

研究業績

機 械 工 学 系

研究論文

Y. Kanjin

Hardy's inequalities for Hermite and Laguerre expansions revisited, *J. Math. Soc. Japan*, 63 (2011), 753-767.

H. Tamura, V.A. Zagrebnov

Large deviation principle for noninteracting boson random point processes, *J. Math. Phys.* vol.51, 023528 (2010), (20 pages).

H. Tamura

Boson Gas Mean Field Model Trapped by Weak Harmonic Potentials in Mesoscopic Scaling, *RIMS Kôkyûroku Bessatsu* (京都大学・数理解析研究所講究録 別冊) B21 (2010), 163-181.

K. Emura, A. Miyaji, A. Nomura, K. Omote, M. Soshi

A ciphertext-policy attribute-based encryption scheme with constant ciphertext length, *International Journal of Applied Cryptography*, vol.2, No.1 (2010), 46-59.

A. Nomura

On the existence of unramified p -extensions with prescribed Galois group, *Osaka J. Math.* vol.47, No.4 (2010), 1159-1165.

Y. Kanjin

Paley's inequality of integral transform type, *Hokkaido Math. J.* 38 (2009), 233-247.

H. Tamura, V.A. Zagrebnov

Mean-field interacting boson random point fields in weak harmonic traps, *J. Math. Phys.* vol. 50, 023301 (2009) (28 pages).

A. Nomura

Notes on the minimal number of ramified primes in some l -extensions of \mathbb{Q} , *Arch. Math.* vol.90 (2008), 501-510.

T. Harayama, S. Sunada, K. Arai, K. Yoshimura, J. Muramatsu, P. Davis, K. Tsuzuki, and A. Uchida

Theory and experiments of fast nondeterministic random bit generation using on-chip chaos lasers, *Proc. of IUTAM Symposium on 50 Years of Chaos: Applied and Theoretical*, pp. 92-93, (2011.12)

Nakamura, K.kawaguchi and T. Ohgaku

Deformation luminescence of X-irradiated KCl: Ca^{2+} , *Radiation Measurements*, Vol. 46, pp. 1389-1392, (2011.11).

T. Matsumoto., H. Nakamoto, Y. Takizawa, Y. Kitagawa, F. Kuratani, K. Koyama, M. Adachi

Vibration measurement in non-rigid test environment with speckle interferometry, *Proc. of SPIE*, Vol.8011, pp.80117M-1-6, (2011.9).

K. Arai, T. Harayama, S. Sunada, P. Davis

Mechanism to yield randomness in Galton Board, *Proc. of Dynamics Days Europe 2011*, (2011.9)

S. Sunada, T. Harayama, K. Arai, K. Yoshimura, K. Tsuzuki, P. Davis, and A. Uchida

On-chip chaos lasers for fast non-deterministic

random bit generation, *Proc. of Nonlinear Theory and Its Applications (NOLTA)*, pp. 330-333, (2011.9)

T. Yamazaki, Y. Akizawa, S. Morikatsu, H. Aida, A. Uchida, T. Harayama, S. Sunada, K. Arai, K. Yoshimura

Experimental on Fast Physical Random bit Generation with Bandwidth-Enhanced Chaotic Semiconductor Lasers, *Proc. of Nonlinear Theory and Its Applications (NOLTA)* pp. 334-337, (2011.9)

Y. Akizawa, T. Yamazaki, A. Uchida, T. Harayama, S. Sunada, K. Yoshimura, P. Davis,

Post-Processing Method for Fast Random Bit Generation with Semiconductor Lasers, *Proc. of Nonlinear Theory and Its Applications (NOLTA)*, pp. 338-341, (2011.9)

T. Mikami, K. Kanno, K. Aoyama, A. Uchida, T. Harayama, S. Sunada, K. Arai, K. Yoshimura, and P. Davis

Estimation of Entropy Rate for Random Bit generators with Chaotic Semiconductor Lasers, *Proc. of Nonlinear Theory and Its Applications (NOLTA)*, pp. 342-345, (2011.9)

K. Yoshimura, A. Uchida, P. Davis, J. Muramatsu, T. Harayama, and S. Sunada,

Synchronization of Semiconductor Lasers Driven by Common Optical Injection with Constant Amplitude and Random-Phase Modulation, *Proc. of Nonlinear Theory and Its Applications (NOLTA)*, pp. 682-685, (2011.9).

T. Senzawa and M. Adachi

Deformation measurement along two directions of a continuously deforming object by using two lasers and one color camera, *Proc. of SPIE*, Vol. 8306, pp.83060C-1-10, (2011.8).

T. Fukushima, S. Sunada, T. Harayama, K. Sakaguchi, and T. Tokuda,

Selective Excitation of Lowest Order Axis and Ring Modes in Confocal Quasi-Stadium Microcavity Laser Diodes, *Proc. of International Conference on Transparent Optical Networks*, pp.26-30, (2011.6)

T. Ohgaku, S. Migiuma, D. Nagahira

Interaction between dislocation and defects induced by X-irradiation in alkali halide crystals, *Radiation Measurements*, Vol. 46, pp.1385-1388, (2011.6).

安達正明, 丹羽康人, 岩尾雄太

振動環境下で撮影された干渉像からの高精度位相抽出, *精密工学会誌*, Vol. 77, No. 5, pp.502-506, (2011.5).

S. Shinohara, T. Harayama, T. Fukushima, M. Hentschel, S. Sunada, E. E. Narimanov

Chaos-assisted emission from asymmetric resonant cavity microlasers, *Physical Review A*, Vol. 83, pp. 053837 1-8 (2011.5).

- S. Sunada, T. Harayama, K. Arai, K. Yoshimura, K. Tsuzuki, A. Uchida, and P. Davis,
Random optical pulse generation with bistable semiconductor ring lasers, *Optics Express*, Vol. 19, Issue 8, pp. 7439-7450, (2011.4).
- S. Sunada, T. Harayama, K. Arai, K. Yoshimura, K. Tsuzuki, P. Davis, and A. Uchida
Chaos laser chips with delayed optical feedback using a passive ring waveguide, *Optics Express*, Vol. 19, Issue 7, pp. 5713-5724, (2011.3).
- T. Harayama, S. Sunada, K. Yoshimura, K. Tsuzuki, P. Davis, and A. Uchida,
Fast non-deterministic random bit generation with on-chip chaos lasers, *Physical Review A*, Vol. 83, pp. 031803 (R) 1-4 (2011.2).
- S. Sunada, T. Harayama, K. Arai, K. Yoshimura, K. Tsuzuki, A. Uchida, and P. Davis,
Theory and experiment of fast non-deterministic random bit generation with on-chip chaos lasers, *Proc. of Dynamics Days 2011*, pp. 31-32, (2011.1)
- 安達正明, 河村昌範, 岩尾雄太
干渉顕微鏡観察下の粗面の垂直走査域 $100\ \mu\text{m}$ での光路差変化の高精度測定, *精密工学会誌*, Vol.76 No.7, pp.834-839, (2010.7)
- 安達正明, 平野勇輝, 河村昌範, 岩尾雄太
振動環境でも利用できる垂直走査型光干渉応用形状計測技術, *精密工学会誌*, Vol.75, No.11, pp.1299-1304, (2009.11).
- S. Nakamura, K.kawaguchi and T. Ohgaku
Deformation luminescence of X-irradiated KCl:Eu^{2+} by bending test, *Materials Science and Engineering*, Vol. 3, pp.1-6, (2009.8).
- M. Choi, T. Tanaka, S. Sunada, T. Harayama
Linewidth properties of active-passive coupled InGaAs monolithic semiconductor ring lasers, *Applied Physics Letters*, Vol. 94, pp. 231110 1-3, (2009.6).
- 安達正明, 藤本健太, 平野勇輝
走査型白色干渉顕微鏡に内蔵可能な光路差変化量のリアルタイム測定法, *精密工学会誌*, Vol.74, No.11, pp.1251-1219, (2008.11).
- S. Sunada, S. Tamura, K. Inagaki, T. Harayama
Ring laser gyroscope without the lock-in phenomenon, *Physical Review A*, Vol.78, pp. 053822 1-8, (2008.11).
- S. Sunada and T. Harayama,
Rotating resonant microcavities: application to optical gyroscopes, *Proc. of First Mediterranean Photonics Conference 2008*, pp.94-96, (2008.7)
- S. Nakamura, T. Ohgaku
Effect of ultrasonic oscillatory stress on deformation luminescence of X-irradiated KCl:Eu^{2+} , *Radiation Measurements*, Vol. 43, pp.283-286, (2008.6).
- T. Harayama and S. Sunada,
Sagnac Effect and Frequency Splitting in Rotating Optical Microcavities, *Proc. of 10th Anniversary International Conference on Transparent Optical Networks*, p.38 (2008.6).
- M. Adachi
Phase-shift algorithm for white-light interferometry insensitive to linear errors in phase shift, *OPTICAL REVIEW*, Vol.15, No.3, pp.148-155 (2008.3).
- T. Ishida, S. Tamura, S. Sunada, K. Inagaki, T. Harayama and S. Saito,
Improvement of accuracy of angular velocity detection in semiconductor fiber optic ring laser gyroscope, *Proc of SPIE*, Vol.7004, pp.700450-1-4, (2008.3).
- 谷尾大希, 中村昭一, 大角富康
X線照射したイオン結晶の転位密度とフラクタルミネッセンス, *材料*, Vol.57, No.2, pp.154-158, (2008.2).
- Komatsu,N.
Time-Reversibility, Instability and Thermodynamics in N-body Systems interacting with Long-Range Potentials, *Book of Abstracts: IUTAM Symposium on 50 Years of Chaos: Applied and Theoretical (International Union of Theoretical and Applied Mechanics, IUTAM2011)*, Kyoto, JAPAN, pp.76-77, (2011.11).
- Kimura,S., Ueda,M., Kamen,K.
Dynamic Solidification in a Square Cavity Cooled from the Top and periodic heating at the bottom, *Int. Conf. Automatics and Informatics, Sofia, BULGARIA*, pp.195-199, (2011.10).
- Kimura,S., Kiwata,T., Komatsu,N., Yamamoto,H.
Time-dependent solidification in a rectangular duct with velocity modulation; a perturbation analysis, *Int. Conf. Fluxes and Structures in Fluids: Physics of Geospheres*, pp.91-94, Vladivostok, RUSSIA, (2011.9).
- Komatsu,N., Kiwata,T., Kimura,S.
Relaxation of non-Gaussian velocity distributions in collapses of long-range attractive interacting systems, *Book of Abstracts of the 2nd international symposium on "Multi-scale Simulations of Biological and Soft Materials" (MSBSM 2011)*, Kyoto, JAPAN, pp.22, (2011.9).
- Kiwata,T., Usuzawa,T., Komatsu,N., Kimura,S., Oshkai,P.
Flow Structure of a Coaxial Circular Jet with Axisymmetric and Helical Instability Modes, *Journal of Fluid Science and Technology*, Vol. 6, No. 4, pp.437-452, (2011.7).
- Nakata,H., Kiwata,T., Furumichi,H., Kimura,S., Komatsu,N., Oshkai,P.
Wind Protection and Performance of a Cross-flow Wind Turbine Located above a Windbreak Fence, *Proceedings of the 13th International Conference on Wind Engineering, Amsterdam, NETHERLANDS*, pp.1-8 (USB), (2011.7).

- Saitou, M., Kiwata, T., Suginuma, J., Kimura, S., Komatsu, N., Nomura, K.
Flow Visualization in a Cylindrical Supply Water Tank, Proceedings of the 11th Asian Symposium on Visualization, Niigata, JAPAN, pp.162-169, (2011.6).
- 齊藤雅之, 木綿隆弘, 杉沼淳子, 倉谷知宏, 小松信義, 木村繁男
円筒型給水タンクの入替性能に関する研究, 日本機械学会論文集 (B編), Vol. 77, No. 775, pp. 689-701, (2011.3).
- 木綿隆弘, 中田博精, 倉谷知宏, 古路裕子, 中口彰人, 小松信義
防風フェンス上部にあるクロスフロー風車の性能と周りの流れに関する研究, 第21回風工学シンポジウム論文集, pp.221-226, (2010.12).
- Usuzawa, T., Kiwata, T., Komatsu, N., Kimura, S., Oshkai, P.
Numerical Simulation of Three-dimensional Flow Structures in a Coaxial Circular Jet, Proceedings of the 21st International Symposium on Transport Phenomena, Kaohsiung City, TAIWAN, paper No. 242, pp.178, (pp.1064-1072: CD-ROM), (2010.11).
- Kimura, S., Ogawa, J., Kiwata, T., Komatsu, N., Nakamura, K.
Effect of Leaf-Area-Density on Turbulent Diffusion in Deciduous Forest, Proceedings of the 21st International Symposium on Transport Phenomena, Kaohsiung City, TAIWAN, paper No. IS06-06, pp.163, (pp.1396-1403: CD-ROM), (2010.11).
- Ueda, M., Kimura, S., Kiwata, T., Komatsu, N.
Control of Solid-Liquid Interface Growth during Unidirectional Solidification in Natural Convection, Proceedings of the 21st International Symposium on Transport Phenomena, Kaohsiung City, TAIWAN, paper No. 229, pp.124, (pp.1003-1010: CD-ROM), (2010.11).
- Fujisawa, J., Kanaoka, Y., Kimura, S., Kiwata, T., Komatsu, N., Vynnycky, M.
Characteristics of a Flow Vector Sensor Embedded in a Flat Plate, Proceedings of the 21st International Symposium on Transport Phenomena, Kaohsiung City, TAIWAN, paper No. 252, pp.60, (pp.1108-1114: CD-ROM), (2010.11).
- Kimura, S., Kanev, K.
Phase Change Control under Vigorous Convection Heat Transfer, Int. Conf. Automatics and Informatics, Sofia, BULGARIA, pp.1-4 (CD-ROM), (2010.10).
- Komatsu, N., Kiwata, T., Kimura, S.
Thermodynamic properties of an evaporation process in self-gravitating N-body systems, Phys. Rev. E, Vol. 82, Issue 2, 021118, pp.1-9, (2010.8).
- Komatsu, N., Kiwata, T., Kimura, S.
Thermodynamic properties of a nonequilibrium process in long-range attractive interacting systems, Abstracts of International Symposium on Non-Equilibrium Soft Matter 2010, Nara, JAPAN, pp.79, (2010.8).
- Komatsu, N., Kiwata, T., Kimura, S.
Dynamical evolutions and thermodynamic properties of an evaporation process in N-body systems with long-range attractive potentials, Program and Abstracts of the 2nd International Symposium on Structural Thermodynamics (ISST-2010), Osaka, JAPAN, pp.51, (2010.8).
- Kiwata, T., Hirai, M., Yamada, T., Kitamura, T., Komatsu, N., Kimura, S.
Rotational speed control of a variable-pitch vertical axis wind turbine by means of tail vanes, Proceedings of Renewable Energy 2010, Yokohama, JAPAN, O-Wd-8-3 (CD-ROM, pp.1-4), (2010.7).
- Kimura, S., Nakamura, K., Kiwata, T., Komatsu, N.
Observation of turbulent diffusion in a deciduous forest canopy during winter time, Int. Conf. on Porous Media and its Applications in Science and Engineering, Montecatini, ITALY, pp.1-8, (2010.6).
- Kiwata, T., Yamada, T., Kita, T., Takata, S., Komatsu, N., Kimura, S.
Performance of a vertical axis wind turbine with variable-pitch straight blades utilizing a linkage mechanism, Journal of Environment and Engineering, Vol. 5, No. 1, pp.213-225, (2010.4).
- Masuda, Y., Yoneya, M., Suzuki, A., Kimura, S.
Numerical analysis of re-oscillation and non-centrosymmetric convection in a porous enclosure due to opposing heat and mass fluxes on the vertical walls, International Communications in Heat and Mass Transfer, Vol. 37 (3), pp.250-255, (2010.3).
- Komatsu, N., Kimura, S., Kiwata, T.
Nonequilibrium process of self-gravitating N-body systems and quasi-equilibrium structure using normalized q-expectation values for Tsallis' generalized entropy, Mathematical Aspects of Generalized Entropies and their Applications (Kyoto RIMS workshop; Kyoto, JAPAN, (2009.7)), Journal of Physics: Conference Series, Vol. 201, 012009, pp.1-10, (2010.2).
- Kimura, S., Nohara, Y., Kiwata, T., Komatsu, N.
Solidification of Binary Aqueous Solution Cooled from Above, Heat Transfer-Asian Research, Heat Transfer. Asian Research, Vol. 39 (1), pp.43-58, (2010.1).
- Kimura, S., Kamen, K.
E-learning of phase change processes under vigorous convection heat transfer, Information Technologies and Control, Vol. 8, No. 3, pp.12-18, (2010).
- Dimitrov, K., Kanev, K., Kimura, S.
Product Recommendations in Mobile Environments, Information Technologies and Control, Vol. 7, No 3, pp.10-14, (2009).

- Komatsu,N., Kimura,S., Kiwata,T.
Negative specific heat in self-gravitating N-body systems enclosed in a spherical container with reflecting walls, *Phys. Rev. E*, Vol. 80, Issue 4, 041107, pp.1-9, (2009.10).
- 武田浩, 井下田寛, 木村繁男, 木綿隆弘, 小松信義
単一調査孔を用いた地下水流動計測プローブの開発, *日本地熱学会誌*, Vol. 31, No. 4, pp.193-202, (2009.10).
- Kiwata,T., Saitoh,M., Kimura,S., Komatsu,N., Kimura,T., Suginuma,J.
Displacement Efficiency of Water in a Cylindrical Tank, *Proc. of the 10th International Symposium on Fluid Control, Fluid Measurement and Visualization (CD-ROM)*, Moscow, RUSSIA, pp.1-8, (2009.8).
- Kanaoka,Y., Kimura,S., Vynnycky,M., Kiwata,T.
Characteristics of a MEMS Flow Vector Sensor Consisting of a Circular Heater and Eight Temperature Sensing Units. *Proceedings of the 20th International Symposium on Transport Phenomena*, Victoria BC, CANADA, paper No. 170, pp.1-7 (CD-ROM), (2009.7).
- 山本洋民, 木村繁男, 木綿隆弘, 小松信義, 小林正弘
鉛直管路内の層流片側冷却における非定常凝固特性, *日本機械学会論文集 (B編)*, Vol. 75, No. 755, pp. 1470-1478, (2009.7).
- Komatsu,N., Kimura,S., Kiwata,T.
Negative specific heat in self-gravitating systems enclosed in a spherical container with adiabatic and non-adiabatic walls, *International symposium YKIS2009, The Yukawa International Seminars (YKIS), YKIS 2009 "Frontiers in Nonequilibrium Physics: Fundamental Theory, Glassy & Granular Materials, and Computational Physics"*, Kyoto, JAPAN, pp.1, (2009.7).
- Kiwata,T., Kimura,S., Komatsu,N., Murata,H., Kim,Y.H.
Flow Characteristics of a Plane Jet with an Extended Lip-Plate and Serrated Tabs, *Journal of Fluid Science and Technology*, Vol. 4, No. 2, pp.268-278, (2009.5).
- 木村繁男, 野原庸平, 木綿隆弘, 小松信義
上方冷却による2成分系水溶液の凝固プロセス, *日本機械学会論文集 (B編)*, Vol. 75, No. 753, pp.1143-1150, (2009.5).
- Kanaoka,Y., Kimura,S., Vynnycky,M., Kimura,O., Kiwata,T.
Method for Measuring Fluid Velocity Based on Periodic Heating and MEMS Techniques, *Int. J. Transport Phenomena*, Vol. 11, No. 1, pp.63-77, (2009).
- Komatsu,N., Kiwata,T., Kimura,S.
Numerical irreversibility in self-gravitating small N-body systems. (II). Influence of instability affected by softening parameters, *Physica A*, Vol. 388, Issue 5, pp.639-650, (2009.3).
- Fujioka,Y., Kimura,S., Kiwata,T., Komatsu,N., Nakamura,K.
Observation of Turbulent Diffusion in a Deciduous Forest Canopy in Winter, *Proceedings of the 3rd International Symposium on Biomechanics, Human Function and Information Science*, Kanazawa, JAPAN, pp.III76-III91, (2009.2).
- Abdelkareem,A.H., Kimura,S., Kiwata,T., Komatsu,N.
Oscillatory Natural Convection in a Hele-Shaw Cell Due to Unstably-Heated Side, *Transport in Porous Media*, Vol. 76 (3), pp.363-375, (2009.2).
- Kanev,K., Kimura,S., Orr,T.
A framework for collaborative working in dynamic group environments, *J. of Distance Education Technologies*, Vol. 7, No. 1, pp.58-77, (2009.1).
- Bardakov,R.N., Kistovich,A.V., Kimura,S.
The calculation of sound velocity for inhomogeneous fluid, *Fluxes and Structures in Fluid-2007: Selected Papers*, Edited by Y.D. Chashechkin and V.G. Baydulov, Institute for Problems in Mechanics of the Russian Science of Academy, pp.18-23, (2008).
- 木綿隆弘, 喜多哲義, 山田達郎, 高田真映, 小松信義, 木村繁男
リンク機構による可変ピッチ式直線翼型垂直軸風車の性能に関する研究, *日本機械学会論文集 (B編)*, Vol. 74, No. 748, pp.2543-2551, (2008.12).
- 木綿隆弘, 富岡裕之, Elkhoury,M., 喜多哲義, 小松信義
可変ピッチ式垂直軸風車性能に関する研究, 第20回風工学シンポジウム論文集, pp.127-132, (2008.12).
- Lee,Y.H., Kimura,S., Kiwata,T., Komatsu,N., Kim,Y.H.
Structure Analysis on Thermal Deformation of Liquefield Gas Vaporizer (LNG Satellite Station), *Proc. of 4th International Conference on Cooling and Heating Technologies*, Jinhae City, KOREA, pp.265-271, (2008.10).
- Rokugou,A., Kiwata,T., Okajima,A., Kimura,S., Yamamoto,H.
Numerical Analysis of Aerodynamic Sound Radiated from Rectangular Cylinder, *Journal of Wind Engineering and Industrial Aerodynamics*, Vol. 96, No. 10-11, pp.2203-2216, (2008.10).
- Yamada,T., Kiwata,T., Kita,T., Elkhoury,M.
Performance of a Variable-Pitch Vertical-Axis Wind Turbine Using a Four-bar Linkage Device, *Proceedings of the 7th JSME-KSME Thermal and Fluids Engineering Conference*, Sapporo, JAPAN, K224 (CD-ROM), pp.1-4, (2008.10).
- Kiwata,T., Murata,H., Kimura,S., Komatsu,N.
Flow Characteristics of Plane Jet with an Extended Lip and Tabs, *Proc. of 2nd International Conference on Jets, Wakes and Separated Flows*, Berlin, GERMANY, ICJWSF- 08_Kiwata (CD-ROM), pp.1-9, (2008.10).
- Kanev,K., Kimura,S., Yoneya,M.
E-learning Fluid Flows: Tank Discharge Through

- an Orifice, Proceedings of Inter-Academia 2008, Pecs, HUNGARY, pp.144-151, (2008.9).
- Komatsu,N., Kiwata,T., Kimura,S.
Numerical irreversibility and instability in self-gravitating small N-body systems, Proceedings of the 5th International Conference on Nonlinear Science, Dynamics Days Asia Pacific 5 (DDAP5), Nara, JAPAN, pp.112, (2008.9).
- Kanaoka,Y., Kimura,S., Vynnycky,M., Kiwata,T.
Temperature Signal Characteristics of the MEMS Flow Sensor Adopting a Periodic Heating Method at Low Flow Velocities, Proceedings of the 19th International Symposium on Transport Phenomena, Reykjavik, ICELAND, ISPT19-58 (CD-ROM), pp.1-7, (2008.8).
- Vynnycky,M., Kimura,S.
Towards a Natural-Convection Model for the Mpemba Effect, Proceedings of the 19th International Symposium on Transport Phenomena, Reykjavik, ICELAND, ISPT19-216 (CD-ROM), pp.1-7, (2008.8).
- 山田達郎, 木綿隆弘, 喜多哲義, 小松信義
可変ピッチ式直線翼垂直軸風車における翼の揺動による動力損失, 日本風力エネルギー, Vol. 32, No. 2, pp.129-134, (2008.7).
- Kiwata,T., Okajima,A.
Flow-Induced Streamwise Oscillation of Square Cylinders, Proc. of 9th International Conference on Flow-Induced Vibrations Symposium, Prague, CZECH REPUBLIC, pp.675-680, (2008.7).
- Komatsu,N., Kimura,S., Kiwata,T.
Irreversibility and Instability in Long-range Interacting Systems, Creation of Non-Equilibrium Soft Matter Physics, -Structure and Dynamics of Mesoscopic Systems-, Abstracts of the International Symposium on Non-Equilibrium Soft Matter, Kyoto, JAPAN, pp.36, (2008.6).
- Komatsu,N., Kiwata,T., Kimura,S.
Numerical irreversibility in self-gravitating small N-body systems, Physica A, Vol. 387, Issue 10, pp.2267-2278, (2008.4).
- Ueno,M., Kimura,S., Kiwata,T., Komatsu,N.
Solidification of Water Around A Vertical Cooling Cylinder, Proceedings of the 2nd International Symposium on Biomechanics, Healthcare and Information Science, the 4th B-J-K Symposium on Biomechanics, Kanazawa, JAPAN, pp.1-6, (2008.3).
- Masuda,Y., Yoneya,M., Suzuki,A., Kimura,S., Alavyoon,F.
Numerical analysis of double-diffusive convection in a porous enclosure due to opposing heat and mass fluxes on the vertical walls - Why does peculiar oscillation occur?, International Journal of Heat and Mass Transfer, Vol. 51, No. 1-2, pp.383-388, (2008.1).
- 榎本啓士, 飯田哲也, 稗田 登, 今井有希子, 原人志
“局所接触型マイクロ波加熱式液体噴射装置による液滴分散領域に及ぼす燃料温度の影響 (簡易画像処理による評価)” 日本機械学会 74 巻 740 号 B 編, pp. 930-935, 2008
- 榎本啓士, 高桑啓輔, 飯田哲也
“局所接触型マイクロ波加熱式インジェクタの噴射期間と反射波の相関”, JSAE20085899, 2008.
- 榎本啓士, 飯田哲也, 稗田 登, 今井有希子, 原人志
“同軸加熱装置によるエタノール加熱の温度分布におよぼすマイクロ波強度の影響”, 設計工学, Vol. 43, No. 6, pp. 339-344, 2008
- 榎本啓士, 西村大志, 小松崎俊彦, 平松倫直, 福永洋輔
“車両姿勢安定化システムのための電子制御式ショックアブソーバの開発”, 設計工学, Vol. 43, No. 7, pp. 376-381, pp. 53-58, 2008
- 榎本啓士, 小松崎俊彦, 西村大志
“有限要素法磁界解析による電磁流体封入ショックアブソーバ用ピストン半径の最適化”, Transaction of Society of Automotive Engineers of Japan, Vol. 39, No. 6, pp. 53-58, 2008.
- 榎本啓士
“マイクロ波を利用した動的燃焼制御に関する研究”, 日本燃焼学会誌, Vol. 50, No. 153, pp. 178-179, 2008.
- 榎本啓士, 飯田哲也
“局所接触型マイクロ波加熱式燃料噴射装置の開発”, 設計工学, Vol. 44, No. 2, pp. 112 - 115, 2009.
- 榎本啓士, 飯田哲也
“局所接触型マイクロ波加熱式インジェクタが生成する噴霧の液滴直径分布に与えるマイクロ波加熱の影響”, Transactions of Society of Automotive Engineers of Japan, Vol. 40, No. 3, pp. 769 - 774, 2009.
- Kenichi Shimizu, Wataru Sato, Hiroshi Enomoto, Masahiko Yashiro
“Torque Control of the Small Gasoline Engine with the Variable Nozzle Turbine Turbo-Charger”, Society of Automotive Engineers, 20097169, 2009.
- Tatsuya Fukui, Hiroshi Enomoto, Yusuke Miyazaki, Shinobu Sakai
“Effect of the Seat belt Positions on the Passenger Injury during Low Speed Front-End Impact”, Society of Automotive Engineers, 20097170, 2009.
- Tatsuya Fukui, Hiroshi Enomoto
“Decreasing of the Idle Engine Speed of the Small Gasoline Engine with PID Control”, Society of Automotive Engineers, 20097171, 2009.
- 榎本啓士, 飯田哲也
“レーザー回折法による局所接触型マイクロ波加熱式インジェクタの噴霧粒径分布計測”, 設計工学, Vol. 44, No. 8, pp.447 - 450, 2009.
- Tran Thi Thu Huong, Hiroshi Enomoto, Motoki Kushita, Takashi Iida
“Spray characteristics of Ethanol fuel using Local-contact Microwave-heating Injector”, 15th Asia

