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リスト内の《 》表記は、オンラインジャーナル等の論文番号およびそれに関連する情報を示すものです。

相関基礎科学系

青木 貴稔 (Takatoshi Aoki)

M. Taglieber, A.-C. Voigt, T. Aoki, T. W. Hänsch, and K. Dieckmann, Quantum Degenerate Two-Species Fermi-Fermi Mixture Coexisting with a Bose-Einstein Condensate. *Phys. Rev. Lett.* **100**, 010401, 2008.

石原 孝二 (Kohji Ishihara)

石原 孝二. 「心・脳・機械・脳科学技術の現在」, 岩波講座『哲学』第五巻(村田純一編集), 岩波書店, 2008年5月, pp. 175–194.
石原 孝二. 北海道大学科学技術コミュニケーションユニット編著『はじめよう！科学技術コミュニケーション』ナカニシヤ出版(編集委員, 第8章「人文・社会科学と科学技術コミュニケーション」pp. 72–79 分担執筆)2007年12月.
石原 孝二. 「環境政策と予防原則」, 日本公共政策学会・中央大学21世紀COEプログラム編, 細野助博・森田朗・城山英明監修『科学技術の公共政策』中央大学出版部, 2007年12月, pp. 78–82.
Ishihara, K. "Reductionism in the synthetic approach in cognitive science and Phenomenology. Rethinking Dreyfus' critique of AI," in Cheung Chan-Fan and Yu-Chung-Chi (eds.), *Phenomenology 2005*, Volume I: *Selected Essays from Asia*, Zeta Books, Bucharest, Dec. 2007, pp. 211–228.

石原 秀至 (Shuji Ishihara)

Fujimoto, K., Ishihara, S., Kaneko K. Network Evolution of Body Plans. *PLoS One*, **3**(7), e2772, 2008.
Ishihara S., Shibata, T. Mutual interaction in network motifs robustly sharpens gene expression in developmental processes. *J. Theor. Biol.*, **252**, 131–144, 2008.

猪野 和住 (Kazusumi Ino)

Seki, H. and Ino, K. Incompressible Liquid, Stripes and Bubbles in rapidly rotating Bose atoms at $v = 1$. *Phys. Rev. A* **77**, 245120, 2008.

今井 知正 (Tomomasa Imai)

今井 知正. 直知の原理の射程と限界 (B.A.W. ラッセル). 命題コレクション 哲学(坂部恵・加藤尚武編). 328–335. 筑摩書房(東京), 2008.

今井 良宗 (Yoshinori Imai)

Kato, M., Imai, Y., Kajita, T., Takarabe, Y., Minakawa, T., Nemoto, K., Tezuka, H., Noji, T., Koike, Y. Synthesis of oxide superconductors by soft-chemical techniques *Materials Science and Engineering B*, **148**, 53–57, 2008.
今井 良宗, 加藤 雅恒, 小池 洋二. アルカリ金属水酸化物溶融塩を用いた酸化物超伝導体の低温合成. 固体物理, **43**, 507–517, 2008.

榎本 真哉 (Masaya Enomoto)

Kida, N., Enomoto, M., Watanabe, I., Suzuki, T., Kojima, N. Spin dynamics of the charge-transfer phase transition of an iron mixed-valence complex observed using muon spin relaxation spectroscopy. *Phys. Rev. B*, **77**, 144427–1–5, 2008.

遠藤 泰樹 (Yasuki Endo)

Yoshikawa, T., Sumiyoshi, Y., Takada, H., Hoshina, K., and Endo, Y.. Laser induced fluorescence spectroscopy of NC_3O . *J. Chem. Phys.*, **128**, 204308, 2008.
Mizoguchi, A., Ota, S., Kanamori, H., Sumiyoshi, Y., and Endo, Y.. Analysis of the nuclear quadrupole interaction of Disulfur Dichloride, S_2Cl_2 . *J. Mol. Spectrosc.*, **250**, 86–97, 2008.

大川 祐司 (Yuji Okawa)

Kiermaier, M., Okawa, Y., Rastelli, L., Zwiebach, B. Analytic solutions for marginal deformations in open string field theory. *JHEP* **0801**, 028, 2008.

岡本 拓司 (Takuji Okamoto)

岡本 拓司. 実験と機器に向かい合う. 科学史・科学哲学. **21**, 3–18, 2008.

小川 桂一郎 (Ogawa Keiichiro)

Harada, J., Fujiwara, T., Ogawa, K. Crucial role of fluorescence in the solid-state thermochromism of salicylideneanilines. *J. Am. Chem. Soc.*, **129**, 16216–16221, 2007.
Harada, J., Nakajima R., Ogawa, K. X-ray diffraction analysis of photochromic reaction of fulgides: Crystalline state reaction induced by two-photon excitation. *J. Am. Chem. Soc.*, **130**, 7085–7091, 2008.
Yamamura, M., Kano, N., Kawashima, T., Matsumoto, T., Harada, J., Ogawa, K. Crucial role of N–Si interactions in the solid-

業績リスト

state coloration of disilylazobenzenes. *J. Org. Chem.*, **73**, 8244–8249, 2008.
Harada, J., Harakawa, M., Ogawa, K. Conformational change of all-trans-1,6-diphenyl-1,3,5-hexatriene in two crystalline forms. *CrystEngComm*, **10**, 1777–1781, 2008.

鹿児島 誠一 (Seiichi Kagoshima)

Kowada, H., Kondo, R., Kagoshima, S. Development of Uniaxial Elongation Method and Its Application to Low Dimensional Conductors. *J. Phys. Soc. Jpn.*, **76**, 114710-1–5, 2007.
Kondo, R., Otsuji, J., Kagoshima, S., Nogami, Y. Hump Like Resistance Anomaly in Organic Conductor β'' -(BEDT-TTF)₂CsCd(SCN)₄. *J. Phys. Soc. Jpn.*, **77**, 063702-1–4, 2008.

風間 洋一 (Yoichi Kazama)

Kazama, Y., Yokoi, N. Superstring in the plane-wave background with RR flux as a conformal field theory, *JHEP*, **0803**, 057, 2008.
風間 洋一. 超弦理論の進展. パリティー, **23**(1), 34–35, 2008.
風間 洋一. 対称性とは何か. 別冊・数理科学: 対称性と保存則. 19–27. サイエンス社(東京), 2008.

加藤 光裕 (Mitsuhiro Kato)

Kato, M., Sakamoto, M., So, H. Taming the Leibniz Rule on the Lattice. *JHEP*, **0805**, 057, 2008.

加藤 雄介 (Yusuke Kato)

Nagai, Y., Kato, Y., Hayashi, N., Yamauchi, K., Harima H. Calculated Positions of Point Nodes in the Gap Structure of the Borocarbide Superconductor YNi₂B₂C. *Phys. Rev. B*, **76**, 214514-1–8, 2007.
Kato, Y., Nishiwaki, H., Fujita, A. Mechanism of Anomalous Tunneling in Condensed Bose System. *J. Phys. Soc. Jpn.*, **77**, 013602-1–4, 2008.

