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(Published Papers)

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A.	(Dept. of Quantum Matter)						
(Titles)	(Authors)	(Magazines)	(Vol.)	(No.)	(Pages)	(Year)	(Classif.)
Phase Transition without Spontaneous Symmetry Breaking between Hard and Soft Solid States	H. Shimahara	J. Phys. Soc. Jpn.	74	3	823-826	(2005)	
Interlayer spin-singlet pairing induced by magnetic interactions in an antiferromagnetic superconductor	H. Shimahara	Phys. Rev. B	72		134518(1-7)	(2005)	
Determination of the orbital moment and crystal field splitting in LaTiO <sub>3</sub>	M W Haverkort Z. Hu A. Tanaka G. Ghiringhelli H. Roth M Cwik T. Lorenz C. Schuessler-Langeheine S. Streltsov A. S. Mylrikova V. I. Anisimov C. de Nadai N. B. Brookes H. H. Hsieh H.-J. Lin C. T. Chen T. Mzokawa Y. Taguchi Y. Tokura D. I. Khomskii L. H. Tjeng	Phys. Rev. Lett.	94		056401(1-4)	(2005)	
Orbital Symmetry and Electron Correlation in Na <sub>x</sub> CoO <sub>2</sub>	W. B. Wu D. J. Huang J. Okamoto A. Tanaka H.-J. Lin F. C. Chou A. Fujimori C. T. Chen	Phys. Rev. Lett.	94		146402(1-4)	(2005)	
Controlling Orbital Moment and Spin Orientation in CoO Layers by Strain	S. I. Csiszar M W Haverkort Z. Hu A. Tanaka H. H. Hsieh H.-J. Lin C. T. Chen T. Hibma L. H. Tjeng	Phys. Rev. Lett.	95		187205(1-4)	(2005)	
Spectroscopy of Stripe Order in La <sub>1.8</sub> Sr <sub>0.2</sub> NiO <sub>4</sub> Using Resonant Soft X- Ray Diffraction	C. Schuessler-Langeheine J. Schlappa A. Tanaka Z. Hu C. F. Chang E. Schierle M Benomar H. Ott E. Weschke G. Kaindl O. Friedt G. A. Sawatzky H.-J. Lin C. T. Chen M Braden L. H. Tjeng	Phys. Rev. Lett.	95		156402(1-4)	(2005)	

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Antiferromagnetic- to-ferromagnetic transition induced by diluted Co in SrFe <sub>1-x</sub> CoxO <sub>3</sub> . Magnetic circular x-ray dichroism study	J. Okamoto K. Mamiya S.-I. Fujimori T. Okane Y. Saitoh Y. Muramatsu K. Yoshii A. Fujimori A. Tanaka M Abbate T. Koide S. Ishiwata S. Kawasaki M Takano	Phys. Rev. B	71		104401(1- 5)	(2005)	
High-energy spectroscopic study of the III-V nitride-based diluted magnetic semiconductor Ga <sub>1-x</sub> M <sub>x</sub> N	J. I. Hwang Y. Ishida M Kobayashi H. Hirata K. Takubo T. Mizokawa A. Fujimori J. Okamoto K. Mamiya Y. Saito Y. Muramatsu H. Ott A. Tanaka T. Kondo H. Munekata	Phys. Rev. B	72		085216 1- 6	(2005)	
Characterization of magnetic components in the diluted magnetic semiconductor Zn <sub>1-x</sub> CoxO by x-ray magnetic circular dichroism	M Kobayashi Y. Ishida J. I. Hwang T. Mizokawa A. Fujimori K. Mamiya J. Okamoto Y. Takeda T. Okane Y. Saitoh Y. Muramatsu A. Tanaka H. Saeki H. Tabata T. Kawai	Phys. Rev. B	72		201201(R) 1- 4	(2005)	
Orbital-Assisted Metal-Insulator Transition in VO <sub>2</sub>	MW Haverkort Z. Hu A. Tanaka W Reichelt S.V. Streltsov M A. Korotin V. I. Anisimov H. H. Hsieh H.-J. Lin C. T. Chen D. I. Khomskii L. H. Tjeng	Phys. Rev. Lett.	95		196404 1- 4	(2005)	
First-principles Predictions of Giant Electric Polarization	Y. Uratani T. Shishidou F. Ishii T. Oguchi	Jpn. J. Appl. Phys.	44		7130-7133	(2005)	
First-principles study on exchange force image of NiO(001) surface using a ferromagnetic Fe probe	H. Morida T. Oguchi	Surf. Sci.	590		42- 50	(2005)	
Electronic band structure and Fermi surface of Ag <sub>5</sub> Pb <sub>20</sub> 6	T. Oguchi	Phys. Rev. B	72		245105(1- 5)	(2005)	

