

既刊研究報告(Published Papers)

A. 量子物質科学 (Dept. of Quantum 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.)
Complex-Orbital Order in Fe3O4 and Mechanism of the Verwey Transition	田中 新	J. Phys. Soc. Jpn.	77	7	074711/1-15	(2008)	原著論文
Crystal-field level inversion in lightly Mn-doped Sr3Ru2O7	田中 新	Phys. Rev. Lett.	101	1	016404/1-4	(2008)	原著論文
Direct Observation of t2g Orbital Ordering in Magnetite	田中 新	Phys. Rev. Lett.	100	2	026406/1-4	(2008)	原著論文
High multipole transitions in NIXS: Valence and hybridization in 4f systems	田中 新	Europhys. Lett.	81	1	26004/1-6	(2008)	原著論文
Soft X-ray Magnetic Circular Dichroism Study of Uranium Monochalcogenides at Uranium N4,5 Absorption Edges	田中 新	J. Phys. Soc. Jpn.	77	2	024706/1-6	(2008)	原著論文
Angle-resolved photoemission study of the strongly correlated semiconductor FeSi	小口 多美夫	Phys. Rev. B	77	20	205117/1-5	(2008)	原著論文
Consideration of the Effect of the Nonspherical Distribution of Electrons in Atomic Structures	樋口 克彦	Material transactions	49	8	1893-1899	(2008)	原著論文
Electronic and thermoelectric properties of the intermetallic compounds MNiSn (M=Ti, Zr and Hf)	小口 多美夫	J. Phys. Soc. Jpn.	77	5	054706/1-8	(2008)	原著論文
First-principles study of lead-free piezoelectric SnTiO3	小口 多美夫 獅子堂 達也	Jpn. J. Appl. Phys.	47	9	7735-7739	(2008)	原著論文
Holes in the Valence Band of Superconducting Boron-Doped Diamond Film Studied by Soft X-ray Absorption and Emission Spectroscopy	小口 多美夫	J. Phys. Soc. Jpn.	77	5	054711/1-6	(2008)	原著論文
kp formalism for use with linearized augmented plane waves	小口 多美夫 獅子堂 達也	Physical Review B	78	24	245107/1-13	(2008)	原著論文
Pair density functional theory utilizing the noninteracting reference system: An effective initial theory	樋口 克彦	Physical Review B	78	12	125101	(2008)	原著論文
Scheme for calculating the orbital-dependent exchange-correlation potential using the virial theorem: Application to atomic systems	樋口 克彦	Physical Review A	78	1	12501	(2008)	原著論文
Specific heat and electronic states of superconducting boron-doped silicon carbide	小口 多美夫	Phys. Rev. B	78	2	024517/1-10	(2008)	原著論文
The electronic structure of boron-doped diamond with B-H complex and B pair	小口 多美夫	Sci. Technol. Adv. Mater.	9	4	044211/1-4	(2008)	原著論文
Theoretical analysis of X-ray absorption spectra of Ti compounds used as catalysts in lithium amide/imide reactions	小口 多美夫 獅子堂 達也	Phys. Rev. B	77	23	235114/1-7	(2008)	原著論文
Why are garnets not ferroelectric? - A theoretical investigation of Y3Fe5O12	小口 多美夫	Chem. Mater.	20	24	7545-7550	(2008)	原著論文
第一原理計算によるペロフスカイト型物質の設計	小口 多美夫	セラミックス	43	7	511	(2008)	総説論文
Competition of magnetic and quadrupolar order parameters in HoB4	D. Okuyama T. Matsumura T. Mouri N. Ishikawa K. Ohoyama H. Hiraka H. Nakao K. Iwasa Y. Murakami	J. Phys. Soc. Jpn.	77	4	44709-1-14	(2008)	原著論文
Pressure Effect on the Multipole Interactions in CexPr1-xB6	世良 正文	J. Phys. Soc. Jpn.	77		288-290	(2008)	原著論文
Pressure-induced phase transitions in PrB6: Electrical resistivity measurements	H. Iwakubo S. Ikeda Y. Kishino H. Tanida M. Sera F. Iga	Phys. Rev. B	78		012409(1-4)	(2008)	原著論文
Pressure-induced valence anomaly in TmTe probed by resonant inelastic x-ray scattering	I. Jarrige J.-P. Rueff S. R. Shieh M. Taguchi Y. Ohishi T. Matsumura C.-P. Wang H. Ishii N. Hiraoka Y. Q. Cai	Phys. Rev. Lett.	101	12	127401-1-4	(2008)	原著論文

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Raman scattering of RB6(R=Ca, Ce, Pr, Gd, Dy and Yb)	世良 正文 physica	N. Ogita= S. Nagai= N. Okamoto= M. Udagawa= F. Iga= M. Sera= J. Akimitsu and S. Kunii	B329-333		661-662	(2008)	原著論文
Structural phase transition in the spin gap system YbAl3C3	T. Matsumura T. Inami M. Kosaka Y. Kato T. Inukai A. Ochiai H. Nakao Y. Murakami S. Katano H. S. Suzuki	J. Phys. Soc. Jpn	77	10	103601-1-4	(2008)	原著論文
Suppression of Phase IV in CexLa1-xBy by R-ion Ba8Ga16Sn30 with type-I clathrate structure: Drastic suppression	世良 正文 M. A. Avila K. Suekuni 梅尾 和則 H. Fukuoka 山中 昭司 高島 敏郎	J. Phys. Soc. Jpn. Appl. Phys. Lett.	77 92		285-287 041901	(2008) (2008)	原著論文 原著論文
Effects of rattling on electrical and thermal conductivity in AOS4Sb12 (A=Sr, Ba, La, Ce) single crystals	S. Narazu Y. Hadano 高島 敏郎 H. Sugawara	J. Phys. Soc. Jpn. Suppl. A.	77		238-241	(2008)	原著論文
Energetics of endohedral atoms in type-I clathrates observed by soft x-ray spectroscopy	J. Tang T. Rachi R. Kumashiro M. A. Avila K. Suekuni 高島 敏郎 FZ. Guo K. Kobayashi K. Akai K. Tanigaki	Phys. Rev. B	78		85203	(2008)	原著論文
EXAFS study of n- and p-type Ba8Ga16Ge30	Y. Jiang F. Bridges M. A. Avila 高島 敏郎 J. Guzman G. Kurczveil	Phys. Rev. B	78		014411	(2008)	原著論文
Giant Uniaxial Anisotropy in the Magnetic and Transport Properties of CePd5Al2	T. Onimaru Y. F. Inoue K. Shigetoh K. Umeo H. Kubo R. A. Ribeiro A. Ishida M. A. Avila K. Ohoyama M. Sera T. Takabatake	Journal of Physical Society of Japan	77	7	074708-1-8	(2008)	原著論文
Guest ion motion in cage structure crystals investigated by Raman scattering	宇田川 眞行 T. Hasegawa T. Takasu 荻田 典男 K. Suekuni M. A. Avila 高島 敏郎 Y. Ishikawa N. Takeda Y. Nemoto T. Goto H. Sugawara D. Kikuchi H. Sato C. Sekine I. Shirovani J. Yamaura Y. Nagano Z. Hiroi	J. Phys. Soc. Jpn. Suppl. A.	77		142-147	(2008)	原著論文