金子 邦彦 (Kunihiro Kaneko)

Pfeuty, b., David-Pfeuty, T. and Kaneko, K. Underlying Principles of cell fate determination during G1 phase of the mammalian cell cycle, *Cell Cycle* **7**, 1–13, 2008.
Kaneko, K., Shapring Robust System Through Evolution, *Chaos*, **18**, 026112, 2008.
Kaneko, K. and Furusawa, C., Relevance of Phenotypic Noise to Adaptation and Evolution (review), *IET Systems Biology*, **2**, 234–246, 2008.
Kaneko, K. and Furusawa, C., Consistency Principle in Biological Dynamical Systems, *Theory in Biosciences*, **127**, 195–204, 2008.
Nakajima, A. and Kaneko, K. Regulative Differentiation as Bifurcation of Interacting Cell Population, *J. Theor Biol.* **253**, 779–787, 2008.
Inoue, M. and Kaneko, K., Conditions for self-consistent aggregation by chemotactic particles, *Phys. Rev. E* **77**, 041916, 2008.
Kaneko, K., Sato, K., Michiue, T., Okabayashi, K., Ohnuma, K., Danno, H. and Asashima, M. Developmental Potential Describing Morphogenesis in vivo and in vitro, *J Experimental Zoology B* **310**, 492–503, 2008.
Fujimoto, K., Ishihara, S. and Kaneko, K. Network Evolution of Body Plans, *PLoS ONE*, **3**, e2772, 2008.
Furusawa C. and Kaneko, K., A generic mechanism for adaptive growth rate regulation, *PLoS Computational Biology*, **4**, e3, 2008.
Toyota, T., Takakura, K., Kageyama, Y., Kurihara, K., Maru, N., Ohnuma, K., Kaneko, K., and Sugawara, T., Flow Cytometric Investigation of Self-Reproducing Giant Multilamellar Vesicles. *Langmuir*, **24**, 3037–3044, 2008.
Kaneko, K., Constructive Approach to Protocell: Theory and Experiments. *Protocells: Bridging Nonliving and Living Matter*, Edited by Steen Rasmussen et al. MIT press, 2008.
金子 邦彦. 細胞分化の不可逆性とその巻き戻し. 現代思想「万能細胞——人は再生できるか」vol.36-8(編集, 池上善彦). 82–93. 青土社(東京), 2008.
金子 邦彦. 可塑性, ゆらぎ, 進化. ダイナミックスからみた生命的システムの進化と意義(研究代表者, 津田一郎). 113–122. 財団法人国際高等研究所(京都), 2008.

菊川 芳夫 (Yoshio Kikukawa)

Kikukawa, Y., Kohda, M., Yasuda, J. First-order restoration of SU(Nf) × SU(Nf) chiral symmetry with large Nf flavor and Electroweak phase transition. *Phys. Rev. D*, **77**, 015014, 2008.
Kadoh, D., Kikukawa, Y. A simple construction of fermion measure term in U(1) chiral lattice gauge theories with exact gauge invariance. *JHEP*, **0802**, 063, 2008.
Kadoh, D., Kikukawa, Y. A construction of the Glashow-Weinberg-Salam model on the lattice with exact gauge invariance. *JHEP*, **0805**, 095, 2008.

相関基礎科学系

久我 隆弘 (Takahiro Kuga)

- Taniyama, H., Notomi, M., Kuramochi, E., Yamamoto, T., Yoshikawa, Y., Torii, Y., Kuga, T. Strong radiation force induced in two-dimensional photonic crystal slab cavities. *Phys. Rev. B* **78**, 165129-1-7, 2008.
Yamamoto, T., Notomi, M., Taniyama, H., Kuramochi, E., Yoshikawa, Y., Torii, Y., Kuga, T. Design of a high-Q air-slot cavity based on a width-modulated line-defect in a photonic crystal slab. *Optics Express* **16**, 13809-13817, 2008.
Yoshikawa, Y., Nakayama, K., Torii, Y., Kuga, T. Holographic storage of multiple coherence gratings in a Bose-Einstein condensate. *Phys. Rev. Lett.* **99**(22), 220407-1-4, 2007.
久我 隆弘. 冷却光線の話. 21世紀の物質科学 (東京大学物性研究所編), 1-15, 培風館, 2008.

国場 敦夫 (Atsuo Kuniba)

- Kuniba, A., Sakamoto, R. Combinatorial Bethe ansatz and generalized periodic box-ball system. *Reviews. Math. Phys.* **20**, 493-527, 2008.

黒田 直史 (Naofumi Kuroda)

- Kuroda, N., Torii, H.A., Shibata, M., Nagata, Y., Barna, D., Hori, M., Horváth, D., Mohri, A., Eades, J., Komaki, K., Yamazaki, Y. Radial Compression of an Antiproton Cloud for Production of Intense Antiproton Beams. *Phys. Rev. Lett.* **100**, 203402-1-4, 2008.
Knudsen, H., Kristiansen, H.-P.E., Thomsen, H.D., Uggerhøj, U.I., Ichioaka, T., Møller, S.P., Hunniford, C.A., McCullough, R.W., Charlton, M., Kuroda, N., Nagata, Y., Torii, H.A., Yamazaki, Y., Imao, H., Andersen, H.H., Tökesi, K. Ionization of Helium and Argon by Very Slow Antiproton Impact, *Phys. Rev. Lett.* **101**, 043201-1-4, 2008.

小島 憲道 (Norimichi Kojima)

- Kida, N., Enomoto, M., Watanabe, I., Suzuki, T., Kojima, N. Spin Dynamics of the Charge Transfer Phase Transition of an Iron Mixed-Vulence Complex Observed Using Muon Spin Relaxation Spectroscopy. *Phys. Rev. B* **77**, 144427-1-5, 2008.
加藤 礼三, 小島 憲道, 常行 真司, 寺倉 清之, 福山 秀敏 編. 「生物物質科学 - 金属を含む分子系を中心に -」, 固体物理(特集号), **43**, 693-872, 2008.
小島 憲道. 配位子場理論と金属錯体の光学的性質, 『金属錯体の現代物性化学』, 1-38, 三共出版, 2008.
小島 憲道. 遷移金属錯体の磁気的性質, 『金属錯体の現代物性化学』, 57-72, 三共出版, 2008.
小島 憲道. SI単位系とCGS単位系, 『金属錯体の現代物性化学』, 407-409, 三共出版, 2008.

小宮山 進 (Susumu Komiyama)

- Nickels, P., Matsushita, M., Minamoto, M., Komiyama, S., Sugawara, T. Control of Co-tunnelling Current in Nanoparticle Networks by Spin-Polarized Wire Molecules. *Small*, **4**, 471-475, 2008.
Ueda, T., An, Z., Hirakawa, K., Komiyama, S. Charge sensitive infrared phototransistors: Characterization by an all-cryogenic spectrometer. *J. Appl. Phys.* **103**, 093109(1-7), 2008.
Sugawara, T., Minamoto, M., Matsushita, M., Nickels, P., Komiyama, S. Cotunneling current affected by spin-polarized wire molecules in networked gold nanoparticles. *Phys. Rev. B* **77**, 235316(1-7), 2008.
Spirin, K.E., Morozov, S.V., Gavrilenko, V.I., Kawaguchi, Y., Komiyama, S. Magnetic field dependence of the photoresponse time of GaAs/AlGaAs quantum Hall effect device. *Semicond Science & Technology*, **23**, 95014(1-5), 2008.
Nakajima, T., Ueda, T., Komiyama, S. Quantum Hall transitions in mesoscopic devices. *Physica E*, **40**, 1285-1287, 2008.
Ueda, T., An, Z., Hirakawa, K., Komiyama, S. Single photon detection in the long wave infrared. Springer proceedings in physics "Narrow gap semiconductors 2007" 171-176, 2007.
Oda, N., Komiyama, S. "Sponsored Research" Developmenet of Remote Imaging Technologies at Teraherts Frequency. *J. of the National Institute of Information and Communications Technology*, **55**(1), 159-164, 2008.
小宮山 進. テラヘルツ単一光子検出器とパッシブ顕微鏡の開拓. 「光学」(日本光学会). **37**(8), 461-468, 2008.