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Origin of the metallic properties of heavily boron-doped superconducting diamond	T. Yokoya T. Nakamura T. Matsushita T. Muro Y. Takano M Nagao T. Takenouchi H. Kawarada T. Oguchi	Nature	438		647- 650	(2005)	
Rapid Suppression of the Commensurate Magnetic Ordered Phase of PrB6 by La Doping	M Sera S. Goto T. Koshikawa M-S. Kim H. Tou F. Iga Y. Mtsukawa K. Kojima	Journal of the Physical Society of Japan	74		2691- 2694	(2005)	
Sb NQR Study of Ferromagnetic Instability in Alkaline-Earth-Filled Skutterudites SrFe4Sb12 and BaFe4Sb12	M Matsumura G. Hyoudou H. Kato T. Nishioka E. Matsuoka H. Tou T. Takabatake M Sera	Journal of the Physical Society of Japan	74		2205- 2208	(2005)	
Upper critical field in the electron-doped layered superconductor ZrNClO7: Magnetoresistance studies	H. Tou Y. J. Tanaka M Sera Y. Taguchi T. Sasaki Y. Iwasa L. Zhu S. Yamanaka	Physical ReviewB	72		020501(R) (1- 4)	(2005)	
Quasiparticle spin susceptibility in heavy-fermion superconductors: An NMR study compared with specific heat results		Journal of the Physical Society of Japan	74		1245- 1254	(2005)	
Possible Coexistence of Quadrupolar and Magnetic Ordering in Ce0.7Pr0.3B6	S. Kishimoto A. Kondo M-S. Kim H. Tou M Sera F. Iga	Journal of the Physical Society of Japan	74		2913- 2916	(2005)	
Sb-NQR probe for multipole degree of freedom in the first Pr-based heavy-fermion superconductor PrOs4Sb12	H. Tou M Doi M Sera M Yogi H. Sugawara H. Sato	Journal of the Physical Society of Japan	74		2695- 2698	(2005)	
Effects of magnetic field and pressure on the weak ferromagnetism of YbRhSb	Y. Muro Y. Haizaki K. Umeo H. Tou M Sera T. Sakakibara T. Takabatake	Physica B: Condensed Matter	359- 361		124- 126	(2005)	
121Sb-NMR studies of single-crystal PrOs4Sb12	H. Tou M Doi M Sera M Yogi Y. Kitaoka H. Kotegawa G.-q. Zheng H. Harima H. Sugawara H. Sato	Physica B: Condensed Matter	359- 361		892- 894	(2005)	

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Effects of La substitution on the energy gaps and superstructures of CeRhAs	T. Sasakawa et al	J. Phys. Soc. Jpn.	74		3329-3333	(2005)	
Magnetic and transport properties of layered Yb <sub>2</sub> TGe <sub>6</sub> (T = Ni,Cu,Pd,Pt)	K. Shigetoh et al	J. Alloys Comp.	403		15-18	(2005)	
Break-junction tunneling spectra of MgB <sub>2</sub> Influence of boron quality	R.A. Ribeiro T. Ekino T. Takasaki T. Takabatake J. Akimitsu	Physica C		426-431	450-453	(2005)	
Direct observation of Fe spin reorientation in single-crystalline YbFe <sub>6</sub> Ge <sub>6</sub>	M A. Avila et al	J. Phys.: Cond. Matter	17		6969-6979	(2005)	
Collapse of the pseudogap in Kondo semimetal CeNiSn observed by magnetization and magnetoresistance measurements in high magnetic fields up to 65 T	S. Yoshii et al	J. Phys. Soc. Jpn.	74		2612-2616	(2005)	
Magnetic- field induced band-structure change in CeBiPt	N. Kozlova et al	Phys. Rev. Lett.	95		086403(1-4)	(2005)	
Probing glasslike excitations in single-crystalline Sr <sub>2</sub> Ga <sub>16</sub> Ge <sub>30</sub> by specific heat and thermal conductivity	K. Umeo et al	J. Phys. Soc. Jpn.	74		2145-2148	(2005)	
Inelastic neutron scattering studies of doped CeNiSn and CeRhSb: Crystal- filed excitations and origin of the pseudogap	J. Y. So et al	Phys. Rev. B	71		21441 (1-7)	(2005)	
Crystal field excitations in the low-dimensional quasi-triangular lattice compound Ce <sub>2</sub> Ge <sub>2</sub> In	D. T. Adroja et al	Physica B		359-361	314-316	(2005)	
Low-temperature thermal expansion of CeBiPt	G. Goll et al	Physica B		359-361	193-195	(2005)	
Pressure effect on successive magnetic transition in a frustrated compound YbAgGe	K. Umeo et al	Physica B		359-361	130-132	(2005)	
Non-Fermi-liquid behavior in CeRhBi and valence-fluctuating behavior in CeIrSb	T. Sasakawa et al	Physica B		359-361	111-114	(2005)	
Nearly ferromagnetic metals AFe <sub>4</sub> Sb <sub>12</sub> (A=Ca, Sr, and Ba)	E. Matsuoka et al	J. Phys. Soc. Jpn.	74	5	1382-1385	(2005)	
Photoemission study of the temperature-dependent energy-gap formation in the Kondo semiconductor CeRhAs	K. Shimada et al	J. Electron Spectr. Related Phenom.		144-147	857-859	(2005)	
High-pressure synthesis and transport properties of a new binary germanide, SrGe <sub>6-x</sub> (x=0.5), with a cagelike structure	H. Fukukawa et al	Inorganic Chemistry	44	5	1460-1465	(2005)	
Pressure driven collapse of the magnetism in the Kondo insulator UNiSn	A. Barla et al	Phys. Rev. B	71		020402(R)	(1-4)	
High-resolution soft X-ray photoemission study of a Kondo semiconductor and related compounds	A. Sekiyama et al	J. Electron Spectr. Related Phenom.		144-147	655-657	(2005)	
High-resolution soft X-ray photoemission of Kondo insulator YbB <sub>12</sub>	A. Sekiyama et al	J. Electron Spectr. Related Phenom.		144-147	671-673	(2005)	
Pressure effects on the phase transition and energy gap in CeRhAs	K. Umeo K. Masumori T. Sasakawa F. Iga T. Takabatake Y. Ohishi T. Adachi	Phys. Rev. B	71		064110 (1-7)	(2005)	