- Pacific Automotive Engineering Conference, 2009.
- 榎本啓士, 佐藤航, 高橋恭平, 元井博康, 家城雅彦
“過給機付小排気量ガソリン機関トルクに対するカムオーバーラップおよび吸気カム位相の影響”, 設計工学, Vol. 45, No. 1, pp. 20-23, 2010.
- Tran Thi Thu Huong, Hiroshi Enomoto, Motoki Kushita, Takaaki Sakitsu
“Effect of Fuel Temperature on Spray Properties using Local-contact Microwave-heating”, FISITA2010-SC-0-16, 2010.
- 稗田登, 榎本啓士
“創成型科目の履修による学習動機の改善効果”, 設計工学, Vol. 45, No. 5, pp. 41-44, 2010
- 榎本啓士, 福井龍也, 前田泰良, 中尾仁
“フィードバック制御による小排気量ガソリン機関のアイドリング回転数低減”, 設計工学, Vol. 45, No. 6, pp. 44-47, 2010
- 榎本啓士ほか4名
“小型ガソリンエンジン用電子制御過給機の開発”, 設計工学, Vol. 46, No. 5, pp. 33-36, 2011
- 榎本啓氏ほか3名
“MADYMOによるFormula SAE車両の前面衝突安全性能の検証”, 設計工学, Vol. 45, No. 11, pp. 48-51, 2010
- Hajime Komatsu, Hiroshi Enomoto, Toshihiko Komatsuzaki, Kohei Izumi
“Effect of cylinder diameter of monotube-type MR-damper on the damping force changing ratio and the response time”, Society of Automotive Engineers, 2011-32-0580, 2011
- Hajime Komatsu, Hiroshi Enomoto, Toshihiko Komatsuzaki, Kohei Izumi
“Effect of Electrically controlled MR-damper on the cornering of small racing car”, Society of Automotive Engineers, 2011-32-0588, 2011
- Thu Huong Thi Tran, Hiroshi Enomoto, Kosuke Nishioka, Kenichi Shimizu
“Feed-back control of ignition timing using peak cylinder pressure angle with rough timing table”, Society of Automotive Engineers, 2011-32-0578, 2011
- Thu Huong Thi Tran, Hiroshi Enomoto, Kosuke Nishioka, Kenichi Simizu
“Development of Small Gasoline Engine with Electronic Variable Valve Timing Unit”, Society of Automotive Engineers, 2011-32-0579, 2011
- Thu Huong Thi Tran, Hiroshi Enomoto, Kosuke Nishioka, Motoki Kushita, Takaaki Sakitsu, Naoki Ebisawa
“Effects of Ethanol Ratio and Temperature on Gasoline Atomizing using Local-contact Microwave-heating Injector”, Society of Automotive Engineers, 2011-32-0582, 2011
- 田中隆太郎, 山根八洲男, 上田隆司, 細川晃, 白神哲夫
BN添加鋼の穴加工, 砥粒加工学会誌, 52巻, 1号, pp. 28-33, (2008. 1).
- 杉原成良, 古本達明, 上田隆司
レーザ歯科治療用光ファイバ先端の加工, 砥粒加工学会誌, 52巻, 3号, pp. 164-169, (2008. 3).
- 山田啓司, 上田隆司, 堀居直幸, 細川晃, 田中隆太郎
YAGレーザによる歯科治療に関する研究(第3報) - 窩洞形成における水の影響 -, 精密工学会誌, 74巻, 2号, pp. 150-154, (2008. 3).
- 和賀正明, 上田隆司, 古本達明, 杉原成良
Nd:YAGレーザとTiO₂による*in vitro*での殺菌効果, 日本レーザ歯学会誌, 19巻, 1号, pp. 10-16, (2008. 4).
- T. Furumoto, T. Ueda, T. Tsukamoto, N. Kobayashi, A. Hosokawa and S. Abe
Study on Laser Consolidation of Metal Powder with Yb fiber laser -Temperature Measurement of Laser Irradiation Spot, Proc. of LPM2008, #08-22, (2008. 6).
- 古本達明, 上田隆司, 細川晃, Abdullah Yassin, 阿部諭
Yb:fiberレーザによる混合金属粉末の焼結特性に関する研究-プレート面性状の違いによるライン焼結物の幅および比切削抵抗の評価-, 精密工学会誌, 74巻, 8号, pp. 836-840, (2008. 8).
- 古本達明, 上田隆司, 塚本卓, 小林直人, 細川晃, 阿部諭
ファイバーレーザを用いた金属粉末のレーザ結合に関する研究-レーザ照射部の温度測定-, 粉体および粉末冶金, 55巻, 8号, pp. 561-567, (2008. 8).
- Y. Abdullah, T. Ueda, A. Hosokawa, T. Furumoto, R. Tanaka and S. Abe
Study on cutting characteristics of sintered material with Yb:Fiber laser, Journal of Advanced Mechanical Design, Systems, and Manufacturing, Vol. 2, No. 5, pp. 833-843, (2008. 8).
- T. Ueda, M. Sato, A. Hosokawa, M. Ozawa
Development of Infrared Radiation Pyrometer with Optical Fibers - Two-color Pyrometer with Non-contact Fiber Coupler -, CIRP Annals, Vol. 57, No. 1, pp. 69-72, (2008. 8).
- 古本達明, 上田隆司, 青木慎太郎, 葛西惇士
レーザ歯科治療に用いる光ファイバ先端の加工(第2報)-ファイバ先端の加工材評価-, 砥粒加工学会誌, 52巻, 10号, pp. 595-600, (2008. 10).
- 細川晃, 小澤匡史, 田中隆太郎, 古本達明, 上田隆司
旋削加工におけるMQLの効果-ファイバ連結型2色温度計を用いた工具刃先温度の測定-, 精密工学会誌, 74巻, 10号, pp. 1080-1085, (2008. 10).
- M. Ozawa, A. Hosokawa, R. Tanaka, T. Furumoto and T. Ueda
Minimum Quantity Lubrication Turning Using Tools with oil Holes, 2008 ASPE/ICPE meeting, pp. 221-224, (2008. 11).
- R. Tanaka, A. Hosokawa, T. Ueda, T. Furumoto, T. Kusano and Y. C. Lin
Improvement of Chip Controllability of Carbon

- Steel in Turning by Laser Heat, 2008 ASPE/ICPE meeting, pp. 229-232, (2008. 11).
- 上田隆司, Abdullah YASSIN, 古本達明, 細川晃, 田中隆太郎, 阿部諭
金属粉末光造形複合加工における小径ボールエンドミルの切削性能, 砥粒加工学会誌, 52巻, 12号, pp. 718-723, (2008. 12).
- 小澤匡史, 細川晃, 田中隆太郎, 古本達明, 上田隆司
旋削加工におけるMQLの効果, 工具すくい面および逃げ面に供給されるオイルミストの作用機構, 砥粒加工学会誌, 53巻, 2号, pp. 88-93, (2009.2).
- R. Tanaka, H. Morishita, Y. C. Lin, A. Hosokawa, T. Ueda and T. Furumoto
Cutting Tool Edge Temperature in Finish Hard Turning of Case Hardened Steel, Key Engineering Materials, Vol. 407-408, pp. 538-541, (2009.2).
- T. Kito, R. Tanaka, A. Hosokawa, T. Ueda and T. Furumoto
Prevention of Burr Formation in Face Milling of Carbon Steel by Laser Hardening, Key Engineering Materials, Vol. 407-408, pp. 672-675, (2009.2).
- T. Kusano, R. Tanaka, A. Hosokawa, T. Ueda, T. Furumoto and Y. C. Lin
Influence of On-the-machine Laser Hardening on Machinability of Carbon Steel in Turning, Key Engineering Materials, Vol. 407-408, pp. 690-693, (2009.2).
- T. Furumoto, T. Ueda, T. Tsukamoto, A. Yassin, A. Hosokawa and S. Abe
Study on Laser Consolidation of Metal Powder with Yb fiber laser, Temperature Measurement of Laser Irradiation Spot, Journal of Laser Micro/Nanoengineering, Vol. 4, No. 1, pp. 22-27, (2009.2).
- 田中隆太郎, 鬼頭昂志, 細川晃, 上田隆司, 古本達明
炭素鋼の正面フライスにおけるバリの抑制におよぼす被削材のレーザー熱処理の効果, 砥粒加工学会誌, 53巻, 6号, pp. 379-384, (2009.6).
- T. Furumoto, T. Ueda, T. Osaka, A. Yassin, A. Hosokawa and R. Tanaka
Study on Laser Assisted Milling of Ferrous Based Consolidated Material, Proc. of ICMDT2009, pp. 47, (2009.6).
- A. Yassin, T. Ueda, T. Furumoto, M. Sanusi, R. Tanaka and A. Hosokawa
Study on Wear Mechanism in Milling Sintered Material, Proc. of ICMDT2009, pp. 46, (2009.6).
- T. Furumoto, T. Ueda, S. Aoki, A. Kasai, A. Hosokawa, R. Tanaka and H. Tachiya
Study on Measurement of Impulse Force Induced by Nd:YAG Laser Beam, Proc. of LAMP2009, pp. 327, (2009.6).
- A. Yassin, T. Ueda, T. Furumoto, A. Hosokawa, R. Tanaka and S. Abe
Experimental Investigation on Cutting Mechanism of Sintered Material Using Small Ball End Mill, Journal of Materials Processing Technology, Vol. 209, No. 15-16, pp. 5680-5689, (2009.8).
- 古本達明, 和賀正明, 上田隆司, 細川晃, 杉原成良, 今野明
Nd:YAGレーザー照射時の誘起衝撃力の測定, 吸収剤の違いによる衝撃力の変化, 日本レーザー歯学会誌, 20巻, 2号, pp. 67-73, (2009.8).
- T. Furumoto, S. Aoki, T. Ueda and A. Hosokawa
Fabrication of the Quartz Optical Fiber for Dental Treatment with Nd:YAG Laser, Proposal of the New Process with TiO₂ powder, Optics and Lasers in Engineering, Vol. 47, No. 9, pp. 941-947, (2009.9).
- T. Furumoto, T. Ueda, N. Kobayashi, A. Yassin, A. Hosokawa and S. Abe
Study on Laser Consolidation of Metal Powder with Yb: fiber laser, Evaluation of Line Consolidation Structure, Journal of Materials Processing Technology, Vol. 209, No. 18-19, pp. 5973-5980, (2009.9).
- T. Furumoto, T. Ueda, M. Waga, A. Kasai, A. Hosokawa, R. Tanaka and H. Tachiya
Study on Mechanism of Bactericidal Effect Induced by Nd:YAG Laser Irradiation, Variation of Impulse Stress with Absorbent, Proc. of ICMT2009, pp. 33, (2009.10).
- 古本達明, 上田隆司, 青木慎太郎, 葛西惇士, 細川晃, 立矢 宏
長棒を用いたレーザー誘起衝撃応力の測定, 日本機械学会誌, 75巻, 758号, pp. 2810-2815, (2009.10).
- K. Yamada, T. Ueda, A. Hosokawa, T. Furumoto and R. Tanaka
Dental Treatment with Laser Beam, Monitoring Methods to Realize Safety Removal of Hard Tooth Tissues, International Journal of Automation Technology, Vol. 3, No. 5, pp. 494-501, (2009.11).
- N. Kobayashi, T. Ueda, T. Furumoto, A. Hosokawa and R. Tanaka
Laser Sintering Characteristics of Metallic Powder with Yb Fiber Laser, Optimization of Processing Conditions about Laser irradiation, Proc. of LEM21, pp. 593-596, (2009.12).
- Y. Kano, T. Ueda, T. Furumoto, A. Hosokawa, R. Tanaka and T. Amino
Finishing of Inner Wall of Cooling Channel in Mold by High Speed Flowing, Proc. of LEM21, pp. 401-404, (2009.12).
- R. Takeda, T. Ueda, T. Furumoto, A. Hosokawa and R. Tanaka
Study on Cleaving Mechanism of Silicon Wafer By Laser Beam Irradiation, Proc. of LEM21, pp. 589-592, (2009.12).
- R. Tanaka, T. Kito, A. Hosokawa, T. Ueda, and T. Furumoto
Control of Machined Workpiece Edge Shape by Laser Hardening, Optimizing of Laser Scan Condition and Cutter Path, International Journal of Automation Technology, Vol. 4, No. 1, pp. 21-25, (2010.1).

- T. Furumoto, T. Ueda, S. Aoki, A. Kasai, A. Hosokawa, R. Tanaka and H. Tachiya
Study on Measurement of Dynamic Force Induced by Nd:YAG Laser Beam, *Journal of Laser Micro/Nanoengineering*, Vol. 5, No. 1, pp. 59-63, (2010.1).
古本達明, 上田隆司, 小林直人, 細川晃, 田中隆太郎, 阿部諭
Ybファイバーレーザによる混合金属粉末の焼結特性に関する研究(第2報), 焼結状態の定量評価手法の提案, *精密工学会誌*, 76巻, 2号, pp. 173-177, (2010.2).
- T. Furumoto, T. Ueda, T. Osaka, A. Yassin, A. Hosokawa and R. Tanaka
Study on Laser Assisted Milling of Ferrous Based Consolidated Material, *Journal of Mechanical Science and Technology*, Vol. 24, No. 1, pp. 127-130, (2010.2).
- A. Yassin, T. Ueda, T. Furumoto, M. Sanusi, R. Tanaka and A. Hosokawa
Study on Wear Mechanism in Milling Sintered Material, *Journal of Mechanical Science and Technology*, Vol. 24, No. 1, pp. 77-80, (2010.2).
- 鬼頭昂志, 田中隆太郎, 細川晃, 上田隆司, 古本達明
炭素鋼の正面フライス加工におけるバリの抑制におよぼす被削材のレーザ熱処理の効果(第2報), レーザ照射条件およびカッターパスの最適化, 砥粒加工学会誌, 54巻, 6号, pp. 359-365, (2010.6).
- 田中隆太郎, 井上豪, 細川晃, 古本達明, 上田隆司
レーザ複合切削による創生面の摩擦特性, 静止摩擦における特性, *日本機械学会誌*, 76巻, 764号, pp. 794-799, (2010.8).
- A. Hosokawa, T. Ueda, R. Onishi, R. Tanaka and T. Furumoto
Turning of Difficult-to-Machine Materials with Actively Driven Rotary Tools, *CIRP Annals - Manufacturing Technology*, Vol. 59, No. 1, pp. 89-92, (2010.8).
- T. Furumoto, A. Kasai, H. Tachiya, A. Hosokawa and T. Ueda
Study on Elucidation of Bactericidal Effects Induced by Laser Beam Irradiation, Measurement of Dynamic Stress on Laser Irradiated Surface, *Optics and Lasers in Engineering*, Vol. 48, No. 9, pp. 827-833, (2010.9).
- T. Furumoto, T. Ueda, M. Sanusi, A. Hosokawa and R. Tanaka
Study on Reduction of Residual Stress Induced in Rapid Tooling Process, Influence of Heating Conditions on Residual Stress, *Key Engineering Material*, Vol. 447-448, pp. 785-789, (2010.9).
- T. Furumoto, T. Ueda, Y. Kano, A. Hosokawa and R. Tanaka
Study on Inner Face Polishing of Cooling Channel within Molding Die with Flowing Slurry, Polishing Characteristics of Cooling Channel Obtained by Layered Manufacturing Process, *CIRP HPC2010*, Vol. 1, pp. 389-392, (2010.10).
- 嶋村公二, 細川晃, 上田隆司, 政誠一
PVDコーティング工具による難削材の高効率・高精度切削(第1報) —UBMS法によるTiCNコーティングエンドミルを用いたSUS304の高速乾式切削—, *精密工学会誌*, 76巻, 10号, pp.1183-1187, (2010.10).
- A. Kasai, T. Furumoto, T. Ueda, M. Waga, A. Hosokawa, R. Tanaka and H. Tachiya
Measurement of Dynamic Stress Generated in TiO₂ Solution, Induced by Nd:YAG Laser Beam Irradiation, *Proc. of ICMT2010*, pp. 337-341, (2010.11).
- T. Ueda, Y. Wakimura, T. Furumoto, A. Hosokawa and R. Tanaka
Experimental Investigation on Laser Flatterning of Sheet Metal, *Optics and Lasers in Engineering*, Vol. 49, No. 1, pp. 137-144, (2011.1).
- T. Furumoto, K. Nakatani, T. Ueda, A. Hosokawa, R. Tanaka
Study on temperature measurement during Er:YAG laser irradiation with two-color pyrometer, *Proc. of WFLD2011* (2011.6).
- M. Waga, T. Furumoto, T. Ueda
Combined Effect of Nd:YAG laser and TiO₂ on Bactericidal Action: *Proc. of WFLD2011* (2011.6).
- 上田隆司, 三野大樹, 古本達明, 細川晃, 長友正平
CO₂パルスレーザによるサファイアウエハの熱応力割断, 砥粒加工学会誌, 55巻, 7号, pp. 424-426, (2011.7).
- T. Furumoto, T. Ueda, A. Kasai and A. Hosokawa
Surface Temperature during Cavity Preparation on Human Tooth by Er:YAG Laser Irradiation, *CIRP Annals - Manufacturing Technology*, Vol. 60, No. 1, pp. 555-558, (2011.8).
- 和賀正明, 古本達明, 上田隆司, 杉原成良
Nd:YAGレーザーとTiO₂によるin vitroでの殺菌効果(第2報), *日本レーザー歯学会誌*, 22巻, 2-3号, pp. 77-84, (2011.8).
- 田中隆太郎, 井上豪, 中川智博, 細川晃, 古本達明, 上田隆司
レーザ複合切削による創生面の摩擦特性(第2報), 切削における表面創成メカニズムと静止摩擦力におよぼす油剤粘度の影響, *日本機械学会誌*, 77巻, 780号, pp. 241-246, (2011.8).
- T. Furumoto, T. Ueda, T. Amino and A. Hosokawa
Study on Internal Face Finishing of Cooling Channel in Injection Mold with Free Abrasive Grains, *Journal of Materials Processing Technology*, Vol. 211, No. 11, pp. 1742-1748, (2011.11).
- 田中隆太郎, 鬼頭昂志, 細川晃, 古本達明, 上田隆司
レーザ熱処理によるステンレス鋼のフライス加工における切削バリの抑制, *日本機械学会誌*, 77巻, 783号, pp. 4318-4323, (2011.11).
- T. Furumoto, T. Ueda, T. Amino, S. Abe, A.

- Hosokawa and R. Tanaka
Internal Finishing of Cooling Channel in Molding Die with Free Abrasive Grains, Influence of Face Protuberance on Finishing Performance, Proc. of ASPEN2011, CD-ROM, (2011.11).
- T. Ishikawa, T. Ueda, T. Furumoto, A. Hosokawa and R. Tanaka
Thermal Stress Cleaving of Brittle Materials by Laser Beam Irradiation, Proc. of LEM21, CD-ROM, (2011.11).
- K. Nakatani, T. Furumoto, T. Ueda, A. Hosokawa and R. Tanaka
Study on Temperature Measurement of Human Enamel by Er:YAG Laser Irradiation-The Influence of Surface Temperature on the Dental Pulp, Proc. of LEM21, CD-ROM, (2011.11).
- A. Kano, T. Ueda, T. Furumoto, A. Hosokawa and R. Tanaka
Study on Aircraft Materials with Laser-Aided, Proc. of LEM21, CD-ROM, (2011.11).
- H. Nishimoto, R. Tanaka, A. Hosokawa, T. Ueda and T. Furumoto
Development of tool edge temperature measurement method in wet cutting, Application for CBN and Poly Crystalline Diamond tools, Proc. of LEM21, CD-ROM, (2011.11).
- S. Yamazaki, R. Tanaka, A. Hosokawa, T. Ueda and T. Furumoto and M. Okada
Tool edge temperature of spiral tap at tapping, Grasp of cutting behavior and measurement of tool edge temperature by two-color pyrometer, Proc. of LEM21, CD-ROM, (2011.11).
- M. S. A. Aziz, T. Furumoto, T. Ueda, S. Abe, A. Hosokawa and R. Tanaka
Study on Residual stress mechanism induced in layered manufacturing process, Key Engineering Materials, (Accepted).
- 三谷壮士, 沙魚川智之, 渡邊千尋, 門前亮一
高速度工具鋼の疲労挙動への窒素の効果, 日本金属学会誌, 72, pp. 105-110, (2008. 2).
- C. Watanabe, R. Monzen and K. Tazaki
Mechanical properties of Cu-Cr system alloys with and without Zr and Ag, Journal of Materials Science, 43, pp. 813-819, (2008. 3).
- C. Watanabe, R. Monzen and K. Tazaki
Effects of Al₃Sc particle size and precipitate-free zones on fatigue behavior and dislocation structure of an aged Al-Mg-Sc alloy, International Journal of Fatigue, 30, pp. 635-641, (2008. 4).
- D. Watanabe, C. Watanabe and R. Monzen
Coarsening behavior of Co precipitates in Cu-Co alloys, Metallurgical and Materials Transactions A, 39, pp. 725-732, (2008. 4).
- R. Monzen and C. Watanabe
Microstructure and mechanical properties of Cu-Ni-Si alloys, Materials Science and Engineering A, 483-484, pp. 117-119, (2008. 6).
- 西嶋文哉, 野村幸矢, 渡邊千尋, 門前亮一
Cu-Ni-Sn-P合金の応力緩和特性の解明, 日本金属学会誌, 72, pp. 427-432, (2008. 6).
- K. Kitagawa, T. Akita, K. Kita, M. Gotoh, N. Takata and N. Tsuji
Structure and Mechanical Properties of Severely Deformed Cu-Cr-Zr Alloys Produced by Accumulative Roll-Bonding Process, Materials Science Forum, 584-586, pp.791-796, (2008. 8).
- S. Takahashi, T. Sasaki, Y. Sato, K. Iwafuchi, H. Suzuki, Y. Morii, Y. Kondo, R. Monzen, Y. Hirose
Application of neutron diffraction technique to industrial materials, Materials Science Forum, 571-572, pp. 57-62, (2008. 8).
- 西嶋文哉, 細田圭純, 渡邊千尋, 門前亮一, 野村幸矢
Cu-Ni-Sn-P合金の応力緩和特性, 銅と銅合金, 47, pp. 50-55, (2008. 8).
- 門前亮一, 沙魚川智之, 渡邊千尋
Cu-Be-Co合金の320℃時効に伴う寸法変化と析出挙動, 銅と銅合金, 47, pp. 131-136, (2008. 8).
- 北川和夫, 北和久, 鈴木大介, 高田尚記, 辻伸泰
ARB法により強ひずみ加工した超微細粒Cu-Cr-Zr合金の機械的特性, 銅と銅合金, 47, pp. 66-72, (2008. 8).
- C. Watanabe, T. Sakai and R. Monzen
Misfit strains of precipitated phases and dimensional changes in Cu-Be alloys, Philosophical Magazine, 88, pp. 1401-1410, (2008. 9).
- C. Watanabe, D. Watanabe and R. Monzen
Coarsening of Co-rich precipitates in a Cu-Co-Fe ternary alloy, Journal of Materials Science, 43, pp. 3817-3824, (2008. 11).
- D. Watanabe, C. Watanabe and R. Monzen
Effect of coherency on coarsening of second-phase precipitates in Cu-base alloys, Journal of Materials Science, 43, pp. 3817-3824, (2008. 11).
- 三谷壮士, 寺沢正志, 沙魚川智之, 渡邊千尋, 門前亮一
加工熱処理を適用したW-Mo系高速度工具鋼の疲労挙動, 日本金属学会誌, 72, pp. 847-851, (2008. 11).
- D. Watanabe, C. Watanabe, R. Monzen
Ostwald ripening of coherent and semi-coherent particles in Cu-base alloys, Proceedings of The 9th Asia-Pacific microscopy conference, pp. 505-506, (2008. 11).
- C. Watanabe and R. Monzen
Precipitation sequence in a Cu-Ni-Be alloy, Proceedings of The 9th Asia-Pacific microscopy conference, pp. 591-592, (2008. 11).
- T. Mitani, T. Hasegawa, T. Terazawa, C. Watanabe and R. Monzen
Influence of Nitrogen on fatigue properties of a high-speed steel, Proceedings of The 9th Asia-Pacific microscopy conference, pp. 595-596, (2008. 11).

