling method based on resonant linear coupling	Takahiro Kihara Hiromi Okamoto Yoshihisa Iwashita Katsunobu Oide Giuseppe Lamanna Jie Wei	Physical Review, E59 , 3 (1999) pp. 3594-3604	原著
A83 Proposed experiments for the study of beam halo formation	Hiromi Okamoto Hitoshi Tanaka	Nuclear Instruments and Methods, A437 , (1999) pp. 178-187	原著
A84 Experimental Results of Laser Wakefield Acceleration Using a Femtosecond Terawatt Laser Pulse	M.Kando H.Ahn H.Dewa H.Kotaki T.Ueda M.Uesaka T.Watanabe H.Nakanishi A.Ogata K.Nakajima	Japanese Journal of Applied Physics, 38 , (1999) pp. 967-969	原著
A85 レーザーとプラズマによる粒子加速	小方 厚	パリティ, 14 , 12 (1999) pp. 37-40	総説
A86 レーザーとプラズマによる粒子加速	小方 厚	プラズマ・核融合学会誌, 75 , Supplement 2 (1999) pp. 81-84	総説
A87 クリスタルビーム：究極のイオンビーム実現に向けて	岡本 宏巳	パリティ, 14 , 11 (1999) pp. 56-60	総説

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A88 Progress on Plasma Lens Experiment at the Final Focus Test Beam	S.Chattopadhyay P.Chen D.Cline P.Colestock A.Ogata	AIP Conference Proceedings, 472 , (1999) pp. 315–320	原著
A89 Recent Developments for the 2nd Generation LWFA Experiments	H.Dewa T.Hosakai M.Kando S.Kondo A.Ogata	AIP Conference Proceedings, 472 , (1999) pp. 368–376	原著
A90 Proton Acceleration in Plasma Waves Produced by Backward Raman Scattering	A.Ogata T.Katsouleas	AIP Conference Proceedings, 472 , (1999) pp. 551–562	原著
A91 Femtosecond Electron Beam Generation by S-Band Laser Photocathode RF Gun and Linac	M.Ueda K.Kinoshita T.Watanabe T.Ueda A.Ogata	AIP Conference Proceedings, 472 , (1999) pp. 908–917	原著
A92 Proton Acceleration in Plasma Waves Produced by Backward Raman Scattering	A.Ogata T.Katsouleas	Proceedings of 1999 Particle Accelerator Conference, (1999) pp. 3713–3715	原著
A93 Impurity scattering effect on superfluidity of ^3He in aerogel	Seiji Higashitani	J. Low Temp. Phys., 114 , 1/2 (1999) pp. 161–172	原著
A94 Phonon and electronic excitation study of CeRhSb and CeNiSn by Raman scattering	M. Udagawa Y. Fujita N. Ogita T. Yoshino T. Takabatake H. Fujii	Physica B, 259-261 , (1999) pp. 290–291	原著
A95 Investigation of electron-phonon interaction in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ by Raman scattering	S. Nimori H. Hata N. Ogita S. Sakita N. Kikugawa F. Nakamura T. Fujita M. Udagawa	Physica B, 259-261 , (1999) pp. 542–543	原著

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A96 Phonon Raman study in $La_{1.475}Sr_{0.4}Nd_{0.125}CuO_4$	S. Nimori H. Hata N. Ogita N. Kikugawa F. Nakamura T. Fujita M. Udagawa	Physica B, 263-264 , (1999) pp. 663-665	原著
A97 Raman scattering study of $Cu(Ge_{1-x}Si_x)O_3$	N. Ogita Y. Tsunozumi J. Akimitsu M. Udagawa	Physica B, 263-264 , (1999) pp. 832-834	原著
A98 Phonon Raman Scattering Study of a Kondo Insulator YbB_{12}	Y. Fujita N. Ogita N. Shimizu F. Iga T. Takabatake M. Udagawa	Journal of the Physical Society of Japan, 68 , (1999) pp. 4051-4052	原著
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A154 Wet Preparation of Atomic-Scale Defect-Free Hydrogen-Terminated Si Wafer Surface	Takayuki Takahagi Shoso Shingubara Hiroyuki Sakaue	Meeting Abstract of 196th Meeting of The Electrochemical Society, (1999) pp. 1067	原著
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A165 The Architecture of Delta Sigma Analog-to-Digital Converter using Voltage-Controlled Oscillator as a Multibit Quantizer	A. Iwata N. Sakimura M. Nagata T. Morie	IEEE Trans. Circuits and Systems-II, 46 , 7 (1999) pp. 941-945	原著
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A167 Analog LSI Implementation of Self-Learning Neural Networks	T. Morie K. Uchimura Y. Amemiya	Computers and Electrical Engineering, 25 , 5 (1999) pp. 339-355	原著
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B. 分子生命機能科学

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B2 Aminoacylation of tRNAs encoded by <i>Chlorella</i> virus CVK2	Kensho Nishida Takeru Kawasaki Makoto Fujie Shoji Usami Takashi Yamada	Virology, 263 , (1999) pp. 220-229	原著
B3 Expression of a chitinase gene and lysis of the host cell wall during <i>Chlorella</i> virus CVK2 infection	Shingo Hiramatsu Masako Ishihara Makoto Fujie Shoji Usami Takashi Yamada	Virology, 260 , (1999) pp. 308-315	原著
B4 Genetic variation of <i>Chlorella</i> viruses	Kensho Nishida Yoshiki Kimura Takeru Kawasaki Makoto Fujie Takashi Yamada	Virology, 255 , (1999) pp. 376-384	原著
B5 Phylogenetic position of <i>Mesorhizobium huakuii</i> subsp. <i>rengi</i> , a symbiont of <i>Astragalus sinicus</i> cv. Japan	Sukma Nuswantara Makoto Fujie Takashi Yamada Wanda Malek Masaki Inaba Yoshinobu Kaneko Yoshikatsu Murooka	J. Biosci. Bioeng., 87 , 1 (1999) pp. 49-55	原著
B6 植物の傷害応答に関与するプロテインキナーゼ	宇佐美昭二	蛋白質核酸酵素, 44 , 15 (1999) pp. 2360-2365	総説

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