

Coupled valence and spin state transition in
(Pr_{0.7}Sm_{0.3})_{0.7}Ca_{0.3}CoO₃

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Phys. Rev. B

87

115114/1-9 2013

Direct observation of twin domains of NiO(100) by x-
ray linear dichroism at the O K edge using
photoemission electron microscopy

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Raman Scattering Spectra of LaRu ₂ Al ₁₀ and CeRu ₂ Al ₁₀	N. Nagano T. Hasegawa N. Ogita M. Udagawa H. Tanida D. Tanaka M. Sera T. Nishioka M. Matsumura	J. Phys.: Conf. Ser.	391	1	012050(1-4)	2012
Resonant x-ray scattering experiments on the ordering of electronic degrees of freedom	T. Matsumura H. Nakao Y. Murakami	J. Phys. Soc. Jpn.	82	2	021007 (1-18)	2013
Unified understanding of the valence transition in the rare-earth monochalcogenides under pressure	I. Jarrige H. Yamaoka J.-P. Rueff J.-F. Lin M. Taguchi N. Hiraoka H. Ishii K. D. Tsuei K. Imura T. Matsumura A. Ochiai H. S. Suzuki A. Kotani	Phys. Rev. B	87	11	115107 (1-5)	2013
Unusual magnetic order in CeT ₂ Al ₁₀ (T=Ru, Os) in comparison with localized NdFe ₂ Al ₁₀	K. Kuniyori M. Nakamura H. Nohara H. Tanida M. Sera T. Nishioka M. Matsumura	Phys. Rev. B	86	12	245106(1-7)	2012
Anisotropic gap formation in CeM ₂ Al ₁₀ (M = Ru, Os)	S. Kimura T. Iizuka Y. Muro J. Kajino T. Takabatake	J. Phys.: Conf. Ser.	391	1	012030(1-4)	2012
Anomalous infrared spectra of hybridized phonons in type-I clathrate Ba ₈ Ga ₁₆ Ge ₃₀	K. Iwamoto S. Kushibiki H. Honda S. Kajitani T. Mori H. Matsumoto N. Toyota K. Suekuni M. A. Avila T. Takabatake	J. Phys. Soc. Jpn.	82	2	024601(1-7)	2013
Crystal-field effect on anisotropic magnetic properties of CeT ₂ Al ₁₀ (T = Ru and Os)	K. Yutani Y. Muro J. Kajino T. J. Sato T. Takabatake	J. Phys.: Conf. Ser.	391	1	012070(1-4)	2012

Crystal-field ground state of the orthorhombic Kondo insulator CeRu ₂ Al ₁₀	F. Strigari T. Willers Y. Muro K. Yutani T. Takabatake Z. Hu Y.-Y. Chin S. Agrestini H.-J. Lin C. T. Chen A. Tanaka M. W. Haverkort L. H. Tjeng A. Severing	Phys. Rev. B	86	8	081105(R)/1-5	2012
Crystal field ground state of the orthorhombic Kondo semiconductors CeOs ₂ Al ₁₀ and CeFe ₂ Al ₁₀	F. Strigari T. Willers Y. Muro K. Yutani T. Takabatake Z. Hu S. Agrestini C.-Y. Kuo Y.-Y. Chin H.-J. Lin T. W. Pi C. T. Chen E. Weschke E. Schierle A. Tanaka M. W. Haverkort L. H. Tjeng A. Severing	Phys. Rev. B	87	12	125119-6	1-2013
Determination of spin Hamiltonian in the Ni ⁴ magnetic molecule	K. Iida S.-H. Lee T. Onimaru K. Matsubayashi T. J. Sato	Phys. Rev. B	86	-	064422(1-6)	2012
Fe substitution effect on the phase transition and hybridization gap in CeOs ₂ Al ₁₀	Y. Muro K. Yutani J. Kajino T. Takabatake	J. Phys.: Conf. Ser.	391	1	012049(1-4)	2012
Ferromagnetic instability in a doped band gap semiconductor FeGa ₃	K. Umeo Y. Hadano S. Narazu T. Onimaru M. A. Avila T. Takabatake	Phys. Rev. B	86	14	144421(1-7)	2012
Interplay of low-energy phonons and magnetic excitations in the Kondo insulator YbB ₁₂	P. V. Alekseev J.-M. Mignot K. S. Nemkovski A. V. Rybina V. N. Lazukov A. S. Ivanov F. Iga T. Takabatake	J. Phys.: Cond. Matter	24	20	205601(1-5)	2012
Multipole and superconducting state in PrIr ₂ Zn ₂₀ probed by muon spin relaxation	W. Higemoto T. U. Ito K. Ninomiya T. Onimaru K. T. Matsumoto T. Takabatake	Phys. Rev. B	85	23	235152(1-4)	2012

Nonmagnetic ground states and phase transitions in the caged compounds PrT ₂ Zn ₂₀ (T=Ru, Rh and Ir)	T. Onimaru K. T. Matsumoto N. Nagasawa Y. F. Inoue K. Umeo R. Tamura K. Nishimoto S. Kittaka T. Sakakibara T. Takabatake	J. Phys.: Cond. Matter	24	29	294207(1-5)	2012
Nonmagnetic Γ_3 doublet ground state in a caged compound PrRh ₂ Zn ₂₀	N. Nagasawa T. Onimaru K. T. Matsumoto K. Umeo T. Takabatake	J. Phys.: Conf. Ser.	391	1	012051(1-4)	2012
Observation of rattling vibrations in clathrate under high pressure and low temperature	K. Funahashi I. Yajima T. Kume S. Sasaki H. Shimizu T. Takabatake	J. Phys.: Conf. Ser.	377	1	012038(1-5)	2012
Pressure effect on the ferromagnetism of an off-center rattling system Eu ₈ Ga ₁₆ Ge ₃₀	K. Umeo H. Yamane M. A. Avila T. Onimaru T. Takabatake	J. Phys.: Conf. Ser.	391	1	012075(1-4)	2012
Simple tuning of carrier type in topological insulator Bi ₂ Se ₃ by Mn doping	Y. H. Choi N. H. Jo K. L. Lee H. W. Lee Y. H. Jo J. Kajino T. Takabatake K. -T. Ko J. -H. Park M. H. Jung	Appl. Phys. Lett.	101	15	152103(1-4)	2012
Simultaneous superconducting and antiferroquadrupolar transitions in PrRh ₂ Zn ₂₀	T. Onimaru N. Nagasawa K. T. Matsumoto K. Wakiya K. Umeo S. Kittaka T. Sakakibara Y. Matsushita T. Takabatake	Phys. Rev. B	86	18	184426(1-7)	2012
Study of $\alpha \leftrightarrow \beta$ transformation in the dimorphic clathrate Ba ₈ Ga ₁₆ Sn ₃₀	B. Du Y. Saiga K. Kajisa T. Takabatake E. Nishibori H. Sawa	Phil. Magazine	92		2541-2552	2012
Superconductivity of metal nitride chloride β -MNCl (M = Zr, Hf) with rare-earth metal RE (RE = Eu, Yb) doped by intercalation	S. Zhang M. Tanaka T. Onimaru T. Takabatake Y. Isikawa S. Yamanaka	Supercond. Sci. Technol.	26	4	045017 (1-9)	2013

