

A. 量子物質科学 (Dept. of Quatum Matter)

論文の標題 (Titles)	著者名 (Authors)	誌名(Magazines)	巻 (Vol.)	号 (No.)	頁 (Pages)	(年) (Year)	論文種別 (Classif.)
Orbital Degeneracy, Orbital Polarization and X-Ray Absorption Linear Dichroism in Transition-Metal Oxides	H. B. Huang T. Jo	J. Phys. Soc. Jpn.	73	9	2480-2486	(2004)	原著
Orbital States and Polarized X-Ray Absorption	T. Jo	J. Electron Spectrosc. Relat. Phenom.			99-106	(2004)	原著
Theory of Orbital Ordering and X-Ray Absorption Linear Dichroism in LaMnO ₃	H. B. Huang T. Jo	Physica B		351	313-315	(2004)	原著
Orbital polarization of LaSrMnO ₄ studied by soft x-ray linear dichroism	W. B. Wu D. J. Huang G. Y. Guo H. -J. Lin T. Y. Hou C. F. Chang C. T. Chen A. Fujimori T. Kimura H. B. Huang A. Tanaka T. Jo	J. Electron Spectrosc. Relat. Phenom. 137-140			641-645	(2004)	原著
Conduction band satellite of Ni metal observed using 3p-3d resonant inverse photoemission study	Y. Tezuka K. Kanai H. Ishii S. Shin S. Nozawa A. Tanaka T. Jo	Physical Review B	70		193107	(2004)	原著
Spin-Triplet Superconductivity Mediated by Phonons in Quasi-One-Dimensional Systems	Y. Suginishi H. Shimahara	Journal of the Physical Society of Japan	73	11	3121-3128	(2004)	原著
Reduction of the Pauli paramagnetic pair-breaking effect in antiferromagnetic superconductors	H. Shimahara	Journal of the Physical Society of Japan	73	10	2635-2638	(2004)	原著
Direct evidence of ferromagnetism without net magnetization observed by x-ray magnetic circular dichroism	S. Qiao A. Kimura H. Adachi K. Iori K. Miyamoto T. Xie H. Namatame M. Taniguchi A. Tanaka T. Muro S. Imada S. Suga	Phys. Rev. B	40		134418	(2004)	原著
On the Metal-Insulator Transitions in VO ₂ and Ti ₂ O ₃ from a Unified Viewpoint	A. Tanaka	J. Phys. Soc. Jpn.	73	10	152-162	(2004)	原著
Magnetic circular dichroism in Fe 2p resonant photoemission of magnetite	J. Chen D. J. Huang A. Tanaka C. F. Chang S. C. Chung W. P. Wu C. T. Chen	Phys. Rev. B	69		085107/1-8	(2004)	原著
Orbital Ordering in La _{0.5} Sr _{1.5} MnO ₄ Studied by Soft X-Ray Linear Dichroism	D. J. Huang W. B. Wu G. Y. Guo H.-J. Lin T. Y. Hou C. F. Chang C. T. Chen A. Fujimori T. Kimura H. B. Huang A. Tanaka T. Jo	Phys. Rev. Lett.	92	8	087202/1-4	(2004)	原著

Magnetic versus crystal-field linear dichroism in NiO thin films	H. W. Haverkort S. I. Csiszar Z. Hu S. Altieri A. Tanaka H. H. Hsieh H.-J. Lin C. T. Chen T. Hibma L. H. Tjeng	Phys. Rev. B	69	020408R/ 1-4	(2004) 原著
Different Look at the Spin State of Co ³⁺ Ions in a Co ₅ O Pyramidal Coordination	Z. Hu Hua Wu M. W. Haverkort H. H. Hsieh H.-J. Lin T. Lorentz J. Baier I. Bonn C. Felser A. Tanaka C. T. Chen L. H. Tjeng	Phys. Rev. Lett.	92	207402/1-4	(2004) 原著
Theory on Metal-Insulator Transitions and Inverse Photoemission Spectroscopy in VO ₂ and Ti ₂ O ₃	A. Tanaka	Physica B	351	240-244	(2004) 国際会議議事録
Anisotropic Property of Magnetic Dipole in Bulk, Surface and Overlayer Systems	T. Oguchi T. Shishidou	Physical Review B	70	024412 (6pages)	(2004) 原著
Contribution of Pb to ferroelectricity in perovskite-type oxides	H. Miyazawa F. Ishii M. Ishida E. Natori T. Shimoda T. Oguchi	Ferroelectrics	301	49-53	(2004) 原著
High-resolution resonant photoemission study of CeSi	K. Mimura Y. Watanabe H. Mizohata K. Ichikawa Y. Taguchi O. Aita A. Yamasaki A. Sekiyama S. Suga T. Oguchi S. Noguchi O. Sakai T. Muro	Physica B	351	295-297	(2004) 原著
First-principles study of electronic structure and thermoelectric properties of CeRhAs and related compounds	A. Sekiyama S. Suga T. Oguchi S. Noguchi O. Sakai T. Muro	Physica B	351	316-318	(2004) 原著
Exchange Force Image of Magnetic Surfaces -- A First-Principles Study on NiO(001) Surface --	H. Momida T. Oguchi	Physics of Spin in Solids: Materials, Methods and Applications, Kluwer Academic Publishers		17-24	(2004) 原著
First-principles study on electronic structure of bismuth transition-metal oxides	T. Shishidou N. Mikamo Y. Uratani F. Ishii T. Oguchi	Journal of Physics: Condensed Matter	16	S5677-5683	(2004) 原著
Electronic band structure and structural properties of zircon nitride chloride	H. Sugimoto T. Oguchi	Journal of the Physical Society of Japan	73	2771-2776	(2004) 原著
Photoemission study of electronic structure and metal-semiconductor transition in pyrochlore-type Tl ₂ Ru ₂ O ₇	J. Okamoto T. Mizokawa A. Fujimori T. Takeda R. Kanno F. Ishii T. Oguchi	Physical Review B	69	035115 (6pages)	(2004) 原著
Electronic Band Structure and Gap Formation in CeRhAs	F. Ishii T. Oguchi	Journal of the Physical Society of Japan	73	145-151	(2004) 原著
Electronic structure properties and BCS superconductivity in beta-pyrochlore oxides: KOs ₂ O ₆	R. Saniz J. E. Medvedeva Lin-Hui Ye T. Shishidou A. J. Freeman	Phys. Rev. B	70	100505	(2004) 原著

Antiferromagnetic spin fluctuation in CeRhSn probed by ^{119}Sn NMR	H. Tou M. S. Kim T. Takabatake M. Sera	Phys. Rev.	B70	199407(R)	(2004) 原著
Crystal Structure and Magnetic Anisotropy in the Magnetic Ordered Phases of PrB_6	M. Sera M. S. Kim H. Tou S. Kunii	J. Phys. Soc. Jpn.	73	12	3422-3428 (2004) 原著
Odd-parity superconductivity in UPt_3 and UNi_2Al_3 -NMR studies	H. Tou K. Ishida Y. Kitaoka	PHYSICA C	408-410	305-308	(2004) 原著
Nd ion doping effects on the multipolar interactions in CeB_6	Y. Yoshino S. Kobayashi S. Tsuji H. Tou M. Sera F. Iga Y. Zenitani J. Akimitsu	JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN	73	1	29-32 (2004) 原著
Anisotropic thermal expansion of layered MoO_3 crystals	H. Negishi S. Negishi Y. Kuroiwa N. Sato S. Aoyagi	Physical Review B	69	6	064111/1-8 (2004) 原著
High-resolution angle-resolved resonant-photoemission spectroscopy of Fe_xTiTe_2	K. Yamazaki K. Shimada H. Negishi F. Xu A. Ino M. Higashiguchi H. Namatame M. Taniguchi M. Sasaki S. Titova A. Titov Yu. M. Yarmoshenko	Physica B	351	3&4	262-264 (2004) 原著
Photoemission study of valence band dispersions in charge density wave material 1T-TaS ₂	M. Arita H. Negishi K. Shimada F. Xu A. Ino Y. Takeda K. Yamazaki A. Kimura S. Qiao S. Negishi M. Sasaki H. Namatame M. Taniguchi	Physica B	351	3&4	265-267 (2004) 原著
Orbitally ordered state in $\text{Y}_{1-x}\text{Ca}_x\text{TiO}_3$ ($0 < x < 0.5$)	H. Nakao M. Tsubota F. Iga K. Uchihira T. Nakano T. Takabatake K. Kato Y. Murakami	J. Phys. Soc. Jpn.	73		2620-2623 (2004) 原著
Determination of the orbital polarization in YTiO_3 by using soft X-ray linear dichroism	F. Iga M. Tsubota M. Sawada H.B. Huang S. Kura M. Takemura K. Yaji M. Nagira A. Kimura T. Jo T. Takabatake H. Namatame M. Taniguchi	Phys. Rev. Lett.	93		257207 (2004) 原著
Phase separation in $\text{Y}_{1-x}\text{Ca}_x\text{TiO}_3$ associated with the insulator-to-metal transition: Observation by transmission electron microscopy	H. Matsuhata F. Iga M. Tsubota T. Nakano T. Takabatake K. Kato	Phys. Rev. B	70		134109 (1-6) (2004) 原著
Study of electronic properties of CeRhSn by μ^+ Knight shift and relaxation measurements in single crystals	A. Schenck F.N. Gygax M.S. Kim T. Takabatake	J. Phys. Soc. Jpn.	73		3099-3107 (2004) 原著

Temperature dependence of high-energy photoemission of YbB ₁₂	A. Shigemoto S. Suga A. Sekiyama S. Imada A. Yamasaki A. Irizawa T. Muro Y. Saithoh F. Iga T. Takabatake	Physica B	351	289-291	(2004) 原著
YnNiSi ₃ : An antiferromagnetic Kondo lattice with strong exchange interaction	M. A. Avila M. Sera T. Takabatake	Phys. Rev. B	70	100409 R (1-4)	(2004) 原著
Magnetic, electrical resistivity, heat-capacity, and thermopower anomalies in CeCuAs ₂	K. Sengupta E. V. Sampathkumaran T. Nakano M. Hedo M. Abiliz N. Fujiwara Y. Uwatoko S. Rayaprol K. Shigetoh T. Takabatake Th. Doert J. P. F. Jemetio	Phys. Rev. B	70	064406 (1-5)	(2004) 原著
Effects of magnetic field on the pseudogap in the Kondo semiconductor CeRhAs	S. Yoshii K. Kindo T. Sasakawa T. Suemitsu T. Takabatake	J. Magn. Magn. Mater.	278	112-116	(2004) 原著
Divalent state in YbGaGe: magnetic, thermal, transport and structural studies	Y. Muro T. Nakagawa K. Umeo M. Itoh T. Suzuki T. Takabatake	J. Phys. Soc. Jpn.	73	6	1450-1452 (2004) 原著
⁷⁵ As NQR/NMR study for successive transition below T _K in CeRhAs	M. Matsumura T. Sasakawa T. Takabatake S. Tsuji H. Tou M. Sera	J. Magn. Magn. Mat.	272-276	58-59	(2004) 原著
Optical study of c-f hybridization states in mixed-valent Yb compounds: metallic YbAl ₃ vs semiconducting Y _b B ₁₂	H. Okamura T. Michizawa M. Matsunami S. Kimura T. Nanba T. Ebihara F. Iga T. Takabatake	J. Magn. Magn. Mat.	272-276	51-52	(2004) 原著
Successive magnetic transitions in a frustrated compound YbAgGe	K. Umeo K. Yamane Y. Muro K. Katoh Y. Niide A. Ochiai T. Morie T. Sakakibara T. Takabatake	J. Phys. Soc. Jpn.	73	3	537-540 (2004) 原著
Coupling of lattice and spin degrees of freedom in GdB ₆	D. F. McMorrow K. A. McEwen J-G. Park S. Lee D. Mannix F. Iga T. Takabatake	Physica B	345	66-69	(2004) 原著
Heavy-fermion weak-ferromagnet YbRhSb	Y. Muro Y. Haizaki M. S. Kim K. Umeo H. Tou M. Sera T. Takabatake	Phys. Rev. B	69	020401(R) (1-4)	(2004) 原著
Structural and electronic interplay in the gap formation in CeRhAs _{1-x} Sb _x (0<x<1)	T. Sasakawa H. Miyaoka K. Umeo S. Aoyagi K. Kato F. Iga T. Takabatake	J. Phys. Soc. Jpn.	73	1	262-268 (2004) 原著