近藤 隆祐 (Ryusuke Kondo)

- Kondo, R., Otsuji, J., Kagoshima, S., Nogami, Y. Hump Like Resistance Anomaly in Organic Conductor β'' -(BEDT-TTF)₂CsCd(SCN)₄. *J. Phys. Soc. Jpn.* **77**, 063702, 2008.
Kobayashi, A., Suzumura, Y., Higa, M., Kondo, R., Kagoshima, S., Nishikawa, H. Charge ordered metal and pressure-induced superconductivity in the two-dimensional organic conductor β'' -(DODHT)₂PF₆. *J. Phys. Cond. Matt.*, **20**, 125205, 2008.
Watanabe, S., Kondo, R., Kagoshima, S., Shimano, R. Spin-density-wave gap in (TMTSF)₂PF₆ probed by reflection-type terahertz time-domain spectroscopy. *Phys. Stat. Sol. (b)*, **245**, 2688-2691, 2008.

堺 和光 (Kazumitsu Sakai)

- Motegi, K., Sakai, K. Form factors and correlation functions of an interacting spinless fermion model. *Nucl. Phys. B* **793**, 451-468, 2008.
Motegi, K., Sakai, K. Correlation functions of an interacting spinless fermion model at finite temperature. *J. Stat. Mech.*, P02005, 2008.

業績リスト

酒井 邦嘉 (Kuniyoshi Sakai)

- Kinno, R., Kawamura, M., Shioda, S., Sakai, K. L. Neural correlates of non-canonical syntactic processing revealed by a picture-sentence matching task. *Hum. Brain Mapp.*, **29**, 1015–1027, 2008.
- Momo, K., Sakai, H., Sakai, K. L. Syntax in a native language continues to develop in adults: Honorification judgment in Japanese. *Brain Language*, **107**, 81–89, 2008.
- Iijima, K., Fukui, N., Sakai, K. L. Visualization of temporal events in syntactic and semantic analyses for two-word sentences. *Neurosci. Res.*, **61**, Suppl. 1, S45, O1–F10, 2008.
- Yamamoto, Y., Maki, A., Sakai, K. L. Visualization of lateralized anatomical connections among functionally identified language-related regions. *Neurosci. Res.*, **61**, Suppl. 1, S46, O1–F12, 2008.
- Kinno, R., Muragaki, Y., Hori, T., Maruyama, T., Kawamura, M., Sakai, K. L. Unexpected grammatical deficits in patients with a focal glioma in the left frontal cortex. *Neurosci. Res.*, **61**, Suppl. 1, S262, P3–q07, 2008.
- Iijima, K., Fukui, N., Sakai, K. L. The cortical dynamics selective for syntactic structures of sentences in a minimal-pair paradigm: An MEG study. *BIOMAG 2008* (Sapporo, Japan), Abstr. **16**, 129–130, 1–7–19, 2008.
- Kinno, R., Muragaki, Y., Hori, T., Maruyama, T., Kawamura, M., Sakai, K. L. Selective deficits in the comprehension of sentences with dependency relations caused by a glioma in the left dorsolateral frontal cortex. *The 46th Annual Meeting of the Academy of Aphasia* (Turku, Finland), Abstr. Program No. **60**, 2008.
- 酒井 邦嘉. 言語の脳科学－文理融合の試金石. *Frontiere 2007*. 東京大学大学院総合文化研究科 広域科学専攻年報. 10–11, 2008.
- 酒井 邦嘉. 人間の創造性の本質－脳の再帰的計算. 文法. ACADEMIC GROOVE 東京大学アカデミックグループ. (東京大学編). 100–103, 66. 東京大学出版会 (東京), 2008.
- 酒井 邦嘉. 脳の発達と言語習得. 学び合いで育つ未来への学力－中高一貫教育の新しいデザイン. (東京大学教育学部附属中等教育学校編著). 146–153. 明石書店 (東京), 2008.
- 酒井 邦嘉. チョムスキーの言語哲学. 哲学の歴史 別巻－哲学と哲学史. 294–300. 中央公論新社 (東京), 2008.
- 酒井 邦嘉. 哲学者チョムスキー. 哲学の歴史 別巻－哲学と哲学史. 395. 中央公論新社 (東京), 2008.
- 酒井 邦嘉. 科学の心をAINシュタインが教えてくれた. 科学者の頭の中－その理論が生まれた瞬間－. 進研ゼミ高校講座. 2–6. ベネッセコーポレーション (東京), 2007.
- 酒井 邦嘉. 脳科学から言語へのアプローチ－脳活動の計測から人間の言語に迫る. 言語学との融合で脳機能を解明. 東京大学 大学院総合文化研究科 広域科学専攻. 92–93. 日経BPムック「変革する大学」シリーズ (東京), 2008.

佐々 真一 (Shin-ichi Sasa)

- Iwata, M., Sasa, S. Scale free patterns at a saddle-node bifurcation in a stochastic system *Phys. Rev. E*, **78**, 055202(R)–1–4, 2008.
- Komatsu, T.S., Nakagawa, N., Sasa, S., Tasaki, H. Steady State Thermodynamics for heat conduction - microscopic derivation, *Phys. Rev. Lett.*, **100**, 230602–1–4, 2008.
- Ohta H., Sasa, S. Critical fluctuations of time-dependent magnetization in ordering processes near the disorder-induced critical point, *Phys. Rev. E*, **77**, 021119–1–5, 2008.
- Sasa, S. A perturbation theory for large deviation functionals in fluctuating hydrodynamics, *J. Phys. A: Math. and Theor.*, **41**, 045006–1–11, 2008.
- Miyama, M.J., Sasa, S. The order-disorder transition in colloidal suspensions under shear flow, *J. Phys.: Condens. Matter*, **20**, 035014–1–6, 2008.
- Nakamura, T., Sasa, S. A fluctuation-response relation of many Brownian particles under non-equilibrium conditions, *Phys. Rev. E*, **77**, 021108–1–5, 2008.

佐々木 力 (Chikara Sasaki)

- トーマス・S・クーン 著(佐々木 力 訳). 『構造以来の道』(みすず書房, 2008).
- 鳥雲其其格, 佐々木 力 著. 「学制制定過程における洋算の採用」『思想』No. 1008(2008年4月), pp. 126–154.
- 佐々木 力 著. 「ユーフリッド公理論数学と懷疑主義——サボー説の改訂」『思想』No. 1010(2008年6月), pp. 100–149.