T-H Phase Diagram of PrPb3 in [001] and [110] Magnetic Field Directions	Y. Sato S. Makiyama H. Morodomi Y. Inagaki T. Kawae H. S. Suzuki T. Onimaru	J. Phys.: Conf. Ser.	391	-	012060(1-4)	2012
Thermoelectric properties and structural instability of type-I clathrate Ba8Ga16Sn30 at high temperatures	Y. Saiga K. Suekuni B. Du T. Takabatake	Solid State Comm.	152		1902-1905	2012
Thermoelectric properties of type-VIII clathrate Ba8Ga16Sn30 doped with Cu	Y. Saiga B. Du S. K. Deng K. Kajisa T. Takabatake	J. Alloys and Compd.	537		303-307	2012
Well-defined crystal field splitting schemes and non-Kramers doublet ground states of f electrons in PrT2Zn20 (T=Ir, Rh, and Ru)	K. Iwasa H. Kobayashi T. Onimaru K. T. Matsumoto N. Nagasawa T. Takabatake S. Ohira-Kawamura T. Kikuchi Y. Inamura K. Makajima	J. Phys. Soc. Jpn.	82	4	043707(1-5)	2013
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Antiferrodistortive phase transition in pseudorhombohedral (Pb0.94Sr0.06)(Zr0.550Ti0.450)O3: A combined synchrotron x-ray and neutron powder diffraction study	R.S. Solanki S.K. Mishra A. Senyshyn I. Ishii C. Moriyoshi T. Suzuki Y. Kuroiwa D. Pandey	Phys. Rev. B	86		174117 (1-9)	2012
Charge stripe order near the surface of 12-percent doped La2-xSrxCuO4	H.-H. Wu M. Buchholz C. Trabant C. F. Chang A. C. Komarek F. Heigl M. v. Zimmermann M. Cwik F. Nakamura M. Braden C. Schüßler-Langeheine	Nature Communications	3		1023	2012
Control of the electronic states of Ca2RuO4 by uniaxial pressure	Ryo Ishikawa Haruka Taniguchi Swee Kuan Goh Shingo Yonezawa Fumihiko Nakamura Yoshiteru Maeno	Journal of Physics: Conference Series	400	-	022036.	2012

Elastic anomalies at successive phase transitions in NdRu ₂ Al ₁₀	T. Suzuki I. Ishii Y. Suetomi H. Muneshige T.K. Fujita S. Suzuki T. Nishioka	J. Phys.: Conf. Ser.	391	012069(1-4) 2012
Graphene made by mechanical exfoliation of graphite intercalation compound	Seiya Fukada Yumi Shintani Midori Shimomura Fumiya Tahara Ryuta Yagi	Jpn. J. Appl. Phys.	51	085101(1-4) 2012
Observing Altshuler-Aronov-Spivak (AAS) oscillation in a hexagonal antidot array of monolayer graphene	Ryuta Yagi Midori Shimomura Fumiya Tahara Hiroaki Kobara Seiya Fukada	J. Phys. Soc. Jpn.	81	063707(1-4) 2012

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Gamma-ray generation experiment using the 3D 4-mirror optical resonant	R.Tanaka T.Akagi T.Takahashi H.Yoshitama S.Araki J.Urakawa T.Omori T.Okugi H.Shimizu N.Terunuma Y.Funakoshi Y.Honda K. Sakaue M. Washio	オコ	322	2012	しと	
Violation of Leggett-Garg inequalities in quantum measurements with variable resolution and back-action	Y. Suzuki M. Inuma H. F. Hofmann	New J. Phys.	14	10	103022 (1-16)	2012
Approach to the low temperature state oriented for crystalline beam	A. Noda M. Nakao H. Souda H. Tongu K. Jimbo H. Okamoto K. Osaki Y. Yuri I. N. Meshkov A. V. Smirnov M. Grieser K. Noda T. Shirai Z. He	Proc. XXIII Russian Particle Accelerator Conf.			48-52	2012
Challenge for more efficient transverse laser cooling for beam crystallization	A. Noda M. Nakao H. Souda H. Tongu K. Ito H. Okamoto K. Osaki Y. Yuri K. Jimbo M. Grieser Z. He	Proc. 3rd International Particle Accelerator Conf.			394-396	2012
Controlled beam scraping oriented for efficient indirect transverse laser cooling	A. Noda M. Nakao H. Souda H. Tongu K. Jimbo H. Okamoto K. Osaki Y. Yuri M. Grieser Z. He	Proc. 9th Meeting of Particle Accelerator Society of Japan				2012
Efficiency enhancement of indirect transverse laser cooling with synchro-betatron resonant coupling by suppression of beam intensity	H. Souda M. Nakao H. Tongu K. Jimbo K. Osaki H. Okamoto Y. Yuri H. Zhengqi M. Grieser A. Noda	Jpn. J. Appl. Phys.	52		030202 (1-4)	2013

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H. Takeuchi
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Towards the production of anti-hydrogen beams	H. Higaki Y. Enomoto N. Kuroda K. Michishio D.J. Murtagh S. Ulmer S. Van Gorp C.H. Kim Y. Nagata Y. Kanai H.A. Torii M. Corradini M. Leali E. Lodi-Rizzini V. Mascagna L. Venturelli N. Zurlo K. Fujii M. Otsuka K. Tanaka H. Imao Y. Nagashima Y. Matsuda B. Juhasz A. Mohri Y. Yamazaki	AIP Conf. Proc.	1521	-	134-143	2013
1 ms Pulse Beam Generation and Acceleration by Photo-cathode RF Gun			9	2	82-91	2012
1ms Multi-bunch Electron Beam Acceleration by a Normal Conducting RF Gun and Superconducting Accelerator	Masao Kuriki Seiichi Hosoda Hokuto Iijima Goro Isoyama Ryukou Kato Keigo Kawase Hitoshi Hayano Junji Urakawa Ken Watanabe Kazuyuki Sakaue Kuramoto Ayaka Shigeru Kashiwagi	Proc. of LINAC2012			MOPB025	2012
Development of a photoemission DC Gun at JAEA	Nobuyuki Nishimori Ryoichi Hajima Ryoji Nagai Shunya Matsuba Hokuto Iijima Masao Kuriki Yosuke Honda Tsukasa Miyajima Masahiro Yamamoto Makoto Kuwahara Tutomu Nakanishi Shoji Okumi	Proc. of FEL2012				2012