- Y. Ishino, C. Watanabe and R. Monzen
Low-cycle fatigue and dislocation structure of Al-Mg alloy with Sc at elevated temperature, Proceedings of The 9th Asia-Pacific microscopy conference, pp. 599-600, (2008. 11).
- R. Monzen, T. Hasegawa and C. Watanabe
Influence of heavily plastic deformation on precipitation behavior in a Cu-1.8wt%Be-0.2 wt%Co alloy at 320°C, Proceedings of The 9th Asia-Pacific microscopy conference, pp. 641-642, (2008. 11).
- T. Hasegawa, C. Watanabe and R. Monzen
Effect of an applied stress for discontinuous precipitation in a Cu-Be alloy, Proceedings of The 9th Asia-Pacific microscopy conference, pp. 643-644, (2008. 11).
- R. Monzen, T. Hasegawa and C. Watanabe
Effect of prior deformation on dimensional change and precipitation process in a Cu-1.8wt%Be-0.2wt% Co alloy aged at 320°C, Philosophical Magazine Letters, 89, pp. 1-11, (2009. 1).
- N. Takata, Y. Ohtake, K. Kita, K. Kitagawa and N. Tsuji
Increasing the ductility of ultrafine-grained copper alloy by introducing fine precipitates, Scripta Materialia, 60, pp. 590-593, (2009. 4).
- D. Watanabe, C. Watanabe and R. Monzen
Determination of the interface energies of spherical, cuboidal and octahedral face-centered cubic precipitates in Cu-Co, Cu-Co-Fe and Cu-Fe alloys, Acta Materialia, 57, pp. 1899-1911, (2009. 6).
- 下平圭太, 渡邊千尋, 門前亮一, 佐藤尚, 渡辺義見
Cu-Ni-SiおよびCu-Ni-Be系合金の機械的特性, 銅と銅合金, 48, pp. 135-139, (2009. 8).
- 下平圭太, 田邊直輝, 渡邊千尋, 門前亮一
Cu-Ni-Si及びCu-Ni-Be系合金の応力緩和特性, 銅と銅合金, 48, pp. 140-143, (2009. 8).
- 北和久, 浜田健, 北川和夫
純銅の摩擦攪拌接合継手の組織と強度特性, 銅と銅合金, 48, pp. 229-234, (2009. 8).
- 北和久, 鈴木大介, 北川和夫, 寺田大将, 辻伸泰
銅と銅合金, 48, pp. 239-244, (2009. 8).
- 寺沢正志, 沙魚川智之, 三谷状士, 渡邊千尋, 門前亮一
W-Mo系高速度工具鋼の高温疲労特性, 鉄と鋼, 95, pp. 27-31, (2009. 9).
- C. Watanabe, D. Watanabe, R. Tani and R. Monzen
Coarsening of cuboidal Al₃Sc precipitates in an Al-Mg-Sc alloy, Philosophical Magazine Letters, 90, pp. 103-111, (2010. 2).
- R. Monzen, T. Hasegawa and C. Watanabe
Effect of external stress on discontinuous precipitation in a Cu-2.1wt%Be alloy, Philosophical Magazine, 90, pp. 1347-1358, (2010. 10).
- R. Monzen, T. Terazawa and C. Watanabe
Effect of applied stress on nucleation and growth of precipitates in a Cu-Be-Co alloy, Materials Science Forum, 645-656, pp. 922-925, (2010. 5).
- C. Watanabe and R. Monzen
Low-cycle fatigue behavior of an Al-Mg-Si alloy with and without a small addition of Sc, Materials Science Forum, 645-656, pp. 938-941, (2010. 5).
- 野村幸矢, 三輪洋介, 島田祐介, 渡邊千尋, 門前亮一,
Cu-Ni-P合金の強度と応力緩和特性に及ぼすMgおよびFe添加の影響, 日本金属学会誌, 74, pp. 325-330, (2010. 5).
- R. Monzen, T. Terazawa and C. Watanabe,
Influence of external stress on discontinuous precipitation behavior in a Cu-Ag Alloy, Metallurgical and Materials Transaction A, 41, pp. 1936-1941, (2010. 8).
- 細田圭純, 渡邊千尋, 門前亮一
Cu-Be-Co合金の曲げ加工性と強度に及ぼすMg添加の影響, 銅と銅合金, 49, pp. 205-209, (2010. 8).
- C. Watanabe and R. Monzen
Fatigue behavior and microstructure of an Al-Mg-Sc alloy at an elevated temperature, Journal of Physics: Conference Series, 240, 012049, (2010. 10).
- R. Monzen, Y. Shimada, C. Watanabe
Mechanical properties of Cu-Ni-Be system alloys, Journal of Physics: Conference Series, 240, 012102, (2010. 10).
- R. Monzen, T. Terazawa, C. Watanabe
Effect of an applied stress on discontinuous precipitation in a Cu-Ag alloy, Journal of Physics: Conference Series, 240, 012167, (2010. 10).
- T. Akita, K. Kitagawa, K. Kita, M. Gotoh, Y. Hirose and N. Tsuji
High performance of mechanical and electrical properties of Cu-Cr-Zr alloy sheets produced by ARB process and additional thermo-mechanical treatment, Journal of Physics: Conference Series, 240, 012119, (2010. 10).
- C. Watanabe and R. Monzen
Precipitation process in a Cu-Ni-Be alloy, Solid State Phenomena, 172-174, pp. 432-436, (2011. 6).
- T. Hasegawa, Y. Takagawa, C. Watanabe, R. Monzen
Deformation of Cu-Be-Co alloys by aging at 593K, Materials Transactions 52, pp. 1685-1688, (2011. 8).
- 高川優作, 渡邊千尋, 門前亮一, 寺田大将, 辻伸泰
ARB法により強ひずみ加工した析出強化型Cu基合金の機械的特性, 銅と銅合金, 50, pp. 226-230, (2011. 8).
- 野村幸矢, 三輪洋介, 高川優作, 渡邊千尋, 門前亮一, 寺田大将, 辻伸泰
Cu-Ni-P系合金の析出強化特性に及ぼすARB法および冷間圧延法の影響, 日本金属学会誌, 75, pp. 509-515, (2011. 9).
- R. Monzen, Y. Takagawa, C. Watanabe, D. Terada and N. Tsuji
Mechanical properties of precipitation strengthening Cu-base alloys highly deformed by ARB process, Procedia Engineering, 10, pp. 2417-2422,

- (2011.10).
- R. Monzen, T. Hosoda, Y. Takagawa, C. Watanabe
Bend formability and strength of Cu-Be-Co alloys,
Journal of Materials Science, 46, pp. 4284-4289,
(2011.12).
- C. Watanabe and R. Monzen
Coarsening of δ -Ni₂Si precipitates in a Cu-Ni-
Si alloy, Journal of Materials Science, 46, pp. 4323-
4335, (2011.12).
- Keisuke Asahara, Tomoaki Iwai, and Yutaka
Shokaku
Frictional Properties of Polyvinyl Alcohol Hydro-
gel Blended with Alpha-TCP, Proceedings of the
International Conference BALTTTRIB'2011, Kaunas,
Lithuania (2011.11) 269-274.
- Tomoaki Iwai, Yuya Sakano, and Yutaka Shokaku
Friction and Wear Properties of Polyamide-imide
Composites under Hydrogen Atmosphere, Pro-
ceeding of the International Tribology Conference,
Hiroshima 2011, (2011.10) P02-12.
- Yuya Sakano, Tomoaki Iwai, and Yutaka Shokaku
Friction and Wear Properties of PTFE Composites
against 6061-T6 Aluminum Alloy under Hydrogen
Environment, Proceeding of the International Tri-
bology Conference, Hiroshima 2011, (2011.10) B3-
08.
- Keisuke Asahara, Tomoaki Iwai, and Yutaka
Shokaku
Frictional Property of Polyvinyl Alcohol Hydrogel
Blended with Alpha-TCP, Proceeding of the In-
ternational Tribology Conference, Hiroshima 2011,
(2011.10) P03-11.
- Yasuhiro Yoshioka, Tomoaki Iwai, and Yutaka
Shokaku
Measurement of Pressure Distribution of Shoe Sole
during Walking and its Relation to Slippage, Pro-
ceeding of the International Tribology Conference,
Hiroshima 2011, (2011.10) P03-06.
- Akihiro Takimi, Tomoaki Iwai, and Yutaka Shokaku
Relationships between Wiping Properties of Water
and Contact Area of Rubber Edges for Sipes of
Studless Tire, Proceeding of the International Tri-
bology Conference, Hiroshima 2011, (2011.10) P03-
03.
- Yusuke Minami, Tomoaki Iwai, and Yutaka Shokaku
Observation of the Behavior in the Tire Contact
Area between Porous Rubber and Mating Surface
during Sliding, Proceeding of the International Tri-
bology Conference, Hiroshima 2011, (2011.10) P03-
07.
- Yuya Sakano, Tomoaki Iwai, and Yutaka Shokaku
Friction and Wear Properties of PTFE Compos-
ites against 6061-T6 Aluminum Alloy under Hy-
drogen Atmosphere, Proceedings of the ASME/
STLE 2011 International Joint Tribology Confer-
ence IJTC2011, Los Angeles, California (2011.10),
IJTC2011-61258.
- Yasuhiro Yoshioka, Tomoaki Iwai, and Yutaka
Shokaku
Measurement of Pressure Distribution of Shoe Sole
During Walking and its Relation to Slippage, Pro-
ceedings of the ASME/STLE 2011 International
Joint Tribology Conference IJTC2011, Los Angeles,
California (2011.10), IJTC2011-61238.
- Akihiro Takimi, Tomoaki Iwai, and Yutaka Shokaku
Measurement of Water Film Thickness Due to
Sipe Edges of Studless Tire, Abstract of 30th An-
nual Meeting and Conference on Tire Science and
Technology, Akron, Ohio (2011.9) 15.
- Yusuke Minami, Tomoaki Iwai, and Yutaka Shokaku
Observation of Water behavior in the Contact
Area Between Porous Rubber and Mating Surface
During Sliding, Abstract of 30th Annual Meeting
and Conference on Tire Science and Technology,
Akron, Ohio (2011.9) 17.
- Tomoaki Iwai, Yutaro Kosugi, Yusuke Minami,
Yutaka Shokaku, Naoya Amino, and Takeomi
Kitamura
The Influence of Hydrophilicity on the Friction of
Porous Rubber, Proceedings of the 4th International
Tribology Conference on Manufacturing, Machine
Design and Tribology, Gamagori, Aichi (2011.4)
267-268.
- Tomoaki Iwai, Yutaro Kosugi, Yutaka Shokaku,
Naoya Amino, and Takamasa Kitamura
Observation of Water Behavior in the Contact
Area of Porous Rubber, Proceedings of the Inter-
national Tribology Conference - ASIATTRIB 2010
Perth Australia (2010.12) 1226.
- Yusuke Maeda, Tomoaki Iwai, and Yutaka Shokaku
Estimation of the Tire-Road Friction Based on
the Inner Surface Deformation of a Tire, Proceed-
ings of the International Tribology Conference -
ASIATTRIB 2010 Perth Australia, (2010.12) 1181.
- Koichi Ota, Tomoaki Iwai, Yutaka Shokaku, Kenichiro
Seki, Nobuyuki Katayama, Toshihiro Ichihashi and
Toshiki Ikeda
Evaluation of the Deterioration of Automatic
Transmission Fluid and Paper-Based Friction Ma-
terials using FT-IR Spectroscopy, Proceedings of
the ASME/STLE 2010 International Joint Tribol-
ogy Conference, San Francisco, California (2010.10),
IJTC2010-41236.
- Shoji Moriguchi, Tomoaki Iwai, and Yutaka Shokaku
Relationships between Frictional Properties and
Wiping Characteristics of Water by Rubber Edges,
Extended abstracts of the International Conference
BALTTTRIB'2009, Kaunas, Lithuania (2009.11) 20-
22.
- Yutaro Kosugi, Tomoaki Iwai, Yutaka Shokaku, and
Naoya Amino
Friction Characteristics of Porous Rubber under

- Wet Conditions, Proceedings of the ASME/STLE 2009 International Joint Tribology Conference, Memphis, Tennessee (2009.10), IJTC2009-15234.
- Yuki Yamamura, Tomoaki Iwai, and Yutaka Shokaku
ELISA Analysis of Latex Allergens on Wear Particles of Natural Rubber during Rolling-Sliding Contact, Proceedings of the ASME/STLE 2009 International Joint Tribology Conference, Memphis, Tennessee (2009.10), IJTC2009-15237.
- Tomoaki Iwai, Tomoyuki Higashiyama, Kosuke Ida, and Yutaka Shokaku
Friction and Wear of Rubber and PTFE in Hydrogen Atmosphere, Proceedings of World Tribology Congress 2009 (Kyoto, Japan) (2009.9) pp.17.
- Yutaro Kosugi, Tomoaki Iwai, Yutaka Shokaku, and Naoya Amino
Friction Properties of the Porous Rubber under wet condition, Proceedings of World Tribology Congress 2009 (Kyoto, Japan) (2009.9) pp.221.
- Yuki Yamamura, Tomoaki Iwai, and Yutaka Shokaku
The assay of Latex Allergens as a Function of Wear Particle Size of Natural Rubber during Rolling-Sliding Contact, Proceedings of World Tribology Congress 2009 (Kyoto, Japan) (2009.9) pp.238.
- Kenichiro Seki, Tomoaki Iwai, Toshihiko Ichihashi, and Toshiki Ikeda
The Friction Properties between Friction Modifier and Paper Based Friction Material, Proceedings of World Tribology Congress 2009 (Kyoto, Japan) (2009.9) pp.416
- Tomoaki Iwai, Ryuji Otsuka, and Yutaka Shokaku
Measurement of Slip in Contact Area between Shoe Sole and Mating Floor during Walking, The 3rd International Conference on Manufacturing, Machine Design and Tribology 2009, Ramada Plaza Jeju, (2009.9) 277.
- 宮崎祐介, 北山智史, 西田佳史, 持丸正明, 吉田健
乳児の多様な頭部形状に対するヘルメットの防護性能評価, 自動車技術会論文集, Vol.42, No.5, (2011.9), 1041~1046
- Kakara H., Nishida Y., Miyazaki Y. and Mizoguchi H.
Development of Database of Fall Dynamics Probabilistic Distribution for Biomechanical Simulation, Proceedings of The 2011 International Conference on Modeling Simulation and Visualization Methods, (2011.7) 82~88
- Miyazaki Y., Murata K., Yamasaki M., Nonaka M., Bamba Y., Iwase H., Nishida Y. and Yamanaka T.
Visualization of Intracranial Brain Motion During Shaking by Using a Realistically Shaped Physical Head Model, Abstract of Third International Conference on Pediatric Abusive Trauma, (2011.7), 2
- Anata K., Miyazaki Y., Tachiya H., Hojo A., Sakamoto Y.
RELATIONSHIP BETWEEN IMPACT CONDITIONS AND BRAIN SHEAR STRAIN IN ROTATIONAL HEAD IMPACTS, Proceedings of 13rd International Congress on International Society of Biomechanics, (2011.7)
- 宮崎祐介, 西村一晃, 片方健太, ジョナス アディティヤ プラムディタ, 宇治橋貞幸
側面衝突シミュレーションに基づいた自動車乗員傷害予測式の構築, 自動車技術会論文集 Vol.42, No.2, (2011.3), 349~354
- Hayashi Michihiro, Tachiya Hiroshi, Asakawa Naoki, Kawamura Takayuki
Determination method for power-saved driving motions of manipulators by heuristic algorithms (In case of PTP control), Journal of the Franklin Institute, 348, (2011. 2), 101~111.
- 立矢 宏, 荒井優樹, 奥野公輔, 宮崎祐介, 西村誠次
パラレルワイヤ駆動機構を用いた人体の転倒実験装置-座位での転倒評価の検討-, 日本機械学会論文集C編, Vol. 76, No. 770, (2010. 10), 2621~2627.
- 宮崎祐介, ジョナス アディティヤ プラムディタ, 片桐麻衣佳, 片方健太, 宇治橋貞幸
マルチボディモデルを用いた前面衝突事故シミュレーションによる乗員傷害予測手法の構築, 自動車技術会論文集, Vol.42, No.1, (2011.1), 73~78
- 榎本啓士, 宮崎祐介, 福井龍也
MADYMOによるFormula SAE車両の前面衝突安全性能の検証, 設計工学, Vol.45, No.11, (2010.11), 48~51
- 穴田賢二, 宮崎祐介, 西貴士, 立矢 宏, 放生明廣, 阪本雄一郎
頭部回転挙動と脳せん断ひずみの関係, 日本機械学会論文集A編, Vol.76, No.772, (2010.9), 1816~1822
- 立矢 宏, 青木泰穂, 谷内宏史, 武田昌士
応答曲面法によるパラレルメカニズム型加工機のキャリブレーション, 日本機械学会論文集C編, Vol. 76, No. 767, (2010. 7), 1870~1877
- Nishida Y., Koizumi Y., Miyazaki Y., Kitamura K., Motomura Y., Mizoguchi H., Yamanaka T.
Presenting High-risk Situations Customized for Individual Environment by Integrating Hospital-based Injury Data, Sensor-based Child Behavior Data, and Biomechanical Simulation Technology, International Society of Child and Adolescent Injury Prevention (ISCAIP) Tour & Meeting 2010, (2010.9)
- Koizumi Y., Nishida Y., Motomura Y., Miyazaki Y., Mizoguchi H.
Quantitative Risk Assessment of the Swing in a Park by Integrating Injury data, Behavior Observation data, and Biomechanical Simulation Technology, " Injury Prevention, Vol. 16, No. 1, (2010.9), pp. A237-A238
- Miyazaki Y., Anata K., Tachiya H., Hojo A., Sakamoto Y.
Measurement of Shear Strain Distribution and Propagation in Real Shaped Brain Physical Model under Rotational Impact, Abstracts of 6th World

- Congress of Biomechanics, (2010.8), 302
 Yachi Hiroshi, Tachiya Hiroshi
 Calibration Method for a Parallel Mechanism Type Machine Tool by Response Surface Methodology -Consideration via Simulation on a Stewart Platform type Mechanism-, International Journal of Automation Technology, Vol. 4, No. 4, (2010. 7), 355 ~ 363.
- Koizumi Y., Nishida Y., Motomura Y., Miyazaki Y., Mizoguchi H.
 A System for Presenting Potential High-risk Situation by Integrating Biomechanical, Injury, and Child Behavior Model, Proc. of The 3rd International Conference on Applied Human Factors and Ergonomics (AHFE), (2010.7), CDROM
- Furumoto Tatuaki, Kasai Atsushi, Tachiya Hiroshi, Hosokawa Akira, Ueda Takashi
 Study on elucidation of bactericidal effects induced by laser beam irradiation-Measurement of dynamic stress on laser irradiated surface-, Optics and Lasers in Engineering, (2010. 5), 827 ~ 833.
- Koizumi Y., Nishida Y., Motomura Y., Miyazaki Y., Mizoguchi H.
 Biomechanical Simulation of Potential Injury Risk Based on Bodygraphic Injury Data and Product Usage Data, Proceedings of the 6th IASTED International Conference on Advanced in Computer Science and Engineering, (2010.3), 689-026 (1)- (8) (CDROM)
- Koizumi Y., Nishida Y., Motomura Y., Miyazaki Y., Mizoguchi H.
 Presenting Potential Injury Risk by Biomechanical Simulation Based on Bodygraphic Injury Data, The 3rd International ICST Conference on Simulation Tools and Techniques, (2010.3), pp.8732 (1)- (6) (CDROM)
- 穴田賢二, 宮崎祐介, 西貴士, 立矢 宏, 放生明廣, 阪本雄一郎
 脳外傷発生メカニズム解明のための実形状頭部物理モデルの構築と脳部変形計測, 日本機械学会論文集 A 編, Vol.76, No.761 (2010.2), 233 ~ 240
- Jonas A.P., 宮崎祐介, 宇治橋貞幸, 持丸正明, 河内まき子
 並進と回転の衝撃をうける頭部の応答と形状個体差の影響, 日本機械学会論文集 A 編, Vol.76, No.761, (2010.1), 44 ~ 51
- Fukui T., Enomoto H., Miyazaki Y., Sakai S.
 Effect of Seat Belt Positions on Passenger Injury during Low Speed Front-end Impact, Proceedings of 15th Small engine technology conference, (2009.11), SAE paper 2097170
- 古本達明, 上田隆司, 青木慎太郎, 葛西淳士, 細川 晃, 立矢 宏
 長棒を用いたレーザ誘起衝撃応力の測定 (歯質の窩洞形成時に生じる衝撃応力), 日本機械学会論文集 C 編, Vol. 75, No. 758, (2009. 10), 2810 ~ 2815.
- Sakamoto Y., Mashiko K., Miyazaki Y., Yokota H.
 CHARACTERISTICS OF LAPAROTOMY CASES AMONG DRIVERS OF MOTOR VEHICLES INJURED IN TRAFFIC ACCIDENTS AND THE RISK FACTORS FOR SEAT BELT INJURY AS JUDGED BY A COMPUTER SIMULATION SYSTEM, Abstracts of the 68th Annual Meeting of The American Association for the Surgery of Trauma, (2009.9), 56
- Miyazaki Y., Murai Y., Nishida Y., Yamanaka T., Mochimaru M., Kouchi M.
 Head Injury Analysis in case of Fall from Playground Equipment using Child Fall Simulator, The impact of Technology on Sport 3 (2009.9) 417 ~ 421
- 谷内宏史, 立矢 宏, 海 貴之, 服部亮治
 パラレルメカニズム型加工機の出力運動予測による工具経路の生成, 日本機械学会論文集 C 編, Vol. 75, No. 752, (2009. 4), 1114 ~ 1121.
- Anata K., Miyazaki Y., Tachiya H., Hojo A., Sakamoto Y.
 Deformation Measurement of brain part in head physical model during rotational impact , Proceedings of AP Biomech 2009, (2009.3), 170 ~ 171
- 林 道大, 立矢 宏, 浅川直紀
 発見的手法を用いた多自由度マニピュレータの軌道決定 (鋼板搬送用マニピュレータの動的トルク抑制の実現), 日本機械学会論文集 C 編, Vol. 75, No. 7750, (2009. 2), 262 ~ 269.
- Y. Miyazaki, Y. Nishida, Y. Motomura, T. Yamanaka, I. Kakefuda
 Computer Simulation of Childhood Head Injury Due To Fall From Playground Equipment, The 2nd Asia Pacific Injury Prevention Conference, (2008.11), 56
- Yamaoka A., Miyazaki Y., Pramudita J.A., Ujihashi S.
 Development and validation of a finite element head-neck model for head injury simulation, Proceedings of KASA2008 (2008.10), 173 ~ 176
- 宮崎祐介, 持丸正明, 西田佳史, 河内まき子, 宇治橋貞幸
 年齢別子ども転倒シミュレータによる遊具の転倒傷害危険度の可視化, 日本ロボット学会誌, Vol.26, No.6, (2008.8), 93 ~ 99
- Miyazaki Y., Tachiya H., Anata K., and Hojo A.
 Measurement of Pressure Responses in a Physical Model of a Human Head with High Shape Fidelity Based on CT/MRI Data, International Journal of Modern Physics B, Vol.22, No.9-11 (2008.6), 1718 ~ 1723
- Miyazaki Y., Murai Y., Nishida Y., Yamanaka T., Mochimaru M., Kouchi M.
 Simulation for Creating Safety Knowledge from Injury Case, The First International Workshop on Advanced Integrated Sensing Technologies for Safety and Security of Daily Life (2008.6), 23 ~ 28

- 宮崎祐介, 宇治橋貞幸, 持丸正明, 河内まき子
 個体別デジタル・モデルによる自動車事故における
 乗員の脳応答個体差の解析, 日本機械学会論文集C
 編, Vol. 74, No.741 (2008.5), 1238~1245
- Teppei Aramoto, Hiroshi Tachiya, Akiyoshi Hori,
 Akihiro Hojo, Yusuke Miyazaki
 Dynamic Tensile and Compressive Stress-Strain
 Characteristics of Magnesium Alloys at Elevated
 Temperatures, International Journal of Modern
 Physics B, Vol.22, Issue:9/11 (2008.4), 1135-1140.
- T.Kinari, K.Hatta, Y.Sato, T.Shimokawa, L.Wakako
 Noise Reduction in Shedding Motion of Weaving
 Machine with Dwell, Proceeding of the 40th Textile
 Research Symposium at Kyoto, 6頁 (2011.12).
- N.Kaneda, K.Goto, T.Kinari, L.Wakako
 Production and Evaluation of Textured Yarn with
 Yarn Count Variation by Using Drawing False-
 twisting, Proceeding of the 40th Textile Research
 Symposium at Kyoto, 3頁 (2011.12).
- Y.Fukuta, T.Kinari
 Development of CAD System for Drawing/Pattern
 Curving Shibori Process, Proceeding of the
 40th Textile Research Symposium at Kyoto, 3頁
 (2011.12).
- T. Shimokawa
 Interatomic Potential-Based Dislocation Mechan-
 ics in the Quasicontinuum Method, Proceedings
 of the 2011 World Congress on Advances in Struc-
 tural Engineering and Mechanics (ASEM'11+),
 pp.3316-3320, (2011.9).
- T. Shimokawa, M. Tanaka, K. Kinoshita, and K.
 Higashida
 Roles of grain boundaries in improving fracture
 toughness of ultrafine-grained metals, Physical
 Review B, Vol.83, No.21, 214113, (2011.6).
- 本田拓也, 松本陽一, 若子倫菜, 東 義昭, 竹内康治
 コンニャク・グルコマンナン繊維の開発と農業用資
 材への応用, Journal of Textile Engineering, 57, 4,
 pp.107-113 (2011.4).
- 福田ゆか, 太田幸一, 喜成年泰
 よこ編基本組織の3次元モデリング手法, Journal of
 Textile Engineering, 57, 2, pp.37-44 (2011.4).
- 金田直人, 新宅救徳, 喜成年泰, 下川智嗣, 荒木芳文
 2軸型ディスクフリクション仮撚の施撚部における
 糸径路と糸張力のモデル化, Journal of Textile En-
 gineering, 56, 1, pp.15-20 (2011.2).
- M. Tanaka, K. Higashida and T. Shimokawa
 The Effect of Severe Plastic Deformation on the
 Brittle-Ductile Transition in Low Carbon Steel,
 Materials Science Forum, Vols. 633-634, pp 471-
 480, (2010.12).
- T. Shimokawa
 Asymmetric ability of grain boundaries to gener-
 ate dislocations under tensile or compressive load-
 ings, Physical Review B, Vol.82, No.17, 174122,
 (2010.12).
- 小倉 学, 治田康雅, 吉川達也, 川崎敦司, 藪内賀義,
 喜成年泰
 挟持力可変式手摺駆動装置における挟持力と走行抵
 抗について, 日本機械学会論文集, C編, Vol.769,
 No.76, pp. 2225-2231, (2010.9).
- 小倉 学, 治田康雅, 吉川達也, 喜成年泰
 エスカレータ踏段のライザー形状に関する一考察,
 日本機械学会論文集, C編, Vol.768, No.76, pp.
 1963-1969, (2010.8).
- M. Tanaka, K. Higashida and T. Shimokawa
 The brittle-to-ductile transition in severely de-
 formed low carbon steel, Supplemental Proceed-
 ings, Vol.2, TMS, pp. 787-794, (2010.2).
- 木下恵介, 下川智嗣, 喜成年泰
 原子シミュレーションにおける粒界近傍のき裂先端
 から連続転位放出する現象に対するJ積分による評
 価, 材料, Vol.59, No. 8, pp. 616-623, (2010.2).
- T.Kinari, H.Tachiya, T.Shimokawa
 Friction Properties of Woven Fabrics Using
 Wisker Type Tactile Sensor, Proceeding of the
 38th Textile Research Symposium at Mt. Fuji,
 pp.17-20 (2009. 11).
- N.Kaneda, T.Kinari, S.Shintaku, T.Shimokawa
 Modeling of False-twist Process in Disk Friction
 Spindle, Proceeding of the 38th Textile Research
 Symposium at Mt. Fuji, pp. 187-189 (2009.11).
- M. Tanaka, K. Higashida and T. Shimokawa
 The role of dislocation sources on the brittle-duc-
 tile transition, Proceedings of the 2nd International
 Symposium on Steel Science (ISSS2009), pp.285-
 287, (2009.10).
- T.Kinari, T.Shimokawa, K.Ohta
 Laterally Compressed Characteristics of Multi-
 filament Yarn, Proceedings of the 10th Asian
 Textile Conference~ATC-10~, Ueda, Japan, 5頁
 (2009.9).
- 喜成年泰, 勘甚裕一, 古畑 徹, 多田幸生
 金沢大学機械工学類における初年度導入科目, 工学
 教育, 57, 5, pp.29-35 (2009.9).
- H.Kimura, M.Morishima, T.Nishioka, L.Wakako,
 Y.Matsumoto
 Stretch Properties of Cotton Hollow Yarns Made
 by Hybrid Open-End Rotor Spinning Frame,
 Journal of Textile Engineering, 55, 6, pp.187-192
 (2009.8).
- T. Shimokawa, T. Kinari, and S. Shintaku
 Adaptive Mesh Refinement with Elastic Stiffness
 Coefficients in the Quasicontinuum Model, Journal
 of Computational Science and Technology, Vol.3,
 No.2, pp.408-416, (2009.7).
- M. Tanaka, K. Higashida, T. Shimokawa and T.
 Morikawa
 Brittle-ductile transition in low carbon steel de-
 formed by the accumulative roll bonding process,
 Materials Transactions, Vol.50, No.1, pp.56-63,
 (2009.1).