Transport properties of CeBiPt in magnetic fields up to 60 T	J. Wosnitza J. Hagel N. Kozlova D. Eckert K. -H. Muller C. H. Mielke G. Goll T. Yoshino T. Takabatake	Physica B	346-347	127-131	(2004) 原著
希土類系強相関熱電変換材料の開発	高畠敏郎	金属	74	789-792	(2004) 雜誌等論説
Search for orbitons in LaMnO ₃ , YTiO ₃ and KCuF ₃ using high-resolution inelastic x-ray scattering	Y. Tanaka A. Q. R. Baron Y. J. Kim K. J. Thomas J. P. Hill Z. Honda F. Iga S. Tsutsui D. Ishikawa C. S. Nelson	New Journal of Phys.	6	161 (1-13)	(2004) 原著
Anomalous temperature dependence of elastic moduli of CeRhSn	T. Suzuki H. Higaki I. Ishii M. S. Kim T. Takabatake	J. Magn. Magn. Matt.	272-276	35-36	(2004) 原著
Strong diamagnetic preponse and specific heat anomaly above Tc in underdoped La _{2-x} SrxCuO ₄	U. Thisted J. Nyhus T. Suzuki J. Hori K. Fossheim	Physica C	404	380-384	(2004) 原著
Superconductivity in under-doped La _{2-x} SrxCuO ₄ under pressure	J. Hori S. Iwata H. Kurisaki F. Nakamura T. Fujita T. Suzuki	J. Magn. Magn. Matt.	272-276	193-165	(2004) 原著
Antiferromagnetic phase transition in garnet-type AgCa ₂ Co ₂ V ₃ O ₁₂ and AgCa ₂ Ni ₂ V ₃ O ₁₂	J. Awaka M. Ito T. Suzuki S. Nagata	J. Phys. Chem. Sol.	66	851-860	(2004) 原著
Thermodynamic and Transport Properties of CeMg ₂ Cu ₉ under Pressure	M. Ito K. Asada Y. Nakamori J. Hori H. Fujii F. Nakamura T. Fujita T. Suzuki	J. Phys. Soc. Jpn.	73	2252-2256	(2004) 原著
Specific heat of mixed valence system YbInCu ₄ under pressure	M. Ito S. Sakamoto K. Asada T. Fujita K. Kojima K. Hiraoka T. Suzuki	J. Magn. Magn. Matt.	272-276	37-38	(2004) 原著
Bias voltage dependence of Charge Imbalance Effect in Lateral Superconductor/Insulator/Normal Junctions	Y. Ikeuchi R. Yagi	Physica E	22	757-760	(2004) 原著
Quasi-Particle Transport in Narrow Superconductor/ Insulator/ Normal Tunnel Junctions	R. Yagi	Superlattices and Microstructures	34	263-269	(2004) 原著
On the origin of mysterious X-ray spectral peaks observed at the REFER electron ring	I. Endo D. Iseki T. Ohnishi C. Moriyoshi A.V. Shchagin	Nucl.Instruments and Methods in Phys. Res. B	217	666-670	(2004) 原著
The K2K SciBar detector	K. Niita M. Iinuma A. Kohara K. Hayashi Y. Nakanishi S. Nawang T. Takahashi et al.	Nucl.Instruments and Methods in Phys. Res. A	535	147-151	(2004) 原著
Measurement of the collisional self-broadening of the cesium 6S _{1/2} ->5D _{3/2} (689-nm) electric quadrupole transition	A. Andalkar M. Iinuma J. W. Smit E. N., Fortson	Physical Review A	70	052703	(2004) 原著

High proton polarization at high temperature with single crystals of aromatic molecules	M. Iinuma Y. Takahashi I. Shak'e M. Oda A. Masaike T. Yabuzaki H. M. Shimizu	Nucl. Instrum. Meth. In Phys. Res. A	529	199-203	(2004) 原著
音程に自由を - 非12音 平均律音楽 -	小方 厚 久留 智之	日本物理学会誌	59	553-555	(2004) 原著
Ion Production Enhancement by Rear-Focusing and Prepulse in Ultrashort-Pulse Laser Interaction with Foil Targets	Y. Wada Y. Shigemoto A. Ogata	JJAP	43	L996-998	(2004) 原著
Use of Macroscopic Solid Structure in Accelerators	A. Ogata N. Saito T. Ishimaru	Quantum Aspects of Beam Physics, World Scientific, P. Chen and K. Reil, ed.		479-488	(2004) 原著
Generating ultralow-emittance ion beams in a storage ring	Y. Yuri H. Okamoto	Physical Review Letters	93	20	204801 (2004) 原著
S-LSR: test ring for beam crystal, its design and ordering simulation	T. Shirai H. Fadil M. Ikegami H. Tongu Y. Iwashita A. Noda K. Noda S. Shibuya T. Takeuchi K. Okabe Y. Yuri H. Okamoto M. Grieser E. M. Syresin	Nucl. Instrum. Meth. A	532	488 - 491	(2004) 原著
Theoretical aspects of beam crystallization	H. Okamoto	Nucl. Instrum. Meth. A	532	32 - 39	(2004) 原著
Design and fabrication of a linear Paul trap for the study of space-charge-dominated beams	R. Takai K. Ito Y. Iwashita H. Okamoto S. Taniguchi Y. Tomita	Nucl. Instrum. Meth. A	532	508-512	(2004) 原著
Lattice design and cooling simulation at S-LSR	T. Shirai H. Fadil S. Fujimoto M. Ikegami A. Noda H. Tongu M. Tanabe H. Okamoto Y. Yuri K. Noda T. Takeuchi S. Shibuya T. Fujimoto H. Fujiwara E. Syresin M. Grieser	Proc. 2004 European Particle Accelerator Conf.		2119-2121	(2004) 国際会議議事録
Beam cooling at S-LSR	A. Noda H. Fadil S. Fujimoto M. Ikegami T. Shirai M. Tanabe H. Tongu K. Noda T. Takeuchi M. G. Meshkov E. Syresin H. Okamoto Y. Yuri	Proc. 2004 European Particle Accelerator Conf.		1360-1362	(2004) 国際会議議事録
Deflection element for S-LSR	M. Ikegami H. Fadil A. Noda T. Shirai T. Takeuchi M. Tanabe H. Tongu K. Noda H. Ogawa S. Shibuya M. Grieser H. Okamoto	Proc. 2004 European Particle Accelerator Conf.		1357-1359	(2004) 国際会議議事録

Heavy ion storage ring without linear dispersion	M. Ikegami A. Noda M. Tanabe M. Grieser H. Okamoto	Phys. Rev. STAB	7		120101	(2004) 原著
One-dimensional ordering of ultra-low-density ion beams in a storage ring	H. Okamoto K. Okabe Y. Yuri D. Mohl A. M. Sessler	Physical Review E	69		66504	(2004) 原著
Ultra-low emittance beam generator using Coulomb crystals	M. Kano S. Masuda A. Ogata K. Okabe H. Okamoto	J. Phys. Soc. Jpn.	73	3	760-761	(2004) 原著
Conductance of disordered wires with symplectic symmetry: Comparison between odd- and even-channel cases	Y. Takane	J. Phys. Soc. Jpn.	73	9	2366-2369	(2004) 原著
Quantum electron transport in disordered wires with symplectic symmetry	Y. Takane	J. Phys. Soc. Jpn.	73	6	1430-1433	(2004) 原著
Josephson current through a metallic carbon nanotube in the conductance-quantization regime	Y. Takane	J. Phys. Soc. Jpn.	73	5	1111-1114	(2004) 原著
Test-particle approach to electron dephasing in an open mesoscopic cavity	Y. Takane	J. Phys. Soc. Jpn.	73	3	764-765	(2004) 原著
DMPK equation for transmission eigenvalues in metallic carbon nanotubes	Y. Takane	J. Phys. Soc. Jpn.	73	1	9-12	(2004) 原著
Theoretical study on novel electronic properties in nanographite materials	K. Harigaya A. Yamashiro Y. Shimoji K. Wakabayashi Y. Kobayashi N. Kawatsu K. Takai H. Sato J. Ravier T. Enoki M. Endo	J. Phys. Chem. Sol.	65		123-126	(2004) 原著
Novel Electronic States in Graphene Ribbons - Competing Spin and Charge Orders -	A. Yamashiro Y. Shimoji K. Harigaya K. Wakabayashi	Physica E	22		688-691	(2004) 原著
Electronic States of Nano-Graphite Ring in a Magnetic Field	S. Nakamura K. Wakabayashi A. Yamashiro K. Harigaya	Physica E	22		684-687	(2004) 原著
Magnetic and Charge Orders in Zigzag Nanographite Ribbons	K. Harigaya A. Yamashiro Y. Shimoji K. Wakabayashi	Current Applied Physics			587-590	(2004) 原著
Generation of extremely weak sub-Poissonian light using high efficiency light-emitting diodes	M. Nakano K. Tanaka A. Higashi R. Masuyama Y. Kadoya M. Yamanishi	Japanese Journal of Applied Physics	43	8B	L1114 - L1117	(2004) 原著
Low frequency spectral enhancement of THz electromagnetic waves emitted from InAs surface with increased excitation intensity	R. Yano H. Goto Y. Hirayama S. Miyashita Y. Kadoya K. Kusuda M. Yamanishi	Journal of Applied Physics	95	4	2141-2145	(2004) 原著
Generation of highly nonclassical n-photon polarization states by superbunching at a photon bottleneck	H. F. Hofmann	Phys. Rev. A	70		023812	(2004) 原著
Observation of Jonscher Law in AC Hopping Conduction of Electron-Doped Nanoporous Crystal 12CaO·7Al ₂ O ₃ in THz Frequency Range	H. Harimochi J. Kitagawa M. Ishizaka Y. Kadoya M. Yamanishi S. Matsushige H. Hosono	Physical Review B	70	19	193104	(2004) 原著