清水 明 (Akira Shimizu)

- Shimizu, A. Generalized Phase Rules. *J. Phys. Soc. Jpn.*, **77**, 104001–104004, 2008.
- Kokubun, N., Shimizu, A. Protected Rabi oscillation induced by natural interactions among physical qubits. *Phys. Rev. A*, **78**, 012302–1–012302–9, 2008.
- 清水 明. 何を学ぶか. 蜜雪時代 4月臨時増刊全国大学学部・学科案内号. 旺文社(東京). 541–543, 2008.

下井 守 (Mamoru Shimoji)

- 下井 守. 原子を見るまでの道程. 化学と教育. **56**, 206–209, 2008.
- 下井 守. 光と物質の色. 化学と教育. **56**, 372–375, 2008.
- 下井 守. 遷移金属錯体によるボラン・ルイス塩基付加物の活性化. 広領域教育. No.70 20–25, 2008.
- 下井 守他(監修, 執筆). 国立天文台編 理科年表平成21年(2009)第82分冊. 物理／化学部, 351–564, 丸善株式会社, 2008.
- 下井 守. 教員の相互授業参観(東京大学教養学部). 独立行政法人 大学評価・学位授与機構編著「大学評価文化の展開 評価の

相関基礎科学系

戦略的活用をめざして』117-123, 2008.

菅原 正 (Tadsahi Sugawara)

- Sandberg, M. O., Nagao, O., Wu, Z., Matsushita, M. M., Sugawara, T. Generation of a triplet diradical from a donor-acceptor cross conjugate upon acid-induced electron transfer, *Chem. Commun.*, **32**, 3738-3740, 2008.
- Suzuki, K., Matsushita, M. M., Hayashi, H., Koga, N., Sugawara, T. Association-mediated Chromism of Amphiphilic Triphenyl-6-oxoverdazyl, *New J. Chem.*, **32**(12), 2201-2208, 2008.
- Sugawara, T., Minamoto, M., Matsushita, M. M., Nickels, P., Komiyama, S. Cotunneling Current Affected by Spin-Polarized Wire Molecules in Networked Gold Nanoparticles. *Phys. Rev. B*, **77**, 235316, 2008.
- Matsushita, M. M., Kawakami, H., Sugawara, T. Molecule-based system with coexisting conductivity and magnetism and without magnetic inorganic ions. *Phys. Rev. B*, **77**, 195208, 2008. [Editors' suggestion]
- Nickels, P., Matsushita, M. M., Minamoto, M., Komiyama, S., Sugawara, T. Controlling Co-tunneling Currents in Nanoparticle Networks using Spin-Polarized Wire Molecules, *Small*, **4**, 471-475, 2008.
- Iwasaka, M., Suzuki, K., Sugawara, T. Observations of cellular responses to diamagnetic forces acting on cell components. *Sci. Technol. Adv. Mater.*, **9**, 024216, 2008.
- Kiyanagi, R., Kimura, H., Watanabe, M., Noda, Y., Mochida, T., Sugawara, T. Indication of Tunneling State of Hydrogen Atom in Hydrogen-Bonded Material 5-Bromo-9-hydroxyphenalenone Studied by X-ray and Neutron Diffractions, *J. Phys. Society of Japan*, **77**(6), 064602-1-7, 2008.
- Toyota, T., Takakura, K., Kageyama, Y., Kurihara, K., Maru, N., Ohnuma, K., Kaneko, K., Sugawara, T. Population Study of Sizes and Components of Self-Reproducing Giant Multilamellar Vesicles, *Langmuir*, **24**, 3037-3044, 2008.
- Maru, N., Shohda, K., Sugawara, T. Successive Fusion of Vesicles Aggregated by DNA Duplex Formation in the Presence of Triton X-100, *ChemLett.*, **37**(3), 340-341, 2008.
- Mita, Y., Shibata, T., Kobayashi, M., Endo, S., Mochida, T., Sugawara, T. Raman study on hydrogen bond material 5-bromo-9-hydroxyphenalenone. *J. Phys.: Conference Series* **92**, 012168, 2007.
- 菅原 正, 松下 未知雄. 有機ラジカルのスピンに基づく磁性-導電性共存系の構築. 月刊機能材料. **7**(28), 38-48 シーエムシー出版(東京), 2008.
- 菅原 正. 化学で挑む人工細胞モデル. 大学教授がやってきた! 知の冒険 桐光学園特別授業. 168-178 水曜社(東京), 2008.

鈴木 健太郎 (Kentaro Suzuki)

- Suzuki, K., Haines, J., Rabu, P., Inoue, K., Drillon, M. Magnetic Properties and Pressure-Induced Ferromagnetism of $\text{Cu}_2(\text{OH})_3(\text{CH}_3\text{COO})\cdot\text{H}_2\text{O}$. *J. Phys. Chem. C*, **112**, 19147-19150, 2008.
- Suzuki, K., Matsushita, M. M., Hayashi, H., Koga, N., Sugawara, T. Association-mediated Chromism of Amphiphilic Triphenyl-6-oxoverdazyl, *New J. Chem.*, **32**, 2201-2208, 2008.
- Iwasaka, M., Suzuki, K., Sugawara, T. Observation of Cellular Responses to Diamagnetic Forces Acting on Cell Component, *Sci. Technol. Adv. Mater.*, **9**, 024216, 2008.

住吉 吉英 (Yoshihiro Sumiyoshi)

- Yoshikawa, T., Sumiyoshi, Y., Takada, H., Hoshina, K., Endo, Y. Laser induced fluorescence spectroscopy of NC_3O . *J. Chem. Phys.*, **128**, 204308-1-204308-6, 2008.
- Mizoguchi, A., Ota, S., Kanamori, H., Sumiyoshi, Y., Endo, Y. Analysis of the nuclear quadrupole interaction of Disulfur Dichloride, S_2Cl_2 . *J. Mol. Spectrosc.*, **250**, 86-97, 2008.

染田 清彦 (Kiyohiko Someda)

- Yasuike, T., Someda, K. Lifetime of metastable helium molecule in intense laser fields. *Phys. Rev. A*, **78**, 013403-1-9, 2008.

高塚 和夫 (Kazuo Takatsuka)

- Koh, Y. W., Takatsuka, K. Finding periodic orbits of higher-dimensional flows by including tangential components of trajectory motion. *Phys. Rev. E*, **76**, 066205 (13 pages), 2007.
- Fujii, M., Takatsuka, K. Nonempirical statistical theory for molecular evaporation from nonrigid clusters. *J. Chem. Phys.*, **128**, 114318 (15 pages), 2008.
- Yonehara, T., Takatsuka, K. Nonadiabatic electron wavepacket dynamics of molecules in an intense laser field. An ab initio electronic state study. *J. Chem. Phys.*, **128**, 154104 (13 pages), 2008.
- Yonehara, T., Takatsuka, K. Phase-space averaging and natural branching of nuclear paths for nonadiabatic electron wavepacket dynamics. *J. Chem. Phys.*, **129**, 134109 (13 pages), 2008. Selected for Virtual Journal of Quantum Information vol.8 Issue 10, 2008.
- Takatsuka, K. On the mechanism of quantization of classical chaos and quantization conditions. *AIP Conference Proceeding* **1076**, "Let's face chaos through nonlinear dynamics" (M. Robnik and V. Romanovski Ed., Springer), 235-244, 2008.