- T. Shimokawa, T. Hiramoto, T. Kinari and S. Shintaku
Effect of Extrinsic Grain Boundary Dislocations on Mechanical Properties of Ultrafine-Grained Metals by Molecular Dynamics Simulations, *Materials Transactions*, Vol.50, No.1, pp.2-10, (2009.1).
- 知念葉子, 若子倫菜, 諸岡英雄, 諸岡晴美, 松本陽一
着衣バストシルエットの審美性に及ぼすブラジャーの形態の影響, *Journal of Textile Engineering*, 55, 1, pp.29-37 (2009.1).
- T.Kinari, T.Shimokawa, S.Shintaku, J.Hirai and D.Mori
Noise Distribution around Commercial Jet Loom, *Proceedings of the 367h Textile Research Symposium in Daegu*, 241 - 246 (2008.11)
- H. Nakashima, T. Isobe, S. Hata, K. Ikeda and T.Shimokawa
Grain Boundary of SPD Material -TEM and MD Structures-, *Proceedings of International Symposium on Giant Straining Process for Advanced Materials (GSAM-2008)*, pp.24-25 (2008.11).
- K. Higashida, M. Tanaka, S. Horiuchi and T. Shimokawa
The Effect of Severe Plastic Deformation on the Brittle-Ductile Transition in Low Carbon Steel, *Proceedings of International Symposium on Giant Straining Process for Advanced Materials (GSAM-2008)*, pp.21-25 (2008.11).
- 下川智嗣, 正藤龍二, 喜成年泰, 新宅救徳
ばねマスモデルを用いた糸構造体の構造欠陥と糸の力学特性の関係の解析, *Journal of Textile Engineering*, Vol.54, No.5, pp.149-155, (2008.10).
- 下川智嗣, 喜成年泰, 新宅救徳
原子スケール計算機実験による積層欠陥エネルギーの異なるナノ結晶体の粒界構造と力学特性の関係, *材料*, Vol.57, No.8, pp. 761-767, (2008.8).
- 木倉寛隆, 新宅救徳, 喜成年泰, 下川智嗣
型を使用した二重機結び機の型経路, *Journal of textile Engineering*, Vol.54, No.3, 93-101 (2008.6)
- 木倉寛隆, 新宅救徳, 喜成年泰, 下川智嗣
型を使用した結び目形成のための糸経路設計, *Journal of textile Engineering*, Vol.54, No.3, 83-91 (2008.6)
- 下川智嗣, 喜成年泰, 新宅救徳
弾性剛性係数を用いた準連続体モデルの自動要素分割に関する研究, *日本機械学会論文集*, A編, Vol.738, No.74, pp. 27-33, (2008.2).
- L.Wakako, Y.Matsumoto, H.Kanai, T.Nishimatsu, H.Kimura, H.Morooka
Analysis on the Beautiful Appeal of Legs in a Newly-developed Pantyhose, *Journal of Textile Engineering*, 54, 2, pp.33-39 (2008.2).
- 菅沼直樹, 松井俊樹
自動運転自動車の走行経路高速生成法, *自動車技術会論文集*, Vol.42, No.6, pp.1281-1286, 2011
- 松井俊樹, 菅沼直樹
縦断勾配を有する路面領域の抽出に関する研究, 日本機械学会論文集C編, Vol. 77, No. 782 pp.3737-3749, 2011
- 菅沼直樹, 魚住剛弘
GNSS / INSと白線検出の融合による自動運転自動車の自己位置推定, *自動車技術会論文集*, Vol.42, No. 5 pp.1151-1156, 2011
- 栗谷川幸代, 景山一郎, 鴨川亮平, 菅沼直樹
高齢運転者のための夜間視認支援システムに関する研究, *自動車技術会論文集*, Vol.42, No.4, pp. 973-978, 2011
- N.Suganuma, T.Uozumi
Precise Position Estimation of Autonomous Vehicle Based on Map-Matching, *Proc.of 2011 IEEE Intelligent Vehicles Symposium*, pp.296-301, 2011
- N.Suganuma, T.Kubo
Fast Dynamic Object Extraction using Stereovision based on Occupancy Grid Maps and Optical Flow, *Proc.of IEEE/ASME International Conference on Advanced Intelligent Mechatronics*, pp.978-983, 2011
- T.Okada, N.Suganuma
Development of Preceding Vehicle Recognition Algorithm for Lead Vehicle of Autonomous Platooning System Based on Multi Sensor Fusion and Digital Map, *Proc. of SICE Annual Conference 2009*, WeA10-02, 2011
- 菅沼直樹, 魚住剛弘
レーザレンジファインダを用いた白線検出および白線曲率推定, *自動車技術会論文集*, Vol.42, No.2, pp. 563-568, 2011
- 菅沼直樹, 小原賢治, 久保貴朗
低基線長型ステレオビジョンを用いた車両前方環境認識, *日本機械学会論文集C編*, Vol.77, No.776, pp.1356-1365, 2010
- T.Kubo, N.Suganuma
Fast Dynamic Object Extraction Based on Occupancy Grid Maps, *Proc.of Joint 5th Int.Conf.on Soft Computing and Intelligent Systems and 11th Int.Symp.on Advanced Intelligent Systems*, 2010
- T.Uozumi, N.Suganuma
Precision Localization of Autonomous Vehicle Based on Map-Matching, *Proc.of Joint 5th Int. Conf.on Soft Computing and Intelligent Systems and 11th Int.Symp.on Advanced Intelligent Systems*, 2010
- N.Suganuma, T.Kubo
Enhancement of Moving Object Extraction using 6D information, *Proc. of IEEE Int. Conf. on Systems, Man and Cybernetics*, 2010
- N.Suganuma, T.Matsui
Robust Environment Perception Based on Occupancy Grid Maps for Autonomous Vehicle, *Proc.of SICE Annual Conference*, pp.2354-2357, 2010
- 菅沼直樹, 林雄一
センサの柔軟な選択・設置を可能とする移動ロボットのプラグアンドプレイ型自己位置推定法, 日本

- 機械学会論文集C編, Vol.76, No.764, pp.908-913, 2010
- K.Kohara, N.Suganuma, T.Negishi, T.Nanri
Obstacle Detection Based on Occupancy Grid Maps Using Stereovision System, Journal of Intelligent Transportation Systems Research, Vol.8, No.2, pp.85-95, 2010
- N.Suganuma, Y.Hayashi and T.Shimizu
Proposal of Plug and Play Ego-motion Estimator for Mobile Robot, The 4th Int.Symp.on Communications,Control and Signal Processing, pp.358-361, 2010
- N.Suganuma, (査読有)
Clustering and Tracking of Obstacles Using Stereo Vision System, Proc. of SICE Annual Conference 2009, pp.4623-4628, 2009
- K.Kohara, N.Suganuma
Obstacle Detection Based on Occupancy Grid Maps From Virtual Disparity Image, Proc. of SICE Annual Conference 2009, pp.4717-4622, 2009
- N.Suganuma
Clustering and Tracking of Obstacles From Virtual Disparity Image, Proc.of 2009 IEEE Intelligent Vehicles Symposium, pp.111-116, 2009
- Y.Hayashi, N.Suganuma
Plug and Play type ego-position estimation system for mobile robot, The 2nd Int.Symp. on Test Automation & Instrumentation, pp.1200-1205, 2008
- N.Suganuma
Obstacle Map Generation Using Virtual Disparity Image for Non-Flat Road, Proc. of SICE Annual Conference 2009, pp.1920-1925, 2008
- N.Suganuma, M.Shimoyama, N.Fujiwara
Obstacle Detection Using Virtual Disparity Image for Non-Flat Road, Proc.of 2008 IEEE Intelligent Vehicles Symposium, pp.596-601, 2008
- M. Izumi, H. Seki, Y. Kamiya, M. Hikizu
Automatic Hook Crane with Robotic Arm, Proceedings of 2011 IEEE International Conference on Robotics and Biomimetics, CDROM, (2011.12)
- H. Seki, T. Fukumura, Y. Kamiya, M. Hikizu
Development of Position Recording Systems on Structural Surface Using Laser Pointer, Proceedings of the 37th Annual Conference of the IEEE Industrial Electronics Society, pp.2562-2567, (2011.11)
- 松岡寛晃, 滝沢真之, 関啓明, 神谷好承
吸振支持制御を用いたエレベーターの縦振動抑制シミュレーション, 計測自動制御学会産業論文集, Vol.10, No.6, pp.50-57, (2011.6)
- K. Salleh, H. Seki, Y. Kamiya, M. Hikizu
Passive Edge Tracing of Deformable Object by Robot, Journal of Robotics and Mechatronics, Vol.23, No.3, pp.458-461, (2011.6)
- 劉吉寧, 疋津正利, 関啓明, 神谷好承
繰り返し順変換による荷物の持ち上げ動作生成のシミュレーション, 日本機械学会論文集C編, Vol.77, No.773, pp.149-158, (2011.1)
- J. Liu, Y. Kamiya, H. Seki, M. Hikizu
Weightlifting Motion Generation for a Stance Robot with Repeatedly Direct Kinematics, Journal of Intelligent Control and Automation, 1, pp.20-27, (2010.8)
- K. Salleh, H. Seki, Y. Kamiya, M. Hikizu
Real-time Path Planning Tracing of Deformable Object by Robot, International Journal of Smart Sensing and Intelligent Systems, Vol.3, No.3, pp.521-434, (2010.9)
- X. Han, H. Seki, Y. Kamiya, M. Hikizu
Wearable Handwriting Input Device Using Magnetic Field - 2nd Report: Influence of Misalignment of Magnet and Writing Plane --, Precision Engineering, Vol.34, No.3, pp.425-430, (2010.7)
- K. Salleh, H. Seki, Y. Kamiya, M. Hikizu
Edge Tracing Manipulation of Clothes Based on Different Gripper Types, Journal of Computer Science, Vol.6, No.8, pp.872-879, (2010.6)
- K. Salleh, H. Seki, Y. Kamiya, M. Hikizu
Clothes Manipulation by Robot Gripper with Roller Fingertips, Advanced Robotics, Vol.24, No.1-2, pp.139-158, (2010.2)
- J. Tian, H. Seki, M. Hikizu, Y. Kamiya
A New Method of Generating Pulse Sequence for Numerical Controllers - with Velocity and Acceleration Bounds Adapting to the Servomotor System, Journal of Advanced Mechanical Design, Systems, and Manufacturing, Vol.3, No.3, pp.269-276, (2009.10)
- J. Tian, H. Seki, M. Hikizu, Y. Kamiya
A New Algorithm of Generating Command Pulses for Numerical Controllers, SICE Journal of Control, Measurement, and System Integration, Vol.2, No.5, pp.271-276, (2009.9)
- J. Tian, H. Seki, M. Hikizu, Y. Kamiya, Q. Zhang
A New Method of Generating Pulse Sequence for Numerical Controller - with Velocity and Acceleration Bounds Adapting to Servomotor System, Proceedings of the 2009 IEEE International Conference on Mechatronics and Automation, CDROM, (2009.8)
- X. Han, H. Seki, Y. Kamiya, M. Hikizu
Wearable Handwriting Input Device Using Magnetic Field - Geomagnetism Cancellation in Position Calculation --, Precision Engineering, Vol.33, No.1, pp.37-43, (2009.1)
- H. Seki, S. Esaka, Y. Kamiya, M. Hikizu
Stable Power Assist for Patient Life, Proceedings of 3rd International Conference of Asian Society for Precision engineering and Nanotechnology, CDROM, (2008.11) (Best Paper Award)

- J. Liu, H. Seki, Y. Kamiya, M. Hikizu
Motion Simulation for a Stance Robot by Repeatedly Direct Kinematics, Proceedings of the 7th International Conference on Machine and Automation, pp.107-112, (2008.9)
- H. Seki, S. Shibayama, Y. Kamiya, M. Hikizu
Practical Obstacle Avoidance Using Potential Field for a Nonholonomic Mobile Robot with Rectangular Body, Proceedings of 13th IEEE International Conference on Emerging Technologies and Factory Automation, pp.326-332, (2008.9)
- 関啓明, 柴山智志, 神谷好承, 疋津正利
非ホロノミック移動体の形状を考慮した実用的な障害物回避 - ポテンシャル法の長方形車体への適用 --, 精密工学会誌, Vol.74, No.8, pp.853-858, (2008.8)
- P.Serikitkankul, H. Seki, M. Hikizu, Y. Kamiya
Study on Effects of Negative Driving Torque in Servomotor Driver, Precision Engineering, Vol.31, No.3, pp.202-209, (2008.7)
- K. Salleh, H. Seki, Y. Kamiya, M. Hikizu
Inchworm Robot Grippers for Clothes Manipulation, Artificial Life and Robotics, Vol.12, No.1, pp.142-147, (2008.3)
- Hiroshi Tokutake, Shigeru Sunada and Jin Fujinaga
Attitude Control of a Small UAV using a Flow Sensor System, Journal of System Design and Dynamics, Vol. 5, No. 1, pp.1-16, 2011.
- Hiroshi Tokutake, Shuichi Okada and Shigeru Sunada
Disturbance Observer based on Multipoint Feedback, Transactions of the Japan Society for Aeronautical and Space Sciences, Vol 54, No. 183, pp.16-24, 2011.
- Hiroshi Tokutake and Yasuhiro Yuasa
Development of the Attitude Sensor for the Mars Airplane, Proc. Of The 28th International Symposium on Space Technology and Science, June 5-12, 2011, Okinawa, Japan
- Hiroshi Tokutake and Hirotaka Hayashi
The Development of the Fault Tolerance System of the Rocketplane, Proc. Of The 28th International Symposium on Space Technology and Science, June 5-12, 2011, Okinawa, Japan.
- 岡本真, 砂田茂, 得竹浩, 岡本正人
センチメートルサイズの飛行機の安定性に関する一考察, 日本航空宇宙学会論文集, Vol. 58, No. 683, pp.331-339, 2010.
- Makoto Okamoto, Shigeru Sunada, and Hiroshi Tokutake
Stability of Gliding Flight of a Swallowtail Butterfly, AIAA Journal, Vol 48, No. 12, pp.2970-2976, 2010.
- Tadashi Aoki, Shigeru Sunada, Hiroshi Tokutake and Yukio Otsuka
Analysis of Bell-Hiller Stabilizer Bar, Transactions of the Japan Society for Aeronautical and Space Sciences, Vol. 53, No. 181, pp.223-230, 2010.
- Shigeru Sunada, Hiroshi Tokutake and Shuichi Okada
Fluid dynamic Forces Acting on Rectangular Plate with Hole in Stokes Flow, Transactions of the Japan Society for Aeronautical and Space Sciences, Vol. 52, No. 181, pp.231-233, 2010.
- Shigeru Sunada, Yuki Hatayama, and Hiroshi Tokutake
Pitch, Roll, and Yaw Damping of a Flapping Wing, AIAA Journal, Vol. 48, No. 6, pp.1261-1265, 2010.
- T. Aoki, S. Sunada, and H. Tokutake
Analysis of Bell-Hiller Stabilizer Bar, Proc. Of Heli Japan 2010, November 1-3, 2010, OMIYA Sonic City, Saitama, Japan.
- Hiroshi Tokutake and Kanichi Koyama
Development of a Small Unmanned Helicopter, Proc. Of Heli Japan 2010, November 1-3, 2010, OMIYA Sonic City, Saitama, Japan.
- Shigeru Sunada, Ryohei Ishida and Hiroshi Tokutake
Fluid dynamic force acting on a rectangular solid in a Stokes flow, AIAA Journal, Vol. 47, No. 4, pp.1053-1054, 2009.
- Makoto Okamoto, Shigeru Sunada and Hiroshi Tokutake
Stability analysis of gliding flight of a swallowtail butterfly *Papilio xuthus*, Journal of Theoretical Biology, Vol. 257, Issue 2, pp. 191-202, 2009.
- Hiroshi Tokutake, Shigeru Sunada and Yukio Ohtsuka
Active Control of Flapping Wings Using Wing Deformation, Transactions of the Japan Society for Aeronautical and Space Sciences, Vol. 52, No. 176, pp.98-103, 2009.
- Shuichi Okada, Hiroshi Tokutake, and Shigeru Sunada
Disturbance Prediction and Its Application to H-infinity Flight Control, Proc. Of ICCAS-SICE 2009 ICROS-SICE International Joint Conference, pp.3217-3221, Fukuoka, Japan, Aug. 18-21, 2009.
- 角野, 宏紀, 砂田 茂, 得竹 浩, 畠山 雄基
小型2重反転回転翼機の前進運動に関する研究, 日本航空宇宙学会論文集, Vol. 56, No. 655, pp.376-382, 2008.
- Hiroshi Tokutake, Jin Fujinaga and Yumiko Miura
Lateral-Directional Controller Design Using a Pilot Model and Flight Simulator Experiments, The Aeronautical Journal, Vol. 112, No. 1130, pp.213-218, 2008.
- 藤永 仁, 得竹 浩, 砂田 茂
小型無人航空機の誘導制御と自律飛行試験, 日本航空宇宙学会論文集, Vol. 56, No. 649, pp.57-64, 2008.
- 砂田茂, 得竹浩, 畠山雄基, 大塚有企朗, 石田良平
羽ばたき機のパッシブなフェザリング運動に関する検討, 日本航空宇宙学会論文集, Vol. 56, No. 648, pp.41-46, 2008.
- Hiroshi Tokutake, Syuichi Furukawa and Shigeru

Sunada

Experimental Program of Autonomous Lifting Body Airplane in Osaka Prefecture University, Proc. Of KSAS-JSASS Joint International Symposium on Aerospace Engineering, pp.608-613, Jeju Island, Korea, Nov. 20-21, 2008.

Syuichi Furukawa, Hiroshi Tokutake and Shigeru Sunada

Disturbance Observer based on Polynomial Approximation and its Application to Aircraft Dynamics, Proc. Of KSAS-JSASS Joint International Symposium on Aerospace Engineering, pp.277-281, Jeju Island, Korea, Nov. 20 -21, 2008.

Shigeru Sunada, Makoto Okamoto, and Hiroshi Tokutake

Relation between Aerodynamic Characteristics of a Wing at a Low Reynolds Number and Flight Stability of a Cm-sized Airplane, Proc. Of KSAS-JSASS Joint International Symposium on Aerospace Engineering, Jeju Island, Korea, pp.153-155, Nov. 20 -21, 2008

米山 猛, 阿部 諭, 宮丸 充

金属光造形金型によるウェルド低減と熱風予熱効果, 精密工学会誌, Vol.77, No.10, pp.955-959, (2011.10).

香川博之, 米山猛, 那須英彰, 五十嵐重人, 北川雄二郎, 高橋昌也, 佐藤一孝

野球バットの打撃性能評価システムの製作とバット支持方法の選択, 日本機械学会論文集 (C), 77巻783号, pp.258-266, (2011.11).

米山猛, 高橋昌也

超音波付加による押し荷重の低減, 塑性と加工, 52, 601, pp.63-67, (2011.2).

Papat Fungtammasan, Tetsuyou Watanabe

Mechanism of tweezers grasping system, Proceedings of 2011 IEEE/SICE International Symposium on System Integration (SII), (2011.12).

Papat Fungtammasan, Tetsuyou Watanabe

Grasp input optimization taking contact position uncertainty into consideration, Proceedings of the IEEE International Conference on Robotics and Biomimetics (ROBIO), (2011.12)

横川文彬, 鳥島康充, 林寛之, 安藤智成, 米山猛, 渡辺哲陽, 佐能唯

腰部脊柱管狭窄 (第4腰椎神経根障害)と変形性股関節症における歩行容態の相違点 工学系動作解析法による評価, 臨床整形外科, Vol.46, No.8, pp.755-760, (2011.8).

Yasumitsu Toribatake, Noriaki Yokogawa, Hiroyuki Hayashi, Takeshi Yoneyama, Tetsuyou Watanabe, Yui Sano

New Method of Motion Analysis to Clarify Differentiation between Lumbar Spinal Canal Stenosis and Osteoarthritis of the Hip Joint, Journal of Spine Research, Vol.2, No.2, pp.220-222, (2011.2)

佐能唯, 渡辺哲陽, 米山猛, 鳥島康充, 林寛之, 横川

文彬

変形性股関節症と腰部脊柱管狭窄における歩行動作の比較, 生体医工学, Vol.49, No.1, pp.34-39, (2011.2)

Takeshi Yoneyama, Tetsuyou Watanabe, Hiroyuki Kagawa, Junichiro Hamada, Yutaka Hayashi, Mitsutoshi Nakada

Force Detecting Gripper and Flexible Micro Manipulator for Neurosurgery, Proceedings of International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), (2011.8).

Nicholas B. Melo, Tetsuyou Watanabe

Key posture Extraction from Object Manipulations Experiments, Proceedings of the International Conference on Mechatronics and Information Technology (ICMIT), (2011.8).

Tetsuyou Watanabe

Softness Effects on Manipulability and Grasp Stability, Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), pp.1398-1404, (2011.9).

米山猛, 内藤圭亮, 阿部諭, 宮丸充

金属光造形金型による薄肉低圧射出成形, 精密工学会誌, Vol.76, No.2, pp.188-192, (2010.10).

T.Yoneyama, M.Takahashi

Effect of ultrasonic vibration on metal compression and extrusion, Steel Research International, Vol.81, No.9, pp.406-409, (2010.9).

T.Yoneyama, M.Kitade and K.Osada

Investigation on the ski-snow interaction in a carved turn based on the actual measurement, Procedia Engineering, Vol.2, Issue2, pp.2901-2906, (2010.6).

Tetsuyou Watanabe and ZhongWei Jiang

Adhesion Forces Reduction by Oscillation and Its Application to Micro Manipulation, Cutting Edge Robotics 2010 (IN-TECH), pp.199-214, (2010.9).

渡辺哲陽, 佐能唯, 米山猛, 鳥島康充, 林寛之, 横川文彬

間欠跛行の病因診断への歩行動画解析の適用, 日本機械学会論文集C編, Vol.76, No.772, pp.3446-3452, (2010.12).

林寛之, 鳥島康充, 横川文彬, 米山猛, 渡辺哲陽, 佐能唯

腰椎神経根症による間欠跛行患者の歩行特性, Journal of Spine Research, Vol.1, No.7, pp.1290-1294, (2010.7).

渡辺哲陽

作動範囲に基づく把持システム可操作性指標, 日本ロボット学会誌, Vol.28, No.8, pp.923-929, (2010.10).

Hiroki Takeuchi and Tetsuyou Watanabe

Development of a Multi-fingered Robot Hand with Softness-changeable Skin Mechanism, Proceedings of the International Symposium on Robotics (ISR), pp.606-612, (2010.6).

Tetsuyou Watanabe, Yui Sanou, Takeshi Yoneyama, Yasumitsu Toribatake, Hiroyuki Hayashi and Noriaki

Yokogawa

Walking Motion Analysis of Intermittent Claudication and its Application to Medical Diagnosis, Proceedings of the 2010 3rd IEEE RAS & EMBS International Conference on Biomedical Robotics and Biomechatronics (BioRob), pp.448-453, (2010.9).

Tetsuyou Watanabe

Manipulability Measures taking Necessary Joint Torques for Grasping into consideration, Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), pp.598-603, (2010.10).

T.Yoneyama, H.Kagawa, M.Unemoto, T.Iizuka, N.W.Scott

A ski robot system for qualitative modeling of the carved turn, Sports Engineering, Vol.11, No.3, pp.131-141, (2009.6).

米山猛, 香川博之, 立野大地, N. Scott, 長田和隆

ターン中のスキーのたわみ・ねじりと雪面圧力の測定, 日本機械学会論文集 (C), 75巻752号, pp.1100-1107, (2009.4).

渡辺哲陽

把持システムのための関節トルク・速度対ベースド可操作性, 日本ロボット学会誌, Vol.27, No.3, pp.100-109, (2009.4).

渡辺哲陽, 岩崎誠, 松村英和, 江鐘偉

圧電振動子による凝着状態の推定と緩和に関する研究, 日本機械学会論文集 C編, Vol.75, No.752, pp.964-969, (2009.4).

Tetsuyou Watanabe, ZhongWei Jiang and Tsuneo Yoshikawa

Task Based Hybrid Closure Grasping Optimization for Autonomous Robot Hand, Design and Control of Intelligent Robotic Systems (Springer Berlin / Heidelberg), pp.425-451, (2009.2).

Tetsuyou Watanabe, Makoto Iwasaki, Hidekazu Matsumura, and ZhongWei Jiang

Study on Adhesion Force Reduction and State Estimation by Piezo-transducer, Proceedings of the IEEE International Conference on Robotics and Automation (ICRA), pp.2211-2216, (2009.5).

Tetsuyou Watanabe and Michael Beetz

Grasp Motion Planning for box opening task by multi-fingered hands and arms, Proceedings of the IEEE International Symposium on Computational Intelligence in Robotics and Automation (CIRA2009), pp.1-7, (2009.12).

T.Yoneyama, H.Kagawa

Fabrication of Cooling Channels in the Injection Molding by Laser Metal Sintering, International Journal of Automation Technology, Vol.2, No.3, pp.162-167, (2008.6).

T.Yoneyama, N.Scott, H.Kagawa, K.Osada

Ski deflection measurement during skiing and estimation of ski direction and edge angle, Sports Engineering, Vol.11, No.1, pp.3-13, (2008.5).

渡辺哲陽

関節トルク・速度対に基づくロボットマニピュレータのための可操作性, 日本機械学会論文集 C編, Vol.74, No.748, pp.3012-3018, (2008.12).

渡辺哲陽, 芹田泰

画像による凝着状態推定とその自動微細操作への応用, 日本機械学会論文集 C編, Vol.74, No.747, pp.2755-2762, (2008.11).

森田実, 江鐘偉, 渡辺哲陽, 鈴木倫保, 加藤祥一

センサ機能を有する血栓溶解用マイクロ攪拌器の開発に関する基礎研究, 日本機械学会論文集 C編, Vol.74, No.743, pp.1798-1803, (2008.7).

渡辺哲陽, 岩崎誠, 松村英和, 江鐘偉, 振動を用いた凝着力緩和とその微細操作への応用, 日本機械学会論文集 C編, Vol.74, No.737, pp.23-30, (2008.1).

Zhongwei Jiang, Minoru Morita, Tetsuyou Watanabe, Naoki Chijimatsu, Shoichi Kato, Michiyasu Suzuki

Study on Design of Micro-stirrer for Thrombus Dissolution, Microsystem Technologies, Vol.14, No.1, pp.158-165, (2008.1).

Tetsuyou Watanabe, Yutaka Serita

Adhesion state detection by vision and its application to automatic micro manipulation, Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), pp.458-463, (2008.9).

Tetsuyou Watanabe

Joint Torque-velocity Pair Based Manipulability for Grasping System, Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), pp.2264-2270, (2008.9).

Srirat, J., Yamazaki, K., Kitayama, S.

The Optimization of Blank Holder Gap and Segmented Blank Holder Shape in Deep-Drawing Process Considering Failures and Product Quality, 9th World Congress of Structural and Multidisciplinary Optimization (Shizuoka, Japan), Paper ID: 093_1 in CD-ROM, (2011.6).

Ramli, F.R., Yamazaki, K.

An Optimum Design of HGV Lower Bumper Stiffener Structure for Pedestrian Safety, 9th World Congress of Structural and Multidisciplinary Optimization (Shizuoka, Japan), Paper ID: 185_1 in CD-ROM, (2011.6).

Yamazaki, K., Imakoshi, T.

Optimum Design of Active Lower Absorber for Leg Injury Suppression of Pedestrian at Automotive Collision Accident, 9th World Congress of Structural and Multidisciplinary Optimization (Shizuoka, Japan), Paper ID: 292_1 in CD-ROM, (2011.6).

Matsumori, T., Yamazaki, K.

Design Improvement of Cooling Channel Layout for Plastic Injection Moulding, Engineering Optimization, 43-8, pp.891-909, (2011.8).