Gamma-rays Generation with 3D 4-mirror Cavity for ILC Polarized Positron Source	Tomoya Akagi Masao Kuriki Shuheii Miyoshi Tohru Takahashi Ryuta Tanaka Hitoshi Yoshitama Sakae Araki Yoshisato Funahashi Yosuke Honda Toshiyuki Okugi Tsunehiko Omori Hirotaka Shimizu Nobuhiro Terunuma Junji Urakawa Kazuyuki Sakaue Masakazu Washio Hiromi Kataoka Tadashi Kon	Proc. of IPAC 2012, New Orleans			WEPPD055	2012
Multi-bunch Beam Generation by Photo-cathode RF Gun for KEK-STF	Masao Kuriki Seiichi Hosoda Hokuto Iijima Goro Ioyama Ryukou Kato Keigo Kawase Hitoshi Hayano Junji Urakawa Ken Watanab Kazuyuki Sakaue Kuramoto Ayaka Shigeru Kashiwagi	Proc. of IPAC 2012, New Orleans			TUPPD034	2012
Dirac electrons on a sharply edged surface of topological insulators	Yositake Takane Ken-Ichiro Imura	J. Phys. Soc. Jpn.	81	9	093705 (1-4)	2012
Electronic states and local density of states near graphene corner edge	Y. Shimomura Y. Takane K. Wakabayashi	Int. J. Mod. Phys.: Conf. Ser.	11	-	151-156	2012
Finite-size energy gap in weak and strong topological insulators	Ken-Ichiro Imura Mayuko Okamoto Yukinori Yoshimura Yositake Takane Tomi Ohtsuki	Phys. Rev. B	86	24	245436 (1-15)	2012
Numerical study of collective transport in charge density wave conductors	M. Hayashi Y. Takane H. Ebisawa	J. Phys.: Conf. Ser.	400	1	012015 (1-4)	2012
Perfectly Conducting Channel and its Robustness in Disordered Carbon Nanostructures	Y. Ashitani K.-I. Imura Y. Takane	Int. J. Mod. Phys.: Conf. Ser.	11	-	157-162	2012
Quasiclassical Theory of the Josephson Effect in Ballistic Graphene Junctions	Yositake Takane Ken-Ichiro Imura	J. Phys. Soc. Jpn.	81	9	094707 (1-13)	2012
Relativistic dynamics of domain wall in one-dimensional SQUID array	M. Nishida Y. Aoki T. Fujii	J. Phys.: Conf. Ser.	400	2	022082 (1-4)	2012
Spherical topological insulator	Ken-Ichiro Imura Yukinori Yoshimura Yositake Takane Takahiro Fukui	Phys. Rev. B	86	23	2454236 (1-12)	2012
Spin-orbit effects in graphene p-n junction	A. Yamakage K.-I. Imura J. Cayssol Y. Kuramoto	AIP Conf. Proc.	1504	7	867-870	2012

Electrical detection of translocating nanoparticles through nanopore in Si ₃ N ₄ membrane	Junki Honda Hiroyuki Sakaue Takayuki Takahagi Hitoshi Suzuki	10th international conference on Nano-molecular Electronics			PW03	2012
Intermixing aggregation of C ₆₀ and PCBM on Au(111) surface	Hitoshi Suzuki Keiji Todaka Hiroyuki Sakaue Takayuki Takahagi	10th international conference on Nano-molecular Electronics			PW07	2012
Quantitative analysis of disulfide molecules bound to gold nanoparticles	Shuichi Suzuki Hiroyuki Sakaue Hitoshi Suzuki Takayuki Takahagi	10th international conference on Nano-molecular Electronics			PW10	2012
Stress concentration in carbon fiber revealed by the quantitative analysis of X-ray crystallite modulus and Raman peak shift evaluated for the variously-treated monofilaments under constant tensile forces	Kobayashi T Sumiya K Fujii Y Fujie M Takahagi T Tashiro K	CARBON	53		29-37	2013
First-Principles Calculations of Potassium Amidoborane KNH ₂ BH ₃ : Structure and 39K NMR Spectroscopy	Keiji Shimoda Aki Yamane Takayuki Ichikawa Yoshitsugu Kojima	The Journal of Physical Chemistry C	116	39	20666-20672	2012
Formation of NaCl-type monodeuteride LaD by disproportionation reaction of LaD ₂	A. Machida M. Honda T. Hattori A. Sano-Furukawa T. Watanuki Y. Katayama K. Aoki K. Komatsu H. Arima H. Ohshita T. Otomo M. Tsubota K. Doi T. Ichikawa Y. Kojima D.Y. Kim	Physical Review Letters	108	20	205501	2012
Improvement of Reaction Kinetics by Metal Chloride on Ammonia and Lithium Hydride System	Hiroki Miyaoka Hironobu Fujii Hikaru Yamamoto Satoshi Hino Haruyuki Nakanishi Takayuki Ichikawa Yoshitsugu Kojima	International Journal of Hydrogen Energy	37	21	16025-16030	2012
Lithium hydrazide as a potential compound for hydrogen storage	Liang Zeng Keiji Shimoda Yu Zhang Hiroki Miyaoka Takayuki Ichikawa Yoshitsugu Kojima	International Journal of Hydrogen Energy	37	7	5750-5753	2012
Low-Temperature Water-splitting by Sodium Redox Reaction	Hiroki Miyaoka Takayuki Ichikawa Naoya Nakamura Yoshitsugu Kojima	International Journal of Hydrogen Energy	37	23	17709-17714	2012
Raman Scattering Study of Hydrogen Storage Material LiNH ₂	Akitaka Michigoe Takumi Hasegawa Norio Ogita Takayuki Ichikawa Yoshitsugu Kojima Shigenito Isobe Masayuki Udagawa	Journal of the Physical Society of Japan	81	9	094603(1-11)	2012

The anharmonic vibration of Li in lithium amide	B. Paik T. Hasegawa I. Ishii A. Michigoe T. Suzuki M. Udagawa N. Ogita T. Ichikawa Y. Kojima	Applied Physics Letters	100	15	151911(1-4)	2012
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Cryo-electron microscopy 3D structure of the jumbo phage RSL1 infecting the phytopathogen <i>Ralstonia solanacearum</i>	G. Effantin R. Hamasaki T. Kawasaki M. Bacia C. Moriscot W. Weissenhorn T. Yamada G. Schoehn	Structure	21	2	298-305	2013
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Loss of Virulence of the Phytopathogen <i>Ralstonia solanacearum</i> Through Infection by ϕ RSM Filamentous Phages	Hardian S. Addy Ahmed Askora Takeru Kawasaki Makoto Fujie Takashi Yamada	Phytopathology	102	5	469-477	2012
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Site-specific recombination systems in filamentous phages	A. Askora M. E. F. Abdel-Halim T. Yamada	Mol Genet Genomics	287	6	525-530	2012
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The genome of the polar eukaryotic microalga <i>Coccomyxa subellipsoidea</i> reveals traits of cold adaptation	G. Blanc I. Agarkova J. Grimwood A. Kuo A. Brueggeman D. Dunigan J. Garnon I. Ladunga E. Lindquist S. Lucas J. Pangilinan T. Prosschold A. Salamov J. Schmutz D. Weeks T. Yamada A. Lomsadze M. Borodovsky J.M. Claverie I. Grigoriev J. L. Van Etten	Genome Biology	13	-	R39 12 pages	2012
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Utilization of Filamentous Phage ϕ RSM3 to Control Bacterial Wilt Caused by <i>Ralstonia solanacearum</i>	H. S. Addy A. Askora T. Kawasaki M. Fujie T. Yamada	Plant Disease	96	8	1204-1209	2012
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Immunological and regenerative aspects of hepatic