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Structural, transport, and thermal properties of the single-crystalline type-VIII clathrate Ba <sub>8</sub> Ga <sub>16</sub> Sn <sub>30</sub>	D.Huo T. Sakata T. Sasakawa M A. Avila M Tsubota F. Iga H. Fukucka S. Yamanaka S. Aoyagi T. Takabatake	Phys. Rev. B	71		075113 (1- 6) (2005)		
Soft X-ray photoemission study of CeRhAs and related compounds: observation of a bulk pseudo-gap	A. Sekiyama Y. Fujita M Tsunekawa S. Kasai A. Shigemoto S. Imada D. T. Adroja T. Yoshino F. Iga T. Takabatake T. Nanba S. Suga	Physica B		359- 361	115-117	(2005)	
Evidence for short-range antiferromagnetic fluctuations in Kondo-insulating YbB <sub>12</sub>	J. M Mnnot P.A. Alekseev K. S. Nemkovski L. P. Regnault F. Iga T. Takabatake	Phys. Rev. Lett.		94	247204 1- 4	(2005)	
Indirect and direct gaps in Kondo semiconductor YbB <sub>12</sub>	H. Okamura T. Mchizawa T. Nanba S. Kimura F. Iga T. Takabatake	J. Phys. Soc. Jpn.		74	1954-1957	(2005)	
Search for Orbital Excitation in YTiO <sub>3</sub> by Neutron Scattering	S. Shamoto M Tsubota F. Iga B. Fak T. Kajitani	Journal of Neutron Research		13	175-178	(2005)	
Experimental evidence of noncollinear magnetism in gadolinium tetraboride	J. Fernandez-Rodriguez J. A. Blanco P. J. Brown K. Katsumata A. Kikkawa F. Iga S. Mchimura	Phys. Rev. B		72	052407(1- 4)	(2005)	
Evidence for Suppressed Screening on the Surface of High Temperature La <sub>2-x</sub> SrxCuO <sub>4</sub> and Nd <sub>2-x</sub> CexCuO <sub>4</sub>	M Taguchi J. Hori K. Ishii F. Nakamura T. Suzuki	Phys. Rev. Lett.		95	177002(1- 4)	(2005)	
Antiferromagnetic phase transition in garnet-type AgCa <sub>2</sub> Co <sub>2</sub> V <sub>3</sub> O <sub>12</sub> and AgCa <sub>2</sub> Ni <sub>2</sub> V <sub>3</sub> O <sub>12</sub>	J. Awaka M Ito T. Suzuki S. Nagata	J. Phys. Chem Solids	66		851-861	(2005)	
High-pressure diffraction studies on Ca <sub>2</sub> RuO <sub>4</sub>	P. Steffens F. Nakamura	Phys. Rev. B		72	094104(1- 7)	(2005)	

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Transport Properties of the chalcogenide spinel superconductor CuRh <sub>2</sub> S <sub>4</sub> under pressure	M Ito H. Kurasaki F. Nakamura T. Fujita T. Suzuki J. Hori H. Okada H. Fujii	J. Appl. Phys.	97		10B112/1- 3	(2005)	
Transport Properties of chalcogenide spinel compound CuRh <sub>2</sub> Se <sub>4</sub> under pressure	M Ito K. Ishii F. Nakamura T. Suzuki	Physica B	359-361		1198- 1200	(2005)	
Elastic properties of valence fluctuating CeRhIn	H. Higaki I. Ishii Mbo-Sung Kim D. Hirata T. Takabatake T. Suzuki	Physica B	359-361		136- 138	(2005)	
Elastic properties of clathrate compound Ba <sub>8</sub> Ga <sub>16</sub> Sn <sub>30</sub>	I. Ishii H. Higaki T. Sakata D. Huo T. Takabatake T. Suzuki	Physica B	359-361		1210- 1212	(2005)	
Possible application of carbon nanotubes to the field emission electron source for portable betatrons	T. Ohnishi I. Endo K. Hayashi A. Kohara T. Yoshida G.L. Chakhlov E.L. Malikov A.P. Naydukov T. Ekinou F. Nishiyama	Nucl. Instr. and Methods in Phys. Res.	A539		16- 24	(2005)	
Search for coherent charged pion production in neutrino-carbon interactions	M Hasegawa T. Takahashi, et.al	Physical Review Letters	95		25301(1- 5)	(2005)	
Evidence for muon neutrino oscillation in an accelerator-based experiment	E. Alu T. Takahashi M Iinuma S. Nawang, et al	Physical Review Letters	94		081802- 081805	(2005)	
Proton polarization with p-terphenyl crystal by integrated solid effect on photoexcited triplet state	M Iinuma Y. Takahashi I. Shak'e M Oda A. Masaike T. Yabuzaki H. M Shimizu	Journal of Magnetic Resonance	175		235- 241	(2005)	
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	Nuclear Instruments and Methods in Physics Research A	529		199- 203	(2005)	