Yamazaki, K., Otsuka, T., Han, J., Hasegawa, T.,

- Shirasawa, T.
New Tooling System for Forming Aluminum Beverage Can End Shell, Proc. of 8th International Conference and Workshop on Numerical Simulation and 3D Sheet Metal Forming Processes (Seoul, Korea), pp.879-886, (2011.8).
- Han, J., Yamazaki, K., Hasegawa, T., Itoh, R., Nishiyama, S.
Numerical Simulations of Forming Aluminum Beverage Can End Shells, Proc. of 8th International Conference and Workshop on Numerical Simulation and 3D Sheet Metal Forming Processes (Seoul, Korea), pp.871-878, (2011.8).
- Yamazaki, K., Han, J., Otsuka, T., Hasegawa, T., Nishiyama, S.
Tooling System Design for Forming Aluminum Beverage Can End Shells, Trans of ASME/Journal of Mechanical Design, Vol.133, pp.114502-1-114502-6, (2011.11).
- 北山哲士, 喜多健太, 山崎光悦
角筒深絞り加工における可変ブランクホルダー力の最適軌道設計, 日本機械学会論文集C編, Vol.77, No.773, pp.166-178, (2011.1).
- Yagi, T., Kitayama, S., Arakawa, M.
Evaluation of Technology Trends and Similarities Using Data Envelopment Analysis, 9th World Congress of Structural and Multidisciplinary Optimization (Shizuoka, Japan), Paper ID: 032_1 in CD-ROM, (2011.6).
- Kitayama, S., Arakawa, M., Yamazaki, K.
Discrete Differential Evolution for the Mixed Discrete Non-Linear Problems, 9th World Congress of Structural and Multidisciplinary Optimization (Shizuoka, Japan), Paper ID: 074_1 in CD-ROM, (2011.6).
- Iwatani, R., Arakawa, M., Kitayama, S.
Bench Mark Testing of Surrogate Optimization Using Convolute RBF, 9th World Congress of Structural and Multidisciplinary Optimization (Shizuoka, Japan), Paper ID: 505_5 in CD-ROM, (2011.6).
- Kitayama, S., Arakawa, M., Yamazaki, K.
Differential Evolution as the Global Optimization Technique and its Application to Structural Optimization, Applied Soft Computing, 11-4, pp.3792-3803, (2011.6).
- Kitayama, S., Yamazaki, K.
Simple Estimate of the Width in Gaussian Kernel with Adaptive Scaling Technique, Applied Soft Computing, 11-8, pp.4726-4737, (2011.12).
- Kitayama, S., Arakawa, M., Yamazaki, K.
Sequential Approximate Optimization using Radial Basis Function network for engineering optimization, Optimization and Engineering, 12-4, pp.535-557, (2011.12).
- Sakai, S., Nobe, R., Yamazaki, K.
A Study on Projection Performance of Roller Type Badminton Machine and Its Optimization, 9th World Congress of Structural and Multidisciplinary Optimization (Shizuoka, Japan), Paper ID: 089_1 in CD-ROM, (2011.6).
- 酒井忍, 山崎光悦, 鈴木武之, 中野正貴, 浅田浩治
クランクシャフトミラーの熱変位予測式の提案, 日本機械学会論文集C編, Vol.77, No.779, pp.2842-2854, (2011.7).
- 酒井忍, 野辺亮太, 水口さゆり, 村口さよ
二ローラ式バドミントンマシンの開発, 日本機械学会論文集C編, Vol.77, No.781, pp.3415-3426, (2011.9).
- 酒井忍, 北山哲士, 野辺亮太, 水口さゆり
ローラ式バドミントンマシンの開発と性能向上, 日本機械学会論文集C編, Vol.77, No.783, pp. 3978-3989, (2011.11).
- 茅原崇徳, 広幡哲志, 山崎光悦
アルミボトル口径最適化のための開けやすさ評価関数の提案, 人間工学, Vol.46, No.2, pp.127-135, (2010.4).
- Chihara, T., Hirohata, S., Yamazaki, K.
Evaluation Method of Openability Related to Optimum Opening Diameter of Aluminum Beverage Bottles, Proc. of 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Kyoto, Japan), Paper No. J-45 in CD-ROM, (2010.6).
- Li, C., Hiroyasu, T., Yamazaki, K.
Dual Phenotype GA for Shape Optimization, Proc. of 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Kyoto, Japan), Paper No. J-78 in CD-ROM, (2010.6).
- Yamazaki, K., Otsuka, T., Han, J., Hasegawa, T., Nishiyama, S.
Three-Dimensional Forming Process Simulation and Optimum Design of New Dies for Aluminum Beverage Can Ends, Proc. of 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Kyoto, Japan), Paper No. J-86 in CD-ROM, (2010.6).
- Chihara, T., Yamazaki, K., Sobajima, S., Han, J.
Evaluation Function of Openability Relative to Optimum Opening Diameter of Aluminum Beverage Bottles and Gripping Postures, 2010 Asian Conference on Design & Digital Engineering (Jeju, Korea), pp.149-152, (2010.8).
- Chihara, T., Yamazaki, K., Sobajima, S., Han, J.
Development of Evaluation Function for Openability of Opening Diameter of Aluminum Beverage Bottles and Its Application to Optimum Design, Proc. of 13th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference (Texas, USA), AIAA-2010-9044, (2010.9).
- Han, J., Yamazaki, K., Otsuka, T., Hasegawa, T., Itoh,

- R., Nishiyama, S.
Thinning Minimization for Forming Aluminum Beverage Can End Shells, Proc. of 13th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference (Texas, USA), AIAA-2010-9045, (2010.9).
- 山崎光悦, 大塚貴康, 韓晶, 長谷川貴志, 西山貞雄
プレス加工によるアルミ缶蓋の成形過程最適化に関する研究, 日本機械学会論文集C編, Vol.76, No.771, pp.2839-2846, (2010.11).
- Kitayama, S., Hamano, S., Yamazaki, K.
Development of a Simple Closed-Loop Type Algorithm for Determination of Variable Blank Holder Force Trajectory and Its Applications to Square Cup Deep Drawing, Advances in Mechanical Engineering, Vol. 2010, Article ID 497350, (2010.5).
- 北山哲士, 濱野智史, 山崎光悦, 久保達男, 西川輝, 木下洋
可変ブランクホルダー力による角筒深絞り加工, 日本機械学会論文集C編, Vol.76, No.766, pp.1617-1626, (2010.6).
- Arakawa, M., Kitayama, S.
Complementary Setting of Radius in Convolute Radial Basis Function Networks, Proc. of 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Kyoto, Japan), Paper No. J-95 in CD-ROM, (2010.6).
- Kitayama, S., Arakawa, M., Yamazaki, K.
Simple Estimate of the Width in Gaussian Kernel with Adaptive Scaling Technique, Proc. of 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Kyoto, Japan), Paper No. J-62 in CD-ROM, (2010.6).
- Habaguchi, S., Kitayama, S., Yamazaki, K.
Multi-Objective Particle Swarm Optimization Using the Pareto-Fitness Function, Proc. of 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Kyoto, Japan), Paper No. J-61 in CD-ROM, (2010.6).
- Hamano, S., Kitayama, S., Yamazaki, K., Kinoshita, H.
A Closed-Type Algorithm for the Determination of the Variable Blank Holder Force Trajectory in Deep Drawing, Proc. of 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Kyoto, Japan), Paper No. J-60 in CD-ROM, (2010.6).
- 北山哲士, 荒川雅生, 山崎光悦
RBFネットワークによる逐次近似最適化 (サンプル関数の基礎的検討), 日本機械学会論文集C編, Vol.76, No.768, pp.1978-1987, (2010.8).
- Kitayama, S., Yamazaki, K., Arakawa, M.
Simple Estimate of the Width in the Gaussian Kernel with Adaptive Scaling Technique, 13th AIAA/ISSMO Multidisciplinary Analysis Optimization Conference (Texas, USA), AIAA-2010-9196, (2010.9).
- Kitayama, S., Hamano, S., Yamazaki, K., Kubo, T., Nishikawa, H., Kinoshita, H.
A Closed-loop Type Algorithm for Determination of Variable Blank Holder Force Trajectory and its Application to Square Cup Deep Drawing, International Journal of Advanced Manufacturing Technology, Vol.51, No.5-8, pp.507-517, (2010.11).
- 北山哲士, 酒井忍, 荒川雅生, 山崎光悦
大域的最適化法としてのDifferential Evolutionと数値計算, 日本機械学会論文集C編, Vol.76, No. 771, pp.2819-2828, (2010.11).
- 北山哲士, 荒川雅生, 山崎光悦
RBFネットワークによる多目的逐次近似最適化, 日本機械学会論文集C編, Vol.76, No.772, pp.3476-3485, (2010.12).
- 北山哲士, 荒川雅生, 山崎光悦
Discrete Differential Evolution の提案, 日本機械学会論文集C編, Vol.76, No.772, pp.3828-3836, (2010.12).
- 酒井忍, 尾田十八, 野辺亮太, 角田裕俊, 中山均
三ローラ式ピッチングマシンの投球性能の向上研究, 設計工学, Vol.45, No.1, pp.24-29, (2010.1).
- Sakai, S., Yamazaki, K., Kakuda, H., Nakayama, H., Tanabe, T.
A Study on Throw Performance of Roller Type Baseball Pitching Machine and its Optimization, Proc. of 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Kyoto, Japan), Paper No. J-19 in CD-ROM, (2010.6).
- 山崎光悦, 北山哲士, 牛田卓宏
衝撃吸収エネルギーおよびピーク荷重を考慮した柱状シェル構造材の多目的最適設計, 日本機械学会論文集A編, Vol.75, No.752, pp.522-528, (2009.4).
- Yamazaki, K., Ushida, T., Kitayama, S.
Multi-Objective Design Optimization of Columnar Shell Attaining Energy Absorption Maximization and Crush Force Minimization, 8th World Congress of Structural and Multidisciplinary Optimization (Lisbon, Portugal), Paper No. 1713 in CD-ROM, (2009.6).
- Chihara, T., Yamazaki, K.
A Study on Optimal Opening Diameter of Aluminum Beverage Bottles for Drinking Ease (Comparison between Beverage Types and Discussions), 8th World Congress of Structural and Multidisciplinary Optimization (Lisbon, Portugal), Paper No. 1147 in CD-ROM, (2009.6).
- Han, J., Hasegawa, T., Itoh, R., Nishiyama, S., Yamazaki, K.
Optimum Design of Dies and Forming Process for Aluminum Beverage Can Ends, 8th World Congress of Structural and Multidisciplinary Optimization (Lisbon, Portugal), Paper No. 1461 in CD-ROM, (2009.6).
- Yamazaki, K., Hirohata, S., Chihara, T.
Evaluation on Optimal Opening Diameter of

- Aluminum Beverage Bottle with Screw Cap for Openability, 8th World Congress of Structural and Multidisciplinary Optimization (Lisbon, Portugal), Paper No. 1287 in CD-ROM, (2009.6).
- 茅原崇徳, 山崎光悦
アルミボトル口径の飲みやすさ評価法に関する基礎的検討 (第2報, 飲みやすさ評価関数の提案), 日本機械学会論文集C編, Vol.75, No.755, pp.2051-2058, (2009.7).
- Chihara, T., Yamazaki, K.
Evaluation Function of Openability Relative to Optimum Opening Diameter of Aluminum Beverage Bottles, Design Engineering Workshop 2009 (Okinawa, Japan), pp.99-102, (2009.10).
- 松森唯益, 山崎光悦, 北山哲士
プラスチック射出成形金型の三次元冷却管最適配置設計法, 成形加工, Vol.21, No.11, pp.699-705, (2009.11).
- Chihara, T., Yamazaki, K., Itoh, R., Han, J.
Evaluation of drinking ease relative to the opening diameter and beverage type of aluminum beverage bottles, Journal of Food Engineering, Vol.95, Issue2, pp.264-271, (2009.11).
- 松森唯益, 山崎光悦, 土居由樹
プラスチック射出成形金型の冷却管最適配置設計法の研究 (そり量と成形サイクル時間を考慮した設計), 日本機械学会論文集C編, Vol.75, No.760, pp.3347-3354, (2009.12).
- 北山哲士, 宮川智栄, 山崎光悦, 荒川雅生
領域適応型 Particle Swarm Optimization による複数の最適解の探索, 日本機械学会論文集C編, Vol.75, No.751, pp.710-718, (2009.3).
- 北山哲士, 山崎光悦, 荒川雅生, 山川宏
多目的最適設計におけるトレードオフ分析法, 日本機械学会論文集C編, Vol.75, No.754, pp.1828-1836, (2009.6).
- Kitayama, S., Yamazaki, K., Arakawa, M., Yamakawa, H.
Quantitative Trade-Off Analysis and its Application to the Compromise Solution in the Multi-Objective Design Optimization, 8th World Congress of Structural and Multidisciplinary Optimization (Lisbon, Portugal), Paper No. 1098 in CD-ROM, (2009.6).
- Kitayama, S., Yamazaki, K., Arakawa, M.
Adaptive Range Particle Swarm Optimization, Optimization and Engineering, Vol.10, No.4, pp.575-597, (2009.12).
- Kitayama, S., Yasuda, K., Yamazaki, K.
Integrative Optimization by RBF network and Particle Swarm Optimization, Electronics and Communications in Japan, Vol.92, No.12, pp.31-42, (2009.12).
- Sakai, S., Oda, J., Kitagawa, Y., Kakuda, H., Nakayama, H.
Throw Performance and its Optimization of Roll-er-Type Baseball Pitching Machine, 8th World Congress of Structural and Multidisciplinary Optimization (Lisbon, Portugal), Paper No. 1135 in CD-ROM, (2009.6).
- 茅原崇徳, 山崎光悦, 伊藤隆一
アルミボトルの飲みやすさ評価法に関する基礎的検討, 日本機械学会論文集C編, Vol.74, No.737, pp.134-141, (2008.1).
- 伊藤隆一, 山崎光悦, 韓晶
アルミボトルの開栓しやすさに関する検討, 日本機械学会論文集C編, Vol.74, No.738, pp.475-483, (2008.2).
- Han, J., Nishiyama, S., Yamazaki, K., Itoh, R.
Ergonomic design of beverage can lift tabs based on numerical evaluations of fingertip discomfort, Applied Ergonomics, Vol.39, No. 2, pp.150-157, (2008.3).
- 松森唯益, 山崎光悦
プラスチック射出成形金型の冷却管最適配置設計法の研究, 日本機械学会論文集C編, Vol.74, No.739, pp.731-738, (2008.3).
- Matsumori, T., Yamazaki, K.
Optimum Design of Cooling Channels for Plastic Injection Molding Die -Application to Three-Dimensional Cooling Channel-, Proc. of 5th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Jeju, Korea), Paper No. J018 in CD-ROM, (2008.6).
- Chihara, T., Yamazaki, K., Itoh, R.
Evaluation Method on Drinking Ease of Opening Diameter for Aluminum Beverage Bottle (A Proposal on Evaluation Function and Its Optimization), Proc. of 5th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Jeju, Korea), Paper No. J025 in CD-ROM, (2008.6).
- Yamazaki, K., Ushida, T., Kitayama, S.
Multi-Objective Design Optimization Attaining the Energy Absorption Maximization and Crushing Force Minimization, Proc. of 5th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Jeju, Korea), Paper No. J042 in CD-ROM, (2008.6).
- Chihara, T., Yamazaki, K., Itoh, R.
Evaluation Method on Drinking Ease of Opening Diameter for Aluminum Beverage Bottle (A proposal on evaluation function of drinking ease), Proc. of 9th Southeast Asian Ergonomics Society Conference (Bangkok, Thai), Paper No. C82, (2008.10).
- 北山哲士, 安田恵一郎, 山崎光悦
RBFネットワークと Particle Swarm Optimization による統合的最適化, 電気学会論文誌.C, 電子・情報・システム部門誌, Vol.128, No.4, pp.636-645, (2008.4).
- 北山哲士, 荒川雅生, 山崎光悦
非劣解の多様性を考慮した多目的 Particle Swarm

- Optimization, 日本機械学会論文集C編, Vol.74, No.742, pp.1575-1583, (2008.6).
- Miyakawa, C., Kitayama, S., Yamazaki, K.
Adaptive Range Particle Swarm Optimization to Find Multiple Optima, Proc. of 5th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Jeju, Korea), Paper No. J019 in CD-ROM, (2008.6).
- Kitayama, S., Yamazaki, K., Arakawa, M., Yamakawa, H.
Trade-Off Analysis Based on the Sensitivity Analysis For Multi-Objective Design Optimization, Proc. of 5th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Jeju, Korea), Paper No. J026 in CD-ROM, (2008.6).
- Shoda, K., Arakawa, M., Kitayama, S.
Development of Multi-Objective Agent PSO, Proc. of 5th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (Jeju, Korea), Paper No. J040 in CD-ROM, (2008.6).
- Kitayama, S., Yamazaki, K.
Global Optimization by Generalized Random Tunneling Algorithm (4th report: Application to the Nonlinear Optimum Design Problem of the Mixed Design Variables), Journal of Computational Science and Technology, Vol.2, No.1, pp.258-267, (2008.7).
- 酒井忍, 尾田十八, 北河勇一郎
ローラ式ピッチングマシンの投球精度向上に関する研究, 設計工学, Vol.43, No.5, pp.39-44, (2008.5).
- Sakai, S., Oda, J., Kitagawa, Y.
Throw Accuracy of A Baseball Pitching Machine with Rollers, The 4th Asian Conference on Multi-body Dynamics (ACMD2008) (Jeju, Korea), Paper No.131, (2008.8).
- 酒井忍, 北河勇一郎, 金井亮, 尾田十八
ローラ式ピッチングマシンの投球シミュレーションとその最適化に関する研究, 日本機械学会論文集C編, Vol.74, No.748, pp.2864-2869, (2008.12).
- Sakai, S., Oda, J., Yonemura, S., Sakamoto, J.
Study on Impact Loading and Humerus Injury for Baseball, Journal of Computational Science and Technology, Vol.2, No.4, pp.609-619, (2008.12).
- J. Sakamoto, Y. Endo, T. Okayama, H. Murakami, N. Kawahara,
Mechanical Evaluation of Circum-Spinal Decompression Surgery for Thoracic Myelopathy Due to Ossification Ligaments, Proc. CD International Conference on Materials and Reliability 2011 (ICMR-2011), Paper No.A302, (2011.11)
- D. Tawara, J. Sakamoto, H. Murakami, N. Kawahara,
Change in Bone Strength of Osteoporotic Vertebra during Drug Treatment - a FEM study -, Proc. CD International Conference on Materials and Reliability 2011 (ICMR-2011), Paper No.A305, (2011.11)
- J. Sakamoto, K. Arihara, H. Tai, T. Yamazaki,
A Study on Cervical Spine of Giraffe to Consider its Mechanical Adaptation, Proc. CD XXIII Congress of the International Society of Biomechanics, Paper No.1085, (2011.7)
- J. Sakamoto, Y. Endo, H. Mizuo, T. Okayama, H. Murakami, N. Kawahara, K. Tomita,
A stress analysis of spinal cord on decompression surgery for thoracic myelopathy, Proc. XIII International Symposium on Computer Simulation in Biomechanics, pp.39-40, (2011.6)
- Y. Endo, J. Sakamoto, H. Mizuo, T. Okayama, H. Murakami, N. Kawahara
Optimal DE-kyphosis Angle on Circum-spinal Decompression for Thoracic Myelopathy due to Ossification Ligaments, Proc. CD 9th World Congress on Structural and Multidisciplinary Optimization (WCSMO9), Paper No.328, (2011.6)
- J. Matsuo, J. Sugama, H. Sanada, M. Okuwa, T. Nakatani, C. Konya, J. Sakamoto,
Development and validity of a new model for assessing pressure redistribution properties of support surfaces, The Journal of Tissue Viability, Vol.20, No.2, pp.55-66, (2011.2)
- D. Tawara, J. Sakamoto, H. Murakami, N. Kawahara, J. Oda, K. Tomita,
Mechanical therapeutic effects in osteoporotic L1-vertebrae evaluated by nonlinear patient-specific finite element analysis, Journal of Biomechanical Science and Engineering, Vol.5, No.5, pp.499-514, (2010.11)
- J. Sakamoto, K. Arihara, T. Yamazaki, H. Tai,
A Study on Mechanical Adaptation of Cervical Vertebrae of Giraffe, Proc. CD 6th World Congress of Biomechanics, Paper No.WCB-A01441-02591, (2010.8)
- J. Sakamoto, K. Arihara, T. Yamazaki, H. Tai,
A Study on Optimality of Cervical Spine of Giraffe, Proc. CD 6th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (CJK-OSM6), Paper No. J-85, (2010.6).
- Y. Endo, J. Sakamoto, Y. Kashiwano, H. Yokota, S. Nakamura, E. Kinoshita,
A biomechanical study on burst mechanisms of plant fruit: Stress analysis of pericarps before bursting, Journal of The Mechanical Behavior of Biomedical Materials, Vol.3, No.7, pp.512-519, (2010.5)
- Y. Endo, J. Sakamoto, E. Kinoshita,
Biomechanical Study on Optimum Stress Distribution of Bursting Plant Fruit for Scattering Seed, Proc. KSME-JSME Joint Symposium 2010 on Computational Mechanics and Computer-Aided Engineering, pp.76-77, (2010.3)
- D. Tawara, J. Sakamoto, H. Murakami, N. Kawahara, J.

- Oda, K. Tomita,
Mechanical evaluation by patient-specific finite element analyses demonstrates therapeutic effects for osteoporotic vertebrae, *Journal of The Mechanical Behavior of Biomedical Materials*, Vol.3, No.1, pp.31-40, (2010.1)
- 水尾大志, 坂本二郎, 岡山忠樹, 村上英樹, 川原範夫, 富田勝郎,
脊髄除圧手術における脊髄の応力解析, *日本臨床バイオメカニクス学会誌*, Vol.30, pp.197-201, (2009.11)
- 福井悠, 坂本二郎, 村上英樹, 川原範夫, 富田勝郎
脊椎固定術が脊椎負荷に与える影響の筋骨格シミュレーションによる力学的評価, *日本臨床バイオメカニクス学会誌*, Vol.30, pp.185-190, (2009.11)
- J. Sakamoto, H. Fukui, T. Minowa, H. Murakami, N. Kawahara, K. Tomita,
Mechanical analysis of spine with kyphosis due to compression fracture of osteoporotic vertebra, *Proc. XII International Symposium on Computer Simulation in Biomechanics*, pp.17-18, (2009.7)
- J. Sakamoto, K. Arihara, T. Yamazaki,
Analysis of Cervical Spine of Giraffe, *Proc. CD XXII Congress of the International Society of Biomechanics*, Paper No.395, (2009.7)
- J. Sakamoto, Y. Endo, S. Kitayama, E. Kinoshita,
A Study on Optimality of Pre-Burst Stress of Plant Fruit to Scatter Seed, *Proc. CD 8th World Congress on Structural and Multidisciplinary Optimization (WCSMO9)*, Paper No.1489, (2009.6)
- Y. Endo, J. Sakamoto, E. Kinoshita,
Computer Simulation of Bursting Plant Fruit Considering Optimum Pre-Burst Stress, *Proc. The third International Symposium on Biomechanics, Human Function and Information Science*, Vol.3, pp.33-36, (2009.2)
- J. Sakamoto, Y. Nakada, H. Murakami, N. Kawahara, J. Oda, K. Tomita, H. Higaki,
Musculoskeletal Analysis of Spine with Kyphosis Due to Compression Fracture of an Osteoporotic Vertebra, *Proc. CD the 13th International Conference on Biomedical Engineering*, Paper No.PS3-012, (2008.12)
- H. Fukui, J. Sakamoto, H. Murakami, N. Kawahara, J. Oda, K. Tomita, H. Higaki,
Biomechanical Analysis of Influence of Spinal Fixation on Intervertebral Joint Force by Using Musculoskeletal Model, *Proc. CD the 13th International Conference on Biomedical Engineering*, Paper No.PS3-011, (2008.12)
- J. Sakamoto, N. Takeda,
Rapid Individual Modeling of Bone by Mesh Matching with FFD, *Proc. CD 5th China-Japan-Korea Joint Symposium on Optimization of Structural and Mechanical Systems (CJK-OSM5)*, Paper No. J037, (2008.6).
- H.B. Sun, L. Zhao, S. Tanaka, H. Yokota
Moderate joint loading reduces degenerative actions of matrix metalloproteinases in the articular cartilage of mouse ulnae, *Connective Tissue Research*, *in press*
- 橘 孝平, 田中茂雄
力学的刺激による培養再生骨の石灰化促進—播種細胞密度と担体素材の影響—, *臨床バイオメカニクス*, Vol.32, pp.33-38, 2011.
- S.M. Tanaka
Mechanical loading promotes calcification of tissue-engineered bone in vitro, *Journal of Biomechanical Science and Engineering*, Vol. 5, No. 5, pp. 635-645, 2010.
- 瀧本貴友, 田中茂雄
ノイズ電気刺激による培養再生骨のアルカリ性フォスファターゼ活性の促進, *臨床バイオメカニクス*, Vol.31, pp.181-186, 2010.
- 田中茂雄
コラーゲン担体を用いた培養再生骨への力学刺激と石灰化促進, *臨床バイオメカニクス*, Vol.31, pp.27-32, 2010.
- S.M. Tanaka, S. Tanaka, T. Yamakoshi, M. Nogawa, K. Yamakoshi
A novel hip protector material with high impact force attenuation: Leak-allowed air cushion, *Journal of Biomechanical Science and Engineering*, Vol.4, No.3, pp. 443-455 2009.
- S.M. Tanaka, H.B. Sun
Walking-induced bone strain stimulates cultured osteoblasts accompanied by the low-magnitude, high frequency components, *Journal of Biomechanical Science and Engineering*, Vol. 4, No. 3, pp. 434-442, 2009.
- 瀧本貴友, 田中茂雄
骨形成促進のための電氣的筋刺激法に関する研究—有限要素法による骨内電流密度分布解析—, *臨床バイオメカニクス*, Vol.30, pp.21-26, 2009.
- 曹 廷舜, 辻本敏行, 田中茂雄
光深度分解法による骨密度計測—モデル実験による検証—, *臨床バイオメカニクス*, Vol.30, pp.15-19, 2009.
- 杉浦直樹, 武田 純, 田中茂雄
細胞内Ca²⁺動態観察用小型光システムの開発, *臨床バイオメカニクス*, Vol.30, pp.41-46, 2009.
- S.M. Tanaka, K. Kondo
Frequency and resting time dependencies of electrically-induced muscle contraction force, *Journal of Biomechanical Science and Engineering*, Vol.4, No.2, pp.201-211, 2009.
- 田中茂雄, 曹 廷舜, 山越憲一, 辻本敏行
光を利用した骨密度計測法の開発—光深度分解法による皮膚影響補償—, *日本臨床バイオメカニクス学会誌*, Vol.29, pp.181-186, 2008.
- 垣尾雅文, 杉浦直樹, 山越憲一, 田中茂雄
光を用いた再生骨の石灰化モニタリング, *日本臨床*