業績リスト

鳥居 寛之 (Hiroyuki A. Torii)

- Knudsen, H., Kristiansen, H.-P. E., Thomsen, H. D., Uggerhøj, U. I., Ichioka, T., Møller, S. P., Hunniford, C. A., McCullough, R. W., Charlton, M., Kuroda, N., Nagata, Y., Torii, H. A., Yamazaki, Y., Imao, H., Andersen, H. H., Tökési, K. Ionization of helium and argon by very slow antiproton impact. *Phys. Rev. Lett.*, **101**, 043201-1-4, 2008.
Kuroda, N., Torii, H. A., Shibata, M., Nagata, Y., Barna, D., Hori, M., Horváth, D., Mohri, A., Eades, J., Komaki, K., Yamazaki, Y. Radial compression of an antiproton cloud for production of intense antiproton beams. *Phys. Rev. Lett.*, **100**, 203402-1-4, 2008.
鳥居 寛之. 教養課程における物理実験学入門講義のための映像教材の制作. 大学の物理教育, **14**-2, 52 & 76-80, 2008.
鳥居 寛之. 連載“標準”はいま、不確かさの考え方と取り扱い方. パリティ, **23**-6, 66-72, 2008.
鳥居 寛之. 連載“標準”はいま、光速度測定の変遷. パリティ, **23**-2, 52-57, 2008.

中島 峻 (Takashi Nakajima)

- Nakajima, T., Ueda, T., Komiyama, S. Quantum Hall transitions in mesoscopic devices. *Physica E*, **40**, 1285-1287, 2008.

永田 敬 (Takashi Nagata)

- Muraoka, A., Inokuchi, Y., Nagata, T. Structures of $[(CO_2)_n(CH_3OH)_m]^-$ ($n = 1 - 4$, $m = 1, 2$) cluster anions. *J. Phys. Chem. A*, **112**, 4906-4913, 2008.
Matsuyama, Y., Nagata, T. Structures of $C_2S_4^-$ – molecular anion: photoelectron spectroscopy and theoretical calculations. *Chem. Phys. Letters*, **457**, 31-35, 2008.
Inokuchi, Y., Muraoka, A., Nagata, T., Ebata, T. An IR study of $(CO_2)_n^+$ ($n = 3 - 8$) cluster ions in the 1000 – 3800 cm^{-1} region. *J. Chem. Phys.*, **129**, 044308-1-9, 2008.

錦織 紳一 (Shinichi Nishikiori)

- Yoshida, J., Nishikiori, S., Kuroda, R. Formation of 1D and 3D Coordination Polymers in the Solid State Induced by Mechanochemical and Annealing Treatments: Bis(3-cyano-pentane-2,4-dionato) Metal Complexes. *Chem. Eur. J.*, **14**, 10570-10578, 2008.

信原 幸弘 (Yukihiro Nobuhara)

- 信原 幸弘. 脳科学と心の機械化. 哲學, **59**, 97-114, 2008.
信原 幸弘. クオリアと世界の非概念的把握. 脳科学と哲学の出会い(中山剛史・坂上雅道編)玉川大学出版部. 101-115, 2008.
信原 幸弘. 自己決定権と自律的行為の多様性. 自己決定論のゆくえ: 哲学・法学・医学の現場から(高橋隆雄・八幡英幸編)九州大学出版会, 63-84, 2008.
信原 幸弘. 言語による思考の臨界. 岩波講座哲学 05 心／脳の哲学(飯田隆ほか編)岩波書店, 131-152, 2008.
信原 幸弘. 脳神経科学と倫理. 脳神経倫理学の展望(信原幸弘・原塑編)勁草書房, 1-12, 2008.

橋本 毅彦 (Takehiko Hashimoto)

- Hashimoto, T. Leonard Bairstow as a scientific middleman: early aerodynamic research on airplane stability in Britain, 1909-1920. *Historia Scientiarum*, vol. **17**, no.2. 101-120, 2007.
Hashimoto, T. Japanese clocks and the history of punctuality in modern Japan. *East Asian Science, Technology, and Society: an International Journal*, vol. **2**. 123-133, 2008.
橋本 毅彦. 標準の技術史. 日本知財学会誌. 4卷 1号. 3-11, 2007.
橋本 毅彦, 谷 一郎(1907-1990)の流体力学研究と層流翼の発明. 学術の動向. **12** 卷 12 号. 102-107, 2007.

原田 潤 (Jun Harada)

- Harada, J., Fujiwara, T., Ogawa, K. Crucial Role of Fluorescence in the Solid-State Thermochromism of Salicylideneanilines. *J. Am. Chem. Soc.*, **129**, 16216-16221, 2007.
Harada, J., Nakajima, R., Ogawa, K. X-ray Diffraction Analysis of Photochromic Reaction of Fulgides: Crystalline State Reaction Induced by Two-Photon Excitation. *J. Am. Chem. Soc.*, **130**, 7085-7091, 2008.
Harada, J., Harakawa, M., Ogawa, K. Conformational change of *all-trans*-1,6-diphenyl-1,3,5-hexatriene in two crystalline forms. *CrystEngComm*, **10**, 1777-1781, 2008.
Yamamura, M., Kano, N., Kawashima, T., Matsumoto, T., Harada, J., Ogawa, K. Crucial role of N...Si interactions in the solid state coloration of disilylazobenzenes. *J. Org. Chem.*, **73**, 8244-8249, 2008.

氷上 忍 (Shinobu Hikami)

- Brezin, E., Hikami, S. Intersection Theory from Duality and Replica. *Commun. Math. Phys.*, **283**, 507-521, 2008.
Brezin, E., Hikami, S. Intersection Numbers from the Antisymmetric Gaussian Matrix Model. *JHEP*, **07**, 050, 2008.

兵頭 俊夫 (Toshio Hyodo)

- 兵頭 俊夫, 長嶋 泰之. 陽電子プローブ(I)白色陽電子の利用. 固体物理. **43**, 63-72, 2008.

相関基礎科学系

兵頭 俊夫, 長嶋 泰之. 陽電子プローブ(II)ポジトロニウム・低速陽電子ビーム. 固体物理 **43**, 185–196, 2008.
兵頭 俊夫. 現行(平成 10 年度告示)小学校学習指導要領解説理科編の問題点について. 日本物理学会誌. 3 月号, 221–224, 2008.

深津 晋 (Susumu Fukatsu)

Won, D.-H., Togano, M., Terada, Y., Fukatsu, S., Uno, H., Furuta, H., Near-Infrared Emission from Bis-Pt^{II} Complexes of Doubly N-Confused Calix[6]phyrins(1.1.1.1.1), *Angewante Chemie*, **47**, 5438–5441, 2008.

福島 孝治 (Koji Hukushima)

Nakajima, C.H., Hukushima, K. Phase transition of a spin-lattice-gas model with two timescales and two temperatures. *Phys. Rev. E*, **78**, 041132, 2008.

Iba, Y., Hukushima, K. Testing Error Correcting Codes by Multicanonical Sampling of Rare Events. *J. Phys. Soc. Jpn.*, **77**, 103801, 2008.