Identification of chemotaxis sensory proteins for amino acids in <i>Pseudomonas fluorescens</i> Pf0-1 and their involvement in chemotaxis to tomato root exudate and root colonization	S. Oku A. Komatsu T. Tajima Y. Nakashimada J. Kato	Microbes Environ.	27	4	462-469	2012
Identification of the replication region of a 111-kb circular plasmid from <i>Rhodococcus opacus</i> B-4 by λ Red recombination-based deletion analysis	K. Honda M. Imura K. Okano T. Omasa J. Kato H. Ohtake	Biosci. Biotechnol. Biochem.	76	9	1758-1764	2012
Isolation and characterization of tetrahydrofuran-degrading <i>Rhodococcus aetherivorans</i> strain M8	T. Tajima N. Hayashida R. Matsumura A. Omura Y. Nakashimada J. Kato	Process Biochem.	47	11	1665-1669	2012
Isolation of thermophilic acetogens and their transformation with <i>pyrF</i> and <i>kanr</i> genes	Akihisa Kita Yuki Iwasaki Shinichi Yano Yutaka Nakashimada Tamotsu Hoshino Katsuji Murakami	Biotechnology, and Biochemistry	77	2	301-306	2013
Understanding of microbial diversity required for efficient methane production from marine biomass resources	Yutaka Nakashimada Naomichi Nishio	Proceedings of the 9th - Asia-Pacific Marine Biotechnology Conference	-	-	14S1-2	2012
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Construction of membrane-anchoring fusion protein of <i>Thermococcus kodakaraensis</i> glycerol kinase and its application to repetitive batchwise reactions	E. Restiawaty K. Honda K. Okano R. Hirota T. Omasa A. Kuroda H. Ohtake	J. Biosci. Bioeng.	113	4	521-525	2012
Isolation and characterization of a soluble and thermostable phosphite dehydrogenase from <i>Ralstonia</i> sp. strain 4506	R. Hirota S. Yamane T. Fujibuchi K. Motomura T. Ishida T. Ikeda A. Kuroda	J. Biosci. Bioeng.	113	4	445-450	2012
Synthetic metabolic engineering-a novel, simple technology for designing a chimeric metabolic pathway	X. Ye K. Honda T. Sakai K. Okano T. Omasa R. Hirota A. Kuroda H. Ohtake	Microbial Cell Factories	11	-	120 (1-11)	2012
Slot ring biosensors using silicon nitride waveguides with small temperature coefficient	A. Hirowatari T. Taniguchi T. Ikeda M. Fukuyama Y. Amemiya A. Kuroda S. Yokoyama	Proc. SPIE	8431	-	84311S	2012
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Prophylactic effect of <i>Lactobacillus</i> oral vaccine expressing a Japanese cedar pollen allergen	Ohkouchi K. Kawamoto S. Tatsugawa K. Takaoka Y. Yoshikawa N. Miyachi S. Aki T. Yamashita M. Murooka Y. Ono K.	J. Biosci. Bioeng.	113	4	536-541	2012
Diversity between PKS and FAS	Kenji Arakawa	Nature Chem. Biol.	8	7	604-605	2012
Indomethacin induces transition from asexual stage to sexual state in the moon jellyfish, <i>Aurelia aurita</i>	Hisato Kuniyoshi Izumi Okumura Rie Kuroda Kenji Arakawa Jun Shoji Tamio Saito Hiroyuki Osada	Biosci. Biotechnol. Biochem	76	7	1397-1400	2012
The butenolide signaling molecules SRB1 and SRB2 induce lankacidin and lankamycin production in <i>Streptomyces rochei</i>	Kenji Arakawa Naoto Tsuda Akihiro Taniguchi Haruyasu Kinashi	ChemBioChem			1447-1457	2012
Pisiferdiol restores the growth of a mutant yeast suffering from hyper-activated Ca(2+) -signaling through calcineurin inhibition.	Aburai N Yoshida J Kobayashi M Mizunuma M Ohnishi M Kimura K.	FEMS Yeast Res.	13	1	16-22	2013
TOR signaling and rapamycin influence longevity by regulating SKN-1/Nrf and DAF-16/FoxO.	Robida-Stubbs S Glover-Cutter K Lamming DW Mizunuma M Narasimhan SD Neumann-Haefelin E Sabatini DM Blackwell TK.	Cell Metab.	15	5	713-724	2012
Cleavage mechanism and anti-tumor activity of 3,6-epidioxy-1,10-bisaboladiene isolated from edible wild plants	K. Kimura Y. Sakamoto N. Jujiwawa S. Uesugik N. Aburai M. Kawada S. Ohba T. Yamori E. Tsuchiya H. Koshino	Bioorg. Med. Chem.	20		3887-3897	2012
Fission yeast RecQ helicase Rqh1 is required for the maintenance of circular chromosomes	T. Nanbu K. Takahashi J. M. Murray N. Hirata S. Ukimori M. Kanke H. Masukata M. Yukawa E. Tsuchiya M. Ueno.	Mol Cell Biol.	33	6	1175-1187	2013
Molecular cloning and characterization of L-galactose-1-phosphate from tobacco (<i>Nicotiana tabacum</i>).	S. Sakamoto Y. Fujikawa N. Tanaka M. Esaka	Biosci. Biochem. Biotech.	76	6	1155-1162	2012

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A Loss-of-function Mutation in the PAS Kinase Rim15p Is Related to Defective Quiescence Entry and High Fermentation Rates in <i>Saccharomyces cerevisiae</i> Sake Yeast Strains	D. Watanabe Y. Araki Y. Zhou N. Maeya T. Akao H. Shimoi	Appl. Environ. Microbiol.	78	11	4008-4016	2012
Identification of a gene involved in the synthesis of a dipeptidyl peptidase IV inhibitor in <i>Aspergillus oryzae</i> .	K. Imamura Y. Tsuyama T. Hirata S. Shiraishi K. Sakamoto O. Yamada O. Akita H. Shimoi	Appl. Environ. Microbiol.	78	19	6996-7002	2012
Overexpression of the Yeast Transcription Activator Msn2 Confers Furfural Resistance and Increases the Initial Fermentation Rate in Ethanol Production	Y. Sasano D. Watanabe K. Ukibe T. Inai I. Ohtsu H. Shimoi H. Takagi	J. Biosci. Bioeng.	113	4	451-455	2012
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A Physical Model for Leading Wave Crystallization Induced by Micro-Thermal-Plasma-Jet Irradiation to Amorphous Silicon Films	S. Hayashi Y. Fujita T. Kamikura K. Sakaïke M. Akazawa S. Higashi	Proc. Int. Symp. Dry Process (DPS2012)			23-24	2012
Activation of Phosphorus Atoms in Amorphous Si Films and Simultaneous Layer Transfer Technique by Near-infrared Semiconductor Diode Laser Irradiation	Yoshitaka Kobayashi Kohei Sakaïke Mitsuhisa Ikeda Seiichiro Higashi	Abs. 2012 Mat. Res. Soc. Spring Meeting			A6.9	2012
Characterization of As Implanted and Annealed Ge by Photoemission and Electrical Measurements	T. Ono A. Ohta H. Murakami S. Higashi S. Miyazaki	2012 International Conference on Solid State Devices and Materials(SSDM 2012)			PS-1-16 38-39	2012
Characterization of Resistance-Switching of Si Oxide Dielectrics Prepared by RF Sputtering	A. Ohta Y. Goto S. Nishigaki G. Wei H. Murakami S. Higashi S. Miyazaki	IEICE TRANSACTIONS on Electronics	E95-C	5	879-884.	2012