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Heavy fermion behaviors of Tm ₂ Rh ₁₂ P ₇	K. Tatematsu N. Takeda Y. Araki K. Fukuda Y. Yamada T. Nishioka K. Kodama K. Shimizu T. Matsushita N. Wada S. Narazu 高島 敏郎	J. Phys. Soc. Jpn. Suppl. A.	77		353-355	(2008)	原著論文
Inelastic neutron scattering study of spin gap formation in heavy fermion compounds	高島 敏郎	Journal of Optoelectronics and Advanced Materials	10	7	1564-1582	(2008)	原著論文
Low-field Knight shift measurement at Sb site for alkaline-earth filled skutterudites AFe ₄ Sb ₁₂ (A = Sr and Ca)	A. Sakurai M. Matsumura H. Kato T. Nishioka E. Matsuoka K. Hayashi 高島 敏郎	J. Phys. Soc. Jpn.	77	6	063701	(2008)	原著論文
Magnetic order and multipole interactions in CexPr _{1-x} B ₆ solid solutions	J.-M. Mignot G. André J. Robert M. Sera F. Iga	Phys. Rev. B	78		014415(1-10)	(2008)	原著論文
Magneto-Optic Effect in Amorphous Bi ₃ Fe ₅ O ₁₂ Waveguides Sputtered at Room Temperature	T. Taura Y. Shishido Y. Tanushi T. Tokunaga T. Onimaru S. Yokoyama	Japanese Journal of Applied Physics	47	5	2915-2920	(2008)	原著論文
Multistep magnetization plateaus in the Shastry-Sutherland System TbB ₄	S. Yoshii T. Yamamoto M. Hagiwara S. Michimura A. Shigekawa F. Iga T. Takabatake K. Kindo	Phys. Rev. Lett.	101	6	087202(1-4)	(2008)	原著論文
Muon spin relaxation study of non-Fermi-liquid behavior near the ferromagnetic quantum critical point in CePd _{0.15} Rh _{0.85}	D. T. Adroja A. D. Hillier J.-G. Park W. Kockelmann K. A. McEwen B. D. Rainford Kwang-Hyun Jang C. Geibel 高島 敏郎	Phys. Rev. B	78		014412	(2008)	原著論文
Neutron Scattering Study of Kondo Lattice Antiferromagnet YbNiSi ₃	Y. Kobayashi T. Onimaru M. A. Avila K. Sasai M. Soda K. Hirota T. Takabatake	Journal of Physical Society of Japan	77	12	124701-1-5	(2008)	原著論文
Neutron Scattering Study on Spin Correlations and Fluctuations in the Transition-Based Magnetic Quasicrystal Zn-Fe-Sc	T. J. Sato S. Kishimoto C. Masuda T. Onimaru I. Nakanowatari K. Iida R. Morinaga T. Ishimasa	Physical Review B	77	1	014437-1-7	(2008)	原著論文
Off-center Rattling and Anisotropic Expansion of Type-I Clathrates Studied by Raman Scattering	Y. Takasu 長谷川 巧 萩田 典男 宇田川 眞行 M.A. Avila K. Suekuni 高島 敏郎	米国物理学会	100	16	165503/4PA GES	(2008)	原著論文

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Photon dynamics of type-I clathrate Sr8Ga16Ge30 studied by inelastic neutron scattering	C. H. Lee H. Yoshizawa M. A. Avila I. Hase K. Kihou 高島 敏郎	J. Phys. Soc. Jpn. Suppl. A.	77		260-262	(2008)	原著論文
Possible magnetic-field-induced Lifshitz transition in CeBiPt	J. Wosnitzer G. Goll M. Bartkowiak B. Bergk A. D. Bianchi H. v. Löhneysen 高島 敏郎	Physica B	403		1219-1221	(2008)	原著論文
Pressure-induced release of magnetic frustration in a quasi-kagome antiferromagnet YbAgGe	H. Kubo 梅尾 和則 K. Katoh A. Ochiai 高島 敏郎	J. Phys. Soc. Jpn.	77	2	023704	(2008)	原著論文
Raman scattering of type-I clathrate compounds	Y. Takasu 長谷川 巧 荻田 典男 宇田川 眞行 K. Suekuni M. A. Avila 高島 敏郎	日本物理学会	77		SUPPLE 254-256 MENT	(2008)	原著論文
Raman Scattering Study of Filled Skutterudite Compounds	荻田 典男 R. Kojima 長谷川 巧 Y. Takasu 宇田川 眞行 高島 敏郎	日本物理学会	77		SUPPLE 251-253 MENT	(2008)	原著論文
Raman Scattering Study of Guest Ion Motion in Cage Compounds	宇田川 眞行 長谷川 巧 Y. Takasu 荻田 典男 K. Suekuni M. A. Avila 高島 敏郎 Y. Ishikawa N. Takeda Y. Nemoto T. Goto H. Sugawara D. Kikuchi H. Sato C. Sekine I. Shirotni J. Yamaura Y. Nagao Z. Hiroi	Journal of Physical Society of Japan	77		SUPPLM 142-147 ENT	(2008)	原著論文
Soft x-ray photoelectron spectroscopy study of type-I clathrates	J. Tang Z. Li J. Ju R. Kumashiro M. A. Avila K. Suekuni FZ. Guo K. Kobayashi K. Akai K. Tanigaki 高島 敏郎	Sci. Technol. Adv. Mater	9		44107	(2008)	原著論文
Thermodynamic and transport properties of the non-centrosymmetric superconductor LaBiPt	G. Goll M. Marz A. Hamann T. Tomanic K. Grube T. Yoshino 高島 敏郎	Physica B	403		1065-1067	(2008)	原著論文
Thermoelectric and Magnetic Properties of a Narrow-Gap Semiconductor FeGa3	Y. Hadano S. Narazu M. A. Avila T. Onimaru T. Takabatake.	Journal of Physical Society of Japan	78	1	013702-1-4	(2008)	原著論文