Hirama, T., Hukushima, K. On-line Learning of an Unlearnable True Teacher through Mobile Ensemble Teachers. *J. Phys. Soc. Jpn.*, **77**, 094801, 2008.

Nakajima, T., Hukushima, K. Large Deviation Property of the Free Energy in *p*-Body Sherrington-Kirkpatrick Model. *J. Phys. Soc. Jpn.*, **77**, 074718, 2008.

Matsuda, Y., Nishimori, H., Hukushima, K. Distribution of Lee-Yang zeros and Griffiths singularities in the +/-J model of spin glasses. *J. Phys. A: Math. Theor.*, **41**, 324012, 2008.

Hukushima, K., Iba, Y. A Monte Carlo Algorithm for Sampling Rare Events: Application to a Search for the Griffiths Singularity. *J. Phys. Conf. Ser.*, **95**, 012005, 2008.

藤井 宏次 (Hirotugu Fujii)

Fujii, H., Itakura, K. Expanding color flux tubes and instabilities. *Nucl. Phys. A* **809**, 88–109, 2008.

Fujii, H., Tanji, N. Soft mode of the QCD critical point. *J. Phys. G* **35**, 104060 (4pp), 2008.

前田 京剛 (Atsutaka Maeda)

Kitano, H., Ohashi, T., Maeda, A. Broadband method for precise microwave spectroscopy of superconducting thin films near the critical temperature. *Rev. Sci. Inst.*, **79**, 074701/1–12, 2008.

Akutagawa, S., Ohashi, T., Kitano, H., Maeda, A., Goryo, J., Matsukawa, H., Akimitsu, J. Quasiparticle electronic structure of a new superconductor, Y₂C₃, in the mixed state investigated by specific heat and flux-flow resistivity. *J. Phys. Soc. Jpn.*, **77**, 064701/1–6, 2008.

Akutagawa, S., Ohashi, T., Kitano, H., Maeda, A., Akimitsu, J. Electrical resistivity of Y₂C₃ investigated by microwave surface impedance measurement. *J. Phys. Soc. Jpn.*, **77**, 014702/1–4, 2008.

Maeda, A. Challenges to high-Tc superconductivity in cuprates by exploring condensate properties. *J. Phys. Conf. Ser.*, **108**, 012002/1–11, 2008.

Suzuki, M., Ohmaki, M., Takemura, R., Hamada, K., Watanabe, T., Ota, K., Kitano, H., Maeda, A. Tunneling characteristics for nm-thick mesas consisting of a few intrinsic Josephson junctions. *Phys. Conf. Ser.*, **129**, 012033/1–7, 2008.

Maeda, A., Nakamura, D. Study of friction using driven vortices of superconductor as a model system. *Phys. Conf. Ser.*, **89**, 012020/1–10, 2007.

Nakamura, D., Kubo, T., Kitamura, S., Gomez, L. B., Maeda, A., Konczykowski, M., van der Beek, C. J. Dependence of maximum static friction on waiting time using dynamics of vortices in superconductors. *Phys. Conf. Ser.*, **89**, 012021/1–8, 2007.

前田 京剛. 磁束量子のダイナミクスを探求する. *FSST NEWS*, **118**, 14–15, 2008.

前田 京剛. 高温超伝導体固有ジョセフソン接合における巨視的量子トンネル現象. *信学技報*, **108**, 31–35, 2008.

松井 哲男 (Tetsuo Matsui)

Matsui, T. and Matsuo, M. Quantized meson fields in and out of equilibrium I: Kinetics of meson condensate and quasi-particle excitations, *Nucl. Phys. A* **809**, 211–245, 2008.

Hattori, K., Matsui, T. Distortion of the HBT images by the mean field potential, *Prog. Theor. Phys. Suppl.* **74**, 164–167, 2008.

松井 哲男. 原子核と物質の極限状態, 素粒子論研究 115(別冊「基礎物理学の現状と未来」), F293–318, 2008.

松下 信之 (Nobuyuki Matsushita)

Shiota, D., Matsushita, N. A Luminescent Nonlinear-chain Tetracyanoplumate(II) Forming a Charge-transfer Complex with Methyl Viologen. *Chem. Lett.*, **37**, 398–399, 2008.

Wada, Y., Matsushita, N. Two-photon absorption spectra and optical nonlinearity in an MX-chain compound. *J. Lumi.*, **128**, 1035–1037, 2008.

松下 未知雄 (Michio M. Matsushita)

Fujimoto, T., Matsushita, M.M., Yoshikawa, H., Awaga, K. Electrochemical and Electrochromic Properties of Octathio[8]

業績リスト

- circulene Thin Films in Ionic Liquids. *J. Am Chem. Soc.*, **130**, 15790–15791, 2008.
- Suzuki, K., Matsushita, M.M., Hayashi, H., Koga, N., Sugawara, T. Association-mediated Chromism of Amphiphilic Triphenyl-6-oxoverdazyl. *New J. Chem.*, **32**, 2201–2208, 2008.
- Sandberg, M.O., Nagao, O., Wu, Z., Matsushita, M.M., Sugawara, T. Generation of a triplet diradical from a donor-acceptor cross conjugate upon acid-induced electron transfer. *Chem. Commun.*, **2008**, 3738–3740.
- Sugawara, T., Minamoto, M., Matsushita, M.M., Nickels, P., Komiyama, S. Cotunneling Current Affected by Spin-Polarized Wire Molecules in Networked Gold Nanoparticles. *Phys. Rev. B* **77**, 235316, 2008.
- Matsushita, M. M., Kawakami, H., Sugawara, T., Ogata, M. Molecule-based system with coexisting conductivity and magnetism and without magnetic inorganic ions. *Phys. Rev. B* **77**, 195208, 2008.
- Nickels, P., Matsushita, M.M., Minamoto, M., Komiyama, S., Sugawara, T. Controlling Co-tunneling Currents in Nanoparticle Networks Using Spin-Polarized Wire Molecules. *small*, **4**, 471–475, 2008.
- 菅原 正, 松下 未知雄. 有機ラジカルのスピンに基づく磁性–導電性共存系の構築, 機能材料. **28**(7), 38–48, 2008.
- 松下 未知雄. 磁性と導電性を併せ持つ有機物質, 化学と教育. **56**(2), 72–73, 2008.