Evaluation of Carrier Dynamics in n-Al _x Ga _{1-x} As Films by Terahertz Time-Domain Spectroscopy with Characteristic-Matrix Analysis	Hiroyuki Harimochi Jiro Kitagawa Yutaka Kadoya Masamichi Yamanishi	Japanese Journal of Applied Physics	43	10	7320 - 7321	(2004) 原著
Self-organization of a porous alumina array using a sulfuric/oxalic acid mixture as electrolyte	S. Shingubara K. Morimoto H. Sakaue T. Takahagi	Electrochemical And Solid State Letters	7	3	E15-E17	(2004) 原著
Bottom-up fill of copper in deep submicrometer holes by electroless plating	S. Shingubara Z. Wang O. Yaegashi R. Obata H. Sakaue T. Takahagi	ELECTROCHEMICAL AND SOLID STATE LETTERS	7	6	C78-C80	(2004) 原著
Bottom-up fill for submicrometer copper via holes of ULSIs by electroless plating	Z. Wang O. Yaegashi H. Sakaue T. Takahagi S. Shingubara	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	151	12	C781-C785	(2004) 原著
Effect of additives on hole filling characteristics of electroless copper plating	Z. Wang O. Yaegashi H. Sakaue T. Takahagi S. Shingubara	JAPANESE JOURNAL OF APPLIED PHYSICS	43	10	7000-7001	(2004) 原著
Focal-point anchoring: Large proton relaxivity observed for gadolinium-cored dendrimer complexes in water	M. Kawa T. Takahagi	JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS	42	14	2680-2689	(2004) 原著
Improved antenna effect of terbium(III)-cored dendrimer complex and green-luminescent hydrogel by radical copolymerization		CHEMISTRY OF MATERIALS	16	11	2282-2286	(2004) 原著
Effects of the surface pressure on the formation of Langmuir-Blodgett monolayer of nanoparticles	S. Huang K. Minami H. Sakaue S. Shingubara T. Takahagi	LANGMUIR	20	6	2274-2276	(2004) 原著
Aspect Ratio Dependence of Magnetic Hysteresis Property of Highly Density Co Wire Array Buried In Porous Alumina Template	S. Shingubara K. Morimoto M. Nagayangai T. Shimizu O. Yaegashi G. R. Wu H. Sakaue T. Takahagi K. Takase	J.Magnetics and Magnetic Materials	272	76	1598-1599	(2004) 原著
自己組織化ポーラスアルミニナ ナノホール配列に埋め込み形成した強磁性体ナノ構造体の結晶構造解析	新宮原 正三 坂上 弘之 清水 智弘 永柳 衡 吳 光日 高萩 隆行 坂田 修身	文部科学省ナノテクノロジー総合支援プロジェクトSpring-8研究成果報告書	3	42-44		(2004) 雜誌等論説
ナノサイズ・アルミニウム配線のエレクトロマイグレーション/誘起ひずみの挙動	英 崇夫 日下 一也 新宮原 正三 坂田 修身 松英 達也 野田 和宏 旗谷 充彦 大島 浩二	文部科学省ナノテクノロジー総合支援プロジェクトSpring-8研究成果報告書	3			(2004) 雜誌等論説
Formation of 10 nm Continuous Cu Film in a Fine Hole by Electroless Plating for Seed Layer Application	S. Shingubara Z. Wang O. Yaegashi H. Sakaue T. Takahagi	Proc. of Advanced Metallization Conference 2003, Mat. Res. Soc. Symp. Proc.	ULSI-XIX	567		(2004) 原著
Control of Self-Organization Conditions of Porous Alumina Film Using a Mixture of Oxalic Acid and Sulfuric Acid	S. Shingubara K. Morimoto H. Sakaue T. Takahagi	Electrochemical and Solid-state Letters	7		E15	(2004) 原著
Wet treatment for preparing atomically smooth Si(100) wafer surface	H. Sakaue Y. Taniguchi Y. Okamura S. Shingubara T. Takahagi	Appl. Surf. Sci.	234		439-444	(2004) 原著

Collision Drag Effect on the Two-Fluid Hydrodynamics of Superfluid ^3He in Aerogel	M. Miura S. Higashitani M. Yamamoto K. Nagai	J. Low Temp. Phys.	134	843-850	(2004)	原著	
Rough Interface Effects on Normal-Superconducting Proximity Contact Systems	Y. Nagato K. Nagai	Phys. Rev. B	69	104507 (1-17)	(2004)	原著	
Theory of a Single-photon Generation by Phononic KdV Solitons in Crystals	S. Matsuo K. -I. Matsuda, H. Ninomiya K. Nagai N. Hatakenaka	Phys. Stat. Sol. C1		2769-2722	(2004)	原著	
Dual Aharonov-Casher effect in singlet-exciton BEC systems	N. Hatakenaka	Journal of Modern Physics	51	6-7	1097-1098	(2004)	原著
Control of Magnetism in a One-Dimensional Heisenberg Spin Chain with Hybrid Spin-Exchange Interactions	S. Matsuo N. Hatakenaka K. Nagai	Proc. 2nd Quantum Transport Nano-Hana International Workshop IPAP Conf. Series	5	42-44	(2004)	原著	
Raman scattering investigation of $\text{Y}_{1-x}\text{Ca}_x\text{TiO}_3$.	T. Tsurui N. Ogita M. Udagawa M. Tsubota F. Iga	Phys. Rev. B	69	024102 (1-8)	(2004)	原著	
Raman scattering study of ferromagnetic CaB_6 .	N. Ogita S. Nagai N. Okamoto F. Iga S. Kunii T. Akamatsu J. Akimitsu M. Udagawa	J. Solid State Chem.	177	461-465	(2004)	原著	
Preliminary study on mechanically milled hydrogenated nanostructured B_4C .	P. Wang H. Fujii S. Orimo M. Udagawa	J. Alloys and Compound	363	L3-L6	(2004)	原著	
Raman scattering and infrared absorption investigation of hydrogen configuration state in mechanically milled graphite under H_2 gas atmosphere.	N. Ogita K. Yamamoto C. Hayashi T. Matsushita S. Orimo T. Ichikawa H. Fujii M. Udagawa	J. Phys. Soc. Jpn.	73	553-555	(2004)	原著	
Tunneling measurements of superconducting NbB_2	T. Ekino T. Takasaki H. Takagiwa J. Akimitsu H. Fujii	Physica C	408-410	828-829	(2004)	原著	
Multiple-gap features from break junction tunneling in the superconducting MgB_2	T. Takasaki T. Ekino T. Muranaka T. Ichikawa H. Fujii J. Akimitsu	J. Phys. Soc. Japan	73	1902-1913	(2004)	原著	
Tunneling currents in charge-density-wave metal-insulator-charge-density-wave metal structures: Magnetic field-induced spin-splitting of the conductance peaks.	A. M. Gabovich A. I. Voitenko T. Ekino	J. Phys. Soc. Japan	73	1931-1937	(2004)	原著	
Enhanced paramagnetic limit of the upper critical magnetic field for superconductors with charge-density waves	A. M. Gabovich A. I. Voitenko T. Ekino	J. Phys. : Condens. Matter	16	3681-3690	(2004)	原著	
Formation of midgap states and ferromagnetism in semiconducting CaB_6	B. K. Cho Jong-Soo Rhyee B. H. Oh M. H. Jung H. C. Kim Y. K. Yoon Jae Hoon Kim T. Ekino	Phys. Rev. B	69	113202(1-4)	(2004)	原著	

Energy gap structure in the binary superconductor MB ₂ (M = Nb and Mg)	T. Takasaki T. Ekino H. Takagiwa T. Muranaka H. Fujii J. Akimitsu	Phyica C	412-414	266-269	(2004) 原著
Lithium Nitride for Reversible Hydrogen Storage	T. Ichikawa S. Isobe N. Hanada H. Fujii	Journal of Alloys and Compounds	365	271-276	(2004) 原著
Correlation between Hydrogen Storage Properties and Structural Characteristics in Mechanically Milled Magnesium Hydride MgH ₂	N. Hanada T. Ichikawa H. Fujii	Journal of Alloys and Compounds	366	269-273	(2004) 原著
Hydrogen Storage Properties on Mechanically Milled Graphite	T. Ichikawa D.M. Chen S. Isobe E. Gomibuchi H. Fujii	Materials Science and Engineering	B108	138-142	(2004) 原著
Catalytic Effect of 3d Transition Metals on Hydrogen Storage Properties in Mechanically Milled Graphite	S. Isobe T. Ichikawa J.I. Gottwald E. Gomibuchi H. Fujii	Journal of Physics and Chemistry of Solids	65	535-539	(2004) 原著
Raman Scattering and Infrared Absorption Investigation of Hydrogen Configuration State in Mechanically Milled Graphite under H ₂ Gas Atmosphere	N. Ogita K. Yamamoto C. Hayashi T. Matsushima S. Orimo T. Ichikawa H. Fujii M. Udagawa	Journal of Physical Society of Japan	73	553-555	(2004) 原著
Mechanism of Novel Reaction from LiNH ₂ and LiH to Li ₂ NH and H ₂ as a Promising Hydrogen Storage System	T. Ichikawa N. Hanada S. Isobe H.Y. Leng H. Fujii	Journal of Physical Chemistry	B108	7887-7892	(2004) 原著
Multiple-Gap Features from Break-Junction Tunneling in the Superconducting MgB ₂	T. Takasaki T. Ekino T. Muranaka T. Ichikawa H. Fujii J. Akimitsu	Journal of Physical Society of Japan	73	1902-1913	(2004) 原著
New Metal-N-H System Composed of Mg(NH ₂) ₂ and LiH for Hydrogen Storage	H.Y. Leng T. Ichikawa S. Hino N. Hanada S. Isobe H. Fujii	Journal of Physical Chemistry	B108	8763-8765	(2004) 原著

B. 分子生命機能科学 (Dept. of Molecular Biotechnology)

論文の標題 (Titles)	著者名 (Authors)	誌名(Magazines)	巻 (Vol.)	号 (No.)	頁 (Pages)	(年) (Year)	論文種別 (Classif.)
Two chimeric chromosomes of Streptomyces coelicolor A3(2) generated by single crossover of the wild-type chromosome and linear plasmid SCP1	M. Yamasaki H. Kinashi	J. Bacteriol.	186		6553-6559	(2004)	原著
Circularized chromosome with a large palindromic structure in Streptomyces griseus mutants	T. Uchida N. Ishihara H. Zenitani K. Hiratsu H. Kinashi	J. Bacteriol.	186		3313-3320	(2004)	原著

SCP1, a 356,023 bp linear plasmid adapted to the ecology and developmental biology of its host, <i>Streptomyces coelicolor</i> A3(2)	S. D. Bentley S. Brown L. D. Murphy D. E. Harris M. A. Quail J. Parkhill B. G. Barrell J. R. McCormick R. I. Santamaría R. Losick M. Yamasaki H. Kinashi C. W. Chen G. Chandra D. Jakimowicz H. M. Kieser T. Kieser K. F. Chater	Mol. Microbiol.	51	1615-1628	(2004) 原著
放線菌のゲノム構造と生物機能の多様性	木梨 陽康	日本農芸化学会誌	78	11	1067-1069 (2004) 総説
ミニレビュー 放線菌の潜在機能研究の新展開 はじめ 木梨 陽康 に		日本農芸化学会誌	78	11	1062 (2004) 雜誌等論説
ランカサイジン生合成遺伝子群の機能解析および太員 荒川 賢治 環形成機構の解明	望月 進 杉野 文規 石井 達也 児玉 和也 木梨 陽康	第46回天然有機化合物討論会要旨集		485-490	(2004)
Liver transplantation-induced anti-histone H1 autoantibodies suppress mixed lymphocyte reaction.	T. Nakano S. Kawamoto C. Y. Lai T. Sasaki T. Aki S. Shigeta T. Goto S. Sato S. Goto C. L. Chen K. Ono	Transplant	77	1595-1603	(2004) 原著
Two-dimensional IgE-binding spectrum of Japanese cedar (<i>Cryptomeria japonica</i>) pollen allergens.	T. Fujimura S. Shigeta S. Kawamoto T. Aki M. Masubuchi T. Hayashi K. Yoshizato K. Ono	Int. Arch. Allergy Immunol.	133	125-135	(2004) 原著
海洋微生物による有用脂質の生産と応用	秋 庸裕 小埜和久	FFIジャーナル			(2004) 雑誌等論説
乳酸菌L137株におけるアレルゲン遺伝子の発現	山下光雄 金 鍾賢 筒井麻衣子 秋 庸裕 小埜和久 室岡義勝	生物工学会誌	82	434-435	(2004) 総説
海洋微生物ラビリンチュラと脂質工学	秋 庸裕 小埜和久	生物工学会誌	82	288-290	(2004) 総説
次世代スギ花粉症診断および治療技術の開発	島田弥生 秋 庸裕 大磯 勲 大西伸和 平川雄三 重田征子 橋本邦彦 小埜和久	化学工業	55	48-55	(2004) 総説
The anaphylatoxin C3a downregulates the Th2 response to epicutaneously introduced antigen.	S. Kawamoto A. Yalcindag D. Laouini S. Brodeur P. Bryce B. Lu A. A. Humbles H. Oettgen C. Gerard R. S. Geha	Journal of Clinical Investigation	114	399-407	(2004) 原著