Characterization of Ultrathin Ta-oxide Films Formed on Ge(100) by ALD and Layer-by-Layer Methods	K. Mishima H. Murakami A. Ohta S. K. Sahari T. Fujioka S. Higashi S. Miyazaki	J. Phys.Conf. Series	417	1	12013	2013
Control of Crystal Growth Orientation by Micro-Thermal-Plasma-Jet Induced Melting and Solidification of Silicon Films on Porous Silicon Underlayer	S. Hayashi R. Matsubara Y. Fujita M. Ikeda K. Sakaïke S. Higashi	19th International Workshop on Active-Matrix Flatpanel Displays and Devices (AM-FPD),			P-34 219-222	2012
Control of Interfacial Reaction of HfO ₂ /Ge Structure by Insertion of Ta Oxide Layer	Kuniaki Hashimoto Akio Ohta Hideki Murakami Seiichiro Higashi Seiichi Miyazaki	2012 Asia-Pacific Workshop on Fundamentals and Applications of Advanced Semiconductor Devices AWAD2012			6B-1 219-224	2012
Control of Schottky Barrier Height at Al/p-Ge Junctions by Ultrathin Layer Insertion	A. Ohta M. Matsui H. Murakami S. Higashi S. Miyazaki	Joint Int. Meeting 222nd Electrochem. Soc. (ECS) Meeting and 2012 Fall Meeting Electrochem. Soc. Jpn. (PRiME 2012)			#3153	2012
Control of Schottky Barrier Height at Al/p-Ge Junctions by Ultrathin Layer Insertion	A. Ohta M. Matsui H. Murakami S. Higashi S. Miyazaki	ECS Trans	50	9	449-457.	2012
Crystallization of Amorphous Silicon Films by High-Frequency Tapping of Molten Silicon Using PiezoActuator	M. Akazawa Y. Zhou K. Sakaïke S. Hayashi H. Hanafusa S. Higashi	19th International Workshop on Active-Matrix Flatpanel Displays and Devices (AM-FPD),			P-33 215-218	2012
Determination of Energy Band Alignment in Ultrathin Hf-based Oxide/Pt System	A. Ohta H. Murakami S. Higashi S. Miyazaki	J. Phys.Conf. Series	417	1	12012	2013
Direct observation of grain growth from molten silicon formed by micro-thermal-plasma-jet irradiation	Shohei Hayashi Yuji Fujita Takahiro Kamikura Kohei Sakaïke Muneki Akazawa Mitsuhisa Ikeda Hiroaki Hanafusa Seiichiro Higashi	Appl. Phys. Letters	101		172111	2012
Dry Oxidation of Germanium (100) and (111) Surfaces - Impact of Oxidation Temperature on Ge Oxide Growth -	A. Ohta S. K. Sahari M. Ikeda H. Murakami S. Higashi S. Miyazaki	2012 International Conference on Solid State Devices and Materials(SSDM 2012)			D-5-1 743-744	2012

Electronic and Optoelectronic Response of Hybrid Nanodots Floating Gate MOS Devices	Seiichi Miyazaki Katsunori Makihara Mitsuhisa Ikeda Hideki Murakami	6th International WorkShop on New Group IV Semiconductor Nanoelectronics and JSPS Core-to Core Program Joint Seminar "Atomically Controlled Processing for Ultralarge Scale Integration"	2013
Evaluation of Chemical Bonding Features and Resistance Switching Behaviors of Ultrathin Si Oxide Dielectric Sandwiched Between Pt Electrodes	A. Ohta Y. Goto S. Nishigaki H. Murakami S. Higashi S. Miyazaki	Jpn. J. Appl. Phys	51 6 06FF02 2012
Evaluation of Chemical Composition and Bonding Features of Pt/SiOx/Pt MIM Diodes and Its Impact on Resistance Switching Behavior	Akio Ohta Katsunori Makihara Mitsuhisa Ikeda Hideki Murakami Seiichiro Higashi Seiichi Miyazaki	2012 Asia-Pacific Workshop on Fundamentals and Applications of	

Improvement of Low-Temperature-Deposited SiO ₂ and Si/SiO ₂ interface Properties by Thermal-Plasma-Jet Annealing and Heat Treatment in High-Pressure H ₂ O Vapor	Shunki Koyanagi Syouhei Hayashi Tsubasa Mizuno Kouhei Sakaike Hiroaki Hanafusa Seiitiro Higashi	2012 Asia-Pacific Workshop on Fundamentals and Applications of Advanced Semiconductor Devices AWAD2012	4C-4	95-98	2012
Investigation of Transfer Mechanism of Si Film with Mid-Air Structure Induced by Near-Infrared Semiconductor Diode Laser Irradiation	K. Sakaike Y. Kobayashi S. Nakamura M. Akazawa S. Higashi	Joint Int. Meeting 222nd Electrochem. Soc. (ECS) Meeting and 2012 Fall Meeting Electrochem. Soc. Jpn. (PRiME 2012)	#3064		2012
Kinetics of thermally oxidation of Ge(100) surface	S. K. Sahari A. Ohta M. Matsui K. Mishima H. Murakami S. Higashi S. Miyazaki	J. Phys.Conf. Series	417	1	12014 2013
Layer Transfer and Simultaneous Activation of Phosphorous Atoms in Silicon Films by Near-Infrared Semiconductor Diode Laser Irradiation	Y. Kobayashi K. Sakaike S. Nakamura M. Ikeda A. Ohta S. Higashi	Mat. Res. Soc.Symp. Proc.	1426		2012
Layer Transfer and Simultaneous Crystallization of Amorphous Si Films with Mid-Air Structure Induced by Near-Infrared Semiconductor Diode Laser Irradiation	K. Sakaike Y. Kobayashi S. Nakamura M. Akazawa M. Ikeda S. Higash	ECS Trans	50	8	43-48 2012
Layer Transfer and Simultaneous Crystallization of Amorphous Si Films with Mid-Air Structure Induced by Near-Infrared Semiconductor Diode Laser Irradiation and Its Application to Thin-Film Transistor Fabrication	K. Sakaike Y. Kobayashi S. Nakamura S. Hayashi M. Akazawa S. Higashi	Proc. Int. Symp. Dry Process (DPS2012)		113-114	2012
Leading Wave Crystallization from Fast Moving Molten Zone Formed by Micro-Thermal-Plasma-Jet Irradiation to Amorphous Silicon Films	S. Hayashi Y. Fujita T. Kamikura K. Sakaike M. Ikeda H. Hanafusa S. Higashi	2012 International Conference on Solid State Devices and Materials(SSDM 2012)		I-2-4 1047-1048	2012
Photoemission Study of GeO ₂ /Ge Structure Formed by Thermal Oxidation	H.Murakami Y.Ono A.Ohta S.Higashi S.Miyazaki	International Union of Materials Research Societies-International Conference on Electronic Materials 2012(IUMRS-ICEM2012)		B-1-O28-009	2012
Rapid Thermal Annealing of SiC Wafer by Atmospheric Pressure Thermal Plasma Jet Irradiration	R. Ashihara H. Hanafusa H. Murakami S. Hayashi S. Higashi	Proc. Int. Symp. Dry Process (DPS2012)		147-148	2012