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Observation of second harmonics in laser-electron scattering using low energy electron beam	M Iinuma K. Matsukado I. Endo M Hashida K. Hayashi A. Kohara F. Matsumoto Y. Nakanishi S. Sakabe S. Shimizu T. Tauchi K. Yamamoto T. Takahashi	Physics Letter A	346		255-260	(2005)	
Proton Polarization with Naphthalene Crystals by Integrated Solid Effect on the Photoexcited Triplet State	M Iinuma Y. Takahashi I. Shak'e M Oda H. M Shimizu A. Masaike T. Yabuzaki	J. Phys. Soc. Jpn.	74	9	2622-2630	(2005)	
Feasibility of beam crystallization in a cooler storage ring	Y. Yuri H. Okamoto	Physical Review STAB	8		114201	(2005)	
Coulomb coupling constant for spatially confined single-species plasmas	H. Okamoto S. Ochi Y. Yuri	J. Phys. Soc. Jpn.	74	7	2099	(2005)	
Frozen Beams	H. Okamoto	(Invited) Proc. Particle Accelerator Conference	1		38815	(2005)	
Space-charge simulations and experiments at Hiroshima University	H. Okamoto	(Invited) AIP Conf. Proc.	773		142-146	(2005)	
Pulse control of dephasing in two-level quantum systems	Y. Takane T. Murakami	J. Phys. Soc. Jpn.	74	8	2243-2248	(2005)	
Pulse control of decoherence in a qubit coupled with a quantum environment	T. Murakami Y. Takane	J. Phys. Soc. Jpn. Suppl.	74		265-268	(2005)	
Conductance and its variance of disordered wires with symplectic symmetry	H. Sakai Y. Takane	J. Phys. Soc. Jpn.	74	5	1521-1524	(2005)	
Nucleation of $2\pi$ -phase soliton in charge-density-wave systems	Y. Takane	J. Phys. Soc. Jpn.	74	3	847-850	(2005)	
Enhanced Coherence of Antinodal Quasiparticles in a Dirty d-Wave Superconductor	K. Wakabayashi T. M Rice M Sigrist	Phys. Rev. B	72		214517(1-5)	(2005)	
Magnetic vs. charge ordered states, and electric capacitance in zigzag nanographite ribbons	K. Harigaya A. Yamashiro Y. Shimoji K. Wakabayashi	Synthetic Metals	152		317-320	(2005)	
Effect of spin-orbit coupling on the zero-conductance resonances in asymmetrically coupled one-dimensional rings	U. Aeberhard K. Wakabayashi M Sigrist	Phys. Rev. B	72		075328(1-9)	(2005)	
Theoretical investigation on electronic properties of topological materials: Möbius nanographite and conjugated polymers	K. Harigaya A. Yamashiro Y. Shimoji K. Wakabayashi	Synthetic Metals	152		261-264	(2005)	
Negative Differential Resistance in CDW Nonlinear Transport of Quasi-One Dimensional Conductor (Per)2M(mnt)2 [M=Au, Pt]	M Nishida N. Mitsu S. Tanda K. Yamaya R. T. Henriques M Almeida	Journal de Physique IV	131		129-130	(2005)	