松田 恭幸 (Yasuyuki Matsuda)

- Bakule, P., Matsuda, Y., Miyake, Y., Nagamine, K., Iwasaki, M., Ikeda, Y., Shimomura, K., Strasser, P., Makimura, S. Pulsed source of ultra low energy positive muons for near-surface μ SR studies. *Nucl. Instrum. Meth. B*, **266**, 335–346, 2008.
- Imao, H., Ishida, K., Kawamura, N., Matsuzaki, T., Matsuda, Y., Toyoda, A., Strasser, P., Iwasaki, M., Nagamine, K. Density effect in d-d muon catalyzed fusion with ortho- and para- enriched D₂. *Phys. Lett. B*, **658**, 120–124, 2008.
- Sato, M., Bhang, H., Chiba, J., Choi, S., Fukuda, Y., Hanaki, T., Hayano, R.S., Iio, M., Ishikawa, T., Ishimoto, S., Ishiwatari, T., Itahashi, K., Iwai, M., Iwasaki, M., Kienle, P., Kim, J.H., Matsuda, Y., Ohnishi, H., Okada, S., Outa, H., Suzuki, S., Suzuki, T., Tomono, D., Widmann, E., Yamazaki, T., Yim, H. Search for strange tribaryon states in the inclusive ⁴He (K⁻ stopped p) reaction. *Phys. Lett. B*, **659**, 107–112, 2008.
- Imao, H., Ishida, K., Kawamura, N., Matsuzaki, T., Matsuda, Y., Toyoda, A., Strasser, P., Iwasaki, M., Nagamine, K. Preparation of ortho-para ratio controlled D₂ gas for muon-catalyzed fusion. *Rev. Sci. Instrum.*, **79**, 053502, 2008.
- Iwasaki, M., Bhang, H., Chiba, J., Choi, S., Fukuda, Y., Hanaki, T., Hayano, R.S., Iio, M., Ishikawa, T., Ishimoto, S., Ishiwatari, T., Itahashi, K., Iwai, M., Kienle, P., Kim, J.H., Matsuda, Y., Ohnishi, H., Okada, S., Outa, H., Sato, M., Suzuki, S., Suzuki, T., Tomono, D., Widmann, E., Yamazaki, T., Yim, H. Kaonic nuclear state search via K⁻ reaction at rest on ⁴He target. *Nucl. Phys. A*, **804**, 186–196, 2008.
- Suzuki, T., Bhang, H., Chiba, J., Choi, S., Fukuda, Y., Hanaki, T., Hayano, R.S., Iio, M., Ishikawa, T., Ishimoto, S., Ishiwatari, T., Itahashi, K., Iwai, M., Iwasaki, M., Kienle, P., Kim, J.H., Matsuda, Y., Ohnishi, H., Okada, S., Outa, H., Sato, M., Suzuki, S., Suzuki, T., Tomono, D., Widmann, E., Yamazaki, T., Yim, H. Lambda d correlation from ⁴He(stopped K⁻, d) reaction. *Phys. Rev. C*, **76**, 068202, 2007.
- Hayano, R.S., Beer, G., Bhang, H., Cargnelli, M., Chiba, J., Choi, S., Curceanu, C., Fukuda, Y., Hanaki, T., Iio, M., Ishikawa, T., Ishimoto, S., Ishiwatari, T., Itahashi, K., Iwai, M., Iwasaki, M., Juhasz, B., Kienle, P., Marton, J., Matsuda, Y., Ohnishi, H., Okada, S., Outa, H., Sato, M., Suzuki, S., Tomono, D., Widmann, E., Yamazaki, T., Yim, H. Solving the kaonic-helium puzzle. *Mod. Phys. Lett. A*, **23**, 2505–2511, 2008.
- Suzuki, T., Iio, M., Itahashi, K., Iwasaki, M., Matsuda, Y., Ohnishi, H., Okada, S., Outa, H., Tomono, D., Yamazaki, T., Bhang, H., Choi, S., Kim, J.H., Yim, H., Chiba, J., Hanaki, T., Fukuda, Y., Sato, M., Hayano, R.S., Ishikawa, T., Ishimoto, S., Iwai, M., Suzuki, S., Ishiwatari, T., Kienle, P., Widmann, E. YN correlations from the stopped K⁻ reaction on ⁴He. *Mod. Phys. Lett. A*, **23**, 2520–2523, 2008.

真船 文隆 (Fumitaka Mafuné)

- Shoji, M., Miyajima, K., Mafuné, F. Ionization of gold nanoparticles in solution by pulse laser excitation as studied by mass spectrometric detection of gold cluster ions. *J. Phys. Chem. C*, **112**, 1929–1932, 2008.
- Takeda, Y., Kondow, T., Mafuné, F. Hybridization of ssDNA with Complementary DNA Probe Tethered to Au Nanoparticle - Effect of Steric Hindrance Caused by Conformation. *J. Phys. Chem. C*, **112**, 89–94, 2008.
- Muto, H., Miyajima, K., Mafuné, F. Mechanism of laser induced size-reduction of gold nanoparticles as studied by single and double laser pulse excitation. *J. Phys. Chem. C*, **112**, 5810–5815, 2008.
- Miyajima, K., Fukushima, N., Mafuné, F. Reactivity of Niobium-Carbon Cluster ions with Hydrogen Molecules in Relation to Formation Mechanism of Met-Car Cluster Ions. *J. Phys. Chem. A*, **112**, 5774–5773, 2008.
- Hirokawa, J., Kato, T., Mafuné, F. Uptake of Gas-Phase Nitrous Acid by pH-Controlled Aqueous Solution Studied by a Wetted Wall Flow Tube. *J. Phys. Chem. A*, **112**, 12143–12150, 2008.
- 真船 文隆. 量子化学–基礎からのアプローチ. 1–258 化学同人(京都)2008.

宮島 謙 (Ken Miyajima)

- Miyajima, K., Fukushima, N., Mafuné F. Reactivity of niobium – carbon cluster ions with hydrogen molecules in relation to formation mechanism of met – car cluster ions. *J. Phys. Chem. A*, **112**, 5774–5776, 2008.
- Muto, H., Miyajima, K., Mafuné F. Mechanism of laser-induced size reduction of gold nanoparticles as studied by single and

相関基礎科学系

- double laser pulse excitation. *J. Phys. Chem. C*, **112**, 5810–5815, 2008.
- Shoji, M., Miyajima, K., Mafuné F. Ionization of gold nanoparticles in solution by pulse laser excitation as studied by mass spectrometric detection of gold cluster ions. *J. Phys. Chem. C*, **112**, 1929–1932, 2008.
- Miyajima, K., Knickelbein, M. B., Nakajima A. Stern-Gerlach study of multidecker lanthanide-cyclooctatetraene sandwich clusters. *J. Phys. Chem. A*, **112**, 366–375, 2008.

村田 滋 (Shigeru Murata)

Sasaki, R., Murata, S. Aggregation of Amphiphilic Pyranines in Water: Facile Micelle Formation in the Presence of Methylviologen. *Langmuir*, **24**, 2387–2394, 2008.

村田 純一 (Junichi Murata)

- Murata, J. Creativity of the Historical World—Nishida and the Philosophy of Technology. 哲学・科学史論叢, 第10号, 1–12, 2008.
- 村田 純一. 心身問題の現在. 岩波講座哲学. 第1巻. 1–18. 岩波書店(東京), 2008.
- 村田 純一. 技術への問い——技術の創造性と日本の近代化. 岩波講座哲学. 第1巻. 73–103. 岩波書店(東京), 2008.
- 村田 純一. 知覚と行為——現象学と脳科学. 脳科学と哲学の出会い: 脳・生命・心. 中山剛史・坂上雅道 編著. 84–100. 玉川大学出版会(東京), 2008.