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Universal relation between guest free space and lattice thermal conductivity reduction by anharmonic rattling in type-I clathrates	K. Suekuni S. Yamamoto M. A. Avila 高島 敏郎	J. Phys. Soc. Jpn. Suppl. A.	77		61-66	(2008)	原著論文
Universal scaling in the optical conductivity of heavy fermion compounds	H. Okamura T. Watanabe M. Matsunami T. Nishihara N. Tsujii T. Ebihara H. Sugawara H. Sato Y. Onuki Y. Isikawa M.S. Kim 高島 敏郎 T. Nanba	Physica B	403		761-763	(2008)	原著論文
Elastic modulus of LaFe4Sb12	Isao Ishii Takashi Suzuki et al	Physica B	403		887-889	(2008)	原著論文
Josephson Junction with Tunable Damping using Quasi-particle Injection	八木 隆多	Controrable Quantum States			59-64	(2008)	国際会議議事録
Specific heat of CeMg2(Cu1-xNix)9 with two-dimensional Ce atoms alignment	M. Ito Takashi Suzuki et.al	Physica B	403		815-817	(2008)	原著論文
Temperature dependence of elastic modulus of PrFe4Sb12 single crystal	Isao Ishii Takashi Suzuki et al	J. Phys. Soc. Jpn.	A77		303-305	(2008)	原著論文
Tunneling Measurements of Charge Imbalance of Non-Equilibrium Superconductors	八木 隆多	Controrable Quantum States			3月8日	(2008)	国際会議議事録
Experimental study of the atmospheric neutrino backgrounds for $p \rightarrow e + \pi^0$ searches in water Cherenkov detectors	高橋 徹 本間謙輔	Physical Review	D77		032003-1 032003-13	(2008)	原著論文
Measurement of single charged-current interactions of neutrinos in a 1.3 GeV wide band beam	高橋 徹 本間謙輔	Physical Review D	78	3	32003	(2008)	原著論文
レーザーと加速器による超高強度場の物理	高橋 徹 本間謙輔	日本加速器学会誌	5	3	192-196	(2008)	原著論文
Accumulating Low Energy Charged Particles with a Magnetic Mirror Trap and Cyclotron Resonance Heating	H. Higaki K. Ito K. Kira H. Okamoto	Appl. Phys. Express	1	6	066002-1 - 066002-3	(2008)	原著論文
Determination of transverse distributions of ion plasmas confined in a linear Paul trap by imaging diagnostics	K. Ito K. Nakayama S. Ohtsubo H. Higaki H. Okamoto	Jpn. J. Appl. Phys.	47	10	8017-8025	(2008)	原著論文
Electrons Confined with an Axially Symmetric Magnetic Mirror Field	檜垣 浩之	AIP Conf. Proc.	1037	1	106-114	(2008)	国際会議議事録
Heating rate of highly space-charge-dominated ion beams in a storage ring	Y. Yuri H. Okamoto	Proc. European Part. Accel. Conf.			3080 - 3082	(2008)	国際会議議事録
High-energy colliding crystals - a theoretical study	J. Wei H. Okamoto H. Sugimoto Y. Yuri A. M. Sessler	Proc. Int. Workshop on Beam Cooling and Related Topics			91 - 95	(2008)	国際会議議事録
Theoretical study of emittance transfer	H. Okamoto K. Kaneta A. M. Sessler	Proc. Int. Workshop on Beam Cooling and Related Topics			82 - 86	(2008)	国際会議議事録
Three-dimensional laser cooling of ion beams using a Wien filter	M. Ikegami H. Sugimoto H. Okamoto	J. Phys. Soc. Jpn.	77	7	074502 (8 pages)	(2008)	原著論文
Edge effect on electronic transport properties of graphene nanoribbons and presence of perfectly conducting channel	K. Wakabayashi Y. Takane M. Yamamoto M. Sigrist	Carbon	47	1	124-137	(2008)	原著論文
Asymptotic behavior of the conductance in disordered wires with perfectly conducting channels	高根 美武	J. Phys. Soc. Jpn.	77	1	014703 (1-10)	(2008)	原著論文
Conductance fluctuations in disordered wires with perfectly conducting channels	Y. Takane K. Wakabayashi	J. Phys. Soc. Jpn.	77	5	054702 (1-6)	(2008)	原著論文
Enhanced conductance fluctuation due to the zero-conductance Fano resonances in the quantum point contact on graphene	K. Wakabayashi M. Sigrist	J. Phys. Soc. Jpn.	77	11		(2008)	原著論文
Magnetic field effect on charge imbalance conversion in superconducting wires	Y. Takane Y. Nagato	J. Phys. Soc. Jpn.	77	9	113708 093713 (1-4)	(2008)	原著論文