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Terahertz wave detection performance of photoconductive antennas: Role of antenna structure and gate pulse intensity	R. Yano H. Gotoh Y. Hirayama S. Myashita Y. Kadoya T. Hattori	Jounal of Applied Physics	97	10	103103	(2005)	
Propagation Characteristics of THz Electrical Signals on Mcro Strip Lines Made of Optically Transparent Conductors	K. Takase T. Ohkubo F. Sawada D. Nagayama J. Kitagawa Y. Kadoya	Japanese Jounal of Applied Physics	44	32	L1011-L1014	(2005)	
Demonstration of an optical quantum controlled-NOT gate without path interference	R. Okamoto H.F. Hofmann S. Takeuchi K. Sasaki	Physical Review Letters	95		210506	(2005)	
Simulation of interaction Hamiltonians by quantum feedback: a comment on the dynamics of information exchange between coupled systems	H.F. Hofmann	Journal of Optics B: Quantum and Semicalssical Optics	7		S208-S214	(2005)	
Quantum parallelism of the controlled-NOT operation: an experimental criterion for the evaluation of device performance	H.F. Hofmann	Physical ReviewA	72		22329	(2005)	
Complementary classical fidelities as an efficient criterion for the evaluation of experimentally realized quantum operations	H.F. Hofmann	Physical Review Letters	94		160504	(2005)	
A study on the shape of two-photon wavefunctions after the nonlinear interaction with a one-dimensional atom	K. Kojima H.F. Hofmann S. Takeuchi K. Sasaki	Nonlinear Optics, Quantum Optics	32		221	(2005)	
Propagation Characteristics of Terahertz Electrical Signals on Mcro-Strip Lines Made of Optically Transparent Conductors	K. Takase T. Ohkubo F. Sawada D. Nagayama J. Kitagawa Y. Kadoya	Jpn. J. Appl. Phys.	44	32	L1011	(2005)	
Characterization of electroless-plated Cu film over Pd catalytic layer formed by an ionized cluster beam	ZL Wang S. Shingubara H. Sakae T. Takahagi	J. of The Electrochem Soc.	152	10	C684-C687	(2005)	
Effect of Additives on Bottom-up Electroless Copper Plating	S. Shingubara R. Obata A. Kato Z. Wang O. Yaegashi H. Sakae T. Takahagi	Technical report of IEICE. SDM	104		43-48	(2005)	
Adsorption of dibutyl phthalate and dioctyl phthalate on Si substrate	H. Mya R. Sasajima E. Takami N. Nakamura T. Takahagi	Jpn. J. of Appl. Phy. Part1	44	6A	3864-3866	(2005)	
Contact resistance reduction using vacuum loadlock system and plasma dry cleanin	H. Mya S. Shingubara H. Sakae T. Takahagi	Jpn. J. of Appl. Phy. Part1	44	6A	3860-3863	(2005)	
Fabrication of carbon nanotube array using nanoporous temprates	SJ. Huang T. Shimizu H. Sakaue S. Shingubara T. Takahagi	Jpn. J. of Appl. Phy. Part1	44	7A	5289-5291	(2005)	

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Nanometer-Scale Control of Film Thickness and Pattern Width of Alkyl SAM on H-Terminated Si(110) Surface	H. Sakaue A. Sunada H. Shikata T. Takahagi	Atomically Controlled Surfaces, Interfaces and Nanostructures			114	(2005)	
Nanometer-Scale Control of Film Thickness and Pattern Width of Alkyl SAM on H-Terminated Si(111) Surface	A. Sunada H. Shikata H. Sakaue T. Takahagi	Surface Science and Nanotechnology			536	(2005)	
Transverse acoustic impedance of superfluid $^3\text{He}$ -B	Y. Nagato M Yamamoto S. Higashitani K. Nagai	J. Phys. Chem Solids	66		1352-1354	(2005)	
NMR properties of a possible non-unitary state of superfluid $^3\text{He}$ in aerogel	M Mura S. Higashitani M Yamamoto K. Nagai	J. Low Temp. Phys.	138		153-157	(2005)	
Theory of damped Rabi oscillations	H. Kosugi S. Matsuo K. Konno N. Hatakenaka	Physical Review B	72		172509	(2005)	
Quantum tunneling of relativistic fluxons	K. Konno F. Kobayashi S. Matsuo M Nishida N. Hatakenaka	Proceeding of the International Symposium on Mesoscopic Superconductivity and Spintronics, World Scientific			216	(2005)	
Observation of surface Andreev bound states of superfluid $^3\text{He}$ by transverse acoustic impedance measurements	Y. Aoki Y. Wada M Saitoh R. Nomura Y. Okuda Y. Nagato M Yamamoto S. Higashitani K. Nagai	Phys. Rev. Lett.	95		075301(1-4)	(2005)	
Microscopic theory of sound propagation in the superfluid $^3\text{He}$ -aerogel system	S. Higashitani M Mura M Yamamoto K. Nagai	Phys. Rev. B	71		134508(1-13)	(2005)	
Sound propagation in superfluid $^3\text{He}$ in aerogel	S. Higashitani M Mura M Yamamoto K. Nagai	J. Phys. Chem Solids	66		1334-1338	(2005)	
Fourth sound propagation in superfluid $^3\text{He}$ in aerogel	S. Higashitani M Mura M Yamamoto K. Nagai	J. Low Temp. Phys.	138		147-152	(2005)	
Theory of acoustic impedance of superfluid $^3\text{He}$	M Yamamoto Y. Nagato S. Higashitani K. Nagai	J. Low Temp. Phys.	138		349-354	(2005)	
Synergism of electrochemical and mechanical factors of in porous silicon growth	V. Parkhutik M Udagawa Y. Harima	Phys. Stat. Sol. (a)	202	9	1374-1379	(2005)	
Infrared absorption study of $\text{Ca}_2 \cdot x\text{Na}_x\text{CuO}_2\text{X}_2$ ( $\text{X}=\text{Cl}, \text{Br}$ )	Y. Zenitani H. Kawashima T. Suzuki J. Akimitsu N. Ogita T. Kondo M Udagawa	J. Phys. Soc. Jpn.	74		1877-1878	(2005)	