Resistive switching behaviors of Si-rich oxide with Ti-based electrodes	A. Ohta M. Fukusima K. Makihara S. Higashi S. Miyazaki	5th International Symposium on Advanced plasma Science and its Applications for Nitrides and Nanomaterials (ISPlasma2013)	P.113	2013
SiGe Sputter Epitaxy Technique and Its Application to SiGe Devices	Yoshiyuki Suda Hiroaki Hanafusa Mitsuhiro Yoshikawa Manabu Kanazawa	Procedia Engineering 36	396-403	2012
Transfer of amorphous silicon films on mid-air structure to porous silicon and epitaxial growth induced by near-infrared semiconductor diode laser irradiation	S. Nakamura K. Sakaïke Y. Kobayashi S. Hayashi S. Higashi	Abs. 22nd Int. Photovoltaic Sci. Eng. Conf. (PVSEC-22)	2-O-26	2012
XPS Study of Energy Band Alignment between Hf-La Oxides and Si(100)	A. Ohta H. Murakami S. Higashi S. Miyazaki	International Union of Materials Research Societies-International Conference on Electronic Materials 2012(IUMRS-ICEM2012)	B-1-O27-011	2012
Analysis and Further Improvements of the Drain-Resistance Modeling in HiSIM_HV	T. Umeda H. Kikuchihara H. J. Mattausch M. Miura-Mattausch	Proc. 10th International Workshop on Compact Modeling	7 11	2013
Analysis and Modeling of Geometry Dependent Thermal Resistances in MOSFETs	X. Zhou T. Inoue M. Kitamura K. Matsuura M. Miyake T. Iizuka H. Kikuchihara M. Naito H. J. Mattausch J. He M. Miura-Mattausch	Proc. SSDM	104-105	2012
Characterization of Time Dependent Carrier Trapping In Poly-Crystalline TFTs and Its Accurate Modeling for Circuit Simulation	Y. Oodate H. Tanoue M. Miyake A. Tanaka Y. Shintaku T. Nakahagi A. Toda T. Iizuka H. Kikuchihara H.J. Mattausch M. Miura-Mattausch	Proc. SISPAD 2012	71-74	2012
Compact Modeling of Expansion Effect in LDMOS	T. Iizuka T. Sakuda Y. Oritsuki A. Tanaka M. Miyake H. Kikuchihara U. Feldmann H.J. Mattausch M. Miura-Mattausch	IEICE Trans Electronics	E95-C 11 1817-1823	2012
Compact Modeling of Floating-Base Effect in IGBT Based on Potential Modification by Accumulated Charge	T. Yamamoto M. Miyake M. Miura-Mattausch	Proc. SSDM	1239-1240	2012

Compact Modeling of the p-i-n Diode Reverse Recovery Effect Valid for both Low and High Current-Density Conditions	M. Miyake J. Nakashima M. Miura-Mattausch	IEICE Trans. Electron.	E95-C 10	1682-1688	2012	
Compact Modeling of the Punch-Through Effect in SiC-IGBT for 6.6kV Switching Operation with Improved Performance	M. Miyake F. Ueno D. Navarro M. Miura-Mattausch	Proc. ECSCRM		MoP-86	2012	
Compact physics-based modeling of semiconductor devices for circuit	M. Miura-Mattausch	Proc. 2013 German Physical Society (DPG) Spring Meeting		HL 47.1	2013	しと
Development of Predictive Model and Circuit Simulation Methodology for Negative Bias Temperature Instability Effects	C. Ma H.J. Mattausch M. Miyake M. Mattausch T. Iizuka K. Matsuzawa S. Yamaguchi T. Hoshida A. Kinoshita T. Arakawa J. He	Proc. SISPAD		213 - 216	2012	
Development of Unified Predictive NBTI Model and its Application for Circuit Aging Simulation	C. Ma H. J. Mattausch M. Miyake T. Iizuka K. Matsuzawa S. Yamaguchi T. Hoshida A. Kinoshita T. Arakawa J. He M. Miura-Mattausch	Proc. 10th International Workshop on Compact Modeling		47-50	2013	
Floating-Base Effect Modeling for IGBT Structure Using Potential Modification	T. Yamamoto M. Miyake M. Miura-Mattausch	Proc. 10th International Workshop on Compact Modeling		13-16	2013	
HiSIM-SOTB: A Compact Model for SOI-MOSFET with Ultra-Thin Si-Layer and BOX	M. Miura-Mattausch H. Kikuchihara U. Feldmann T. Nakagawa M. Miyake T. Iizuka H.J. Mattausch	NSTI-Nanotech 2012		792-795	2012	しと
Modeling of Chain-History Effect based on HiSIM-SOI	Y. Fukunaga M. Miyake A. Toda K. Kikuchihara S. Baba U. Feldmann H.J. Mattausch M. Miura-Mattausch	NSTI-Nanotech 2012		788-791	2012	
Modeling of DMOS Device for High-Voltage applications Based on 2D Current Flow	F. Ueno A. Tanaka M. Miyake T. Iizuka T. Yamamoto H. Kikuchihara H.J. Mattausch M. Miura-Mattausch	NSTI-Nanotech 2012		752-755	2012	

Modeling of the Impurity-Gradient Effect in High-Voltage Laterally Diffused MOSFETs	T. Iizuka K. Fukusima A. Tanaka T. Sakuda H. Kikuchihara M. Miyake H.J. Mattausch M. Miura-Mattausch	IEEE Trans. Electron Devices	60	2	684-690	2013		
Modeling of the Impurity-Gradient Effect in High-Voltage Laterally-Diffused MOSFETs	T. Iizuka K. Fukushima A. Tanaka T. Sakuda H. Kikuchihara M. Miyake H. J. Mattausch M. Miura-Mattausch	Proc. SSDM		E95-C	474-475	2012		
Modeling of Trench-Gate Type HV-MOSFETs for Circuit Simulation	T. Iizuka K. Fukushima A. Tanaka M. Ueno M. Miura-Mattausch	NSTI-Nanotech 2012			748-751	2012		
On the choice of cascade de-embedding methods for on-wafer S-parameter measurement	S. Amakawa K. Takano K. Katayama M. Motoyoshi T. Yoshida M. Fujishima	International Symposium on Radio-Frequency Integration Technology (RFIT)	2012	-	137-139	2012		
On the length of THRU standard for TRL de-embedding on Si substrate above 110 GHz	A. Orii M. Suizu S. Amakawa K. Katayama K. Takano M. Motoyoshi T. Yoshida M. Fujishima	International Conference on Microelectronic Test Structures (ICMTS)	2013	-	81-86	2013		
Specific Features of SiC-IGBT with 13kV Switching	M. Ueno M. Miyake M. Miura-Mattausch	Proc. the 24th Int'l Symposium on Power Semicond. Dev. & IC's			261-264	2012		
Surface Potential Based Modeling of Organic Thin-Film Transistor for Circuit Simulation	T. K. Maiti T. Hayashi H. Mori J. Kang L. Chen K. Takimiya M. Miura-Mattausch H. J. Mattausch	Proc. 10th International Workshop on Compact Modeling			27-32	2013		
The Second-Generation of HiSIM_HV Compact Models for High-Voltage MOSFETs	H.J. Mattausch M. Miyake T. Iizuka H. Kikuchihara M. Miura-Mattausch	IEEE Trans. Electron Devices	60	2	653-661	2013		
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Characteristic impedance determination technique for CMOS on-wafer transmission line with large substrate loss	K. Takano S. Amakawa K. Katayama M. Motoyoshi M. Fujishima	79th Automatic RF Techniques Group Conf. (ARFTG)	2012	-	-	2012		
118GHz CMOS amplifier with group delay variation of 11.2ps and 3dB bandwidth of 20.4GHz	A. Orii K. Katayama M. Motoyoshi K. Takano M. Fujishima	2012 International Meeting for Future of Electron Devices, Kansai (IMFEDK)			1-2	2012		