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Mobile fluxon qubits in a long superconductor-ferromagnet-superconductor Josephson junction	西田 宗弘 藤井 敏之 畠中 憲之	J. Phys. : Conf. Ser.	97		012326	(2008)	国際会議議事録
Mobile qubits in quantum Josephson circuits	西田 宗弘 藤井 敏之 畠中 憲之	Physical Review B	77	2	024505	(2008)	原著論文
Peculiar Electronic Transport Properties of Disordered Nanographene Ribbons	K. Wakabayashi	J. Phys. Chem. Solid	69		1162-1164	(2008)	国際会議議事録
グラファイトシートの電子物性 - ナノグラフェン -	若林 克法 草部 浩一	日本物理学会会誌	63	5	344-352	(2008)	総説論文
Beating the standard quantum limit: phase super-sensitivity of N-photon interferometers	R. Okamoto H.F. Hofmann T. Nagata J.L. O'Brien K. Sasaki S. Takeuchi	New Journal of Physics	10	7	073033	(2008)	原著論文
Measurement and control of spatial qubits generated by passing photons through double slits	Gen Taguchi Tatsuo Dougakiuchi Nobuaki Yoshimoto Katsuya Kasai Masataka Inuma Holger F. Hofmann Yutaka Kadoya	Physical Review A	78	1,3	012307	(2008)	原著論文
Propagation of Terahertz Pulses on Coplanar Striplines on Low Permittivity Substrates and a Spectroscopy Application	Shinji Yanagi Masayuki Onuma Jiro Kitagawa Yutaka Kadoya	Applied Physics Express	1	1	012009	(2008)	原著論文
Quantum enhancement of N-photon phase sensitivity by interferometric addition of down-converted photon pairs to weak coherent light	Ono Takafumi HOFMANN FRIEDRICH	Journal of Physics B: Atomic, Molecular and Optical Physics	41	9	095502	(2008)	原著論文
THz Wave Propagation on Strip Lines: Devices, Properties, and Applications	Yutaka KADOYA Masayuki ONUMA Shinji YANAGI Tetsuya OHKUBO Naoko SATO Jiro KITAGAWA	Radioengineering	17	2	48-55	(2008)	国際会議議事録
Annealing effect on the chemical structure of diamondlike carbon	Susumu Takabayashi Keishi Okamoto Hiroyuki Sakaue Takayuki Takahagi Kenya Shimada	JOURNAL OF APPLIED PHYSICS	104		043512-1-043512-6	(2008)	原著論文
Chemical Structural Analysis of Diamondlike Carbon Analyzed by Core-level Photoelectron Spectroscopy	Susumu Takabayashi Keishi Okamoto Kenya Shimada Tatsuyuki Nakatani Hiroyuki Sakaue	5th International Symposium on Surface Science and Nanotechnology (ISSS-5)				(2008)	国際会議議事録
Chemical structural analysis of diamondlike carbon by X-ray photoelectron spectroscopy	鷹林 将 岡本 圭司 中谷 達行 坂上 弘之 高萩 隆行	炭素	235		280-289	(2008)	総説論文
Chemical Structural Analysis of Diamondlike Carbon Films with Different Electrical Resistivities by X-ray Photoelectron Spectroscopy	Susumu TAKABAYASHI Keishi OKAMOTO Kenya SHIMADA Kunihiko MOTOMITSU Hiroaki MOTOYAMA Tatsuyuki NAKATANI Hiroyuki SAKAUE Hitoshi SUZUKI Takayuki TAKAHAGI	JAPANESE JOURNAL OF APPLIED PHYSICS	47	5	3376-3379	(2008)	原著論文
Chemical Structural Analysis of Diamondlike Carbon using Soft X-ray Photoelectron Spectroscopy	Susumu Takabayashi Hiroyuki Sakaue Takayuki Takahagi Keishi Okamoto Tatsuyuki Nakatani	International Congress on Plasma Physics 2008 (ICPP2008)				(2008)	国際会議議事録

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Development of surface-functionalized drug-eluting stent with diamond-like carbon nanocoated by using PECVD method	高萩 隆行	SURFACE & COATINGS TECHNOLOGY	202	22-23	5750-5752	(2008)	原著論文
Nanosecond and femtosecond mass spectroscopic analysis of a molecular beam produced by the spray-jet technique	T. Yamada H. Shinohara T. Kamikado Y. Okuno 鈴木 仁 S. Mashiko	Thin Solid Films	516		2522-2526	(2008)	原著論文
New method to calibrate binding energy using Au nanocolloids in X-ray photoelectron analysis of diamondlike carbon films with different electrical resistivities	Susumu Takabayashi Keishi Okamoto Kunihiko Motomitsu Akira Terayama Tatsuyuki Nakatani Hiroyuki Sakaue Hitoshi Suzuki	APPLIED SURFACE SCIENCE	254		2666-2670	(2008)	原著論文
Photoelectron Spectroscopic Analysis of Chemical Structure of Diamondlike Carbon with Different Electrical Resistivities	Susumu Takabayashi Keishi Okamoto Kenya Shimada Kunihiko Motomitsu Hiroaki Motoyama Tatsuyuki Nakatani Hiroyuki Sakaue Hitoshi Suzuki	2008 International Conference on Carbon (CARBON2008)				(2008)	国際会議議事録
STM observation of zinc(II)bridled chiroporphyrin molecules on titanium dioxide surface	M. Inada S. Tanaka 鈴木 仁 S. Mashiko L. Scifo B. Grevin A. Castaings J.-C. Marchon	Thin Solid Films	516		2582-2585	(2008)	原著論文
X線光電子分光法を用いたダイヤモンドライクカーボンの化学構造解析	鷹林 将 岡本 圭司 中谷 達行 坂上 弘之 高萩 隆行	炭素			280-289	(2008)	総説論文
A New Concept of Hydrogen Storage Using Lithium Hydride and Ammonia	Yoshitsugu Kojima S. Hino K. Tange Takayuki Ichikawa	Mater. Res. Soc. Symp. Proc. 1042		S06	01	(2008)	国際会議議事録
Characterization of hydrogen absorption/desorption states on lithium-carbon-hydrogen system by neutron diffraction	Hiroki Miyaoka Keiji Itoh Toshiharu Fukunaga Takayuki Ichikawa Yoshitsugu Kojima	Journal of Applied Physics		104	53511	(2008)	原著論文
Dehydrogenation reaction of Li-Mg-N-H systems studied by in situ synchrotron powder X-ray diffraction and powder neutron diffraction	Y. Nakamura Satoshi Hino Takayuki Ichikawa Hironobu Fujii H.W.Brinks B.C.Hauback	Journal of Alloys and Compounds	457	1-2	362-367	(2008)	原著論文
Evaluation of Enthalpy Change due to Hydrogen Desorption for Lithium Amide/Imide System by Differential Scanning Calorimetry	Shigehito Isobe Takayuki Ichikawa Kazuhiko Tokoyoda Nobuko Hanada Haiyan Leng Hironobu Fujii Yoshitsugu Kojima	Thermochimica Acta	468	1-2	35-38	(2008)	原著論文
Hydrogen Desorption Processes in Li-Mg-N-H Systems	Shigehito Isobe Takayuki Ichikawa Haiyan Leng Hironobu Fujii Yoshitsugu Kojima	Journal of Physics and Chemistry of Solids		69	2234-2236	(2008)	原著論文
Hydrogen desorption properties of Li-BN-H system synthesized by mechanical milling	C. Wu Hiroki Miyaoka Takayuki Ichikawa Yoshitsugu Kojima	International Journal of Hydrogen Energy		33	3128	(2008)	原著論文
Hydrogenation properties of lithium intercalated graphite	Takayuki Ichikawa W. Ishida H. Miyaoka Yoshitsugu Kojima	Carbon		46	1628	(2008)	原著論文