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Raman scattering study of filled skutterudite PrRu4P12	N. Ogita K. Yamamoto S. R.Saha H. Sugawara H. Sato C. Sekine I. Shirotani M Udagawa	Physica B	359- 361		847- 849	(2005)	
Phonon Raman scattering of RFe4P12 and ROs4Sb12	K. Kondo K. Yamamoto N. Ogita M Udagawa H. Sugawara H. Sato	Physica B	359- 361		904- 906	(2005)	
Raman scattering study of rare- earth hexaboride	N. Ogita S. Nagai M Udagawa F. Iga M Sera T. Oguchi J. Akimitsu S. Kunii	Physica B	359- 361		941- 943	(2005)	
Hydrogen Desorption Mechanism in M-N-H system by Isotopic Exchange Technique.	S. Isobe T. Ichikawa S. Hino H. Fujii	J. Phys. Chem B	109		14855- 14858	(2005)	
Pauli effect of the magnetic field on superconductors with charge- density waves	T. Ekino A.M Gabovich A.I. Voitenko	LowTemp. Phys.	31		41- 46	(2005)	
Spin-polarized electron tunneling between charge-density-wave metals	T. Ekino A.M Gabovich A.I. Voitenko	LowTemp. Phys.	31		59- 72	(2005)	
Manifestations of inhomogeneity in MgB2 From specific heat to tunnel measurements	T. Ekino A.M Gabovich Mai Suan Li T. Takasaki A.I. Voitenko J. Akimitsu H. Fujii T. Muranaka M Pekala H. Szymczak	Physica B	359- 361		460- 462	(2005)	
Spatially heterogeneous character of superconductivity in MgB2 as revealed by local probe and bulk measurements	T. Ekino A.M Gabovich T. Takasaki A.I. Voitenko J. Akimitsu H. Fujii T. Muranaka	Physica C	426- 431		230- 233	(2005)	
Enhancement of the paramagnetic limit for superconductors with charge- density waves	T. Ekino, A.M Gabovich, A.I. Voitenko	Physica C	426- 431		325- 329	(2005)	
Current carrier localization and coulomb gap observed in SrPbO3-d by transport measurements and tunnel spectroscopy	V.A. Drozd T. Ekino A.M Gabovich M Pekala R.A. Ribeiro A.D. Shevchenko V.M Uvarov	Journal of Physics; Condens. Matter	17		7407- 7416	(2005)	
Tunneling spectroscopy of deintercalated layered nitride superconductors ZrNClO7	T. Takasaki T. Ekino H. Fujii S. Yamanaka	J. Phys. Soc. Jpn.	74		2586- 2591	(2005)	

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Electrical resistivity and tunneling anomalies in CeCuAs <sub>2</sub>	E.V. Sampathkumaran T. Ekino R.A. Ribeiro K. Sengupta T. Nakano M Hedo N. Fujiwara M Abliz Y. Uwatoko S. Rayaprol Th. Doert J.P.F. Jemetio	Physica B	359-361		108-110	(2005)	
Composite Materials Based on Light Elements for Hydrogen Storage	T. Ichikawa N. Hanada S. Isobe H.Y. Leng H. Fujii	Mater. Trans.	46	1	1-14	(2005)	
Rechargeable Hydrogen Storage in Nano-Structured Mixtures of Hydrogenated-Carbon and Lithium Hydride	T. Ichikawa S. Isobe K. Nabeta H. Fujii	Appl. Phys. Lett.	86		24914	(2005)	
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Hydrogen Desorption Properties of Lithium-Carbon-Hydrogen System	T. Ichikawa S. Isobe H. Fujii	Mater. Trans.	46		1757-1759	(2005)	
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Quantitative estimation of NH <sub>3</sub> partial pressure in H <sub>2</sub> desorbed from Li-N-H system by Raman spectroscopy	S. Hino T. Ichikawa N. Ogita M Udagawa H. Fujii	Chem Comm	24		3038-3040	(2005)	
Hydrogen Desorption Mechanism in a Li-N-H System by Means of Isotopic Exchange Technique	S. Isobe T. Ichikawa S. Hino H. Fujii	J. Phys. Chem B	109		147855-14858	(2005)	
<sup>1</sup> H-NMR measurements of the hydrogen dynamics in nanocrystalline graphite	E. Stanik G. Majer S. Orimo T. Ichikawa H. Fujii	J. Appl. Phys.	98		44302	(2005)	

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Effect of Ti Catalysts with Different Chemical Form on Li-N-H Hydrogen Storage Properties	S. Isobe T. Ichikawa N. Hanada H.Y. Leng M. Fichtner O. Kircher H. Fujii	J. Alloys. Comp.	404-406		439-442	(2005)	
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Isolation of high-quality RNA from high-phenolic tissues of eelgrass ( <i>Zostera marina</i> L.) by keeping temperature low	A. Alemzadeh M. Fujie S. Usami T. Yamada	Plant. Mbl. Biol. Rep.	23		1a-1h	(2005)	
Microbial synthesis of hyaluronan and chitin: new approaches	T. Yamada T. Kawasaki	J. Biosci. Bioeng.	99		521-528	(2005)	
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Effect of various halide salts on the incompatibility of cyanocobalamin and ascorbic acid in aqueous solution	M. Ichikawa N. Ide S. Shiraishi K. Ono	Chem. Pharm. Bull.	53		688-690	(2005)	
The effect of antihistone H1 antibody on immune cells responsible for rejection reaction	W.L. Hsu S. Goto T. Nakano Y. C. Lai C.Y. Lin S. Kawamoto K. Ono L.C. Wu R. Lord T. Goto H.S. Chen B. Javan F.Y. Cheng L.C. Chen	Mbl. Immunol.	42		1155-1164	(2005)	
Expression of a major house dust mite allergen gene from <i>Dermatophagoides farinae</i> in <i>Lotus japonicus</i> accession Myakojima MG-20	T. Kato Y. Goto K. Ono M. Hayashi Y. Murooka	J. Biosci. Bioeng.	99		165-168	(2005)	