135 GHz 98 mW 10 Gbps ASK transmitter and receiver chipset in 40 nm CMOS	N. Ono M. Motoyoshi K. Takano K. Katayama R. Fujimoto M. Fujishima	2012 Symposium on VLSI Circuits (VLSIC)	50-51	2012	
14.4mW 10Gbps CMOS limiting amplifier with local DC offset cancellers	K. Takano R. Fujimoto M. Motoyoshi K. Katayama M. Fujishima	2013 IEEE Radio and Wireless Symposium (RWS)	235-237	2013	
28mW 10Gbps transmitter for 120GHz ASK transceiver	K. Katayama M. Motoyoshi K. Takano Naoko Ono M. Fujishima	2012 IEEE MTT-S International Microwave Symposium (IMS)	1-3	2012	
80GHz 12.2mW p-MOS cross-coupled CMOS LC oscillator	S. Tanimori K. Katayama M. Motoyoshi K. Takano M. Fujishima	2012 International Meeting for Future of Electron Devices, Kansai (IMFEDK)	1-2	2012	
A 113 GHz 176 mW transmitter and receiver chipset using 65 nm CMOS technology	N. Ono M. Motoyoshi K. Takano K. Katayama R. Fujimoto M. Fujishima	2012 Asia-Pacific Microwave Conference Proceedings (APMC)	439-441	2012	
A 120 GHz/140 GHz dual- channel OOK receiver using 65 nm CMOS technology	R. Fujimoto M. Motoyoshi K. Takano M. Fujishima	IEICE Trans. on Fundamentals of Electronics, Communications and Computer Sciences	E96-A 2	486-493	2013
A 120-GHz transmitter and receiver chipset with 9-Gbps data rate using 65-nm CMOS technology	R. Fujimoto M. Motoyoshi K. Takano Uroschanit Yodprasit M. Fujishima	IEICE Transactions on Electronics	E95-C 7	1154-1162	2012
A 36-channel Neural Recoding Chip for Brain Machine Interface	T. Yoshida H. Ando M. Ono Y. Murasaka A. Iwata T. Suzuki K. Matsushita M. Hirata	Extended Abstracts of the 2012 International Conference on Solid State Devices and Materials (Kyoto, 2012)	-	-	2012
A Fully Implantable Wireless BMI System Using Electrocochlogram (System Evaluation)	T. Suzuki K. Matsushita T. Umeda H. Watanabe H. Ando T. Yoshida Y. Nishimura T. Nishimura T. Yoshimine M. Hirata	34th Annual Int. Conf. of the IEEE EMBS 2012	-	ThD08.78	2012
Bias-voltage-dependent subcircuit model for millimeter-wave CMOS circuit	K. Katayama M. Motoyoshi K. Takano R. Fujimoto M. Fujishima	IEICE Transactions on Electronics	E95-C 6	1077-1085	2012
Evaluation of de-embedding technique accuracy depending on de-embedding patterns for CMOS circuits up to 110 GHz	N. Ono K. Takano M. Motoyoshi K. Katayama M. Fujishima	2012 7th European Microwave Integrated Circuits Conference (EuMIC)	548-551	2012	

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Millimeter-Wave and Terahertz CMOS Design	M. Fujishima	2012 IEEE 11th International Conference on Solid-State and Integrated Circuit Technology (ICSICT)			1-4	2012
Motor Restoration Based on the Brain-Machine Interface Using Brain Surface Electrodes: Real-Time Robot Control and a Fully Implantable Wireless System	Masayuki Hirata Kojiro Matsushita Takufumi Yanagisawa Tetsu Goto Shayne Morris Hiroshi Yokoi Takafumi Suzuki Takeshi Yoshida Fumihiko Sato Osamu Sakura Yukiyasu Kamitani Toshiki Yoshimine	Advanced Robotics	26	3-4	399-408	2012
Short-millimeter-wave CMOS design for ultrahigh-speed wireless communication	M. Fujishima	2012 IEEE Compound Semiconductor IC Symposium			1-4	2012
Short-millimeter-wave CMOS design for ultrahigh-speed wireless communication	M. Fujishima	2012 Asia-Pacific Microwave Conference			103-105	2012
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102.4 GS/s Impulse Sampling Circuit with Low Power and Low Timing Error Clock Generation	A. Toya K. Sogo N. Sasaki T. Kikkawa	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012)			1142-1143	2012
-119.1 dBc/Hz Phase Noise Ring-VCO-Based PLL CMOS Circuit Using A Tunable Narrow-Deadzone Creator in Frequency Locked Loop	K. Sogo A. Toya T. Kikkawa	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012)			1154-1155	2012
125mW 102.4 GS/s Ultra-High-Speed Sampling Circuit for Complementary Metal-Oxide-Semiconductor Breast Cancer Detection System	Akihiro Toya Kenta Sogo Nobuo Sasaki Takamaro Kikkawa	Japanese journal of applied physics		52	04CE07-1-04CE07-6	2013
A K-means-based Multi-prototype High-speed Learning System with FPGA-implemented Coprocessor for 1-NN Searching	F. An T. Koide H. J. Mattausch	IEICE Trans. on Information & Systems	E95-D	9	2327-2338	2012
A novel chemically, thermally and electrically robust Cu interconnect structure with an organic non-porous ultralow-k dielectric fluorocarbon (k=2.2)	X. Gu A. Teramoto R. Kuroda Y. Tomita T. Nemoto S. Kuroki S. Sugawa T. Ohmi	Proceeding of 2012 IEEE Symposium on VLSI Technology			119-120	2012
A Ring-VCO-Based Sub-Sampling PLL CMOS Circuit with 0.73 ps Jitter and 20.4 mW Power Consumption	Kenta Sogo Akihiro Toya Takamaro Kikkawa	The 18th Asia and South Pacific Design Automation Conference University Design Contest	Id-16		253-256	2013

A Ring-VCO-Based Sub-Sampling PLL CMOS Circuit with -119.1 dBc/Hz Phase Noise and 0.73 ps Jitter	K. Sogo A. Toya T. Kikkawa	the 38th European Solid-State Circuits Conference			253-256	2012
Application of Composite Haar-like Features to Vehicle Detection with Massive-Parallel Memory-Embedded SIMD Matrix Processor	M. Omori H. Hiramoto T. Koide H. J. Mattausch	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012)			1138-1139	2012
Application of SPR imaging for detection of individual living cell activation	Y. Yanase T. Kawaguchi K. Ishii K. Sakamoto R. Miyake M. Hide	Proc. of ISMM 2012				2012
Associative Memory for Nearest-Hamming Distance Search Based on Frequency Mapping	H. J. Mattausch W. Imafuku A. Kawabata T. Ansari M. Yasuda T. Koide	IEEE Journal of Solid-State Circuits	47	6	1448-1459	2012
Benchmarking of a Surface Potential Based Organic Thin-Film Transistor Model against C10-DNTT High Performance Test Devices	T. K. Maiti T. Hayashi H. Mori M. J. Kang M. Miyake T. Iizuka K. Takimiya M. Miura-Mattausch H.J. Mattausch	Proceedings of the 2013 IEEE International Conference on Microelectronic Test Structures (ICMTS' 2013),			157-161	2013
Characteristics of metal-oxide-semiconductor field-effect transistors with a functional gate using trap charging for ultralow power operation	Takashi Kudo Takashi Ito Anri Nakajima	J. Vac. Sci. & Technol. B	31	1	012206-1-012206-7	2013
Charge redistribution in a charge storage layer containing C60 molecules and organic polymers for long electron retention	A. Nakajima M. Uchino	Appl. Phys. Lett.	5	11	213301 (1-4)	2012
Cluster-based Prototype Learning System for Multiple Applications with Flexible HW/SW Codesign	F. An H. J. Mattausch	Proceedings of 13th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT'2012)			416-419	2012
Compact Planar UWB Antenna Array for Breast Cancer Detection	T. Sugitani S. Kubota A. Toya T. Kikkawa	Proc. of 2012 IEEE International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting			1-2	2012
COMPUTER AIDED DIAGNOSIS SYSTEM FOR PREDICTING MUCOSAL GASTRIC CANCER UNDER MAGNIFYING ENDOSCOPY WITH FLEXIBLE SPECTRAL IMAGING COLOR ENHANCEMENT	S. Yoshida R. Miyaki S. Tanaka Y. Kominami T. Matsuo Y. Sanomura S. Oka T. Tamaki B. Raytchev K. Kaneda T. Koide M. Yoshihara K. Chayama	UEG Week Amsterdam 2012 (UEGWEEK2012)			1220	2012