The ability of konjac glucomannan to suppress spontaneously occurring dermatitis in NC/Nga mice depends upon the particle size.	N. Onishi S. Kawamoto M. Nishimura T. Nakano T. Aki S. Shigeta H. Shimizu K. Hashimoto K. Ono	Biofactors	21	163-166	(2004) 原著
口嗜み酒における米 - グルコシダーゼの働き	岩田 博 磯谷 敦子 宇都宮 仁 西尾 尚道	日本醸造協会誌	99	7	534-539 (2004)
清酒醸造の浸漬・蒸きょう工程における原料米 - グルコシダーゼの酵素反応	岩田 博 磯谷 敦子 宇都宮 仁 西尾 尚道	日本醸造協会誌	99	6	467-473 (2004)
無加温パイロットスケールUASBと固定床型接触曝気槽による都市下水連續処理	角野 晴彦 高橋 優信 山口 隆司 阿部 肇一 荒木 信夫 山崎 慎一 霜崎 敏 長野 晃弘 西尾 尚道	環境工学研究論文	41	69-77	(2004)
無蒸煮白糠を用いたパイロットスケール清酒醸造実地試験	岩田 博 西尾 尚道	FFIジャーナル	209	2	141-146 (2004)
High yield production of hydrogen by Enterobacter aerogenes mutants with decreased alpha-acetolactate synthase activity	T. Ito Y. Nakashimada T. Kakizono N. Nishio	J. Biosci. Bioeng.	97	4	227-232 (2004) 原著
Metabolic analysis of acetate accumulation during xylose consumption by Paenibacillus polymyxa.	B. Marwoto Y. Nakashimada T. Kakizono N. Nishio	Appl Microbiol Biotechnol	64	1	112-119 (2004) 原著
Ethanol production from H ₂ and CO ₂ by a newly isolated thermophilic bacterium, <i>Moorella</i> sp. HUC22-1.	S. Sakai Y. Nakashimada H. Yoshimoto S. Watanabe H. Okada N. Nishio	Biotechnology Letters	26	20	1607-1612 (2004) 原著
クロマチン再編因子の細胞増殖・細胞分化における機能	小山浩史 井内智美 土屋英子	日本農芸化学会誌	78	645-648	(2004) 総説
RSC nucleosome-remodeling complex plays prominent roles in the transcriptional regulation throughout the budding yeast gametogenesis	H. Koyama T. Nagao T. Inai K. Miyahara Y. Hayashida K. Shirahige E. Tsuchiya	Biosci. Biotech. Biochem	68	909-919	(2004) 原著
TBX2/TBX3 Transcriptional Factor Homolog Controls Olfactory Adaptation in <i>Caenorhabditis elegans</i> .	K. Miyahara N. Suzuki T. Ishihara E. Tsuchiya I. Katsura	J. Neurobiol.,	58	392-402	(2004) 原著
Vp130, a chloroviral surface protein that interacts with the host chlorella cell wall	H. Onimatsu I. Sugimoto M. Fujie S. Usami T. Yamada	Virology	319	71-80	(2004) 原著
vAL-1, a novel polysaccharide lyase encoded by chlorovirus CVK2	I. Sugimoto H. Onimatsu M. Fujie S. Usami T. Yamada	FEBS Lett	559	51-56	(2004) 原著
Immediate early genes expressed in chlorovirus infection	T. Kawasaki M. Tanaka M. Fujie S. Usami T. Yamada	Virology	318	214-223	(2004) 原著

Expression and localization of nodule specific proteinase	M. Fujie R. Kajiwara F. Takahisa M. Hiroki T. Yamada	In: Biotechnology for sustainable Utilization of Biological Resources in the Tropics (ed. T. Seki) 17	114-119	(2004)
Characterization of Rhodococcus opacus B-4, a strain able to grow with benzene in a two-phase (organic-aqueous) medium.	K. S. Na A. Kuroda N. Takiguchi H. Tsunekawa K. Takeda H. Otake J. Kato	The 10th APCChE Congress proceedings.	3P-01-084	(2004) 原著
Effects of inorganic polyphosphate on the proteolytic and DNA-binding activities of Lon in Escherichia coli	K. Nomura J. Kato N. Takiguchi H. Otake A. Kuroda	J. Biol. Chem. 279	34406-34410	(2004) 原著
Control of quorum sensing systems in Pseudomonas aeruginosa by acyl homoserine lactone analogues.	T. Ishida A. Kuroda N. Takiguchi H. Otake J. Kato T. Ikeda	The 10th APCChE Congress proceedings.	3P-01-053	(2004) 原著
Role of the maxillary palpus in the feeding preference behavior of the silk worm, Bombyx mori.	N. Takiguchi M. Suzuki A. Kuroda J. Kato H. Otake	The 10th APCChE Congress proceedings.	3P-01-050	(2004) 原著
Biotransformation of toluene to o-cresol in a two-phase system by a solvent-tolerant bacterium.	J. Kato I. Faizal K. S. Na A. Kuroda N. Takiguchi H. Otake	The 10th APCChE Congress proceedings.	3L-11	(2004) 原著
Quorum sensing control using synthetic autoinducer homologues and cyclodextrins in Gram-negative bacteria.	T. Ikeda T. Morohoshi N. Kato M. Inoyama S. Nakazawa K. Hiratani T. Ishida J. Kato H. Otake	The 10th APCChE Congress proceedings.	2L-11	(2004) 原著
アルコール耐性Pseudomonas属細菌の分離	武田耕治 成川隆也 高橋澄人 加藤純一	J. Environ. Biotechnol. 4	57-62	(2004) 原著
A laboratory-scale test of anaerobic digestion and methane production after phosphorus recovery from waste activated sludge.	N. Takiguchi M. Kishino A. Kuroda J. Kato H. Otake	J. Biosci. Bioeng. 97	365-368	(2004) 原著
The aerotaxis transducer gene aer, but not aer-2, is transcriptionally regulated by the anaerobic regulator ANR in Pseudomonas aeruginosa.	C. S. Hong A. Kuroda T. Ikeda N. Takiguchi H. Otake J. Kato	J. Biosci. Bioeng. 97	184-190	(2004) 原著
Characterization of pEC01 a novel plasmid required for phosphate taxis in Enterobacter cloacae IFO3320	L. Yang A. Kuroda T. Ikeda N. Takiguchi H. Otake J. Kato	Microb. Environ. 19	45-52	(2004) 原著
Pseudomonas aeruginosaのO2走化性の分子機構		日本微生物生態学会		(2004) 原著
ATP amplification for ultrasensitive bioluminescence assay: detection of a single bacterial cell	T. Satoh J. Kato N. Takiguchi H. Otake A. Kuroda	Biosci. Biotech. Biochem. 68	1216-1220	(2004) 原著
Chemotaxis proteins and transducers for aerotaxis in Psudomonas aeruginosa	C. S. Hong M. Shitashiro A. Kuroda T. Ikeda N. Takiguchi H. Otake J. Kato	FEMS Microbiol. Letters 231	247-252	(2004) 原著

Lonによるリボソーム蛋白質のリサイクリングシステム	野村和孝 大竹久夫 黒田章夫	蛋白質核酸酵素	49	1069-1070	(2004)	総説	
微生物のポリリン酸研究の新展開	黒田章夫	日本農芸化学会誌	78	738-743	(2004)	総説	
Chemotaxis as sensing system for environmental pollutions	M. Shitashiro C. S. Hong A. Kuroda N. Takiguchi H. Otake J. Kato	The 10th APCChE Congress proceedings		2J-05	(2004)	原著	
リンの回収と再資源化	大竹久夫 黒田章夫 滝口昇 加藤純一	日本無機リン化学会・50 PHOSPHORUS LETTER		9-17	(2004)	原著	
Biotransformation of various alkanes using the Escherichia coli expressing an alkane hydroxylase system from Gordonia sp. TF6	T. Fujii T. Narikawa K. Takeda J. Kato	Biosci. Biotechnol. Biochem.	68	2171-2177	(2004)		
Involvement of S-adenosylmethionine in G ₁ cell-cycle regulation in <i>Saccharomyces cerevisiae</i> .	M. Mizunuma K. Miyamura D. Hirata H. Yokoyama T. Miyakawa	Proc. Natl. Acad. Sci. USA	101	6086-6091	(2004)	原著	
Evidence for antagonistic regulation of cell growth by the calcineurin and high osmolarity glycerol (HOG) pathways in <i>Saccharomyces cerevisiae</i>	A. Shitamukai D. Hirata S. Sonobe T. Miyakawa	J. Biol. Chem.	279	3651-3661	(2004)	原著	
Particle-induced X-ray emission (PIXE): A tool for multielement analysis in the yeast cells	I. C. Farcasanu F. Nishiyama T. Miyakawa	Chemistry Annals of Bucharest University		39-43	(2004)	原著	
Ultraviolet B-induced skin angiogenesis is associated with a switch in the balance of cascular endothelial growth factor and thrombospondin-1 expression	Kiichiro Yano Kentaro Kajiya Miki Ishiwata Young-Kwon Hong Tokichi Miyakawa Michael Detmar	J. Invest. Dermatol.	122	201-208	(2004)	原著	
Effect of ethanol on cell growth of budding yeast: Genes that are important for cell growth in the presence of ethanol	S. Kubota I. Takao K. Kume M. Kanai A. Shitamukai M. Mizunuma T. Miyakawa H. Shimoi H. Iefuji D. Hirata	Biosci. Biotechnol. Biochem.	68	4	968-972	(2004)	原著
Cloning and analysis of the AWA1 gene of a non-foaming mutant of a sake yeast	K. Miyashita K. Sakamoto H. Kitagaki K. Iwashita K. Ito H. Shimoi	J. Biosci. Bioeng.	97	14-18	(2004)	原著	
A hap1 mutation in a laboratory strain of <i>Saccharomyces cerevisiae</i> results in decreased expression of ergosterol-related genes and cellular ergosterol content Compared to Sake Yeast	K. Tamura Y. Gu Q. Wang T. Yamada K. Ito H. Shimoi	J. Biosci. Bioeng.	98	159-166	(2004)	原著	
A temperature-sensitive dcw1 mutant of <i>Saccharomyces cerevisiae</i> is arrested in the G2 phase with small buds which have aberrant cell walls	H. Kitagaki K. Ito H. Shimoi	Eukaryot. Cell	3	1297-1306	(2004)	原著	
清酒酵母ゲノムの特徴	下飯 仁	生物工学会誌、82		535-537	(2004)	解説	
ゲノムからみた清酒酵母の特徴	下飯 仁	醸造協会誌、99		762-766	(2004)	解説	