- バイオメカニクス学会誌, Vol.29, pp.187-192, 2008.
 近藤香菜子, 瀧本貴友, 山越憲一, 田中茂雄
 電気的筋収縮制御による骨量減少抑制, 日本臨床バイオメカニクス学会誌, Vol.29, pp.199-204, 2008.
- S.M. Tanaka, M. Kakio, K.Yamakoshi
 Non-destructive optical monitoring for calcification of tissue-engineered bone in vitro, Journal of Biomechanical Science and Engineering, Vol.3, No.3, pp.332-342, 2008.
- 浅川直紀, 栗山稜生
 産業用ロボットを用いたばり取り作業の自動化(中子のパーティングラインのばり取り), 日本機械学会論文集C編, Vol.77, No.782, pp.3916-3925, 2011.
- 井澤正樹, 宮野公伸, 浅川直紀
 アブレイシブジェットによる金型仕上げ(入射角度とアブレイシブジェットの壊食特性との関係), 日本機械学会論文集C編, Vol.77, No.782, pp.3581-3588, 2011.
- 岡田将人, 上田隆司, 細川晃
 非軸対称形状を有した刃先交換式ドリルの切削特性MQLの適用効果, 日本機械学会論文集C編, Vol.77, No.783, pp.4297-4307, 2011
- Masato OKADA, Akira HOSOKAWA, Ryutaro TANAKA, Takashi UEDA
 Cutting performance of PVD coated and CBN tools in hardmilling, International Journal of Machine tools and Manufacture, vol.51, Issue2, pp.127-132, 2011.
- N. Asakawa, Y. Kanjo
 Collision Avoidance of a Welding Robot on the Basis of CAD data, Proc. of 15th Int. Conf. on Mechatronics Technology, pp.116, 2011.
- K. Takasugi, T. Kumasaka, N. Asakawa
 Development of Platform-Independent Open CAM Kernel, Proc. of the 6th Int. Conf. on Leading Edge Manufacturing in 21st Century, No.3354, 2011.
- Yu Kanamaru, Naoki Asakawa, Masato Okada, Toshihiro Nakayabu, Kenichi Hiroasaki, Youichi Tamura, Hideo Yachi, Akihiro Shimizu, Hiroyuki Kawara, Koichi Amaya
 Measurement of geometric deviation on a machining center -Measurement method of roll using laser-, Proceedings of the 6th International Conference of Leading Edge Manufacturing in 21st Century, No.3316, 2011.
- Syuhei Yamazaki, Ryutaro Tanaka, Akira Hosokawa, Takashi Ueda, Tatsuaki Furumoto, Masato Okada
 Tool edge temperature of spiral tap at tapping -Grasp of cutting behavior and measurement of tool edge temperature by two-color pyrometer-, Proceedings of the 6th International Conference of Leading Edge Manufacturing in 21st Century, No.3304, 2011.
- Naoki Asakawa, Hidetake Tanaka, Development of a Forging Type Rapid Prototyping System (Tool Path Generation Considering Deformation Process), International Journal of Automation Technology, Vol.4, No.6, pp.530-535, 2010.
- N. Asakawa, F. Saegusa, M. Hirao, Automation of Deburring by a Material-Handling Robot -- Generation of a Deburring Path Based on a Characteristic Model --, Int. Jour. of Automation Technology, Vol.4, No.1, pp.26-32, 2010.
- Takayuki Muranaka, Masato Okada, Kazuhiko Tanaka
 Stretch-Draw Forming of Cylindrical Cups for Improvement of Shape Accuracy" Steel Research International, vol. 81, No.9, pp.620-623, 2010.
- 岡田将人, 金田直人, 村中貴幸, 田中嘉津彦, 山本幸男, 北川浩和
 継続的改善を目指したものづくり教育の実践とその検証, 日本工学教育協会誌(工学教育), Vol.58, No.4, pp.28-33, 2010.
- 岡田将人, 村中貴幸, 亀山建太郎, 北川浩和, 鈴木秀和
 多分野融合型PBLの実践と分担制導入による教育効果, 日本工学教育協会誌(工学教育), Vol.58, No.1, pp.76-82, 2010.
- T. Ohkubo, N. Asakawa
 Development of Cutting Tool Using Functionally Graded Material -In Case of Intermittent Cutting- Proc. of 14th Int. Conf. on Mechatronics Technology, pp.405-409, 2010.
- K. Takasugi, H. Tanaka, F. Murata, M. Jono, N. Asakawa
 Development of a Forging Type Rapid Prototyping System (Improvement of Accuracy of a Product Shape Considering Hammering Direction), Proc. of 14th Int. Conf. on Mechatronics Technology, pp.217-220, 2010.
- H. Tanaka, Y. Kondo, K. Yanagi, N. Asakawa
 Development of desktop size metal hammering system by use of liner motor -Basic concept of hammering force control -, Proc. of Mechatronics 2010, E21, 2010.
- Masato OKADA, Takashi UEDA, Akira HOSOKAWA, Rachid M'SAOUBI, Takayuki MURANAKA
 Cutting characteristics of indexable insert drill, Proceedings of the 4th CIRP International Conference on High Performance Cutting, Vol.2, pp.333-336, 2010.
- 中藪俊博, 岡路正博, 今井秀孝, 平尾政利, 浅川直紀, 谷内秀夫, 清水昭裕, 天谷浩一, 廣崎憲一, 田村陽一
 ロール測定用高性能レーザ干涉計の開発, 日本機械学会論文集C編, No.75, Vol.756, pp.2245-2252, 2009.
- N. Asakawa, H. Tanaka, T. Kiyoshige, M. Hirao
 High-accuracy and Low-cost Chamfering System by a Material-Handling Robot (Individual Error Compensation Using Image Processing), Int. Jour.

- of Automation Technology, Vol.3, No.4, pp.465-470, 2009.
- M. Hayashi, H. Tachiya, N. Asakawa, T. Kawamura
Determination method for power-saved driving motions of manipulators by heuristic algorithms (In case of PTP control) Jour. of the Franklin Institute, Elsevier Sci. doi:10.1016/j.jfranklin, 2009.02.016, 2009.
- 林道大, 立矢宏, 浅川直紀
発見的手法を用いた多自由度マニピュレータの軌道決定(鋼板搬送用マニピュレータの動的トルク抑制の実現), 日本機械学会論文集C編, Vol.75, No.750, pp.262-269, 2009.
- 岡田将人, 細川晃, 田中隆太郎, 上田隆司
コーテッド工具のハードミリングにおける切削特性 -コーテッド工具のコーティング膜材質と母材の影響-, 精密工学会誌, Vol.75, No.8, pp.979-983, 2009.
- Takayuki MURANAKA, Masato OKADA, Yasunori KINUYA
Stretch-draw Forming Process Using Stepped Blank Holder to Reduce the Production Energy, Journal of Ecotechnology Reserch, Vol.15, No.1, pp.27-30, 2009.
- N. Asakawa, S. Ikejima, F. Murata, M. Hirao
Development of a Free Curved Plate Thickness Evaluation System Using a Robot -Verification of Principal of Measurement-, Proc. of the 5th Int. Conf. on Leading Edge Manufacturing in 21th Century, pp.155-160, 2009.
- N. Asakawa, H. Tanaka, F. Murata, M. Hirao
Development of a Forging Type Rapid Prototyping System (Generation of Tool Path Using Bezier Curve Interpolation), Proc. of 13th Int. Conf. on Mechatronics Technology, pp.03-04, 2009.
- H. Tanaka, N. Asakawa, M. Hirao
Development of a Forging Type Rapid Prototyping System -Error Compensation with Shape Measurement-, Int. Jour. of Automation Technology, Vol.2, No.6, pp.462-467, 2008.
- T. Nakayama, N. Asakawa, M. Hirao, R. Makino, M. Izawa
Study on mold polishing by means of an abrasive water jet, Proc. of 19th Int. Conf. On Water Jetting, pp.239-247, 2008.
- Takayuki MURANAKA, Masato OKADA, Yasunori KINUYA
Stretch-Draw Forming Process Using Stepped Blank Holder to Reduce the Production Energy, Proceedings of the 15th Asian Symposium on Ecotechnology (ASET15), Vol.14, No.2, pp.131, 2008.
- 北川正義, 山田良穂, 藤崎歩, 菅沼大輔
非結晶性PET材の降伏モードの遷移, 材料, 57巻6号, pp.617-620, (2008).
- K. Ishikawa, Y. Seki, K. Kita, M. Nishida and K. Aoki
Hydrogen permeability and microstructure of rapidly quenched Nb-TiNi alloys, Journal of Alloys and Compounds, Vol. 509, pp. S790-S793, (2011.9)
- K. Ishikawa, Y. Seki, K. Kita, M. Matsuda, M. Nishida, K. Aoki
Hydrogen permeation in rapidly quenched amorphous and crystallized Nb₂₀Ti₄₀Ni₄₀ alloy ribbons, International Journal of Hydrogen Energy, Vol. 36, No. 2, pp. 1784-1792, (2011.1)
- W. Wang, K. Ishikawa, K. Aoki
Microstructural change-induced lowering of hydrogen permeability in eutectic Nb-TiNi alloy, Journal of Membrane Science, Vol. 351, No.1-2, pp.65-68, (2010.4)
- T. Wong, K. Suzuki, M. Gibson, K. Ishikawa, K. Aoki, L.L. Jones
Hydrogen permeation behavior of multifilamentary Cu-Nb superconducting composites, Scripta Materialia, Vol.62, No.8, pp.582-585, (2010.4)
- K. Ishikawa, S. Tokui, Aoki
Microstructure and hydrogen permeation of cold rolled and annealed Nb₄₀Ti₃₀Ni₃₀ alloy, Intermetallics, Vol. 17, No. 3, pp. 109-114, (2009.3)
- M. Matsuda, Y. Shimada, T. Murasaki, M. Nishida, K. Ishikawa, K. Aoki
Crystallization and microstructure changes in rapidly solidified Nb₂₀Ti₄₀Ni₄₀ hydrogen permeation alloy, Journal of Alloys and Compounds, Vol.485, No.1-2, pp.773-777, (2009.10)
- 佐々木剛, 上野智裕, 兜森俊樹, 石川和宏, 青木清
冷間圧延-焼鈍したNb₅₂Ti₂₅Co₂₃複相合金の微細組織と水素透過性, 日本金属学会誌, Vol.72, No.12, pp.1021-1027, (2008.12)
- 島田祐介, 松田光弘, 川上雄士, 大津雅亮, 高島和希, 西田稔, 石川和宏, 青木清
液体急冷で作製したNb-TiNi 水素透過合金膜のマイクロ破壊試験, 日本金属学会誌, Vol.72, No.12, pp.1015-1020, (2008.12)
- K. Matsumura, T. Yamakoshi, P. Rolfe
Love Styles and Cardiovascular Responder Types, International Journal of Psychological Studies, 3 (2), 21-28, (2011)
- Tanaka G, Yamakoshi K, Sawada Y, Matsumura K, Maeda K, Kato Y, Horiguchi M, Ohguro H.
A novel photoplethysmography technique to derive normalized arterial stiffness as a blood pressure independent measure in the finger vascular bed, Physiol Meas, 32 (11), 1869-83, (2011)
- K. Matsumura, T. Yamakoshi, Y. Yamakoshi, P. Rolfe, The Effect of Competition on Heart Rate During Kart Driving: A Field Study, BMC Research Notes, 4, 342, (2011)
- 西田亘児, 小川充洋, 斉藤淳夫, 范宇亭, 本井幸介, 山越健弘, 山越憲一
有機溶剤中毒防止のための尿中馬尿酸の光学的検知

- の研究－馬尿酸溶液の近赤外吸光スペクトルの検討－, 信学技報, 111 (57), 9-13, (2011)
- 小川賢人, 織田慎也, 小川充洋, 野川雅道, 田中志信, 山越憲一
ホームヘルスケアのための光学式尿糖計測システムの開発－光学フィルタを用いた尿糖計測の試み－, 第26回生体・生理工学シンポジウム論文集, 638-641, (2011)
- K. Matsumura, T. Yamakoshi, H. Noguchi, Y. Matsuoka,
Fish consumption and psychophysiological activities during mental stress, In: Proc. of the 34th Annual Meeting of the Japan Neuroscience Society (Yokohama; Japan), 10486, (2011)
- M. Nogawa, M. Ogawa, T. Yamakoshi, S. Tanaka, K. Yamakoshi
Adaptive Control with Self-tuning for Non-invasive Beat-by-beat Blood Pressure Measurement, In: Proc. of the 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (Boston; USA), CD-ROM 4344-4347, (2011)
- K. Motoi, S. Taniguchi, T. Yuji, M. Ogawa, N. Tanaka, K. Hata, M. Beak, H. Ueno, M. Wakugawa, T. Sonoda, S. Fukunaga, Y. Higashi, K. Matsumura, T. Yamakoshi, S. Tanaka, T. Fujimoto, H. Asanoi, K. Yamakoshi,
Development of a Ubiquitous Healthcare Monitoring System Combined with Non-conscious and Ambulatory Physiological Measurements and its Application to Medical Care, In: Proc. of the 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (Boston; USA), CD-ROM 8211-8214, (2011)
- M. Ogawa, K. Motoi, T. Yamakoshi, M. Nogawa, Y. Yamakoshi, M. Shibata, K. Yamakoshi
A New Proposal of Tailored Bioinstrumentation Using Rapid Prototyping and Three-dimensional CAD - First Trial to Develop Individually Designed Cuff-units for Continuous Blood Pressure Measurement -, In: Proc. of the 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (Boston; USA), CD-ROM 3994-3997, (2011)
- T. Yamakoshi, K. Matsumura, Y. Yamakoshi, H. Hirose, P. Rolfe
Physiological Measurements and Analyses in Motor Sports: A Preliminary Study in Racing Kart Athletes, European Journal of Sport Science, 10 (6), 397-406, (2010)
- T. Yamakoshi, K. Matsumura, Y. Yamakoshi, H. Hirose, P. Rolfe
Physiological Measurements and Analyses in Motor Sports: A Preliminary Study in Racing Kart Athletes, European Journal of Sport Science, 10 (6), 397-406, (2010)
- M. Ogawa, M. Nogawa, T. Yamakoshi, S. Tanaka, K. Yamakoshi
Evaluation of Cardiovascular Stress Reaction Using HPCD Method on a Beat-by-beat Basis, Advance in Natural Science, 3 (2), 128-132, (2010)
- M. Ogawa, T. Yamakoshi, Y. Yamakoshi, K. Yamakoshi, Determination of Concentrations of Human Serum Albumin in Phosphate Buffer Solutions Using Near-infrared Spectroscopy in the Region of 750-2500 nm, The Internet Journal of Bioengineering, 4 (2), (2010)
- 山越健弘, 田中直登, 山越康弘, 松村健太, Peter Rolfe, 廣瀬元, 高橋規一
イヤホン組込型深部体温連続計測装置の開発と安全支援を目指したGTドライバーへの応用, 生体医工学, 48 (5), 494-504, (2010)
- 山越健弘, 松村健太, 山越康弘, 廣瀬元, 高橋規一, Peter Rolfe
高温熱ストレス環境下におけるレーシングドライバー深部体温の連続計測と解析, 生体医工学, 48 (3), 269-280, (2010)
- 山越健弘, 松村健太, 小林寛幸, 後藤雄二郎, 廣瀬元, 差分顔面皮膚放射温度を用いた運転ストレス評価の試み－単調運転ストレス負荷による基礎的検討－, 生体医工学, 48 (2), 163-174, (2010)
- 小川充洋, 山越健弘, 田中志信, 山越憲一,
ヒト血清アルブミンリン酸緩衝溶液の近赤外領域における分光学的特性およびその定量化の試み, 生体医工学, 48 (3), 259-268, (2010)
- 早川雄翔, 小川賢人, 田中志信, 小川充洋, 野川雅道, 山越憲一
在宅健康管理のための光学式尿糖値計測システムの開発研究 -尿素濃度が予測精度に及ぼす影響-, 生体医工学シンポジウム2010 (CD-ROM), 454-455 (2010)
- M. Shibata, T. Yamakoshi, K. Yamakoshi, T. Komeda,
Observation of Capillary Flow in Human Skin during Tissue Compression Using CCD Video-microscopy, In: Proc. of the 32nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (Argentina; Brazil), CD-ROM 5161-5164, (2010)
- M. Ogawa, M. Nogawa, T. Yamakoshi, S. Tanaka, K. Yamakoshi
Evaluation of Cardiovascular Stress Reaction Using HPCD Method on a Beat-by-beat Basis, In: Proc. of the 3rd International Conference of Bionic Engineering (Zhuhai; China), 3, 17-21, (2010)
- P. Rolfe, Y. Zhanga, J. Sun, F. Scopesi, G. Serra, K. Yamakoshi, S. Tanaka, T. Yamakoshi, Y. Yamakoshi, M. Ogawa
Invasive and Non-invasive Measurement in Medicine and Biology: Calibration Issues, In: Proc. of the SPIE/6th International Symposium on Precision Engineering Measurements and Instrumentation (Hangzhou; China), CD-ROM, (2010)

- K. Matsumura, T. Yamakoshi, T. Ida
Performance Measures of Alcohol-induced Impairment: Towards a Practical Ignition-interlock System for Motor Vehicles, *Perceptual and Motor Skills*, 109 (3), 841-850, (2009)
- S. M. Tanaka, S. Tanaka, T. Yamakoshi, M. Nogawa, K. Yamakoshi
A Novel Hipprotector Material with High Impact Force Attenuation: Leak-allowed Air Cushion, *Journal of Biomechanical Science and Engineering*, 4 (3), 443-455, (2009)
- T. Yamakoshi, S.B. Park, W.C. Jang, K. Kim, Y. Yamakoshi, H. Hirose
Relationship between Salivary Chromogranin-A and Stress Induced by Simulated Monotonous Driving, *Medical & Biological Engineering & Computing*, 47 (4), 449-456, (2009)
- T. Yamakoshi, P. Rolfe, Y. Yamakoshi, H. Hirose, A Novel Physiological Index for Driver's Activation State Derived from Simulated Monotonous Driving Studies, *Transportation Research Part C*, 17 (1), 69-80, (2009)
- 山越健弘, 山越康弘, 松村健太, 廣瀬元, モータースポーツ時の生体情報反応-レーシングカート走行による基礎的検討-, *生体医工学*, 47 (2), 154-165, (2009)
- 五十嵐朗, 野川雅道, 山越健弘, 本井幸介, 田中志信, 山越憲一
心臓血液駆出に伴う胸部インピーダンス変化検出による電氣的インピーダンス心拍出量計測用至適スポット電極配置, *生体医工学*, 46 (6), 587-594, (2009)
- 森本康夫, 本井幸介, 湧川盛邦, 谷口早弥香, 桑江豊湯地忠彦, 東祐二, 藤元登四郎, 田中志信, 山越憲一
リハビリテーション支援のためのウェアラブル姿勢・活動モニターシステムの開発, *生体・生理工学シンポジウム論文集*, 24, 211-214, (2009)
- M. Nogawa, M. Ogawa, K. Motoi, T. Yamakoshi, S. Tanaka, K. Yamakoshi
Theoretical Sensor Design Strategy for Noninvasive Arterial Hematocrit Measurement Method, In: *Proc. of the IFMBE/World Congress on Medical Physics and Biomedical Engineering (Munich; Germany)*, 25, (2009)
- M. Ogawa, Y. Yamakoshi, M. Nogawa, T. Yamakoshi, K. Motoi, S. Tanaka, K. Yamakoshi
An Attempt of New Calibration Method with Support Vector Machines Regression for Pulse Oximetry, In: *Proc. of the IFMBE/World Congress on Medical Physics and Biomedical Engineering (Munich; Germany)*, 25, 465-468, (2009)
- Y. Yamakoshi, M. Ogawa, T. Yamakoshi, T. Tamura, K. Yamakoshi
Multivariate Calibration Models to Classify Blood Glucose Levels Non-invasively Based on a New Optical Technique Named Pulse Glucometry, In: *Proc. of the IFMBE/World Congress on Medical Physics and Biomedical Engineering (Munich; Germany)*, 25, 469-472, (2009)
- T. Yamakoshi, S.B. Park, W.C. Jang, K. Kim, Y. Yamakoshi, H. Hirose
Levels of Salivary Chromogranin-A Secreted During Simulated Monotonous Driving Stress, In: *Proc. of the IFMBE/World Congress on Medical Physics and Biomedical Engineering (Munich; Germany)*, 25 (VII), 275-278, (2009)
- Y. Yamakoshi, M. Ogawa, T. Yamakoshi, T. Tamura, K. Yamakoshi
Multivariate Regression and Discriminant Calibration Models for a Novel Optical Non-invasive Blood Glucose Measurement Method Named Pulse Glucometry, In: *Proc. of the 31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (Minneapolis; USA)*, CD-ROM 126-129, (2009)
- M. Ogawa, Y. Yamakoshi, M. Nogawa, T. Yamakoshi, K. Motoi, S. Tanaka, K. Yamakoshi
Attempt of a Novel Calibration Method of Pulse Oximetry Using Support Vector Machines Regression, In: *Proc. of the 31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (Minneapolis; USA)*, CD-ROM 1485-1488, (2009)
- M. Ogawa, Y. Yamakoshi, K. Motoi, T. Yamakoshi, K. Yamakoshi
Preliminary Study on Near-infrared Spectroscopic Measurement of Urine Hippuric Acid for the Screening of Biological Exposure Index, In: *Proc. of the 5th International Symposium on Instrumentation Science and Technology (Shenyang; China)*, CD-ROM 858-863, (2009)
- 日下部朋哉, 野川雅道, 山越健弘, 田中志信, 山越憲一
容積振動型血圧計測法の高精度化に関する研究, *信学技報*, 109 (50), 1-3, (2009)
- 野本大貴, 小川充洋, 山越康弘, 野川雅道, 山越健弘, 本井幸介, 田中志信, 山越憲一
サポートベクターマシンによる非線形回帰を用いた新たなパルスオキシメトリの校正法の試み, *信学技報*, 109 (50), 5-8, (2009)
- 山越康弘, 小川充洋, 山越健弘, 田村俊世, 山越憲一
近赤外瞬時差分分光法による非観血的血統計測のための多変量校正モデルの検討, *生体医工学*, 46 (1), 49-57, (2008)
- 澤野井幸哉, 藤井健司, 松村直美, 藤田麗二, 野川雅道, 山越健弘, 田中志信, 山越憲一
容積補償型連続血圧測定のための加圧振動法によるサーボ制御目標値の短時間決定法, *生体医工学*, 46 (2), 218-225, (2008)
- 山越健弘
単調運転時の循環動態反応, 第23回生体・生理工学シンポジウム論文集, 217-220, (2008)
- 顧涛, 早川雄翔, 小川充洋, 野川雅道, 田中志信, 山

越憲一

ホームヘルスケアのためのトイレ内蔵型尿成分分析システムの開発, 第23回生体・生理工学シンポジウム論文集, 143-146, (2008)

野川雅道, 小川充洋, 田中志信, 山越憲一, 打出喜義
経腹の無侵襲胎児酸素飽和度計測のための生体深部光電容積信号計測センサの研究開発, 電子情報通信学会技術研究報告 (MEとバイオサイバネティクス), 108 (52), 15-18, (2008)

曹廷舜, 辻本敏行, 山越憲一, 田中茂雄
光散乱制御媒体を用いた深度分解法 非侵襲骨密度計測への応用, 電子情報通信学会技術研究報告 (MEとバイオサイバネティクス), 108 (52), 11-13, (2008)

近藤香菜子, 瀧本貴友, 山越憲一, 田中茂雄
電氣的筋収縮制御による骨量減少抑制, 日本臨床バイオメカニクス学会誌, 29, 199-204, (2008)

垣尾雅文, 杉浦直樹, 山越憲一, 田中茂雄
光を用いた再生骨の石灰化モニタリング, 日本臨床バイオメカニクス学会誌, 29, 187-192, (2008)

田中茂雄, 曹廷舜, 山越憲一, 辻本敏行
光を利用した骨密度計測法の開発 光深度分解法による皮膚影響補償, 日本臨床バイオメカニクス学会誌, 29, 181-186, (2008)

M. Shibata, T. Yamakoshi, K. Yamakoshi
Physiological role of nitric oxide in oxygen consumption by arteriolar wall, Proc. of the 30th Annual Conference of the IEEE Engineering in Medicine and Biology Society, Vancouver, .1389-1392, (2008)

T. Yamakoshi, K. Yamakoshi, S. Tanaka, M. Nogawa, S.B. Park, M. Shibata, Y. Sawada, P. Rolfe, Y. Hirose
Feasibility Study on Driver's Stress Detection from Differential Skin Temperature Measurement, Proc. of the 30th Annual International Conference of the IEEE Engineering in Medicine and Biology, Vancouver, 1076-1079, (2008)

M. Ogawa, Y. Yamakoshi, M. Nogawa, T. Yamakoshi, K. Motoi, S. Tanaka, K. Yamakoshi
A New Calibration Method with Support Vector Machines for Pulse Oximetry, IFMBE Proceeding 22, 1125-1127, (2008)

A. Ikarashi, M. Nogawa, T. Yamakoshi, S. Tanaka and K. Yamakoshi
An Improved Local Pressurization-Cuff Technique for Non-invasive Digital Arterial Pressure by the Volume-Compensation Method: Its Performance and Evaluation of Accuracy, IFMBE Proceeding 22, 1141-1144, (2008)

K. Motoi, Y. Kuwae, M. Wakugawa, Y. Toyonaga, T. Yuji, Y. Higashi, T. Fujimoto, S. Tanaka, K. Yamakoshi

Improved Wearable Monitoring System for Posture Changes and Walking Speed and its Application to Supporting Physical Therapist in Rehabilitation, IFMBE proceeding 22, 1632-1635, (2008)

Y. Yamakoshi, M. Ogawa, T. Yamakoshi, T. Tamura, K. Yamakoshi

Multivariate Calibration Models Estimate Non-invasive Blood Glucose Levels Based on a Novel Optical Technique Named Pulse Glucometry, IFMBE proceeding 22, 2664-2667, (2008)

M. Ogawa, Y. Yamakoshi, K. Motoi, T. Yamakoshi and K. Yamakoshi,

Preliminary study on near-infrared spectroscopic measurement of urine hippuric acid for the screening of biological exposure index, Proceeding of 5th International Symposium on Instrumentation Science and Technology (ISIST'2008)858-863, (2008)

S. Tanaka, M. Ogawa, T. Gu, K. Yamakoshi
Development of Urine Glucose Level Monitor for Home Healthcare using Near Infrared Spectroscopy, Proceeding of the 8th IEEE International Conference on BioInformatics and BioEngineering, BIBE, (2008)

M. Shibata, T. Yamakoshi, K. Yamakoshi
Oxygen consumption by Vascular Wall in Skeletal Muscle Arterioles under Physiological Conditions, Proceeding of the 8th IEEE International Conference on BioInformatics and BioEngineering, BIBE, (2008)

T. Komatsuzaki, Y. Iwata and S. Morishita
Semi-active Vibration Control of Structures using MR Elastomers, Proc. of 14th Asia-Pacific Vibration Conference, CD-ROM (2011.12).

H. Komatsu, H. Enomoto, T. Komatsuzaki and K. Izumi
Effect of cylinder diameter of monotube-type MR-damper on the damping force change ratio and the response time, Proc. of SETC2011, CD-ROM (2011.10).

H. Komatsu, H. Enomoto and T. Komatsuzaki, K. Izumi
Effect of electrically controlled MR-damper on the cornering of small racing car, Proc. of SETC2011, CD-ROM (2011.10).

T. Komatsuzaki and Y. Iwata
Active Noise Control Using High-Directional Parametric Loudspeaker, Journal of Environment and Engineering, Vol.6, No.1, pp.140-149 (2011.1).

T. Komatsuzaki and Y. Iwata
Cellular Automata model for size segregation of particles, Lecture Notes in Computer Science, Springer Verlag, pp. 58-68 (2010.9).

T. Komatsuzaki, Y. Iwata
Active Noise Control Using High-direction Parametric Array Source, Proc. of 13th Asia-Pacific Vibration Conference, CD-ROM (2009.11).