Cu Single Damascene Integration of an Organic Nonporous Ultralow-k Fluorocarbon Dielectric Deposited by Microwave-Excited Plasma-Enhanced CVD	X. Gu T. Nemoto Y. Tomita A. Teramoto R. Kuroda S. Kuroki K. Kawase S. Sugawa T. Ohmi	IEEE Trans. Electron Devices	59	5	1445-1453	2012
Die-to-Die and Within-Die Fabrication Variation of 65nm CMOS Technology PMOS Transistors	A.A. Khan Y. Ohnari A. Dutta S. Singh M. Miura-Mattausch H.J. Mattausch	Proc. of the 2013 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT' 2013)			1 6	2013
Die-to-Die and Within-Die Variation Extraction for Circuit Simulation with Surface-Potential Compact Model	Y. Ohnari A.A. Khan A. Dutta M. Miura-Mattausch H.J. Mattausch	Proceedings of the 2013 IEEE International Conference on Microelectronic Test Structures (ICMTS' 2013)			146-150	2013
Differential Si Ring Optical Resonator Biosensors	T. Taniguchi Y. Amemiya T. Ikeda A. Kuroda S. Yokoyama	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012)			1097-1098	2012
Digital Associative Memory for Word-Parallel Manhattan-Distance-Based Vector Quantization	S.Sasaki M. Yasuda H. J. Mattausch	Proceedings of the 38th European Solid-State Circuits Conference (ESSCIRC'2012)			185-188	2012
Electro-optic polymer/TiO2 multilayer slot waveguide modulators	Y. Enami B. Yuan M. Tanaka J. Luo A. K-Y. Jen	Appl. Phys. Lett.	101	12	123509(1-4)	2012
Experimental Analysis of Within-Die Process Variation in 65 nm and 180 nm CMOS Technology Including its Distance Dependences	T. Ansari W. Imafuku M. Yasuda H. J. Mattausch T. Koide	Jpn. J. Appl. Phys.	51	4	04DE03 (1-8)	2012
FIN PLATE STRUCTURES AT THE BOTTOM OF PDMS MICROCHANNEL TO ENHANCE PRESSURE DURABILITY WITHOUT SURFACE TREATMENT	K. Aritome Y. Takahata R. Miyake Y. Murakami	Proc. of ISMM 2012				2012
Gaussian Monocycle Pulse CMOS Transmitter with On-Chip Integrated Antenna and High-k Dielectric Slab Waveguide(invited)	T. Kikkawa	2012 IEEE 11th International Conference on Solid-State and Integrated Circuit Technology			S15_01	2012
Hardware Enhanced Clustering Algorithm for Machine Learning and Multimedia Applications	F. An H. J. Mattausch	Proceedings of IET International Conference on Information Science and Control Engineering (ICISCE '2012)			451-455	2012

High Sensitive Biosensors with Slot and Stack-Type Structure using Silicon Nitride Waveguides	Y. Amemiya A. Hirowatari T. Taniguchi T. Ikeda M. Fukuyama A. Kuroda S. Yokoyama	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012)			. 362-363	2012
High Speed Frequency-Mapping-Based Associative Memory using Compact Multi-Bit Encoders and a Path-Selecting Scheme	S. Sasaki M. Yasuda A. Kawabata T. Koide H. J. Mattausch	Jpn. J. Appl. Phys.	51	4	04DE05 (1-7)	2012
High-speed data acquisition system for micro-fluidic HILS	Y. Maekawa R. Miyake	Proc. of ISMM 2012				2012
HiSIM-IGBT: A Compact Si-IGBT Model for Power Electronic Circuit Design	M. Miyake D. Navarro U. Feldmann H.J. Mattausch T. Kojima T. Ogawa T. Ueta	IEEE Trans. on Electron Devices	60	2	571-579	2013
Human Recognition with a Hardware-Accelerated Multi-Prototype Learning and Classification System	I. B. Wicaksono F. An H. J. Mattausch	Proceedings of the IEEE International Conference on Robotics and Biomimetics (ROBIO '2012)			1507-1512	2012
Influence of Breast Organisms and UWB Antenna Array Configuration on the Resolution of Breast Cancer Detection	T. Sugitani S. Kubota A. Toya X. Xiao T. Kikkawa	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012)			360-361	2012
In-Plane Grain Orientation Alignment of Polycrystalline Silicon Films by Normal and Oblique-Angle Ion Implantations	A. Nakajima S. Kuroki S. Fujii T. Ito	Jpn. J. Appl. Phys.	51	4	04DH03 (1-4)	2012
Integration Process Development for Improved Compatibility with Organic Non-Porous Ultralow-k Dielectric Fluorocarbon on Advanced Cu Interconnects	X. Gu Y. Tomita T. Nemoto K. Miyatani A. Saito Y. Kobayashi A. Teramoto R. Kuroda S. Kuroki K. Kawase T. Nozawa T. Matsuoka S. Sugawa T. Ohmi	Jpn. J. Appl. Phys.	51	5	05EC03 (1-6)	2012
Layered Low-k Porous Silica Zeolite Films for Inter-Metal Dielectric with High Elastic Modulus	T. Yamamoto T. Sato Y. Seino K. Hattori S. Kuroki T. Kikkawa	Extend. Abst. Int. Conf. on Solid State Devices and Materials (SSDM2012)			58-59	2012
Low-k Mesoporous Pure Silica Zeolite with High Elastic Modulus Using 1,3,5,7-Tetra-Methyl-Cyclo-Tetra-Siloxane and Ultraviolet Treatments	Tadashi Sato Takafumi Yamamoto Yuki Hata Yutaka Seino Yasuhisa Kayaba Shin-Ichiro Kuroki Takamaro Kikkawa	ECS J. Solid State Sci. Technol.	2	4	N89-N92	2013

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Studies on fatty acid-derived flavors produced by fungi				2012
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Development of Technology for Efficient C ₄ Chemical Production by Useful Microorganisms				2013
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Molecular mechanism of hyaluronan synthesis on <i>Chlorella</i> and plant cells exerted by chlorovirus enzymes	RAKKHUMKAEW NUMFON			2013
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