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Investigation of reaction between LiNH ₂ and H ₂	Haiyan Leng Takayuki Ichikawa Satoshi Hino Hironobu Fujii	Journal of Alloys and Compounds		463	462-465	(2008)	原著論文
SEM and TEM Characterization of Magnesium Hydride Catalyzed with Ni Nano-Particle of Nb ₂ O ₅	Nobuko Hanada Enoki Hirotsushi Takayuki Ichikawa Etsuo Akiba Hironobu Fujii	Journal of Alloys and Compounds	450	1-2	395-399	(2008)	原著論文
Simultaneous structure and carrier tuning of dimorphic clathrate Ba ₈ Ga ₁₆ Sn ₃₀	K. Suekuni M. A. Avila 梅尾 和則 H. Fukuoka 山中 昭司 T. Nakagawa 高島 敏郎	Phys. Rev. B	77		235119	(2008)	原著論文
The structural properties of amides and imides as hydrogen storage materials アンモニアを利用した水素貯蔵・輸送	Takayuki Ichikawa S. Isobe 小島 由継 坪田 雅巳 市川 貴之	Z. Kristallogr 水素エネルギーシステ ム		223	660-665	(2008)	総説論文
マグネシウムの水素吸蔵・放出技術と応用性	市川 貴之 小島 由継	工業材料	7月号	Vol.56	No.7	(2008)	雑誌等論説
リチウムをインターカレートしたグラファイトの水素化特 性	Wataru Ishida Hiroki Miyaoka 市川 貴之 小島 由継	炭素		233	136-139	(2008)	原著論文
燃料電池自動車用水素貯蔵技術の現状と将来展望	小島 由継	水素エネルギーシステ ム	Vol.33	No.4	49-58	(2008)	雑誌等論説

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

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Genomic characterization of <i>Ralstonia solanacearum</i> phage phiRSA1 and its related prophage (phiRSX) in strain GMI1000	山田 隆 藤江 誠 宇佐美 昭二 藤原 亜希子 川崎 健	J. Bacteriology	190	1	143-156	(2008)	原著論文
Codon optimization increases steady-state mRNA levels in heterologous gene expression in <i>Aspergillus</i> <i>oryzae</i> .	M. Tokuoaka M. Tanaka K. Ono S. Takagi T. Shintani K. Gomi	Appl. Envir. Microbiol.	74		6538-46	(2008)	原著論文
Development of a two-step chromatography procedure that allows the purification of a high-purity anti-histone H1 monoclonal immunoglobulin M antibody with immunosuppressant activity.	Y. Shimada T. Goto S. Kawamoto T. Kiso A. Katayama Y. Yamanaka T. Aki K. C. Chiang T. Nakano S. Goto C.L. Chen N. Ohmori K. Ono S. Sato	Biomedical Chromatography	22	1	13-19	(2008)	原著論文
Development of autoantibody responses in NC/Nga mice: its prevention by pulverized konjac glucomannan feeding.	N. Onishi S. Kawamoto H. Suzuki M. Hide K. Ono	Arch. Dermat. Res.	300	2	95-99	(2008)	原著論文
アレルギーワクチンの開発に向けて	河本 正次 秋 庸裕 小笠 和久	Bio Industry	25	9	69-77	(2008)	総説論文
Ammonia-methane two-stage anaerobic digestion of dehydrated waste-activated sludge. Applied Microbiology and Biotechnology	Y. Nakashimada Y. Ohshima H. Minami H. Yabu Y. Namba N. Nishio	Applied Microbiology and Biotechnology	79	6	1061-1069	(2008)	原著論文