Transcriptional analysis of genes for energy catabolism and hydrolytic enzymes in the filamentous fungus <i>Aspergillus oryzae</i> using cDNA microarrays and expressed sequence tags	H. Maeda M. Sano Y. Maruyama T. Tanno T. Akao Y. Totzuka M. Endo R. Sakurada Y. Yamagata M. Machida O. Akita F. Hasegawa K. Abe K. Gomi T. Nakajima Y. Iguchi	Appl. Microbiol. Biotechnol.	74-83	(2004)
Cloning of a Novel Tyrosinase-Encoding Gene(melB) from <i>Aspergillus oryzae</i> and Its Overexpression in Solid-State Culture (Rice Koji)	H. Obata H. Ishida Y. Hata A. Kawato Y. Abe T. Akao O. Akita E. Ichishima	J. Biosci. Bioeng.	97	400-405 (2004) 原著
Isolation and Characterization of a Novel Gene Encoding -L-Arabinofuranosidase from <i>Aspergillus oryzae</i>	K. Matsumura H. Obata Y. Hata A. Kawato Y. Abe O. Akita	J. Biosci. Bioeng.	98	77-84 (2004) 原著
Cloning and Enhanced Expression of the Cytochrome P450nor Gene (nicA; CYP55A5) Encoding Nitric Oxide Reductase from <i>Aspergillus oryzae</i>	M. Kaya K. Matsumura K. Higashida Y. Hata A. Kawato Y. Abe O. Akita N. Takaya H. Shoun	Biosci. Biotechnol. Biochem.	68	2040-2049 (2004) 原著
A Novel Amine Oxidase-Encoding Gene from <i>Aspergillus oryzae</i>	K. Matsumura H. Hisada H. Obata Y. Hata A. Kawato Y. Abe O. Akita	Journal of Bioscience and Bioengineering	98	359-365 (2004) 原著
Retinoic acid and its receptors are required for expression of aryl hydrocarbon receptor mRNA and embryonic development of blood vessel and bone in the medaka fish, <i>Oryzias latipes</i> .	Y. Hayashida T. Kawamura R. Hori-e I. Yamashita	Zool. Sci. 21	541-551	(2004) 原著
Nuclear localization and interaction of RolB with plant 14-3-3 proteins correlates with induction of adventitious roots by the oncogene rolB.	H. Moriuchi C. Okamoto R. Nishihama I. Yamashita Y. Machida N. Tanaka.	Plant Journal 38	260-275	(2004) 原著
Hairy root-mediated transgenic-plant regeneration in Egyptian clover (<i>Trifolium alexandrinum</i> L.).	H. Moriuchi Y. Fujikawa M.A.M. Aly H. Saneoka K. Fujita I. Yamashita N. Tanaka.	Plant Biotechnology 21	165-168	(2004) 原著
Evidence of horizontal gene transfer from <i>Agrobacterium rhizogenes</i> to tobacco plants during the evolutionary process.	N. Tanaka K. Suzuki I. Yamashita	Endocytobiosis Cell Research 15	151-162	(2004) 原著
Genome structure and evolution of giant plant pathogenic plasmids in <i>Agrobacterium tumefaciens</i> and <i>Agrobacterium rhizogenes</i> .	K. Yoshida M. Uraji Y. Hattori K. Moriguchi K. Suzuki N. Tanaka A. Kato.	Endocytobiosis Cell Research 15	371-378	(2004) 原著
植物腫瘍化因子がかわる細胞増殖 器官分化のタンパク質ネットワーク。	田中伸和 森内 寛	生物物理 44	286-289	(2004) 総説

Requirement of the SCF ^{Pop1/Pop2} ubiquitin ligase for degradation of the fission yeast S phase cyclin Cig2	H. Yamano K. Kominami C. Harrison K. Kitamura S. Katayama S. Dhut T. Hunt T. Toda.	J. Biol. Chem. 279	18974-18980 (2004) 原著
Molecular interactions of fission yeast Skp1 and its role in the DNA damage checkpoint	A. Lehmann S. Katayama C. Harrison S. Dhut K. Kitamura N. McDonald T. Toda	Genes Cells. 9	367-382 (2004) 原著

C. 半導体集積科学 (Dept. of Semiconductor Electronics & Integration Science)

論文の標題 (Titles)	著者名 (Authors)	誌名(Magazines)	巻 (Vol.) 号 (No.) 頁 (Pages)	(年) (Year)	論文種別 (Classif.)
Fabrication of Multiply-Stacked Structures of Si Quantum-Dots Embedded in SiO ₂ by Combination of Low-Pressure CVD and Remote Plasma Treatments	K. Makihara H. Nakagawa M. Ikeda H. Murakami S. Higashi S. Miyazaki	Dig. of Papers 2003 Intern. Microprocesses and Nanotechnol. Conf. (Tokyo, October 27-29, 2004)	216-217	(2004)	国際会議議事録
Characterization of Germanium Nanocrystallites Grown on SiO ₂ by a Conductive AFM Probe Technique	K. Makihara Y. Okamoto H. Murakami S. Higashi S. Miyazaki	Tech. Dig. 2004 Asia-Pacific Workshop on Fundamentals and Application of Advanced Semiconductor Devices (Nagasaki, June 30-July 2, 2004)	277-280	(2004)	国際会議議事録
Charging and Discharging Characteristics of Stacked Floating Gates of Silicon Quantum Dots	T. Shibaguchi M. Ikeda H. Murakami S. Miyazaki	Tech. Dig. 2004 Asia-Pacific Workshop on Fundamentals and Application of Advanced Semiconductor Devices (Nagasaki, June 30-July 2, 2004)	273-276	(2004)	国際会議議事録
Characterization of Atom Diffusion in Polycrystalline Si/SiGe/Si Stacked Gate	H. Murakami Y. Moriwaki M. Fujitake D. Azuma S. Higashi S. Miyazaki	Tech. Dig. 2004 Asia-Pacific Workshop on Fundamentals and Application of Advanced Semiconductor Devices (Nagasaki, June 30-July 2, 2004)	189-193	(2004)	国際会議議事録
Evaluation of Electronic Defect States at Poly-Si/HfO ₂ interface by Photoelectron Yield Spectroscopy	M. Sugimura A. Ohta H. Nakagawa T. Shibaguchi S. Higashi S. Miyazaki	Ext. Abst. of 2004 Int. Conf. on Solid State Devices and Materials (Tokyo, September 15-17, 2004)	792-793	(2004)	国際会議議事録
Photo-Induced Electron Charging to Silicon-Quantum-Dot Floating Gate in Metal-Oxide-Semiconductor Memories	T. Nagai M. Ikeda H. Murakami S. Higashi S. Miyazaki	Ext. Abst. of 2004 Int. Conf. on Solid State Devices and Materials (Tokyo, September 15-17, 2004)	126-127	(2004)	国際会議議事録
Impact of Rapid Thermal O ₂ -Anneal on Dielectric Stack Structures of Hafnium Aluminate and Silicon Dioxide Formed on Si(100)	A. Ohta S. Miyazaki H. Murakami T. Kawahara K. Torii	Ext. Abst. of 2004 Int. Workshop on DIELECTRIC THIN FILMS FOR FUTURE ULSI DEVICES: SCIENCE AND TECHNOLOGY (Tokyo, May 26-28, 2004)	97-98	(2004)	国際会議議事録
Characterization of Interfacial Oxide Layers in Heterostructures of Hafnium Oxides Formed on NH ₃ -nitrided Si(100)	H. Nakagawa A. Ohta F. Takeno S. Nagamachi H. Murakami S. Higashi S. Miyazaki	Ext. Abst. of 2004 Int. Workshop on DIELECTRIC THIN FILMS FOR FUTURE ULSI DEVICES: SCIENCE AND TECHNOLOGY (Tokyo, May 26-28, 2004)	35-36	(2004)	国際会議議事録

Characterization of Electronic Charged States of Silicon Nanocrystals as a Floating Gate in MOS Structures	S. Miyazaki T. Shibaguchi M. Ikeda	Mat. Res. Soc. Symp. Proc.	830	D5.9	(2004) 原著
Dielectric Breakdown Characteristics of HfAlOx/SiON gate stack	K. Torii H. Ohji T. Kawahara R. Mitsuhashi A. Horiochi S. Miyazaki	Mat. Res. Soc. Symp. Proc.	811	D2.7	(2004) 原著
Dielectric Breakdown Mechanism of HfSiON/SiO ₂ Gate Dielectric	K. Torii T. Aoyama S. Kamiyama T. Tamura S. Miyazaki H. Kitajima T. Arikado	Dig. of Papers 2004 Symp. on VLSI Technol. (Honolulu, June 15-17, 2004)		112-113	(2004) 国際会議議事録
Time-dependent dielectric breakdown of HfAlOx/SiON gate dielectric	K. Torii T. Kawahara R. Mitsuhashi H. Ohji A. Mutoh S. Miyazaki H. Kitajima T. Arikado	Proc. of 34th European Solid-State Devices Research Conf. (Leuven, Belgium, Sep. 21-23, 2004)		93-96	(2004) 国際会議議事録
High-Rate Growth of Highly-Crystallized Si Films from VHF Inductively-Coupled Plasma CVD	N. Kosku S. Miyazaki	Proc. of 4th Int. Symp. on Dry Process (Tokyo, Nov. 30-Dec.1, 2004)		145-150	(2004) 国際会議議事録
Praseodymium silicate formed by postdeposition high-temperature annealing	A. Sakai S. Sakashita M. Sakashita S. Zaima S. Miyazaki	Appl. Phys. Lett.	85	22	5322-5324 (2004) 原著
Influence of Thermal Annealing on Compositional Mixing and Crystallinity of Highly-Selective Grown Si Dots with Ge Core	Y. Darma Hideki Murakami S. Miyazaki	Appl. Surf. Sci.	224		156-159 (2004) 原著
Characterization of Charged States of Si Quantum Dots Floating Gate in MOS Structures	S. Miyazaki T. Shibaguchi M. Ikeda	Abst. of Electrochemical Society-Int. Symp. on Nanoscale Devices and Materials (Hawaii, Oct. 3-8, 2004)		No.1013	(2004) 国際会議議事録
Statistical Analysis of Soft and Hard Breakdown in 1.9-4.8nm-thick Gate Oxides	W. Mizubayashi Y. Yoshida H. Murakami S. Miyazaki M. Hirose	IEEE Electron Device Lett.	25	5	305-307 (2004) 原著
Crystallization of Si Films on Glass Substrate Using Thermal Plasma Jet	S. Higashi H. Kaku H. Taniguchi H. Murakami S. Miyazaki	Abst. of Int. Conf. Polycrystalline Semiconductors 2004 (Potsdam, Germany, September 5-10, 2004), in series to be published in Thin Solid Films		Th 1.3	(2004) 国際会議議事録
High-Rate Growth of Highly-Crystallized Si Films from VHF Inductively-Coupled Plasma CVD	N. Kosku S. Higashi S. Miyazaki	Proc. of Int. Union of Materials Research Societies-Int. Conf. in Asia (Hsinchu, Taiwan, Nov. 16-18, 2004)		E318	(2004) 国際会議議事録
Characterization of Charged States of Silicon-based Quantum Dots and Its Application to Floating Gate MOS Memories	S. Miyazaki	Proc. of Int. Union of Materials Research Societies-Int. Conf. in Asia (Hsinchu, Taiwan, Nov. 16-18, 2004) (Invited)		F231	(2004) 国際会議議事録
Analysis of Soft Breakdown of 2.6-4.9nm-Thick Gate Oxides	W. Mizubayashi S. Miyazaki	Jpn. J. Appl. Phys.	43	10	6925-6929 (2004) 原著