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A new immunomodulatory function of low-viscous konjac-glucosmannan with a small particle size: its oral intake suppresses spontaneously occurring dermatitis in NC/Nga mice	N. Onishi S. Kawamoto M Nishimura T. Nakano T. Aki S. Shigeta H. Shimizu K. Hashimoto K. Ono	Int. Arch. Allergy Immunol.	136		258-265	(2005)	
Characterization of immunosuppressive factors expressed in serum by rat tolerogenic liver transplantation	T. Nakano S. Kawamoto Y.C. Lai T. Sasaki T. Aki S. Shigeta T. Goto S. Goto K. Ono L.C. Chen	Transplant. Proc.	37		80-81	(2005)	
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Hydrogen and methane two-stage production directly from brewery effluent by anaerobic fermentation	Y. Mtani Y. Takamoto R. Atsumi T. Hiraga N. Nishio	Master Brewers Association of the Americas	42	4	283-289	(2005)	
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<i>Desulfotomaculum carboxydovorans</i> sp. Nov., a novel sulfate-reducing bacterium capable of growth at 100% CO	S.N. Parshina J. Sipma Y. Nakashimada A.M Henstra H. Smidt A.M Lysenko P.N.L. Lens G. Lettinga A.J.M Stams	Int J Syst Evol Microbiol	55	5	2159-2165	(2005)	
Process performance and ecological significance of a pilot-scale sewage treatment system combining of a UASB and DHS reactor system enhancing a sulfur-redox cycle action	M Takahashi T. Yamaguchi K. Abe N. Araki H. Sumino S. Yamazaki N. Nishio	1st IWA-ASPIRE 2005 CD-Conference, Singapore ROM	7D-2			(2005)	
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Identification of Chemosensory Proteins for Trichloroethylene in <i>Pseudomonas aeruginosa</i>	M Shitashiro H. Tanaka C.S. Hong A. Kuroda N. Takiguchi H. Ootake J. Kato	Journal of Bioscience and Bioengineering	99	4	396- 402	(2005)	
Isolation and Characterization of Benzene-Tolerant <i>Rhodococcus opacus</i> Strains	K-S. Na A. Kuroda N. Takiguchi T. Ikeda H. Ootake J. Kato	Journal of Bioscience and Bioengineering	99	4	378- 382	(2005)	
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Isolation and Characterization of solvent-tolerant <i>Pseudomonas putida</i> strain T-57 and its application to biotransformation of toluene to cresol in a two-phase (organic-aqueous) system	I. Faizal K. Dozen C.S. Hong A. Kuroda N. Takiguchi H. Ootake K. Takeda H. Tsunekawa J. Kato	J Ind Microbiol Biotechnol	32		542- 547	(2005)	
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Implication of Pkclp protein kinase C in sustaining Cln2p level and polarized bud growth in response to calcium signaling in <i>Saccharomyces cerevisiae</i>	M Mzunuma D. Hirata T. Myakawa	J. Cell. Sci.	118		4219-4229	(2005)		
Mutational Analysis of the yeast multidrug resistance ABC transporter Pdr5p with altered drug specificity	A.C. Tutulan-Cunita M Mkoshi M Mzunuma D. Hirata T. Myakawa	Gene Cells	10		409-420	(2005)		
Involvement of <i>Saccharomyces cerevisiae</i> Pdr5p ATP-binding cassette Transporter in calcium homeostasis	A.C. Tutulan-Cunita T. Ohnishi M Mzunuma D. Hirata T. Myakawa	Biosci. Biotechnol. Biochem.	69		857-860	(2005)		
Role of L-histidine in conferring tolerance to Ni <sup>2+</sup> in <i>Saccharomyces cerevisiae</i>	Ileana C. Farcasanu M Mzunuma F. Nishiyama T. Myakawa	Biosci. Biotechnol. Biochem.	69		2343-2348	(2005)		
Glimepiride exhibits prophylactic effect on atherosclerosis in cholesterol-fed rabbits	S. Shakuto K. Oshima E. Tsuchiya	Atherosclerosis	182		209-217	(2005)		
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High-dimensional and large-scale phenotyping of yeast mutants	Y. Ohya J. Sese M Yukawa et al	Proc. Natl. Acad. Sci. USA	102		19015-19020	(2005)		
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Mtochondria-specific RNA-modifying enzymes responsible for the biosynthesis of the wobble base in mitochondrial tRNAs: Implications for the molecular pathogenesis of human mitochondrial diseases	N. Umeda T. Suzuki M Yukawa Y. Ohya H. Shindo K. Watanabe T. Suzuki	J Biol Chem.	280		1613-1624	(2005)		
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Characterization of the <i>rdB</i> promoter on mikimopine-type pRi1724 T-DNA	N.S.N Handayani H. Mbiruchi M Yamakawa I. Yamashita K. Yoshida N. Tanaka	Plant Science	168		1353-1364	(2005)		