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Degradation of glyoxylate and glycolate with ATP synthesis by a thermophilic anaerobic bacterium, <i>Moorella</i> sp. strain HUC22-1.	S. Sakai K. Inokuma Y. Nakashimada N. Nishio	Applied and Environmental Microbiology	74	5	1447-1452	(2008)	原著論文
Degradation of Perfluorooctansulfonate (PFOS) and Perfluorooctanoic Acid (PFOA) by Mechanochemical Treatment	新谷 昌之 内藤 勇太 山田 信吾 野村 祐吾 周 勝 中島田 豊 細見 正明	化学工学論文集	34	5	539-544	(2008)	原著論文
嫌気微生物による有用物質生産と環境浄化・エネルギー回収への応用	西尾 尚道	生物工学会誌	86	1	2-11	(2008)	総説
固体有機廃棄物のメタン発酵効率化と処理後残渣の活用技術	中島田 豊 周 勝 西川 恵美 細見 正明 西尾 尚道	実用産業情報	46	-	28-31	(2008)	総説論文
脱水余剰汚泥の乾式メタン発酵による減量化及びエネルギー回収	西尾 尚道 中島田 豊 加藤 純一	再生と利用	32	2	47-51	(2008)	総説論文
A comparison of various methods to predict bacterial predilection for organic solvents used as reaction	辻 敏夫 Zu Soh Michiyo Suzuki 滝口 昇 大竹 久夫	Journal of Bioscience and Bioengineering	106	4	357-362	(2008)	原著論文
A Neural Network Model of the Olfactory System of Mice: Computer Simulation of the Attention Behavior of mice for some components in an odor	Z. Soh T. Tsuji M. Suzuki N. Takiguchi H. Ohtake	Artificial Life and Robotics	12	1-2	75-80	(2008)	原著論文
A neural network model of the olfactory system of mice: Computer simulation of the attention behavior of mice for some components in an odor	Z. Soh T. Tsuji N. Takiguchi H. Ohtake	Artificial Life and Robotics	13	1	280-285	(2008)	原著論文
A neural network model of the olfactory system of mice: Simulated the tendency of attention behavior	Z. Soh T. Tsuji N. Takiguchi H. Ohtake	Artificial Life and Robotics	13	1	280-285	(2008)	原著論文
Isolation and characterization of <i>Deinococcus geothermalis</i> T27, a slightly thermophilic organic solvent-tolerant bacterium able to survive in the presence of high concentrations of ethyl acetate	辻 敏夫 Akira Hirano Zu Soh 滝口 昇 大竹 久夫	FEMS Microbiology Letters	286	2	227-235	(2008)	原著論文
Parameter Estimation of Paramecium Model using Real-coded Genetic Algorithm	辻 敏夫 Akira Hirano Zu Soh 滝口 昇 大竹 久夫	The 13th International Symposium on Artificial Life and Robotics			35-40	(2008)	国際会議議事録
Performance of mice in discrimination of liquor odors: Behavioral evidence for olfactory attention	N. Takiguchi K. Okuhara A. Kuroda J. Kato H. Ohtake	Chemical Senses	33	3	283-290	(2008)	原著論文
<i>Pseudomonas aeruginosa</i> as a model microorganism for investigation of chemotactic behaviors in ecosystem	J. Kato H.-E. Kim N. Takiguchi A. Kuroda H. Ohtake	Journal of Bioscience and Bioengineering	106	1	1-7	(2008)	総説論文
Stabilization of water-in-oil emulsion by <i>Rhodococcus opacus</i> B-4 and its application to biotransformation	加藤 純一	Applied microbiology and Biotechnology	78	5	767-773	(2008)	原著論文
線状プラスミド上の抗生物質合成クラスターの解析とその応用	荒川 賢治 木梨 陽康	バイオサイエンスとインダストリー	66		504-508	(2008)	総説論文
Continuous-flow ATP amplification system for increasing the sensitivity of quantitative bioluminescence assay	T. Satoh Y. Shinoda M. Alexandrov A. Kuroda Y. Murakami	Analytical Biochemistry	379		116-120	(2008)	原著論文
Detection of chrysotile asbestos by using a chrysotile-binding protein	黒田 章夫 廣田 隆一	Biotech. Bioeng.	99		285-289	(2008)	原著論文
Enhanced dibenzothiophene biodesulfurization in a microchannel reactor	K. Noda T. Kogure S. Irisa Y. Murakami M. Sakata A. Kuroda	Biotechnol. Letters	30		451-454	(2008)	原著論文
Identification and characterization of nucleoplasm 3 as a histone-binding protein in embryonic stem cells	廣田 隆一	Development, Growth & Differentiation	50	5	307-320	(2008)	原著論文

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Single bacterial cell detection using a mutant luciferase	Kenichi Noda Tadahiro Matsuno Hiroya Fujii Tomonari Kogure Masaaki Urata Yasuo Asami Akio Kuroda	Biotechnology Letters	30		1051-1054	(2008)	原著論文
Swallowable Biosensor: Development of Digestive Organs Sensors for Continuous Diagnosis	Tomohide Noda Yuji Murakami Tomohiro Ishikawa Nobuo Sasaki Zhang Yi Tsuyoshi Takeuchi Takunari Kunimasa Kazuaki Shibata Tetsushi Koide Koh Johguchi Akio Kuroda	214th The Electrochemical Society Meeting				(2008)	原著論文
Antibiotic production, linear plasmids and linear chromosomes in <i>Streptomyces</i> .	Kinashi, H.	Actinomycetologica	22		20-29	(2008)	総説論文
Gene disruption analysis of two glycosylation steps in lankamycin biosynthesis in <i>Streptomyces rochei</i> .	Arakawa, K Suzuki, T Kinashi, H	Actinomycetologica	22	2	35-41	(2008)	原著論文
γ -Butyrolactone-dependent expression of the SARP gene <i>srrY</i> plays a central role in the regulatory cascade leading to lankacidin and lankamycin production in <i>Streptomyces rochei</i> .	Yamamoto, S. He, Y. Arakawa, K. Kinashi, H.	J. Bacteriol.	190	4	1308-1316	(2008)	原著論文
Identification of Tub1 α -Tubulin as a potential target for NKH-7, a cytotoxic 1-naphthol derivative compound, in <i>Saccharomyces cerevisiae</i>	Ruthada Chanklan Masaki Mizunuma Ngamong Kongkathip Komkrit Hasitapan Boonsong Kongkathip Tokichi Miyakawa	Biosci. Biotechnol. Biochem.	72	4	1023-1031	(2008)	原著論文
Identification of <i>Tup1</i> and <i>Cyc8</i> mutations defective in the responses to osmotic stress	Y. Kobayashi T. Inai M. Mizunuma I. Okada A. Shitamukai D. Hirata T. Miyakawa	Biochemical and Biophysical Research Communications	368	1	50-55	(2008)	原著論文
A bisaborane sesquiterpenoid endoperoxidase, 3,6-epidioxy-1,10-bisaboladiene isolated from <i>Cacalia delphiniifolia</i> possesses anti-tumore activity with the induction of apoptosis	土屋 英子	Biosci. Biotechnol. Biochem.	72		2463-2466	(2008)	原著論文
A continuous-flow ATP amplification system for increasing the sensitivity of quantitative bioluminescence assay	黒田 章夫	Anal. Biochem,	379		116-120	(2008)	原著論文
「飲むバイオセンサー」開発に向けて	村上 裕二	生物工学会誌	86		572-573	(2008)	原著論文
An artificial denture for swallowing inspection	Tomohiro Ishikawa Takunari Kunimasa Nobuo Sasaki Yuji Murakami Takeshi Yoshida Kazuhiro Tsuga	第25回「センサ・マイクロマシンと応用システム」シンポジウム				(2008)	原著論文
Analysis of GDP-D-Mannose Pyrophosphorylase Gene Promoter from <i>Acerola</i> (<i>Malpighia glabra</i>) and Increase in Ascorbate Content of Transgenic Tobacco Expressing the <i>Acerola</i> Gene.	Badejo A. A. Tanaka N. Esaka M.	Plant and Cell Physiology	49		126-132	2008	原著論文
Spindle checkpoint activation at meiosis I advances anaphase II onset via meiosis-specific APC/C regulation	A. Yamamoto K. Kitamura S. Hihara Y. Hirose S. Katsuyama Y. Hiraoka	J. Cell Biol.	182	2	277-288	(2008)	原著論文
Analysis of Endocrine Disrupting Chemicals and Microbes in Alcoholic Beverages and Sake Cake	K. Goto	Report of the Research Institute of	180		43-56	(2008)	原著論文