Impact of Rapid Thermal O ₂ Anneal on Dielectric Stack Structures of Hafnium Aluminate and Silicon Dioxide Formed on Si(100)	A. Ohta H. Nakagawa H. Murakami S. Higashi T. Kawahara K. Torii S. Miyazaki	Jpn. J. Appl. Phys.	43	11B	7831-7836	(2004) 原著
Characterization of Interfacial Oxide Layers in Heterostructures of Hafnium Oxides Formed on NH ₃ -Nitrided Si(100)	H. Nakagawa A. Ohta F. Takeno S. Nagamachi H. Murakami S. Higashi S. Miyazaki	Jpn. J. Appl. Phys.	43	11B	7890-7894	(2004) 原著
New Analytical Modeling for Photoinduced Discharge Characteristics of Photoreceptors	A. Teshima S. Miyazaki	Jpn. J. Appl. Phys.	43	8A	5129-5133	(2004) 原著
Photoelectron Spectroscopy of ultrathin yttrium oxide films on Si(100)	A. Ohta M. Yamaoka S. Miyazaki	Microelec. Eng.	72		154-159	(2004) 原著
Crystallization of Si Thin Film Using Thermal Plasma Jet and Its Application to Thin-Film Transistor Fabrication	S. Higashi H. Kaku H. Murakami S. Miyazaki M. Asami H. Watakabe N. Ando T. Sameshima	Proc. Int. Workshop on Active-Matrix Liquid-Crystal Displays 2004, (Tokyo Japan, August 25-27, 2004)			179-180	(2004) 国際会議議事録
Electrical Charging Characteristics of Silicon Dots Floating Gates in MOS Devices	S. Miyazaki	Proc. of 7th China-Japan Symp. on Thin Films (Chengdu Sichuan, China, September 20-22,2004)	(Invited)		7-10	(2004) 国際会議議事録
Charging/Discharging Characteristics of Silicon Quantum Dots and Their Application to Memory Devices	S. Miyazaki	Abst. of The 2004 Joint Conf. of The 7th Int. Conf. on Advanced Surface Engineering (ASE2004) and The 2nd Int. Conf. on Surface and Interface Science and Engineering (SISE 2004) FSISE 2004(Guangzhou , China, May 14-16, 2004)	(Invited)		No.270	(2004) 国際会議議事録
Characterization of interfacial oxidation in HfO ₂ /SiNx/Si(100) stack structures	H. Nakagawa, A. Oota, F. Takeno, S. Nagamati, H. Murakami S. Miyazaki	Ext. Abst. of The 9th Workshop Formation, Characterization and Reliability of Ultrathin Silicon Oxides (Shizuoka, January 22-24, 2004)			283-287	(2004) 国際会議議事録
Photoemission Study of HfAlOx/SiO ₂ /Si(100) Heterostructures	A. Ohta H. Murakami S. Miyazaki T. Kawahara K. Torii	Ext. Abst. of The 9th Workshop Formation, Characterization and Reliability of Ultrathin Silicon Oxides (Shizuoka, January 22-24, 2004)			289-294	(2004) 国際会議議事録
The thermal stability of the HfAlOx/SiO ₂ interface: The suppression of the interfacial reaction during post deposition annealing	R. Mitsuhashi A. Horiuchi K. Torii S. Miyazaki	Ext. Abst. of The 9th Workshop Formation, Characterization and Reliability of Ultrathin Silicon Oxides (Shizuoka, January 22-24, 2004)			81-86	(2004) 国際会議議事録
Electrical characterization of Ge microcrystallites by atomic force microscopy using a conducting probe	K. Makihara Y. Okamoto H. Nakagawa M. Ikeda H. Murakami S. Higashi S. Miyazaki	Thin Solid Films	457		103-108	(2004) 原著
An analysis of interference in synchronous systems	T. Yoshimura A. Iwata	IEICE Electronics Express,	1	15	465-471	(2004) 原著

Pulse Modulation Techniques for Nonlinear Dynamical Systems and a CMOS Chaos Circuit with Arbitrary 1-D Maps	T. Morie K. Murakoshi M Nagata A. Iwata	IEICE Trans. Electron.		(2004)	原著
A Design of Wireless Neural-Sensing LSI	T. Yoshida M. Akagi T. Mashimo A. Iwata M. Yoshida K. Uematsu	IEICE Trans. Electronics	E87-C	996-1002	(2004) 原著
A Design of Neural Signal Sensing LSI with Multi-Input Channels	T. Yoshida T. Mashimo M. Akagi A. Iwata M. Yoshida K. Uematsu	IEICE Trans. Fundamentals	E87-A	376-383	(2004) 原著
A Low Noise Amplifier using Chopper Stabilization for a Neural Sensor LSI	T. Yoshida T. Mashimo M. Akagi A. Iwata M. Yoshida K. Uematsu	International Conference on Solid State Devices and Materials		539-541	(2004) 原著
A 2Gbps and 7-multiplexing CDMA Serial Receiver Chip for Highly Flexible Robot Control System	M. Shiozaki T. Mukai M. Ono M. Sasaki A. Iwata	2004 Symposium on VLSI Circuits, Digest of Technical Papers		194-197	(2004) 原著
A Spiking Neural Network with Negative Thresholding and Its Application to Associative Memory	K. Sasaki T. Morie A. Iwata	2004 IEEE Int. Midwest Symposium on Circuits and Systems		III-89 - III-92	(2004) 原著
Carrier Transport Model for Lateral p-i-n Photodiodes at High-Frequency Operation	K. Konno, O. Matsushima, K. Hara, G. Suzuki, D. Navarro, M. Miura-Mattausch	Extended Abstracts of the 2004 International Conference on Solid State Devices and Materials		946-947	(2004) 国際会議議事録
Shot Noise Measurement in p-i-n Diode and Its Analysis	K. Hara, O. Matsushima, G. Suzuki, D. Navarro, K. Konno, Y. Isobe, M. Miura-Mattausch	Extended Abstracts of the 2005 International Conference on Solid State Devices and Materials		438-439	(2004) 国際会議議事録
MOSFET Modeling for RF-Circuit Simulation	M. Miura-Mattausch, H. J. Mattausch, T. Ohguro, T. Iizuka, M. Taguchi, S. Kumashiro, S. Miyamoto	2004 International Conference on Solid-State and Integrated-Circuit Technology		1118-1122	(2004) 国際会議議事録
MOSFET Modeling for RF-CMOS Design	Mitiko Miura-Mattausch	Asia and South Pacific Design Automation Conference 2004		482-490	(2004) 国際会議議事録
MOSFET Modeling for RF-Circuit Era	M. Miura-Mattausch, D. Navarro, Y. Takeda, H. J. Mattausch, T. Ohguro, T. Iizuka, M. Taguchi, S. Miyamoto	11th International Conference MIXDES 2004		62-66	(2004) 国際会議議事録
Noise Modeling with HiSIM Based on Self-Consistent Surface-Potential Description	M. Miura-Mattausch, S. Hosokawa, D. Navarro, S. Matsumoto, H. Ueno, H. J. Mattausch, T. Ohguro, T. Iizuka, M. Taguchi, T. Kage, S. Miyamoto	NSTI-Nanotech 2004 2		66-69	(2004) 国際会議議事録

Fully-Depleted SOI-MOSFET Model for Circuit Simulation and Its Application to 1/f Noise Analysis	N. Sadachika, Y. Uetsuji, D. Kitamaru, H. J. Mattausch, M. Miura-Mattausch, L. Weiss, U. Feldmann, S. Baba D. Navarro, N. Nakayama, K. Machida, Y. Takeda, S. Chiba, H. Ueno, H. J. Mattausch, M. Miura-Mattausch, T. Ohguro, T. Iizuka, M. Taguchi, S. Miyamoto	Proc. Int. Conf. Simulation Semiconductor Processes & Devices (Munich)	255-258	(2004)	国際会議議事録
Modeling of Carrier Transport Dynamics at GHz-Frequencies for RF Circuit-Simulation	H. Ueno, H. J. Mattausch, M. Miura-Mattausch, T. Ohguro, T. Iizuka, M. Taguchi, S. Miyamoto	Proc. Int. Conf. Simulation Semiconductor Processes & Devices (Munich)	259-262	(2004)	国際会議議事録
Test Circuits for Extracting Sub-100nm MOSFET Technology Variations with the MOSFET Model HiSIM	M. Miura-Mattausch, S. Matsumoto, K. Mizoguchi, D. Miyawaki H. J. Mattausch	Proc. IEEE 2004 Int. Conference on Microelectronic Test Structures	17	267-272	(2004) 国際会議議事録
Modeling of 1/f Noise with HiSIM for 100nm CMOS Technology	H. Ueno, S. Matsumoto, S. Hosokawa, M. Miura-Mattausch, H. J. Mattausch, S. Kumashiro, T. Yamaguchi, K. Yamashita N. Nakayama	The 1st International Workshop on Compact modeling	18-23	(2004)	国際会議議事録
Non-Quasi-Static Model for MOSFET Based on Carrier-Transit Delay	N. Nakayama, D. Navarro, M. Tanaka, H. Ueno, M. Miura-Mattausch, H. J. Mattausch, T. Ohguro, S. Kumashiro, M. Taguchi, T. Kage, S. Miyamoto	IEE Electronics Letters 40	4	276-278	(2004) 原著
Complete Surface-Potential-Based Fully-Depleted Silicon-on-Insulator Metal-Oxide-Semiconductor Field-Effect-Transistor Model for Circuit Simulation	D. Kitamaru, Y. Uetsuji, N. Sadachika, M. Miura-Mattausch	Japanese Journal of Applied Physics	43	4B	2166-2169 (2004) 原著
Carrier Transport in Highly Generated Carrier Concentration,	O. Matsushima, K. Konno, M. Tanaka, K. Hara, M. Miura-Mattausch	Semiconductor Science and Technology	19	4	185-187 (2004) 原著
High Frequency Response of p-i-n Photodiodes Analyzed by an Analytical Model in Fourier Space	K. Konno, O. Matsushima, D. Navarro, M. Miura-Mattausch	Journal of Applied Physics	96	7	3839-3844 (2004) 原著
MOSFET Model HiSIM Based on Surface-Potential Description for Enabling Accurate RF-CMOS Design	M. Miura-Mattausch, H. J. Mattausch, T. Ohguro, T. Iizuka, M. Taguchi, S. Kumashiro, S. Miyamoto	Journal of Semiconductor Technology and Science	4	3	133-140 (2004) 原著
Limit of Validity of the Drift-Diffusion Approximation for Simulation of Photodiode Characteristics,	K. Konno, O. Matsushima, D. Navarro, M. Miura-Mattausch	Applied Physics Letters	84	8	1398-1400 (2004) 原著
Low-Frequency Noise by mobility and number fluctuations in MOS structures	S. Hamayoshi T. Nakamoto M. Wada K. Higuchi	Extended Abstract of the Int. Conf. on Solid State Devices and Materials (SSDM2004).		422-423	(2004) 国際会議議事録
Low-Frequency Noise Generated From High-Field Region in AlGaAs/InGaAs HEMTs	M. Wada T. Nakamoto S. Hamayoshi K. Higuchi	Extended Abstract of the Int. Conf. on Solid State Devices and Materials (SSDM2004)		100-101	(2004) 国際会議議事録