山崎 泰規 (Yasunori Yamazaki)

- Andresen, G.B., Bertsche, W., Boston, A., Bowe P.D., Cesar, C.L., Chapman, S., Charlton, M., Chartier, M., Deutsch, A., Fajans, J., Fujiwara, M.C., Funakoshi, R., Gill, D.R., Gomberoff, K., Hangst, J.S., Hayano, R.S., Hydomako, R., Jenkins, M.J., Jørgensen, L.V., Kurchaninov, L., Madsen, N., Nolan, P., Olchanski, K., Olin, A., Page, R.D., Povilus, A., Robicheaux, F., Sarid, E., Silveira, D.M., Storey, J.W., Thompson, R.I., Werf, P.D., Wurtele, J.S., and Yamazaki, Y. Production of antihydrogen at reduced magnetic field for anti-atom trapping. *J. Phys. B*, **41**, 011001–1–5, 2008.
- Cassimi, A., Muranaka, T., Maunoury, L., Lebius, H., Manil, B., Huber, B.A., Ikeda, T., Kanai, Y., Kojima, T.M., Iwai, Y., Kambara, T., Yamazaki, Y., Nebiki, N. and Narusawa, T. Multiply-charged ion nanobeams. *Int. J. Nanotechnol.*, **5**, 809–817, 2008.
- Iwai, Y., Ikeda, T., Kojima, T.M., Yamazaki, Y., Maeshima, K., Imamoto, N., Kobayashi, T., Nebiki, T., Narusawa, T., Pokhil, G.P. Ion irradiation in liquid of $\sim\mu\text{m}^3$ region for cell surgery. *Appl. Phys. Lett.*, **92**, 023509–1–3, 2008.
- Shibata, M., Mohri, A., Kanai, Y., Enomoto, Y., Yamazaki, Y. Compact cryogenic system with mechanical cryocoolers for antihydrogen synthesis. *Rev. Sci. Instrum.*, **79**, 015112–1–4, 2008.
- Jorgensen, L.V., Andresen, G., Bertsche, W., Bowe, P.B., Bray, C.C., Butler, E., Cesar, C.L., Chapman, S., Charlton, M., Fajans, J., Fujiwara, M.C., Funakoshi, R., Gill, D.R., Hangst, J.S., Hardy, W.N., Hayano, R.S., Hayden, M.E., Hydomako, R., Jenkins, M.J., Jørgensen, L. V., Kurchaninov, L., Lambo, R., Madsen, N., Nolan, P., Olchanski, K., Olin, A., Povilus, A., Pusa, P., Robicheaux, F., Sarid, E., Seif El Nasr S., Silveira, D.M., Storey, J.W., Thompson, R.I., van der Werf, P.D., Wurtele, J.S., Yamazaki, Y. Towards trapped antihydrogen. *Nucl. Instrum. Methods B*, **266**, 357–362, 2008.
- Andresen, G.B., Bertsche, W., Bowe, P.B., Bray, C.C., Butler, E., Cesar, C.L., Chapman, S., Charlton, M., Fajans, J., Fujiwara, M.C., Funakoshi, R., Gill, D.R., Hangst, J.S., Hardy, W.N., Hayano, R.S., Hayden, M.E., Hydomako, R., Jenkins, M.J., Jørgensen, L. V., Kurchaninov, L., Lambo, R., Madsen, N., Nolan, P., Olchanski, K., Olin, A., Povilus, A., Pusa, P., Robicheaux, F., Sarid, E., Seif El Nasr S., Silveira, D.M., Storey, J.W., Thompson, R.I., van der Werf, P.D., Wurtele, J.S., Yamazaki, Y. Compression of Antiproton Clouds for Antihydrogen Trapping. *Phys. Rev. Lett.*, **100**, 203401–1–4, 2008.
- Kuroda, N., Torii, H.A., Shibata, M., Nagata, Y., Barna, D., Hori, M., Horvath, D., Mohri, A., Eades, J., Komaki, K. and Yamazaki, Y. Radial compression of antiproton cloud for production of intense antiproton beams. *Phys. Rev. Lett.*, **100**, 203402–1–4, 2008.
- Saitoh, H., Mohri, A., Enomoto, Y., Kanai, Y. and Yamazaki, Y. Radial Compression of a Non-Neutral Plasmas in a Cusp Trap for Antihydrogen Synthesis. *Phys. Rev. A* (Rapid Comm) **77**, 51403–1–4, 2008.
- Fujiwara, M.C., Amoretti, M., Amsler, C., Bonomi, G., Bouchta, A., Bowe, P.D., Canali, C., Carraro, C., Cesar, C.L., Charlton, M., Doser, M., Fontana, A., Funakoshi, R., Genova, P., Hangst, J.S., Hayano, R.S., Jorgensen, L.V., Kellerbauer, A., Lagomarsino, V., Landua, R., Lodi-Rizzini, E., Macri, M., Madsen, N., Manuzio, G., Mitchard, D., Montagna, P., Pruys, H., Regenfus, C., Rotondi, A., Testera, G., Variola, A., Venturelli, L., van der Werf, P.D., Yamazaki, Y., Zurlo, N. Temporally Controlled Modulation of Antihydrogen Production and the Temperature Scaling of Antiproton-Positron Recombination. *Phys. Rev. Lett.*, **101**, 053401–1–4, 2008.
- Knudsen, H., Kristiansen, H.P.E., Thomsen, H.D., Uggerhøj, U.I., Ichioka, T., Møller, S.P., Hunniford, C.A., McCullough, R.W., Charlton, M., Kuroda, N., Nagata, Y., Torii, H.A., Yamazaki, Y., Imao, H., Andersen, H.H., and Tökesi, K., Ionization of helium and argon by very slow antiproton impact. *Phys. Rev. Lett.*, **101**, 043201–1–4, 2008.
- Nakai, Y., Nakano, Y., Azuma, T., Hatakeyama, A., Kondo, C., Komaki, K., Yamazaki, Y., Takada, E. and Murakami, T. Dressed Atoms in Flight through a Periodic Crystal Field: X-VUV Double Resonance. *Phys. Rev. Lett.*, **101**, 113201–1–4, 2008.

吉岡 大二郎 (Daijiro Yoshioka)

吉岡 大二郎. 朝倉物理学選書1：力学. 1–167. 朝倉書店(東京), 2008.

業績リスト

吉岡 大二郎. 現代物理. 149–237. 放送大学教育振興会(東京), 2008.

米谷 民明 (Tamiaki Yoneya)

Yoneya, T. Space-time uncertainty and approaches to D-brane field theory. *Prog. Theor. Phys. Suppl.* **171**, 87–98, 2007.

Yoneya, T. An Attempt Towards Field Theory of D0 Branes:Quantum M-Field Theory. *Int. J. Mod. Phys. A* **23**, 2343–2351, 2008.

米谷 民明. ゲージ重力対応とは何か. 数理科学. **536** 号, 7–14, 2008.

米谷 民明. インタビュー：ストリング理論は面白くて深い. 数理科学. **536** 号, 62–64, 2008.

米谷 民明. 対談：物理と数学の難所. **539** 号, 5–10, 2008.

若本 祐一 (Yuichi Wakamoto)

若本 祐一. 細胞システムのもつゆらぎとその役割. パリティ, **23**, 68–70, 2008.

和田 純夫 (Sumio Wada)

コリン・ブルース(著), 和田 純夫(翻訳・解説). 量子力学の解釈問題. 1–324. 講談社(東京), 2008.