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Effect of a Concentrate of Sake and Ethyl α -D-glucoside on Chronic Alcohol-induced Liver Injury in Mice	H. Izu K. Hizume K. Goto M. Hirotsune	J. Brew. Soc. Japan	103	8	646-652	(2008)	原著論文
Inhibition of Ca ²⁺ -signal-dependent growth regulation by radicicol in budding yeast	Ruthada Chanklan Eiji. Aihara Saori. Koga Hidetoshi. Takahashi Masaki Mizunuma	Biosci. Biotechnol. Biochem.	72	1	132-138	(2008)	原著論文
Involvement of autoimmunity against nuclear histone H1 in liver transplantation tolerance.	T. Nakano S. Goto C.Y. Lai L.W. Hsu J.L. Wong S. Kawamoto K.C. Chiang N. Ohmori T. Goto S. Sato C.H. Yang C.C. Wang B. Jawan Y.F. Cheng K. Ono C.L. Chen	Transplant. Immunol.	19	2	87-92	(2008)	原著論文
Two kinds of behavioral evaluation of intoxication by oral administration of ethanol in mice	H. Izu K. Goto S. Sakata	J. Animal Psychology	58	1	1-13	(2008)	原著論文

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

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A 12-mW 500-Mb/s 0.18- μ m CMOS Pulsed UWB Transceiver Suitable for Sub-meter Short-range Wireless Communication	Mamoru Sasaki	広大			593-596	(2008)	国際会議議事録
A 2.0 Vpp input, 0.5 V supply Delta Amplifier with A-to-D conversion	岩田 穆 吉田 毅	Proceedings of 2008 IEEE Asian Solid-State Circuit Conference			pp.265-268	(2008)	国際会議議事録
A Consistently Potential Distribution Oriented Compact IGBT Model	M. Miyake A. Ohashi M. Yokomichi H. Masuoka T. Kajiwara N. Sadachika U. Feldmann H.J. Mattausch M. Miura- Mattausch T. Kojima, T. Shoji Y. Nishibe	Proceedings 39th Annual IEEE Power Electronics Specialists Conference			998-1003	(2008)	国際会議議事録
A Wireless Chip for Intra-Oral Temperature Measurement	T. Ishikawa Y. Masui K. Johguchi T. Yoshida Y. Murakami	Proc. of The 15th Workshop on Synthesis And System Integration of Mixed Information			477-481	(2008)	国際会議議事録
AFM/KFM Detection of Si-tagged ProteinA on HF-last Si(100), Thermally Grown SiO ₂ and Si-QDs Surfaces	K. Makihara M. Ikeda S. Higashi Y. Hata A. Kuroda S. Miyazaki	4th International Workshop in New Group IV Semiconductor Nanoelectronics (SiGe(C)2008)			39-40	(2008)	国際会議議事録
Application of Thermal Plasma Jet Annealing to Channel Crystallization and Doping for Thin Film Transistor Fabrication	H. Kaku S. Higashi T. Yorimoto T. Okada H. Furukawa S. Miyazaki	2008 The Fifteenth International Workshop on Active-Matrix Flatpanel Displays and Devices (AM-FPD' 08)			33-36	(2008)	国際会議議事録
Bias temperature instability in metal-oxide-semiconductor field-effect transistors with atomic-layer-deposited Si-nitride/SiO ₂ stack gate dielectrics	S. Zhu A. Nakajima	J.Appl.Phys.	103	8	84512- 84518	(2008)	原著論文