Arbitrary Choice of Basic Variables in Density Functional Theory. I. Formalism	M. Higuchi K. Higuchi	Physical Review B	69	35113	(2004) 原著
Low-Frequency Noise Caused by Substrate Current in AlGaAs/InGaAs HEMTs	M. Wada T. Nakamoto K. Higuchi	Japanese Journal of Applied Physics	43	4B	1937-1940 (2004) 原著
Arbitrary Choice of Basic Variables in Density Functional Theory. II. Illustrative Applications	K. Higuchi M. Higuchi	Physical Review B	69	165448	(2004) 原著
Density functional theory with arbitrary basic variables	K. Higuchi M. Higuchi	Journal of Magnetism and Magnetic Materials	272-276	659-661	(2004) 原著
Chip Size and Performance Evaluations of Shared Cache for On-chip Multiprocessors	T. Sasaki T. Inoue N. Omori T. Hironaka H.J. Mattausch T. Koide	IEICE Trans. on Information & Systems	vol. J87-D-I Part I (in Japanese)	350-363	(2004) 原著
Efficient Video-Picture Segmentation Algorithm for Cell-Network-Based Digital CMOS Implementation	T. Morimoto Y. Harada T. Koide H.J. Mattausch	IEICE Trans. on Information & Systems	vol. E87-D,	500-503	(2004) 原著
Distributed against centralized crossbar function for realizing bank-based multiport memories	S. Fukae T. Inoue H.J. Mattausch T. Koide T. Hironaka	IEE Electronics Letters	40	101-102	(2004) 原著
Distributed-crossbar architecture for area-efficient combined data/instruction caches with multiple ports	K. Johguchi Z. Zhu T. Hirakawa T. Koide T. Hironaka H.J. Mattausch	IEE Electronics Letters	40	160-162	(2004) 原著
350nm CMOS Test-Chip for Architecture Verification of Real-Time QVGA Color-Video Segmentation at the 90nm Technology Node	T. Morimoto Y. Harada T. Koide H.J. Mattausch	Proceedings of the Asia and South Pacific Design Automation Conference (ASP-DAC 2004)		531-532	(2004) 原著
Compact 12-Port Multi-Bank Register File Test Chip in 0.35μm CMOS for Highly Parallel Processors	T. Sueyoshi H. Uchida Y. Mitani K. Hiramatsu H.J. Mattausch T. Koide T. Hironaka	Proceedings of the Asia and South Pacific Design Automation Conference (ASP-DAC 2004)		551-552	(2004) 原著
Associative Memory with Fully Parallel Manhattan-Distance Search for Low-Power Real-Time Single-Chip Applications	Y. Yano T. Koide H.J. Mattausch	Proceedings of the Asia and South Pacific Design Automation Conference (ASP-DAC 2004),		543-544	(2004) 原著
A 143MHz, 1.1W, 4.5Mb dynamic TCAM with hierarchical searching and shift redundancy architecture	H. Noda K. Inoue M. Kuroiwa A. Amo A. Hachisuka H.J. Mattausch T. Koide S. Soeda K. Dosaka K. Arimoto	IEEE International Solid-State Circuits Conference Digest of Tech. Papers (ISSCC 2004)		208-209	(2004) 原著
Proposition and Evaluation of a Bank-Based Multi-Port Memory with Blocking Network	T. Inoue T. Hironaka T. Sasaki S. Fukae T. Koide H.J. Mattausch	Proceedings of the 2004 International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC 2004),		6C2L-3	(2004) 原著
Low-Power Design for Real-Time Image Segmentation LSI and Compact Digital CMOS Implementation	O. Kiriyama T. Morimoto H. Adachi Y. Harada T. Koide H.J. Mattausch	Proceedings of the 2004 IEEE Asia-Pacific Conference on ASICs (AP-ASIC 2004),		432-433	(2004) 原著
Low Power Bank-based Multi-port SRAM Design due to Bank Standby Mode	Z. Zhu K. Johguchi H.J. Mattausch T. Koide T. Hironaka	Proceedings of the 47th IEEE International Midwest Symposium on Circuits and Systems (MWSCAS 2004)	Vol. I,	569-572	(2004) 原著

Reference-Pattern Learning and Optimization from an Input-Pattern Stream for Associative-Memory-Based Pattern-Recognition System	Y. Shirakawa H.J. Mattausch T. Koide	Proceedings of the Vol. I, 47th IEEE International Midwest Symposium on Circuits and Systems (MWSCAS 2004)	561-564	(2004) 原著
Optimized Multi-Stage Minimum-Distance-Search Circuit with Feedback Stabilization for Fully-Parallel Associative Memories	K. Kamimura K. M. Rahman H.J. Mattausch T. Koide	Proceedings of the Vol. I, 47th IEEE International Midwest Symposium on Circuits and Systems (MWSCAS 2004)	161-164	(2004) 原著
Analog-Circuit-Component Optimization with Genetic Algorithm	K. Takemura T. Koide H.J. Mattausch T. Tsuji	Proceedings of the Vol. I, 47th IEEE International Midwest Symposium on Circuits and Systems (MWSCAS 2004)	489-492	(2004) 原著
Digital Low-Power Real-Time Video Segmentation by Region Growing	T. Morimoto O. Kiriyama H. Adachi T. Koide H.J. Mattausch	Extended Abstracts of the 2004 International Conference on Solid State Devices and Materials (SSDM 2004)	138-139	(2004) 原著
Automatic Pattern-Learning Architecture Based on Associative Memory and Short/Long Term Storage Concept	Y. Shirakawa M. Mizokami T. Koide H.J. Mattausch	Extended Abstracts of the 2004 International Conference on Solid State Devices and Materials (SSDM 2004)	362-363	(2004) 原著
Bank-Type Associative Memory for High-Speed Nearest Manhattan Distance Search in Large Reference-Pattern Space	T. Koide Y. Yano H.J. Mattausch	Extended Abstracts of the 2004 International Conference on Solid State Devices and Materials (SSDM 2004),	360-361	(2004) 原著
Highly Efficient Switch Architecture Based on Banked Memory with Multiple Ports	T. Fuji K. Kobayashi T. Koide H.J. Mattausch T. Hironaka	12th Workshop on Synthesis And System Integration of Mixed Information Technologies (SASIMI 2004),	491-498	(2004) 原著
Real-Time Segmentation of Large-Scale Images by Pipeline Processing with Small-Size Cell Network	H. Adachi T. Morimoto O. Kiriyama T. Koide H.J. Mattausch	12th Workshop on Synthesis And System Integration of Mixed Information Technologies (SASIMI 2004),	95-102	(2004) 原著
A Numerical Approach for Snake Models and Implementation with an FPGA Architecture	A. Ahmadi H.J. Mattausch T. Koide	Proceedings of the Annual Workshop on Circuits, Systems and Signal Processing (ProRISC '2004),	1-6	(2004) 原著
Particle Formation and Trapping Behavior in a TEOS/O2 Plasma and Their Effects on Contamination of a Si Wafer	H. Setyawan M. Shimada Y. Hayashi K. Okuyama S. Yokoyama	Aerosol Science and Technology 38 No. 2	120-127	(2004) 原著
Growth and electrical properties of atomic-layer deposited ZrO ₂ /Si-nitride stack gate dielectrics	H. Ishii A. Nakajima S. Yokoyama	J. Appl. Phys. 95	536-542	(2004) 原著
SiO ₂ Hole Etching Using Perfluorocarbon Alternative Gas with Small Global Greenhouse Effect	M. Ooka S. Yokoyama	Jpn. J. Appl. Phys. 43	6A	3586-3589 (2004) 原著
Anomalous Behavior of Interface Traps of Si MOS Capacitors Contaminated with Organic Molecules	M. Suzuki S. Yokoyama	Abst. Int. Conf. on Solid State Devices and Materials (SSDM2004)	530-531	(2004) 原著
Race-Track Optical Ring Resonators with Groove Coupling	Y. Tanushi M. Wake S. Yokoyama	Abst. Int. Conf. on Solid State Devices and Materials (SSDM2004)	940-941	(2004) 原著
Technology for Ring Resonator Switches using Electro-Optic Materials	Y. Tanushi M. Wake K. Wakushima M. Suzuki S. Yokoyama	1st International Conference on Group IV Photonics (Hong Kong, China.2004) WB3		(2004) 原著

Characterization of Porous Silicon Nitride Formed by Plasma-Enhanced Chemical Vapor Deposition	T. Kakite M. Wake S. Yokoyama	Electro Chemical Society Symposium (2004) Dielectric Science and Technology/Electronics H1-843	(2004)	原著
Atomic-layer-deposition of ultrathin Si Nitride for sub-tunneling gate dielectrics	A. Nakajima S. Yokoyama	Electro Chemical Society Symposium (2004) First International Symposium on Dielectrics for Nanosystems I1-890	(2004)	原著
Application of highly doped Si single-electron transistors to an exclusive-NOR operation	Tetsuya Kitade, Anri Nakajima	Jpn. J. Appl. Phys. 43	L418-L420	(2004) 原著
Room Temperature Operation of an Exclusive-OR Circuit Using a Highly-doped Si Single-Electron Transistors	Tetsuya Kitade, Kensaku Ohkura, Anri Nakajima	Extend. Abst. 2004 Int. Conf. on Solid State Devices and Materials (SSDM2004)	890-891	(2004) 原著
Interface Trap Generation on Thin SiO ₂ and Plasma-Nitrided SiO ₂ Gate Dielectrics under Static and Dynamic Stresses	Shiyang Zhu, Anri Nakajima, Takuo Ohashi, Hideharu Miyake	Proceedings 2004 7th Int. Conf. on Solid-State and Integrated-Circuits Technology (ICSICT '04) (Beijing, October 18-21, 2004)	828-831	(2004) 原著
Molecular Dynamics Simulation On Excimer Laser Annealing Process For Ultra Shallow Junction Formation	M. Shibahara S. Kotake T. Inoue A. Matsuno K. Kagawa K. Shibahara,	Proceedings of the 1st Int. Symp. on Micro & Nano Technology	VIII-1-02-1 - VIII-1-02-5	(2004) 原著
Precise Depth Profiling of Sub-keV Implanted Arsenic	T. Eto K. Shibahara	Ext. Abst. Int. Conf. on Solid State Devices and Materials	532-533	(2004) 原著
Workfunction Tuning Using Various Impurities for Fully Silicided NiSi Gate	K. Sano M. Hino N. Ooishi K. Shibahara	Ext. Abst. Int. Conf. on Solid State Devices and Materials	456-457	(2004) 原著
Sub-20-nm Junction Formation by Heat-Assisted Laser Annealing	K. Shibahara K. Kurobe T. Eto	Proceedings of 2004 Korea-Japan Joint Workshop on Advanced Semiconductor Processes and Equipments	162-165	(2004) 原著
A Three-Dimensional MOS Transistor Formation Technique with Crystallographic Orientation-Dependent TMAH Etchant	H. Sunami T. Furukawa T. Masuda	SENSORS and ACTUATORS A: PHYSICAL, A111	310-316	(2004) 原著
A High-Aspect Ratio Silicon Gate Formation Technique for Beam-Channel MOS Transistor with Impurity-Enhanced Oxidation	A. Katakam K. Kobayashi H. Sunami	Jpn. J. Appl. Phys. 43	2145-2150	(2004) 原著
An Impurity-Enhanced Oxidation Assisted Doping Profile Evaluation for Three-Dimensional and Vertical-Channel Transistors	K. Kobayashi T. Eto K. Okuyama K. Shibahara H. Sunami	Ext. Abs. of International Symp. on Solid State Devices and Materials	208-209	(2004) 原著
Integrated Power Transistor Application of Three-Dimensional Sidewall-Channel MOS Transistor	H. Sunami K. Kobayashi S. Matsumura	Proc. the 7th International Conference on Solid-State and Integrated-Circuit Technology	336-339	(2004) 原著
Recent Activities for Nano-device and Process Technology Development in the 21st COE: Nanoelectronics for Terabit Information Processing	H. Sunami	Tech. Dig. of International Symposium on Nano Science and Technology	3-8	(2004) 原著