Y. Iwata, T. Komatsuzaki, T. Hongo, H. Saegusa, T. Marunaka, M. Mizoguchi
Estimation Test on Collision Characteristics of Golf

- Ball, Proc. of 13th Asia-Pacific Vibration Conference, CD-ROM (2009.11).
- T. Komatsuzaki and Y. Iwata
Study on Acoustic Field with Fractal Boundary using Cellular Automata, Lecture Notes in Computer Science, Springer Verlag, pp. 282-290 (2008.9).
- 岩田佳雄, 小松崎俊彦
オートパラメトリック吸振器による多自由度系の制振, 日本機械学会論文集C編, Vol. 76, No. 762, pp.253-258 (2010.2).
- 小松崎俊彦, 岩田佳雄
パラメトリックスピーカを用いた能動騒音制御 (数値計算モデルの構築と干渉音場の検討), 日本機械学会論文集C編, Vol. 76, No. 761, pp.177-184 (2010.1).
- 榎本啓士, 小松崎俊彦, 西村大志
有限要素法磁界解析による電磁流体封入ショックアブソーバ用ピストン半径の最適化, 自動車技術会論文集, Vol. 39, No. 6, pp. 53-58 (2008.12).
- 榎本啓士, 西村大志, 小松崎俊彦, 平松倫直, 福永洋輔
車両姿勢安定化システムのための電子制御式ショックアブソーバの開発, 設計工学, Vol. 43, No. 7, pp. 376-381 (2008.7).
- 鈴木裕一, 岩田佳雄, 小松崎俊彦, 溝下将大
クランクスライダ機構を有するアクティブマスタダンパによる振動制御, 日本機械学会論文集C編, Vol. 74, No. 741, pp. 1260-1266 (2008.5).
- 小松崎俊彦, 岩田佳雄, 小川孝吉
動吸振器による生理的振戦の抑制に関する研究, 日本機械学会論文集C編, Vol. 74, No. 739, pp.679-685 (2008.3).
- 小松崎俊彦, 畑中健介, 岩田佳雄
パラメトリックスピーカを用いた能動騒音制御 (音場特性に関する実験的検討), 日本機械学会論文集C編, Vol. 74, No. 737, pp. 75-82 (2008.1).
- 小松崎俊彦, 岩田佳雄, 小川孝吉
セルオートマトンによる粒度偏析現象のモデル化, 日本機械学会論文集C編, Vol. 74, No. 737, pp. 68-74 (2008.1).
- 井上照雄, 野口裕史, 大西 元, 多田幸生, 瀧本 昭
凝縮を併用した光触媒法による高性能オイルミストおよび臭気成分除去, 日本冷凍空調学会論文集, 27-2, pp.111-118, (2010.6).
- 瀧本 昭, 多田幸生, 大西 元, 深澤智仁
空気質の改善・浄化への竹炭の応用技術, 日本冷凍空調学会論文集, 27-1, pp.31-38, (2010.1).
- 小坂暁夫, 瀧本 昭
ミスト冷却における超微細構造面の伝熱促進効果 (加熱面内の液浸透を考慮した蒸発過程のモデル化による蒸発解析), 日本機械学会論文集, 74巻745号B編, pp.1991-1998, (2008.9).
- Y.Tada, Y.Satou, M.Kurokawa, A.Takimoto and H.Onishi
Effect of Ultrasonic Irradiation on Ice Formation in Biological Tissue, Proceeding of 14th International Heat Transfer Conference, paper No.IHTC14-22803, (2010.8).
- 喜成年泰, 勘甚裕一, 古畑 徹, 多田幸生
金沢大学機械工学類における初年度導入科目, 工業教育, 57-5, pp.29-33, (2009.9).
- Y.Tada, A.Takimoto T.Fujita, K.Kudou and H.Onishi
Ice Formation and Its Removal Phenomena around Vertical Cooled Cylinder in Ultrasonic Field, Proc. of The Seventh JSME-KSME Thermal and Fluids Engineering Conference, paper No. D333, (2008.10).
- Y.Tada, A.Takimoto T.Fujita and H.Onishi
Continuous Production of Ice Slurry by Utilizing Ultrasonic Irradiation, Proc. of The Second International Forum on Heat Transfer, paper No.154, (2008.9).
- H.Onishi, T.Hasegawa, Y.Tada and A.Takimoto
Heat Transfer Characteristics of Airfoil-shaped Tube Heat Exchanger, Proc. of The Asian Symposium on Computational Heat Transfer and Fluid Flow 2011, paper No. 173, (2011.9).
- H.Onishi, H.Yonekura, Y.Tada and A.Takimoto
Heat Transfer Performance of Finless Flat Tube Heat Exchanger with Vortex Generator, Proc. of 14th International Heat Transfer Conference, paper No.IHTC14-22803, (2010.8).
- H.Onishi, H.Kyono, Y.Tada and A.Takimoto
Heat Transfer Performance of Finless Flat Tube Heat Exchanger, Proc. of The Seventh JSME-KSME Thermal and Fluids Engineering Conference, paper No. D333, (2008.10).
- H.Onishi, H.Nakano, Y.Tada, and A.Takimoto
Heat Transfer Characteristics of Finless Tube Heat Exchanger under Frost Conditions with Mist Deposition, Proc. of The Second International Forum on Heat Transfer, paper No.241, (2008.9).
- N. Kawabata
Tunnel Fire Simulation, Proceedings of The 3rd Taiwan/Japan/Korea Joint Seminar for Disaster Prevention Measures of Long Tunnel, pp.64-72, (2011-11).
- M. Seike, N. Kawabata and M. Hasegawa
Experiments about Evacuation Environment in Tunnel Fire Using a Scale Model Tunnel, Proceedings of The 3rd Taiwan/Japan/Korea Joint Seminar for Disaster Prevention Measures of Long Tunnel, pp.202-209, (Poster, 2011-11).
- M. Seike, N. Kawabata and M. Hasegawa
Study of Assessment of Fire Safety in a Road Tunnel by Evacuee's Behavior based on Smoke Behavior by 3-D CFD Analysis, Proceedings of Advanced Reserch Workshop Evacuation and Human Behavior in Emergency Situations, pp.111-125, (2011-10).
- F. Tanaka, M. Kato, S. Majima, N. Kawabata, T. Kikumoto and M. Yamada
On the smoke propagation of a fire in a tunnel

- with concentrated exhaust ventilation, Proceedings of ASME-JSME-KSME Joint Fluids Engineering Conference 2011 (AJK2011-FED), AJK2011-35002, pp. 1-6, (2011-7).
- M. Yokota, K. Yamamoto, N. Kawabata, T. Kikumoto and H. Yanagi
Road tunnel fires and jet fans - operating characteristics and layout of jet fans during heat air exposure, 14th International Symposium on Aerodynamics and Ventilation of Tunnels, Dundee, Scotland, pp.77-89, (2011-5).
- 峰広 智也, 藤田 克志, 川端 信義, 長谷川 雅人, 田中 太
トンネル内火災時の縦流換気風に逆らった熱気流の遡上特性 (模型トンネルによる火災実験), 日本機械学会論文集 77 巻 776 号 B 編, pp.1064-1074 (2011-4).
- M. Seike, N. Kawabata and M. Hasegawa
Simulation of evacuation using CFD analysis of fire accident in a road tunnel, Proceedings of The 2nd Japan/Taiwan/Korea Joint Seminar for Disaster Prevention Measures of Long Tunnel by Kanazawa Univ., Taiwan Central Police Univ. and Hoseo Univ., (2010-11).
- K. Fujita, T. Minehiro, N. Kawabata, F. Tanaka
Model Experiment on Temperature Distribution of Backlayering Fume in Tunnel Fires, The 2nd Japan/Taiwan/Korea Joint Seminar for Disaster Prevention Measures of Long Tunnel by Kanazawa Univ., Taiwan Central Police Univ. and Hoseo Univ., (2010-11).
- T Uchida and N. Kawabata
Analysis of discharge from large capacity water cannon, The 2nd Japan/Taiwan/Korea Joint Seminar for Disaster Prevention Measures of Long Tunnel by Kanazawa Univ., Taiwan Central Police Univ. and Hoseo Univ., (Poster, 2010-11).
- M. Kato, F. Tanaka, N. Kawabata, T. Kikumoto and M. Yamada
Model Experiment on Concentrated Exhaust Ventilation at a Tunnel Fire, The 2nd Japan/Taiwan/Korea Joint Seminar for Disaster Prevention Measures of Long Tunnel by Kanazawa Univ., Taiwan Central Police Univ. and Hoseo Univ., (Poster, 2010-11).
- 藤田克志, 峰広智哉, 川端信義, 田中 太
トンネル火災における遡上する熱気流の温度分布に関する模型実験, 日本機械学会論文集 76 巻 768 号 B 編 (2010-8)
- 浅田隆文, 伊藤大輔, 川端信義
HDD用グループ流体軸受の循環ポートの効果と最適設計, 日本機械学会論文集 (C), 第76巻. 764号. p.785-p.793, (2010-4).
- M. Yokota and N. Kawabata
A study of Chimney Natural Exhaust Effect for Road Tunnel Fire, Proceedings of The 1st Joint Seminar for Disaster prevention measures of Long tunnel between HOSEO Univ. & KANAZAWA Univ., pp.18-33, (2010-3).
- M. Seike, N. Kawabata and H. Kurioka
Characteristics of Ceiling Jets by Fire Plume in Large Planar Space, Proceedings of The 1st Joint Seminar for Disaster prevention measures of Long tunnel between HOSEO Univ. & KANAZAWA Univ., pp.48-55, (2010-3).
- 横田 昌弘, 川端 信義
道路トンネル火災に対する自然排煙塔による排熱特性 - 低縦流風速の場合 -, 土木学会論文集 F, Vol. 66, No. 1, pp.70-84, (2010-1).
- M. Hasegawa, S. Nitta, H. Ueno
Drag Reduction Effect and Wettability of Surface with Dual-Length Micro-Pillars, JSME J. Fluid Sci. Tech., 4, 3, pp.614-622, (2009).
- F. Tanaka, J. Miyamoto and N. Kawabata,
Study of the Effect of Smoke Removal by a Water Discharge System, The Seventh JSME-KSME Thermal and Fluids Engineering Conference (TFEC7), Book of Abstracts, p. 63 (2008.10).
- T. Minehiro, N. Kawabata, F. Tanaka and K. Fujita
Backlayering Characteristics of Thermal Fume in Tunnel Fires and Influence of Stationary Vehicles, The Seventh JSME-KSME Thermal and Fluids Engineering Conference (TFEC7), Book of Abstracts, p. 146 (2008-10).
- M. Yokota and N. Kawabata
A study of Chimney Natural Exhaust Effect of Road Tunnel Fire "A Case of Low Longitudinal Air Velocity Condition", International Congress Smoke Control in Buildings and Tunnels, p.323-344 (2008.10).
- 田中一郎
ガリレオの揚水機とヴェネツィア特許, 技術と文明, 16-2, pp.25-33, (2010.3).
- 田中一郎
マントヴァのガリレオ, 科学史研究, 48 (No.250), pp.120-123, (2009.6).
- 田中一郎, 伊室英生
北陸地方における工作機械工業の実態調査と成立条件の調査研究, 日本海域研究, 40, pp.65-75, (2009.3).
- 田中一郎
それでも地球は動いている, 物理学史ノート, 18, pp.105-107, (2008.9).
- 阿部義男
中小企業における産業財産権の確立に関する検討, 産学連携学, Vol.7, No.1, pp.14-22, (2011.7).
- K. Ushioda, J. Takahashi, S. Takebayashi, D. Maeda, K. Hayashi and Y. R. Abe
Challenges Toward the Further Strengthening of Sheet Steel, International Conference on Advanced Steels (ICAS), Guilin, China), Advanced Steels -The Recent Scenario in Steel Science and Tech-

- nology-, Y. Weng, H. Dong and Y. Gan (Eds.), Part 3, pp.229-240, (2010.11).
- 竹林重人, 片山知久, 潮田浩作, 阿部義男, 白田松男
低炭素鋼板の延性に及ぼす固溶炭素及びセメントイ
トの影響, 塑性と加工, Vol.51, No.7, (2010.7).
- K. Ushioda, S. Takebayashi and Y. R. Abe
Control of Structures and Properties of Cold-
Rolled Sheet Steels Materials and Manufacturing
Processes, Vol.25, No.5, pp. 185-194, (2010.5).
- Y. Osaka, A. Kodama
Study on the low temperature activation of dry de-
sulfurization process by the accelerated oxidation,
Proceedings of The 9th international conference
on separation science and technology, Jeju, Korea,
(2011.11).
- S. Kawamata, Y. Osaka, A. Kodama
Study on the influence of steam in the TSA pro-
cess for CO₂ capture, Proceedings of The 9th in-
ternational conference on separation science and
technology, Jeju, Korea, (2011.11).
- T. Ono, A. Kodama, Y. Osaka
Recovery of CO₂ by VSA process operated with
a self-enrichment cycle, Proceedings of The 9th
international conference on separation science and
technology, Jeju, Korea, (2011.11).
- A. Kodama, Y. Washio, K. Okamoto and Y. Osaka
Water Vapor Adsorption: Desorption Behavior of
a Small Piece of Desiccant Rotor in Temperature
Swing, The ASME/JSME 2011 8th Thermal En-
gineering Joint Conference, AJTEC2011-44 (Ha-
waii), 8pages in CD-ROM, (2011.3).
- A. Kodama, A. Sanno, and Y. Osaka
Performance of Four-divided Adsorbent Rotor for
Desiccant Dehumidification, International Sorption
Heat Pump Conference ISHPC2011 (Padua, Italy),
pp. 707-714, (2011.4).
- 鬼頭毅, 大坂侑吾, 小林敬幸, 中川二彦
ジメチルエーテルを用いた排熱の熱回生プロセスに
おける反応速度評価, エネルギー・資源学会論文誌
Vol.32, No.1, pp.16-21 (2011.1).
- M. Kumita, M. Meiwa, K. Watanabe, A. Kodama
Preparation of Novel Composite for Water Vapor
Sorption, International Symposium on Innovative
Materials for Processes in Energy Systems, (Singa-
pore), (2010.11).
- Y. Osaka, S. Kurahara, N. Kobayashi, M. Hasatani, A.
Matsuyama
Study on the SO₂ absorption behavior of compos-
ite materials for DeSO_x filter from diesel exhaust,
Proceedings of the International Symposium on
Innovative Materials for Processes in Energy Sys-
tems, Singapore, (2010.11).
- 鬼頭毅, 大坂侑吾, 小林敬幸, 松山明広
車載を想定した高空間速度下での乾式脱硫法による
低濃度SO₂除去に関する基礎的検討, エネルギー・
資源学会論文誌 Vol.31, No.4, pp. 15-20 (2010.7).
- A. Kodama
Cross-contamination test of an enthalpy wheel
loading a strong acidic cation ion-exchange resin
or 3A zeolite as a desiccant material, J. Chem.
Eng. Japan, Vol.43, No. 10, pp.901-905, (2010.10).
- Y. Osaka, N. Kobayashi, M. A. Razzak, N. Ohno, S.
Takamura, Y. Uesugi
Basic study on the generation of RF plasmas in
premixed oxy-combustion with methane, Plasma
and Fusion Research, Vol.5, 010 pp. 1-6 (2010).
- H. Huang, T. Oike, F. Watanabe, Y. Osaka, N.
Kobayashi M. Hasatani
Development research on composite adsorbents
applied in adsorption heat pump, Applied Thermal
Engineering Vol. 30 pp. 1193-1198, (2010.1).
- A. Kodama, M. Kumita, T. Asada, H. Asano
Double-Stage Dehumidification in a Two-Rotor
Desiccant Cooling Process equipped with a Multi-
divided Adsorbent Rotor, J. Chem. Eng. Japan,
Vol. 42, No. 12, pp.930-936, (2009.12).
- 鷺尾康子, 児玉昭雄
温度スイング操作におけるデシカントローター片
の水蒸気吸脱着挙動, 日本冷凍空調学会論文集,
Vol.26, No.4, pp.459-467, (2009.12).
- 岡本久美子, 大島一典, 武脇隆彦, 児玉昭雄
S字型吸着等温線を示すデシカントロータの速度論
的解析 —第1報: FAM-Z01 ハニカム小片を用い
た湿度スイング操作—, 日本冷凍空調学会論文集,
Vol.26, No.4, pp.469-479, (2009.12).
- 浅田敏信, 児玉昭雄
還流2段除湿型デシカント空調プロセス, 日本
冷凍空調学会論文集, Vol.26, No.4, pp.511-519,
(2009.12).
- Y. Osaka, M. Mamiya, N. Kobayashi, A. Matsuyama
The basic study on the absorption of thin sulfur
dioxide from diesel exhausted gas, Proceedings of
8th world congress of chemical engineering, Mon-
treal, Canada, (2009.8).
- Y. Osaka, M. Mamiya, N. Kobayashi, M. Hasatani, A.
Matsuyama
Development of the on-board dry DeSO_x filter
for diesel exhaust, Proceedings of the International
Symposium on engines and vehicles, Capri, Italy,
(2009.9).
- Y. Osaka, M. Mamiya, N. Kobayashi, M. Hasatani, A.
Matsuyama
Development of the on-board dry DeSO_x filter for
diesel exhaust, SAE technical paper 2009-24-0154,
(2009.9).
- T. Asada, A. Kodama, H. Asano
Parametric Study on a Honeycomb Rotor Adsorb-
er with a Two-Stage Dehumidification, The 8th
International Symposium on Separation Technol-
ogy, No. DP-12, 8 pages in CD-ROM (Karuiwaza,
Japan), (2008.10).

- N. Sekino, A. Kodama
Recovery of VOC as Liquid Condensate by Dual Reflux PSA process, The 8th International Symposium on Separation Technology, No. DP-35, 5 pages in CD-ROM (Karuizawa, Japan), (2008.10).
- H. Yoshizawa, A. Kodama
Dual reflux PSA process applied to CO2 Removal and Recovery, The 8th International Symposium on Separation Technology, No. DP-37, 5 pages in CD-ROM (Karuizawa, Japan), (2008.10).
- 山内 恒, 児玉昭雄, 広瀬 勉, 岡野浩志, 山田健一郎
実機運転に基づくハニカムローター VOC濃縮装置の設計・運転指針と高温再生による吸着性能の改善, 化学工学論文集 Vol.34, No.2, pp.217-223, (2008.4).
- Y. Osaka, N. Kobayashi, N. Ohno, S. Takamura, Y. Tanaka Y. Uesugi
Measurement of plasma properties of the atmospheric oxy-combustion flame by using double probe Method, Contributions to Plasma Physics, Vol.48, No.5, pp. 485-490, (2008.1).

総説, 解説, 報告書

- 原山卓久, 砂田哲, 都築健
レーザカオス光集積回路と高速物理乱数生成, レーザ研究, Vol.39, No.7, pp.515-519, (2011.7)
- 吉村和之, 内田淳史, ピーターデビス, 村松純, 原山卓久, 砂田哲
共通ランダム位相変調光による半導体レーザーの同期, レーザ研究, Vol.39, No.7, pp. 520-524, (2011.7).
- 安達正明
走査型干渉顕微鏡下の粗面の垂直変位測定, -レーザ光源組込による全垂直走査域での光路差変化の高精度測定-, 光アライアンス, Vol.22, No. 6, pp.35-39, (2011.6)
- 砂田哲, 篠原晋, 池田研介
波動カオスのレーザ発振, 光学, Vol.37, No.3, pp.156-165, (2008.3)
- 木村繁男
日本における地熱エネルギー開発の現状と世界の動向, 機械の研究, Vol. 63, No.10, pp.817-824, (2011.10).
- 木綿隆弘, 山田達郎
研究室紹介「金沢大学理工学域機械工学類流体工学研究室」, 風力エネルギー, 32, 2, pp.145-150, (2008.7).
- 木村繁男
現場紹介「環日本海域環境研究センター」, 地熱技術, 33巻, 1, 2号, pp.77-81, (2008.1).
- 上田隆司, 古本達明
Nd:YAG レーザによる先進レーザ歯科治療, レーザ加工学会誌, 15巻, 1号, pp. 22-28, (2008. 1)
- 古本達明, 上田隆司
レーザ光を用いた金属粉末の焼結技術, ラピッドソーリングによる高精度金型の製作に向けて, 光ア

- ライアンス, 20巻, 5号, pp. 5-8, (2009.5).
- 古本達明, 上田隆司
レーザ光を用いたハイブリッド歯科治療, レーザ治療の安全で効率的な臨床応用に向けて, 光アライアンス, 20巻, 7号, pp. 11-15, (2009.7).
- T. Furumoto, T. Ueda
Study on Laser Assisted Milling of Consolidated Structure with the Layered Manufacturing Process, The 33rd Rapid Prototyping Symposium in Japan, pp. 107-112, (2009.7).
- 古本達明, 上田隆司, 加納康弘
遊離砥粒を用いた金型水管内面のクリーニング, 24巻, 13号, pp. 44-45, (2009.11)
- 古本達明, 上田隆司, 阿部 諭
金属光造形用粉末のレーザ焼結特性に関する研究, ファイバ導光型2色温度計によるレーザ照射部の温度測定, 型技術, 26巻, 7号, pp. 82-83, (2011.7)
- 古本達明, 上田隆司, 網野 亨, 阿部 諭
遊離砥粒を用いた金型水管内面のクリーニング (第2報), 表面突起付加による研磨効率の改善, 型技術, 26巻, 12号, pp. 74-75, (2011.12)
- 渡邊千尋
自動車の低エミッション化を目的とした超高疲労寿命をもつ構造用Al合金の開発, マツダ財団科学技術振興関係研究報告書, Vol. 21, pp. 9-16, (2009. 6).
- 渡邊千尋
Sc含有Al-Mg合金及びAl-Mg-Si合金の降温疲労特性の評価と改善, 平成19~21年度科学研究費補助金[若手研究(B)]研究成果報告書(課題番号19760063), (2010. 5)
- 門前亮一
ナノ組織制御による銅基合金の電気的・機械的特性の高度複合化, 平成20~22年度科学研究費補助金[基盤研究(C)]研究成果報告書(課題番号19560742), (2010, 5)
- 岩井智昭
ゴムのトライボロジー研究動向, 月刊トライボロジー, 288, 8, pp.51-53 (2011.8).
- 岩井智昭
歩行時の靴と路面の接触状態の測定, 日本ゴム協会第159回ゴム技術シンポジウム, ゴムのトライボロジーの最先端技術Ⅲ, pp.46-53 (2010.1)
- 網野直也・北村臣将・岩井智昭・小杉裕太郎
氷板路での水膜除去機能を強化したゴムの開発, SPring-8 重点産業利用課題成果報告書, 2009A, pp.186-188 (2009).
- 網野直也・北村臣将・岩井智昭・小杉裕太郎
水膜除去により氷板路上での摩擦力を向上させたゴム材料の開発, SPring-8 重点産業利用課題成果報告書, 2009B, pp.54-55 (2009).
- 北村光司, 西田佳史, 宮崎祐介, 山崎麻美, 岩瀬博太郎, 高野太刀雄, 山中龍宏
虐待の早期発見のための統計的・物理的診断技術の開発, ヒューマンインタフェース学会誌, Vol.13, No.2, (2011.5), 81~88,

立矢 宏, 西村誠次, 宮崎祐介

転倒予防のための運動能力が測定可能な装着型パラレルワイヤ駆動機構の研究, 平成20~22年度科学研究費補助金[基盤研究C]研究成果報告書(課題番号20560129), (2011.3).

宮崎祐介他

虐待などの意図的傷害予防のための情報収集技術及び活用技術, 科学技術振興機構社会技術研究開発事業平成22年度研究開発実施報告書(2011.3)

宮崎祐介

スポーツアンドヒューマン工学, 日本機械学会誌, Vol.113, No.1101, (2010.8), 631

西田佳史, 宮崎祐介, 山中龍宏

遊具の危険, チャイルドヘルス, Vol.13, No.4, (2010.4), 49~57

宮崎祐介

自転車の危険, チャイルドヘルス, Vol.13, No.4, (2010.4), 35~38

宮崎祐介他

虐待などの意図的傷害予防のための情報収集技術及び活用技術, 科学技術振興機構社会技術研究開発事業平成21年度研究開発実施報告書(2010.3)

宮崎祐介他

平成21年度中小企業支援調査安全知識循環型社会構築事業報告書, 産業技術総合研究所, (2010.2)

宮崎祐介

スポーツ科学・工学へのデジタル・ヒューマンモデルの適用可能性(要約), 日本機械学会誌, Vol.113, No.1095, (2010.2), 100

宮崎祐介

デジタル・ヒューマンモデルを用いた事故・傷害解析, スポーツ工学, No.4, (2009.4), 53~59

西田佳史, 山中龍宏, 宮崎祐介, 本村陽一

事故・傷害情報を対策法へと加工する工学的アプローチ, 小児保健研究, Vol.68, No.2, (2009.3), 191~198

宮崎祐介他

虐待などの意図的傷害予防のための情報収集技術及び活用技術, 科学技術振興機構社会技術研究開発事業平成20年度研究開発実施報告書(2009.3)

宮崎祐介

子どもの転倒・転落事故被害予防のためのコンピュータ・シミュレーション, バイオメカニズム学会誌, Vol.33, No.1, (2009.2), 29~34

宮崎祐介他

平成20年度中小企業支援調査安全知識循環型社会構築事業報告書, 産業技術総合研究所, (2009.2)

立矢 宏, 西村誠次

障害者の上肢姿勢保持・運動支援を目的とするワイヤ駆動型パラレルメカニズムの研究, 平成18~19年度科学研究費補助金[基盤研究C]研究成果報告書(課題番号18560129), (2008.3).

下川智嗣

原子スケール計算機実験によるバルクナノメタルの力学特性解析, 金属学会セミナー「バルクナノメタル構造用金属材料の新たな可能性」, pp.29-38,

(2011.9).

下川智嗣

分子動力学法とその応用 - 金属の塑性変形に対する粒界の役割, 溶接学会誌, Vol. 80, No.6, pp. 20-25, (2011.9).

下川智嗣

粒界の転位源能力に関する原子スケール計算機実験, まてりあ, Vol.50, No.8, pp. 346-352, (2011.8).

下川智嗣

内部欠陥構造発展の大規模計算によるバルクナノメタルの力学特性解析, 新学術領域「バルクナノメタル-常識を覆す新しい構造材料の科学」平成22年度研究成果報告書, pp. 164-196, (2011.3)

下川智嗣

転位源としての粒界のポテンシャルに関する原子シミュレーション, 特定領域「巨大ひずみ」成果発表会(第10回研究会)資料集, pp. 133-134, (2009.7).

下川智嗣

原子スケール計算機実験による超微細粒材の特異な力学特性発現メカニズムの理解, 特定領域「巨大ひずみ」成果発表会(第10回研究会)資料集, pp. 89-104, (2009.7).

下川智嗣

原子シミュレーションによる転位と粒界の相互作用とその粒界構造依存性, 日本材料学会分子動力学部門委員会・北陸信越支部合同研究会資料集, pp. 32-41, (2009.5).

下川智嗣

超微細粒材のDBTTに関する原子シミュレーション, 特定領域研究「巨大ひずみが開拓する高密度格子欠陥新材料」平成20年度報告会概要集, p.21, (2009.1).

菅沼直樹など

自動車の自動運転システム, 自動車の自動運転システム調査専門委員会編, 電気学会技術報告, 2011

砂田 茂, 得竹 浩

小型電動航空機の開発, 日本航空宇宙学会誌, Vol. 56, No. 651, pp.107-109, 2008.

米山猛

金属光造形複合加工法を用いた金型設計・製作, 設計工学, Vol.44, No.12, pp.651-657, (2009.12)

山崎光悦

CAEと設計の基礎, 日本機械学会講習会No.11-117, 「革新的ものづくりのための最適設計法入門」, pp.1-24, (2011.11).

山崎光悦, 宮川智栄, 北山哲士

FOAによる三次元簡易解析手法の開発, 設計工学, Vol.46, No.6, pp.280-288, (2010.6).