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<i>SKGI</i> , a suppressor gene of synthetic lethality of <i>kex2</i> <i>gas1</i> mutations, encodes a novel membrane protein that affects cell wall composition	N. Tomishige Y. Noda H. Adachi H. Shimo K. Yoda	Yeast	22		141-155	(2005)		
High expression of unsaturated fatty acid synthesis gene <i>OLE1</i> in sake yeasts	T. Yamada H. Shimo K. Ito	Journal of Bioscience and Bioengineering	99		512-516	(2005)		
Identification and characterization of a novel biotin biosynthesis gene in <i>Saccharomyces cerevisiae</i>	W. Wu K. Ito H. Shimo	Applied and Environmental Microbiology	71		6845-6855	(2005)		
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Cloning and heterologous expression of the antibiotic peptide (ABP) genes from <i>Rhizopus oligosporus</i> NBRC 8631	O. Yamada K. Sakamoto M. Tominaga T. Nakayama T. Kosei A. Fujita O. Akita	Bioscience Biotechnology and Biochemistry	69		477-482	(2005)		
Cloning and expression analysis of two catalase genes from <i>Aspergillus oryzae</i>	H. Hisada Y. Hata A. Kawato Y. Abe O. Akita	Journal of Bioscience and Bioengineering	99		562-568	(2005)		
Genome sequencing and analysis of <i>Aspergillus oryzae</i>	O. Akita et al	Nature	438		1157-1161	(2005)		
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Characterization of Atom Diffusion in Polycrystalline Si/SiGe/Si Stacked Gate	H. Murakami Y. Mbirwaki M. Fujitake D. Azuma S. Higashi S. Myazaki	IEICE Trans. on Electronics	E88-C	4	646-650	(2005)	
Electrical Characterization of Aluminum-Oxynitride Stacked Gate Dielectrics Prepared by a Layer-by-Layer Process of Chemical Vapor Deposition and Rapid Thermal Nitridation	H. Murakami W. Mizubayashi H. Yokoi A. Suyama S. Myazaki	IEICE Trans. on Electronics	E88-C	4	640-645	(2005)	
Characterization of germanium nanocrystallites grown on SiO2 by a conductive AFM probe technique	K. Makihara Y. Okamoto H. Murakami S. Higashi S. Myazaki	IEICE Trans. on Electronics	E88-C	4	705-708	(2005)	
Control of the nucleation density of Si quantum dots by remote hydrogen plasma treatment	K. Makihara H. Deki H. Murakami S. Higashi S. Myazaki	Appl. Surf. Sci.	244	1-4	75-78	(2005)	
High-Rate Growth of Highly-Crystallized Si Films from VHF Inductively-Coupled Plasma CVD	N. Kosku S. Myazaki	Trans. of the Mat. Res. Soc. of Japan	30	1	279-282	(2005)	
Application of Plasma Jet Crystallization Technique to Fabrication of Thin-Film Transistor	S. Higashi H. Kaku H. Murakami S. Myazaki H. Watakabe N. Ando T. Sameshima	Japanese J. of Applied Physics	44	3	L108-L110	(2005)	
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Characterization of Charge Trapping and Dielectric Breakdown of HfAlOx/SiON Dielectric Gate Stack	Y. Pei S. Nagamachi H. Murakami S. Higashi S. Myazaki T. Kawahara K. Torii Y. Nara	dielectric and semiconductor materials, devices, and processing. Physics and Chemistry of SiO <sub>2</sub> and the Si-SiO <sub>2</sub> Interface- 5		1	163-172	(2005)	

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Photoemission Study of Ultrathin GeO2/Ge Heterostructures Formed by UV-O3 Oxidation	A. Ohta H. Murakami S. Higashi S. Myazaki	The 4th Int. Symp. Surface Science and Nanotechnology			543	(2005)	
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Decay Characteristics of Electronic Charged States of Si Quantum Dots as Evaluated by an AFM/Kelvin Probe Technique	J. Nishitani K. Makihara M. Ikeda H. Murakami S. Higashi S. Myazaki	The Fourth Int. conf. on Silicon Epitaxy and Heterostructures(ICSI-4)(Awaji Island, Hyogo, Japan, May 23-26, 2005)			294-295	(2005)	
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Analysis of Transient Temperature Profile During Thermal Plasma Jet Annealing of Si Films on Quartz Substrate	T. Okada S. Higashi H. Kaku H. Murakami S. Myazaki	2005 Int. Workshop on Active-Matrix Liquid-Crystal Displays (July 6-8, 2005, Kanazawa)			171-174	(2005)	
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Impact of Rapid Thermal Annealing on AlCVD-Al <sub>2</sub> O <sub>3</sub> /Si <sub>3</sub> N <sub>4</sub> /Si(100) Stack Structures - Photoelectron Spectroscopy	H. Murakami F. Takeno A. Ohta S. Higashi S. Myazaki K. Komeda M. Horikawa K. Koyama	the 4th Hiroshima Int. Workshop on 21th Century COE, Nanoelectronics for Tera-bit Information Processing (Sep. 16, 2005, Hiroshima)			94-95	(2005)	
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