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Capacitance measurements on quantum dots coupled to a two-dimensional electron system	S. Nomura Y. Sakurai Y. Takada M. Muraguchi T. Endoh M. Ikeda K. Makihara S. Miyazaki K. Shiraishi	13th Advanced Heterostructures and Nanostructures Workshop			8	(2008)	国際会議議事録
Characteristics tunneling of Si quantum dot floating gate at low temperature and in magnetic fields	Y. Sakurai S. Nomura K. Shiraishi M. Ikeda K. Makihara S. Miyazaki	25th International Conference on Low Temperature Physics			PD-Tu266	(2008)	国際会議議事録
Characterization of Chemical Bonding Features and Electronic States of Ni-Silicide Nanodots Formed by a Remote H ₂ -Plasma Assisted Technique	K. Makihara A. Ohta R. Matsumoto M. Ikeda K. Shimano S. Higashi S. Miyazaki	The 4th Vacuum and Surface Sciences Conference of Asia and Australia (VASSCAA-4)			45	(2008)	国際会議議事録
Characterization of Chemical Bonding Features in HfGdxOy film formed by MOCVD using DPM precursors	D. Kanme A. Ohta R. Yougauchi H. Murakami S. Higashi S. Miyazaki,	2008 International Workshop on Dielectric Thin Films for Future ULSI Devices (IWDTF)			25-26	(2008)	国際会議議事録
Characterization of Ge Photodetectors Fabricated on Vicinal Si Substrate	K. Kuriyama K. Terao S. Yokoyama	Abst. Int. Conf. on Solid State Devices and Jpn. J. Appl. Phys.	47	4	284-285	(2008)	国際会議議事録
Characterization of Multistep Electron Charging and Discharging of a Silicon Quantum Dots Floating Gate by Applying Pulsed Gate Biases	R. Matsumoto M. Ikeda S. Higashi S. Miyazaki				3103-3106	(2008)	原著論文
Characterization of Thermal Stability of HfO ₂ /SiON/Ge(100) Stacked Structure by using Photoemission Spectroscopy	A. Ohta H. Nakagawa H. Murakami S. Higashi S. Miyazaki	4th International SiGe Technology and Device Meeting (ISTDM2008)			88-89	(2008)	国際会議議事録
Charge Injection and Emission Characteristics of Hybrid Floating Gate Stack Consisting of NiSi-Nanodots and Silicon-Quantum-Dots	M. Ikeda R. Matsumoto K. Shimano K. Makihara S. Miyazaki	2008 International Conference on Solid State Devices and Materials (SSDM)			182-183	(2008)	国際会議議事録
Compact Double-Gate Metal-Oxide-Semiconductor Field Effect Transistor Model for Device/Circuit Optimization	N. Sadachika T. Murakami H. Oka R. Tanabe H. J. Mattausch M. Miura-Mattausch	IEICE Trans. Electron	E91-C	8	1379-1381	(2008)	原著論文
Conduction path fluctuation in Si two-dimensional tunnel junction array	K. Matsushita A. Nakajima	the 2008 International Microprocesses and Nanotechnology Conference			122-123	(2008)	原著論文
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Construction of a Compact Modeling Platform and its Application to the Development of Multi-Gate MOSFET Models for Circuit Simulation	M. Miura- Mattausch H.J. Mattausch M. Chan J. He H. Koike T. Nakagawa Y. J. Park T. Tutsumi	Proceedings of the 5th International Workshop on Compact Modeling			1-4	(2008)	国際会議議事録
Construction of a Compact Modeling Platform and Its Application to the Development of Multi-Gate MOSFET Models for Circuit Simulation	M. Miura- Mattausch M. Chan J. He H. Koike H.J. Mattausch T. Nakagawa Y.J. Park T. Tsutsumi	Proceedings of the 2008 NIST Nanotechnology Conference and Trade Show			764-769	(2008)	国際会議議事録
Control of Electronic Charged States of Si-Based Quantum Dots for Floating Gate Application	S. Miyazaki K. Makihara M. Ikeda	Thin Solid Films	517	1	41-44	(2008)	原著論文
Crystallization of amorphous Ge films induced by semiconductor diode laser annealing	K. Sakaïke S. Higashi H. Murakami S. Miyazaki	THIN SOLID FILMS	516	11	3595-3600	(2008)	原著論文
Dependence of charge storage and programming characteristics on dot number of floating dot memory	A. Nakajima T. Fujiaki Y. Fukuda	Appl.Phys Lett.	92	22	223503-223505	(2008)	原著論文
Development of Biosensor using Si Nanowire Transistor	T. Kudo T. Kasama S. Yokoyama T. Kikkawa H. Sunami T. Ishikawa T. Ikeda Y. Hata M. Suzuki S. Tokonami K. Okuyama T. Tabei K. Ohkura Y. Kayaba Y. Tanushi Y. Amemiya Y. Cho T. Monzen Y. Murakami A. Kuroda A. Nakajima	the 2008 International Microprocesses and Nanotechnology Conference			122-123	(2008)	原著論文
Development of Common Platform with Modularized Models Enabling Selective Combinations of Different Models	H. Kikuchihiro T. Nakagawa H. Koike M. Miura-	IEEE Workshop on Compact Modeling			67-71	(2008)	国際会議議事録
Development of Multi-Gate MOSFET Models for Circuit Simulation with a Compact Modeling Platform	H.J. Mattausch M. Chan J. He H. Koike M. Miura- Mattausch T. Nakagawa Y.J. Park T. Tsutsumi	Proceedings of the 15th International Conference on Mixed Design of Integrated Circuits and Systems			59-64	(2008)	国際会議議事録
Disposable Bacterial Counting Cassette Integrated with Pretreatment and Micro Flow-Cell Based on Flow Cytometry Technique	Keiji Takenaka Yasuhiko Sasasaki Hisao Inami Hisao Nakamoto Yusuke Watanabe Masao Kurihara Kazuo Takei Shigenori Togashi Ryo Miyake	Proceedings of International Symposium on Microchemistry and Microsystems 2008, Kyoto, Japan				(2008)	国際会議議事録
Early Breast Cancer Detection by Ultrawide Band Imaging with Dispersion Consideration	X. Xiao T. Kikkawa	Japanese Journal of Applied Physics	47	No. 3209		(2008)	原著論文

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Electric Field Drive Silicon Optical Modulator by Carrier Concentration	Y. Amemiya Y. Tanushi T. Tokunaga S. Yokoyama	Proc. International Conference on Photonics in Switching 2008			D_01_4	(2008)	国際会議議事録
Electrical Detection of Si-tagged Proteins on HF-last Si(100) and Thermally Grown SiO ₂ Surfaces	S. Mahboob K. Makihara H. Kaku M. Ikeda S. Higashi S. Miyazaki A. Kuroda	2008 Asia-Pacific Workshop on Fundamentals and Applications of Advanced Semiconductor Devices (AWAD2008)			155-158	(2008)	国際会議議事録
Electrical Properties of Highly Crystallized Ge:H Thin Films Grown from VHF Inductively-Coupled Plasma of H ₂ -diluted GeH ₄	H. Kaku K. Makihara M. Ikeda S. Higashi S. Miyazaki	2008 Asia-Pacific Workshop on Fundamentals and Applications of Advanced Semiconductor Devices (AWAD2008)			271-274	(2008)	国際会議議事録
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Electro-optic polymer waveguide modulators with refractive index tapers leading to low coupling loss and a high confinement factor	C.T.DeRose D. Mathine Y. Enami R.A.Norwood J. Luo A.K-Y.Jen N. Peyghambarian	Conference on Lasers and Electro-Optics 2008, Baltimore, MD, USA			CTuR7	(2008)	国際会議議事録
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Formation of Metal Silicide Nanodots on Ultrathin SiO ₂ for Floating Gate Application	S. Miyazaki M. Ikeda K. Makihara K. Shimano	The European Materials Research Society (E-MRS) 2008 Fall Meeting			66-67	(2008)	国際会議議事録

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Formation of Ni- and Pt-Nanodots Induced by Remote Hydrogen Plasma Treatment and Their Application to Floating Gate MOS Memories	M. Ikeda K. Shimanoe R. Matsumoto K. Makihara S. Miyazaki	The 2008 International Meeting for Future of Electron Devices, Kansai (IMFEDK)			43-44	(2008)	国際会議議事録
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特許 (Registered Patents)

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