北山哲士

逐次近似最適化のススメ, 電気学会 技術報告「Particle Swarm Optimizationと情報知能産業システム」, 情報知能システムとその産業応用調査専門委員会編, 第1217号, p.35, (2011.3).

北山哲士

多目的最適設計の基礎と応用(1) - 多目的最適設計の考え方 - 機械の研究, 第63号7巻, pp.539-545,

- (2011.7).
- 北山哲士
多目的最適設計の基礎と応用 (2)―パレート最適解を求める方法とトレードオフ分析法―, 機械の研究, 第63号8巻, pp.641-654, (2011.8).
- 北山哲士
機械工学年鑑「設計工学・システム」, 日本機械学会誌, Vol.114, No.1113, p.618, (2011.8).
- 北山哲士
機械工学年鑑「材料力学」, 日本機械学会誌 Vol.114, No.1113, pp.579-580, (2011.8).
- 北山哲士
応答曲面近似と大域的最適化, 日本機械学会講習会 No.11-117, 「革新的ものづくりのための最適設計法入門」, pp.85-108, (2011.11).
- 北山哲士
Particle Swarm Optimization, 日本計算数理工学会誌, No.2010-1, pp.11-41, (2010.4).
- 北山哲士
機械工学年鑑「計算力学」, 日本機械学会誌 Vol.113, No.1101, pp.590-591, (2010.8).
- 酒井忍
ローラ式バドミントンマシンの開発研究における解析事例, 月刊トライボロジー, Vol.25, No.286, pp.36-39, (2011.6).
- 酒井忍
法則がわかる超入門講座, (1)キルヒホッフの法則, 新電気, Vol.64, No.7, pp.72-77, (2010.7).
- 酒井忍
法則がわかる超入門講座, (4)ピオ・サバルの法則, 新電気, Vol.64, No.10, pp.89-94, (2010.10).
- 酒井忍
法則がわかる超入門講座, (6)フレミングの法則, 新電気, Vol.64, No.12, pp.87-92, (2010.12).
- 山崎光悦
CAEと設計の基礎, 日本機械学会講習会 No.09-70, 「革新的ものづくりのための最適設計法入門」, pp.3-24, (2009.9).
- 山崎光悦
最適設計技術の基礎, 日本機械学会講習会 No.09-70, 「革新的ものづくりのための最適設計法入門」, pp.25-34, (2009.9).
- 北山哲士
RBFネットワークとParticle Swarm Optimizationによる統合的最適化, 電気学会 技術報告「ソフトコンピューティングの新展開とその産業応用」, ソフトコンピューティングとその産業応用調査専門委員会編, 第1151号, 第2章 2.5節, (2009.4).
- 北山哲士
多目的最適設計の基礎と応用, 日本機械学会講習会 No.09-70, 「革新的ものづくりのための最適設計法入門」, pp.51-71, (2009.9).
- 山崎光悦
CAEと設計の基礎, 日本機械学会講習会 No.08-41, 「革新的ものづくりのための最適設計法入門」, pp.3-24, (2008.9).
- 山崎光悦
最適設計技術の基礎, 日本機械学会講習会 No.08-41, 「革新的ものづくりのための最適設計法入門」, pp.25-34, (2008.9).
- 北山哲士
最適化とモデリングを融合した統合型最適化, 計測と制御, Vol.47, No.6, pp.512-518, (2008.6).
- 北山哲士
多目的最適設計の基礎と応用, 日本機械学会講習会 No.08-41, 「革新的ものづくりのための最適設計法入門」, pp.51-71, (2008.9).
- 坂本二郎
脊椎・脊髄のバイオメカニクス 椎骨(椎体)の力学的特性 椎体皮質骨・海綿骨の応力解析, 脊椎脊髄ジャーナル, 三輪書店, Vol.23, No.7, pp.709-712, (2010.7)
- 坂本二郎, 田原大輔, 村上英樹, 川原範夫, 富田勝郎
脊椎骨折のバイオメカニクス, 臨床画像, メジカルビュー社, Vol.25, No.8, pp.848-855, (2009.8)
- 坂本二郎
地場産業の被害と復興状況, 日本機械学会, 能登半島および中越沖地震による地場産業等の被害とその復興に関する臨時調査分科会成果報告書, pp.51-78, (2009.3)
- 坂本二郎
バイオエンジニアリングに関する倫理と法, 日本機械学会誌, Vol.111, No.1077, pp.718, (2008.8)
- 田中茂雄
TOPICS Primary cilia: 力を感じ取る骨細胞のアンテナ, 日本機械学会誌, Vol.113, No.1103, p.55, 2010.
- 田中茂雄
ひずみ誘導型液体流動による骨形成反応促進効果の実験的検証(課題番号: 20560070), 平成20-22年度科学研究費補助金研究成果報告書(基盤研究(C)), 2011.
- 田中茂雄, 山越憲一
骨粗鬆症性骨折予防を目的とした筋刺激用エレクトロニクスデバイスの開発, 立石科学技術振興財団助成研究成果集, 第18号, pp. 30-36, 2009.
- 田中茂雄
ひずみ誘導型液体流動を用いた力学刺激適応型再生骨培養システムの開発(課題番号: 18500343), 平成18-19年度科学研究費補助金研究成果報告書(基盤研究(C)), 2008.
- N.Asakawa, T. Maeda
Fujitsu IT Products Ltd. Factory Tour, Int. Jour. of Automation Technology, Vol.3 No.6, pp.768-770, 2009.
- 浅川直紀, 岩森暁, 松井良雄
金沢大学における機械系導入実習, 砥粒加工学会誌, Vol.52, No.9, pp.519-522, 2008.
- 山田良徳, 宮本泰介, 中川真司
非晶性高分子固体の塑性変形過程の検討, 日本材料学会第60期学術講演会講演論文集, (2011.5)

- 長田幸輔, 杉本亮祐, 山田良穂
プラズマ支援蒸着法による Polyimide 薄膜の作成とその表面特性, 日本材料科学会平成23年度学術講演会大会講演予稿集, pp.107-108, (2011.6).
- 中島翔平, 内田大宇, 柳田和也, 山田良穂
RFスパッタリングによって作製したポリエーテルエーテルケトン薄膜の表面特性, 日本材料科学会平成23年度学術講演会大会講演予稿集, pp.109-110, (2011.6).
- 山田良穂, 金指智弘, 小前海渡
非晶性高分子固体の延伸・熱処理材における DSC 測定, 第54回材料工学連合講演会講演論文集, pp.40-41, (2010.10).
- 山田良穂, 為井悠男, 駒野喜紀
繰返し変形負荷を受ける CFRP 材の機械的的特性の劣化の評価, 第54回材料工学連合講演会講演論文集, pp.42-43, (2010.10).
- 山田良穂, 宮本泰介, 中川真司,
高分子固体の変形過程における降伏挙動の検討, 第54回材料工学連合講演会講演論文集, pp.38-39, (2010.10).
- 山田良穂, 高木泰人, 青木晋介
CFRP 疲労劣化材のクリープ挙動, 日本機械学会第17回機械材料・材料加工技術講演会, (2009.11).
- 山田良穂, 加納俊平, 辻直人: 非晶性高分子材料のせん断変形過程に生じるすべり線の観察と降伏挙動, 日本機械学会第17回機械材料・材料加工技術講演会, (2009.11).
- 山田良穂, 岡本尚, 高木泰人: CFRP の粘弾性挙動に及ぼす疲労損傷の影響, 日本機械学会北陸信越支部学術講演会講演論文集, pp.317-318, (2009.3).
- 山田良穂, 加納俊平, 宮本泰介
非結晶性高分子のせん断変形過程の観察, 日本機械学会北陸信越支部学術講演会講演論文集, pp.319-320, (2009.3).
- 山田良穂, 加納俊平, 宮本泰介
非晶性ポリエチレンテレフタレート of のせん断変形過程の観察と降伏モードの検討, 第52回材料工学連合講演会講演論文集, pp.269-270, (2008.10).
- 石川和宏, 青木清
水素の製造・精製用金属材料, 日本機械学会誌, Vol.112, No.4, pp.286-288, (2009.4)
- K. Yamakoshi
In the Spotlight: Bioinstrumentation, IEEE Rev. Biomed. Eng., 3, 3-6, (2010)
- 山越健弘
経時的差分体表面温度を用いた新規運転ストレス評価法に関する研究, 立石科学技術振興財団助成研究成果集, 19, 67-72, (2010)
- K. Yamakoshi
In the Spotlight: Bioinstrumentation, IEEE Rev. Biomed. Eng., 2, 2-5, (2009)
- K. Yamakoshi
In the Spotlight: Bioinstrumentation, IEEE Rev. Biomed. Eng., 1, 2-3, (2008)
- 山越憲一, 田中志信, 高田重男, 野川雅道
携帯型循環調節機能計測・解析システムによる生体ストレス評価に関する研究, 平成17-19年度科学研究費補助金(基盤研究B)研究成果報告書, (2008)
- 山越健弘, 野川雅道, 山越憲一
ストレスの物理的評価, バイオインダストリー, 25(6), 7-17, (2008)
- 小松崎俊彦
機能性ゲルの開発と機械構造物のセミアクティブ振動制御システムへの応用に関する研究, 文部科学省科学研究費補助金 若手研究(B)研究実績報告書, pp.1-2, (2011.3).
- 岩田佳雄
ものづくり技術と機械設計, そして設計力とは — 3D CAD の真の活用に向けて— 金沢大学における「ものづくり」教育, 日本機械学会誌, Vol. 114, No. 1107, pp.130-133 (2011.2).
- 小松崎俊彦
超音波干渉に基づく仮想音源生成システムの開発と能動騒音制御への適用, 文部科学省科学研究費補助金 若手研究(B)研究成果報告書, pp.1-4, (2010.3).
- 岩田佳雄, 佐伯暢人
能登半島及び中越沖地震による産業設備機器の被害, 日本地震工学会誌, No. 9, pp.31-34 (2009.1).
- 岩田佳雄
能登半島および中越沖地震による産業設備機器の被害調査報告, 日本機械学会北陸信越支部ニューズレター, Vol.11, p.7-9, (2008.7).
- 井上照雄, 瀧本 昭, 多田幸生
LED 光源による光触媒脱臭法の高性能化, 第48回日本伝熱シンポジウム講演論文集, Vol.I, (2011.6).
- 竹脇基哉, 井上照雄, 瀧本 昭, 多田幸生, 大西 元
LED 光源および各種触媒面による光触媒脱臭法の高性能化, 2010年度冷凍空調学会年次大会講演論文集, pp.641-644, (2010.9).
- 井上照雄, 野口裕史, 大西 元, 多田幸生, 瀧本 昭
凝縮を併用した光触媒法による高性能オイルミストおよび臭気成分除去, 2009年度冷凍空調学会年次大会講演論文集, pp.469-470, (2009.10).
- 瀧本 昭, 多田幸生, 大西 元
環境保全技術としての二酸化炭素の回収固定体の形成と藻場造成への利用, 文部科学省科学研究費補助金基盤研究(C)(一般)成果報告書, (2009.4).
- 深澤智仁, 瀧本 昭, 多田幸生, 大西 元
木炭系炭化物による空気質の改善・浄化に関する研究, 2008年度冷凍空調学会年次大会講演論文集, pp.173-174, (2008.10).
- 多田幸生, 吉田洋平, 瀧本 昭, 大西 元
水の過冷却に及ぼす振幅変調超音波振動の影響, 2011年度日本機械学会年次大会DVD-ROM講演論文集, J024024, (2011.9).
- 多田幸生, 泉田淳司, 碓井優介, 瀧本 昭, 大西 元
超音波を利用した晶析法による単分散微粒子の創製, 第48回日本伝熱シンポジウム講演論文集, Vol.I, (2011.6).

- 経田僚昭, 多田幸生, 田附洋人, 瀧本 昭, 大西 元
枝管付きループ管型熱音響冷凍機の音場特性,
第48回日本伝熱シンポジウム講演論文集, Vol.I,
(2011.6).
- 義岡秀晃, 柳谷竜登, 多田幸生, 林勇二郎
過冷却向心凝固におけるマッシュ域の成長, 第48回
日本伝熱シンポジウム講演論文集, Vol.I, (2011.6).
- 多田幸生
超音波を利用した凝固制御による食品の高品質冷凍
技術の開発, 文部科学省科学研究費補助金基盤研究
(C)(一般)成果報告書, (2011.4).
- 多田幸生, 小林幹夫, 佐藤吉晃, 瀧本 昭, 大西 元
水の過冷却に及ぼす超音波振動の影響, 日本機械学
会熱工学コンファレンス2010講演論文集, pp.159-
160, (2010.11).
- 碓井優介, 多田幸生, 瀧本 昭, 大西 元
マルチ超音波を利用した晶析法による単分散微粒子
の創製, 日本機械学会熱工学コンファレンス2010講
演論文集, pp.157-157, (2010.11).
- 経田僚昭, 多田幸生, 田附洋人, 瀧本 昭, 大西 元
枝管付きループ管型熱音響冷凍機における音場の数
値シミュレーション, 日本機械学会熱工学コンファ
レンス2010講演論文集, pp.153-154, (2010.11).
- 多田幸生, 経田僚昭, 田附洋人, 瀧本 昭, 大西 元
熱音響冷却に及ぼすスタック構造の影響, 2010年
度冷凍空調学会年次大会講演論文集, pp.631-634,
(2010.9).
- 多田幸生, 大森 梓, 瀧本 昭, 大西 元
懸濁浮遊細胞の凍結における細胞の掃き出し・捕捉
現象, 2009年度冷凍空調学会年次大会講演論文集,
pp.595-596, (2009.10).
- 多田幸生, 佐藤吉晃, 瀧本 昭, 大西 元
食品凍結における超音波振動の影響, 日本機械学
会2009年度年次大会講演論文集 (3), PP.97-98,
(2009.9).
- 多田幸生, 瀧本 昭, 黒川 誠, 大西 元
超音波音場に置かれた生物試料の冷却過程の数値シ
ミュレーション, 第46回日本伝熱シンポジウム講
演論文集, Vol. III, pp.725-726, (2009.6).
- 多田幸生, 瀧本 昭, 塚本春樹, 大西 元
組織体凍結に及ぼす超音波照射の影響, 第45回日
本伝熱シンポジウム講演論文集, Vol. II, pp.707-708,
(2008.5).
- 多田幸生
超音波を利用した凝固制御による生体組織のガラス
化保存技術の開発, 文部科学省科学研究費補助金基
盤研究 (C) (2) 成果報告書, (2008.3).
- 山下達也, 大西 元, 多田幸生, 瀧本 昭
自励振動ヒートパイプ内蔵フィンに関する研究, 日
本機械学会熱工学コンファレンス2011講演論
文集, pp.361-362, (2011.10).
- 大西 元, 米倉 永, 菊池 肇, 多田幸生, 瀧本 昭
対称翼型チューブ熱交換器の伝熱性能, 2011年
度冷凍空調学会年次大会講演論文集, pp.399-402,
(2011.9).
- 大西 元, 米倉 永, 多田幸生, 瀧本 昭
対称翼形状による翼型チューブ熱交換器の高性能
化, 第48回日本伝熱シンポジウム講演論文集, Vol.
II, pp.653-654, (2011.6).
- 長谷川拓哉, 大西 元, 多田幸生, 瀧本 昭
翼型チューブ熱交換器の伝熱性能に関する研
究, 2010年度冷凍空調学会年次大会講演論文集,
pp.367-370, (2010.9).
- 大西 元, 米倉 永, 多田幸生, 瀧本 昭
渦発生体付設によるフラットチューブ熱交換器の高
性能化, 第47回日本伝熱シンポジウム講演論文集,
Vol. III, pp.633-634 (2010.5).
- 米倉 永, 大西 元, 多田幸生, 瀧本 昭
渦発生体付きフラットチューブ熱交換器に関する数
値解析, 第22回計算力学講演会講演論文集, paper
No.2403, (2009.10).
- 大西 元, 御堂翔太, 多田幸生, 瀧本 昭
冷凍機用フラットチューブ熱交換器の着霜を伴う伝
熱特性 (フィンチューブ熱交換器との性能比較),
第46回日本伝熱シンポジウム講演論文集, Vol.
III, pp.605-606 (2009.6).
- 御堂翔太, 大西 元, 多田幸生, 瀧本 昭
冷却用フィンレスフラットチューブ熱交換器の伝熱
性能, 2008年度冷凍空調学会年次大会講演論文集,
pp.227-228, (2008.10).
- 大西 元, 中野裕之, 多田幸生, 瀧本 昭
フィンレスフラットチューブ熱交換器の熱流動特
性, 第45回日本伝熱シンポジウム講演論文集, Vol.
II, pp.475-476, (2008.5).
- 田中一郎
ガリレオ・ガリレイ, てんとう虫, 2009・2, pp.28-
34, 38-43, (2009.1).
- 田中一郎
驚くべき発見「ガリレオ・ガリレイ」, エクセ
レント イタリア・ベッライタリア, 1, pp.118-123,
(2009.11).
- 田中一郎
アマチュア天文家の祖—ガリレオ・ガリレイ, 星ナ
ビ, 12月号, pp.26-31, (2009.12).
- 田中一郎
国立天文台・世界天文年2009「ガリレオの生涯」,
<[http://www.astronomy2009.jp/ja/webproject/
life-g/index.html](http://www.astronomy2009.jp/ja/webproject/life-g/index.html)>, (2009.12).
- 阿部義男, 日本知的財産協会 国際第三委員会 (他23
名)
中国専利権行使実務マニュアル, 日本知的財産協会,
資料第380号, (2009.7).
- 児玉 昭雄
デシカント除湿プロセスによる省エネルギー・快適
空調, 化学工学, 73, 12, 654-657, (2009.12).
- 佐々木浩一, 上杉喜彦, 大野哲靖, 大坂侑吾
燃焼科学とプラズマ科学の融合—プラズマ支援燃
焼—, 日本燃焼学会誌 Vol.51, No.157, pp.259-267
(2009.11).
- 大坂侑吾
理論効率だけで決まらない現在のエンジンデザ

イン, エネルギー・資源 Vol.30, No.4, pp.244-246, (2009.10).

著書

- 中島尚正, 岡島 厚, 木綿隆弘, 他170名
機械工学ハンドブック (11. 流れの中の抵抗, pp.431~438担当), 朝倉書店, (2011.10).
- Kamen, K., Kimura, S.
Chap.1 Collaborative learning in dynamic group environment (pp.1-14), Distance Education Environments and Emerging Software Systems, edited by Qun Jin, Information Science and Reference, Hershey, PA, USA, (2011.6).
- 船田哲男, 木綿隆弘, 他8名
Windows Vistaによる情報処理基礎 (第4章 pp.81~111担当), 学術図書出版, (2008.4).
- 渡辺義見, 渡邊千尋, 三浦誠司, 三浦博巳
機械材料学入門, DTP出版, (2009. 3).
- 渡辺義見, 三浦博巳, 三浦誠司, 渡邊千尋
図でよく分かる機械材料学, コロナ社, (2010. 2).
- 立矢 宏 他
最新 機械機器要素技術, NGT, (2008. 7).
- 喜成年泰 他11名
知的キャンパスライフのすすめ-スタディ・スキルズから自己開発へ-, 学術図書出版社 (2008.4)
- 得竹 浩他
Encyclopedia of Aerospace Engineering, Wiley, 2010, (Volume 7. Vehicle Design, Part 34 Micro Air Vehicles を分担執筆)
- 得竹 浩他
昆虫ミネティックス-昆虫の設計に学ぶ-, 株式会社エヌ・ティー・エス, 2008, (第3編 機能応用編 第1章デザイン第14節 センチメートルサイズの航空機を分担執筆)
- 畑村洋太郎, 米山猛, 他25名
実際の設計第7巻 成功の視点, 日刊工業新聞社, (2010.10).
- Yamazaki, K., Han, J., Nishiyama, S.
Structural Optimization Techniques for Developing Beverage Containers, Optimization in Food Engineering (Contemporary Food Engineering), Edited by Ferruh Erdogan, pp.465-498, CRC Press, U.S.A., (2008.12).
- Yamazaki, K., Han, J., Nishiyama, S., Ito, R.
Integration of Ergonomic Design with Finite Element Analysis and Structural Optimization Technology -- Ergonomics in Aluminum Beverage Containers, Ergonomics: Design, Integration and Implementation, Edited by Bram N. Brinkerhoff, Nova Science Publishers, U.S.A., (2009.7.).
- 酒井忍
すぐわかる第3種冷凍機械責任者試験実力アップ問題集 (改訂新版), 日本教育訓練センター, (2009.2).
- 浅川直紀, 岩田佳雄, 大西元, 酒井忍, 坂本二郎, 高

森達郎, 田中茂雄, 野川雅道, 古本達明, 米山猛
3次元CAD・CAE・CAMを活用した創造的な機械設計, 日研工業新聞社, (2009.8).

山越健弘

山口昌樹監修「ヒューマンインタフェースのための計測と制御」(担当: 第6章生理量の物理計測 第2編 ヒューマンセンシング, ヒューマンインタフェースのための計測と制御, 56-69), 東京, シーエムシー出版, (2009)

Joel L. Schiff (著), 梅尾博司, Ferdinand Peper (監訳), 足立進, 磯川悌次郎, 今井克暢, 小松崎俊彦, 李佳 (著) セルオートマトン, 共立出版, (2011.12).

岩田佳雄, 佐伯暢人, 小松崎俊彦
機械振動学, 数理工学社, (2011.5).

H. Umeo, S. Morishita, T. Komatsuzaki, and S. Bandini

Lecture Notes in Computer Science (LNCS 5191) (Proc. of 8th International Conference on Cellular Automata for Research and Industry, ACRI2008), Springer, (2008.9).

瀧本 昭ほか43名

冷凍空調便覧 新版・第6版 I巻基礎編 (担当 第7章 7.6物質移動), pp.224-225, 日本冷凍空調学会, (2010.6).

瀧本 昭ほか71名 (西尾茂文主査)

伝熱工学資料 改訂第5版 (担当 第3章 物質移動と熱伝達) pp.91-96 日本機械学会, (2009.5).

田中一郎

ジャン=ピエール・モーリ『ニュートン-宇宙の法則を解き明かす』, 創元社, (2008.8).

田中一郎

ジャン=ピエール・モーリ『ガリレオ-はじめて[宇宙]を見た男』, 創元社, (2008.9).

児玉昭雄 他20名 (化学工学会編)

化学工学便覧改訂七版 第10章 吸着・イオン交換 (担当 10.6.1-b. (iii) 除湿空調, pp.565-566), 丸善出版, (2011.9).

児玉昭雄 他59名 (化学工学会エネルギー部会編)

実装可能なエネルギー技術で築く未来 骨太のエネルギーロードマップ2 (担当 Map 2-4「顕熱潜熱分離空調のロードマップ」 pp. 146-153), 化学工業社, (2010.1).

Akio Kodama, 他36名 (Bidyut Baran Saha and Kim Choon Ng編)

Chemistry Research and Applications Series, Advances in Adsorption Technology (担当 Chapter12; "Adsorbents and systems for a low-temperature driven desiccant air-conditioning", pp.395-444), Nova Science Publishers, New York, (2010. 9).

児玉昭雄, 大島一典 他38名 (金子克美編)

吸着技術の産業応用ハンドブック (担当 第2章 [1-a) ロータ型空調技術]), リアライズ理工センター, (2009.6)

児玉昭雄 他6名 (金沢大学情報グループテキスト編集委員会編)

e-Learningを利用した情報処理基礎 (担当 第1章

eラーニングとパソコン管理の基本), 学術図書出版社, (2009.4).

児玉昭雄, 大蔵 将史 他60名

太陽エネルギー有効利用最前線 (担当 第4編 太陽エネルギーの住空間利用・間接利用 第2章 太陽熱温水器を熱源とする吸着式デシカント空調システム), エヌ・ティ・エス, (2008.6).

特許, 実用新案

渡部和良, 桐山伸一, 松本達治, 田中和宏, 木綿隆弘
柱状体の制振構造, 特許, 特開2008-101384, (公開日 2008.5.1).

木綿隆弘, 玉田義明, 東崎英樹, 齊藤雅之
非常用貯水槽, 特許, 特願2008-96320, (提出日 2008.4.2).

上田隆司, 古本達明
らせん状突起を有する内面を持った金型冷却用水管, 発明番号: 特2011-0024

立矢 宏, 林 道大, 武田昌士
ロボットの運動方法決定装置, ロボットの運動方法決定方法, 及び, そのプログラム, 特願2011-021107

宮崎祐介, 吉田健
ヘルメット用サイズゲージ, 特願2010-172761

宮崎祐介, 村井庸平, 北村光司
生活空間における傷害危険領域可視化法, 特願2010-127299

立矢 宏, 金子義幸
工作機械及びその熱変形量推定方法, 特許第4450722号, (2010-2).

立矢 宏
触覚センサ及びこれを組み合わせたセンサユニット, 特許第4353624号, (2009-8)

立矢 宏, 金子義幸
パラレルメカニズム利用の位置決め装置, 特許第4249530号, (2009-1).

得竹 浩他2名
運転者状態判定装置, 得竹浩, 特願2009-228006.

酒井忍
投球機, 特願2011-261231, (2011.11).

酒井忍, 村口さよ
バドミントン用のシャトル発射装置, 特願2009-238084, (2009.10).

須永幸彦, 酒井忍
ローター式バドミントン練習マシン, 特願2008-299253, (2008.11).

田中茂雄
再生組織用細胞内カルシウムイオンモニタリング装置, 特願2008-055393号, 特開2009-207445号

石川智子, 来田勝継, 青木清, 石川和宏
水素透過膜の製造方法, 特願2008-010079

佐々木剛, 上野智裕, 兜森俊樹, 青木清, 石川和宏
水素透過モジュールおよびその使用方法, 特願2008-076119

喜多晃一, 青木清, 石川和宏
すぐれた水素透過分離性能を発揮する水素透過分離薄膜, 特願2008-179714

喜多晃一, 青木清, 石川和宏
すぐれた機械的性質と水素透過分離性能を有する水素透過分離薄膜, 特願2008-217684

西田稔, 波田野雄一, 板倉賢, 巨海玄道, 中野智仁, 青木清, 石川和宏
合金超伝導体生成方法, 及び合金超伝導体, 特願2010-086065

山越憲一, 田中志信, 本井幸介, 中野浩一, 田中直登, 徳田和男

圧力測定装置, 特開2010-237088

山越憲一, 田中志信, 本井幸介, 中野浩一, 田中直登, 徳田和男

生体計測装置, 特開2010-236275

山越憲一, 野川雅道, 田中志信, 山越健弘, 澤野井幸哉, 藤井健司, 松村直美, 藤田 麗二

血圧情報測定装置, 特開2010-220638

山越憲一, 野川雅道, 澤野井幸哉
血圧測定装置, 血圧導出プログラムおよび血圧導出法, 特願2008-066523

山越憲一, 田中志信, 野川雅道, 山越健弘, 澤野井幸哉

電子血圧計およびその制御方法, 特開2008-36004
瀧本 昭, ほか2名

燃焼促進剤, 特願2009-210683, 特開2011-57901

大西 元, 瀧本 昭, 多田幸生
熱交換器の伝熱管配列構造, 特願2011-159027

武田英人, 松山明宏, 小林敬幸, 大坂侑吾

排気浄化装置, 特願2008-124412

H.Takeda, A.Matsuyama, N.Kobayashi, Y.Osaka
Exhaust gas purification device, US Patent application number: 2009-0277163

井上哲, 布施卓也, 小林敬幸, 大坂侑吾, 鬼頭毅, 高橋一晃, 早瀬友宏

蓄熱装置, 特願2008-040582