論文題目(Titles)	著者名(Authors)	主査	副査	出版年
課程博士				
Ferroquadrupolar ordering in UCu_2Sn	石井 真	鈴木 孝至	遠藤 一太 世良 正文 高畠 敏郎	2004
Metal-Insulator Transition and Orbital Ordering in $\text{Y}_{1-x}\text{Ca}_x\text{TiO}_3$ ($\text{Y}_{1-x}\text{Ca}_x\text{TiO}_3$ における金属 - 絶縁体転移と軌道整列)	坪田 雅巳	伊賀 文俊	城 健男 世良 正文 高畠 敏郎 村上 洋一	2004
低雑音 低電圧CMOSアナログ回路と微小信号検出システムLSIへの応用に関する研究 (A Study on Low-Noise, Low-Voltage CMOS Analog Circuits and its Application to Small-Signal Sensing-System-LSI)	吉田 毅	岩田 穆	宮崎 誠一 三浦 道子 横山 新	2004
Studies on Chemotaxis Genes in <i>Pseudomonas aeruginosa</i> (<i>Pseudomonas aeruginosa</i> の走化性遺伝子群の解析)	洪 昌秀	加藤 純一	大竹 久夫 山田 隆 黒田 章夫	2004
植物腫瘍化遺伝子rolBの発根機構に関する研究 (Mechanism for root induction by plant oncogene rolB)	森内 寛	田中 伸和	山下 一郎 山田 隆 加藤 純一	2004
クロロウイルス感染サイクルにおける遺伝子発現制御機構の解析 (Studies on regulatory mechanisms of the gene expression during chlorovirus infection cycle)	川崎 健	山田 隆	木梨 陽康 西尾 尚道 宇佐美 昭二	2004
メダカの血管・骨形成、性分化における核内受容体の機能 (Roles of Nuclear Receptors in the Vascular and Bone Formation and the Gonadal Sex Differentiation in Medaka Fish)	川村 敏之	山下 一郎	小埜 和久 山田 隆	2004
クロロウイルスがコードする多糖分解酵素vAL-1の解析 (Analysis of polysaccharide degrading enzyme vAL-1 encoded by chlorovirus)	杉本 一路	山田 隆	小埜 和久 加藤 純一 宇佐美 昭二	2004
線虫 <i>Caenorhabditis elegans</i> のシクロヘキシミドに対する走化性機構の解析 (Molecular analysis of the mechanism for chemotaxis toward cycloheximide in the nematode <i>Caenorhabditis elegans</i>)	田島 誉久	大竹 久夫	加藤 純一 土屋 英子 黒田 章夫	2004
肝移植により誘導される免疫抑制因子の同定と創薬応用 (Characterization and clinical application of immunosuppressive factors expressed in serum by rat tolerogenic liver transplantation)	中野 敏明	小埜 和久	土屋 英子 山下 一郎 秋 廉裕 重田 征子	2004
スギ花粉アレルゲンの分子種解析 (Full spectrum of <i>Cryptomeria japonica</i> Pollen Allergens)	藤村 孝志	小埜 和久	山田 隆 宮川 都吉 重田 征子 秋 廉裕	2004
Enterobacter cloacaeのリン酸走化性の遺伝学的解析 (Genetic analysis of phosphate taxis in Enterobacter cloacae)	楊 黎	加藤 純一	大竹 久夫 宮川 都吉 黒田 章夫	2004
米 - グルコシダーゼの特性及びそのアルコール発酵への利用 (Characterization of Rice -Glucosidase and Its Application for Alcohol Fermentation)	岩田 博	西尾 尚道	宮川 都吉 小埜 和久	2004
アモルファスシリコン感光体の光減衰過程の解析と制御 (Analysis and Control of the Photodecay Process of Amorphous Silicon Photoreceptor)	手島 章友	宮崎 誠一	高萩 隆行 三浦 道子 横山 新	2004
高分子材料の深さ方向化学構造変化に関する分光学的研究 (Spectroscopic Study of the Chemical Structural Change of Polymer Materials in Depth Direction)	奥村 治樹	高萩 隆行	角谷 豊 宮崎 誠一 新宮原 正三	2004
Synthesis of Lanthanide-Cored Dendrimer Complexes and Analysis of Their Novel Electromagnetic Properties (ランタノイドリマーゼ錯体の合成と新規な電磁気学的性質の解析)	加和 学	高萩 隆行	角谷 豊 宇田川 真行 新宮原 正三 藤 秀樹	2004
Structural and Electrical Characterization of Self-assembled Silicon Quantum Dots with Germanium Core (Ge核を有する自己組織化形成Si量子ドットの構造および電気特性評価)	Yudi Darma	宮崎 誠一	岩田 穆 三浦 道子 横山 新 東 誠一郎	2004
Electronic and Structural Interplay in the Gap Formation in $\text{CeRhAs}_{1-x}\text{Sb}_x(0 < x < 1)$ ($\text{CeRhAs}_{1-x}\text{Sb}_x(0 < x < 1)$ のギャップ形成における電子系と格子系の協調)	笹川 哲也	高畠 敏郎	世良 正文 小口 多美夫 伊賀 文俊	2004
ゲート酸化膜の薄膜化に対応した高誘電率膜形成と界面清浄化技術の研究 (Study on High-Dielectric Constant Film Formation and Interface Cleaning Technology for Ultra Thin Gate Oxide)	宮 博信	高萩 隆行	宮崎 誠一 横山 新 新宮原 正三	2004

論文博士

出荷酵母の染色体構造変換因子RSCの機能に関する研究 (Studies on the function of chromatin-remodeling complex RSC in budding yeast)	小山 浩史	土屋 英子	宮川 都吉 山下 一郎	
タバコレトロトランスポゾンTtolと防御遺伝子の制御に関わるMyb遺伝子の単離とその転写制御に関わる因子の解析 (Studies on the regulation of tobacco retrotransposon Ttol and defense-related genes by a newly isolated Myb gene and its regulator)	杉本 和彦	山田 隆	木梨 陽康 土屋 英子	2004

著書 (Published Books)

著書名 (編集者) (Book Titles)	著者名(Authors)	発行所(Publisher)	発行年 (Year)	編著 訳 分担執筆 等の区別
第一原理計算手法の開発と公開	小口 多美夫	アグネ社 固体物理	(2004)	単著
第一原理計算による磁性の予測 :X線磁気円二色性	小口 多美夫 獅子堂 達也 高橋 学	アグネ社 固体物理	(2004)	共著
強磁場を用いた層状窒化物超伝導体の上部臨界磁場の決定	藤 秀樹 田中 雄紀 世良 正文 田口 康二郎 佐々木 孝彦 岩佐 義宏 中山 昭司	東北大学金属材料研究所強磁场超伝導材料研究センター	(2004)	共著
Si(100)ウエハ表面の原子レベル制御とその評価	高萩 隆行 坂上 弘之 谷口 豊 岡村 陽介 新宮原 正三	真空Vol.7 No.2	(2004)	共著
バイオテクノロジーのための基礎分子生物学 (大嶋 泰治 北本勝ひこ 原島 俊 宮川都吉 編著)	大嶋泰治 北本勝ひこ 原島 俊 宮川都吉	化学同人	(2004)	分担執筆
基礎分子生物学	黒田章夫 大嶋泰治 北本勝ひこ 原島俊 宮川都吉	化学同人	(2004)	分担執筆
バイオテクノロジーのための基礎分子生物学	大嶋泰治 北本勝ひこ 原島俊 宮川都吉	化学同人	(2004)	共著
乳酸菌L137株におけるアレルゲン遺伝子の発現	山下光雄 金 鐘賢 筒井麻衣子 秋 庸裕 小塙和久 室岡義勝	生物工学会誌	(2004)	分担執筆
海洋微生物ラビリンチュラと脂質工学	秋 庸裕 小塙和久	生物工学会誌	(2004)	共著
職業性喘息における減感作療法—そしてこの成績を一般的アレルギー疾患に及ぼす—「アレルギー・免疫」(総説)	勝谷 隆 坪井信治 小塙和久 重田征子	医薬ジャーナル社	(2004)	共著
次世代スギ花粉症診断および治療技術の開発 工業」(総説)	島田弥生 秋 庸裕 大磯 黜他 5名	化学工業社	(2004)	分担執筆
発酵による水素生産	中島田豊 西尾尚道	シーエムシー出版 CO ₂ 固定化・削減・有効利用の最新技術	(2004)	分担執筆
High rate production of hydrogen/methane from various substrates and wastes.	N. Nishio Y. Nakashimada	Advanced in Biochemical Engineering/Biotechnology	(2004)	分担執筆
機能性脂質のフロンティア	秋 庸裕ほか	シーエムシー出版	(2004)	分担執筆
油化学辞典	阿部正彦 他多数	丸善	(2004)	分担執筆

THIN FILM TRANSISTORS Materials and processes Volume 2 Polycrystalline Silicon Thin Film Transistors	D. G. Ast O. Bonnaud B.-D. Choi T. A. Fjeldly S. J. Fonash S. Higashi B. Iniguez R. Ishihara J. Jang Y. Kuo O.-K. Kwon I. Lee Y. Lee T. Mohammed-Brahim T. Sameshima M. S. Shur S. Uchikoga T. Ytterdal	Kluwer Academic Publishers Co. (2004)	分担執筆
新訂版 表面科学の基礎と応用	宮崎 誠一 二瓶 好正 吉村 雅満 中村 淳 他342	エヌ・ティー・エス	(2004) 分担執筆
Encyclopedia of Nanoscience and Nanotechnology	Anri Nakajima	American Scientific Publishers, USA	(2004) 分担執筆
マイクロエレクトロニクスにおける高分子材料	角南英夫	エヌ・ティー・エス	(2004) 分担執筆

特許 (Registered Patents)

発明の名称(Titles of the Invention)	発明者(全員)(Inventors)	特許番号(Patent No.)	登録年月日(Date of Registration)
多層配線構造の製造方法	新宮原 正三 高萩 隆行	特許第 3542326号	2004.4.9
回路基盤とその製造方法	坂上 弘之 高萩 隆行 新宮原 正三	特許第 3561465号	2004.6.4
半導体集積回路装置の製造方法	新宮原 正三 馬場 知幸 古屋 明彦 王 増林 安田 敬一郎 池田 秀雄 萩原 宗明	特許第 3567377号	2004.6.25
回路基盤とその製造方法	坂上 弘之 高萩 隆行 新宮原 正三	特許第 3590776号	2004.8.27
組換えダニアレルゲン	小埜 和久 重田 征子	特許第 3588615号	2004.3.12
組換えダニアレルゲン	小埜 和久 重田 征子	特許第 3533241号	2004.8.27
半導体メモリ装置	角南 英夫	特許第 3554666号	2004.5.14
半導体集積回路における電源電流波形の解析方法及び解析装置	岩田 穆	特許第 3569681号	2004.6.25
Associative Memory	H.J. Mattausch T. Gyohten	米国特許第6693815号	2004.2.17
並列プロセッサ	T. Hironaka H.J. Mattausch K. Hiramatsu	日本特許第3576148号	2004.7.16
自己調整型ウインナ・ラインアップ増幅器	H.J. Mattausch T. Koide	台湾特許第204285号	2004.10.8
Semiconductor device and method for manufacturing same	中島安理	米国特許第6787863号	2004.9.7