

著作

- ・”MELT PROCESSED HIGH-TEMPERATURE SUPERCONDUCTORS”, World Scientific(1992) (分担執筆).
- ・「磁気浮上と磁気軸受」、コロナ社(1993)(分担執筆).
- ・「電磁現象と逆問題」、養賢堂(1999) (分担執筆).
- ・ ”Femtosecond Beam Science”, Author&Editor, Imperial College Press, 2005.
- ・ 「原子炉構造工学」、コロナ社(2009)(分担著者)

論文リスト

前川陽、山崎淳、細貝知直、小山和義、上坂充「レーザープラズマ電子加速における電子バンド長の評価」日本真空協会 Journal of the Vacuum society of Japan Vol.52 No.8.2009

Mitsuru Uesaka, Hiroki Taguchi, Azusa Mori, Noritaka Yusa, “Application of monochromatic keV X-ray source to X-ray drug delivery system”, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 2009, in press.

F. Sakamoto^{a,b}, M. Uesaka^a, Y. Taniguchi^a, T. Natsui^a, E. Hashimoto^a, L. K. Woa^a, T. Yamamoto^a, J. Urakawa^c, M. Yoshida^c, T. Higoc, S. Fukuda^c, N. Kanekod, H. Nosed, H. Sakaed, N. Nakamura^e, M. Yamamoto, “Compton Scattering Monochromatic X-ray Source based on X-band Multi-bunch linac at the University of Tokyo “, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 2009, in press.

Yoshihiro Taniguchi, Fumito Sakamoto, Takuya Natsui, Tomohiko Yamamoto, Eiko Hashimoto, Mitsuru Uesaka, “Upgrade of X-band Thermionic Cathode RF-gun for Compton Scattering X-ray Source”, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 2009, in press.

Noritaka Yusa, Meiling Jiang, Kazue Mizuno, and Mitsuru Uesaka
“Numerical evaluation of the effectiveness of colloidal gold as a contrast agent”
Radiological Physics and Technology Vol.2,.No.1,33-39(2009)

山本 智彦、夏井 拓也、李 基羽、谷口 善洋、田口 博基、平井 俊輔、橋本 英子、坂本 文人、上坂 充、中村 直樹、山本 昌志、田辺 英二
「可搬型ライナック X 線源によるポンプ状態監視保全の原理実証」
日本 AEM 学会誌、Vol.17,No.2,211-215(2009)

A.Sakumi,M.Uesaka,T.Ueda,K.Miyoshi,K.Kanbe,N.Kumagai,H.Tomizawa,J.Urakawa
“Photocathode RF gun with bi-alkali high QE cathode at University of Tokyo”
CAARI, 20th International Conference on the Application of Accelerators in Research and Industry, CAARI(2008)

Akira Maekawa, Mitsuru Uesaka, Hiromitsu Tomizawa
“Generation and applications of radial polarized laser beam for accelerator”, FEL 2008(2008)

A.Sakumi,H.Iijima,M.Uesaka,K.Yoshii,T.Ueda,Y.Muroya,A.Fukasawa,N.Kumagai,H.Tomizawa,J.Urakawa
“Synchronization between the laser and electron beam in a photocathode RF gun”
Int.j.Mod.Phys.A22:4179-4186(2007)

Akira Maekawa, Atsushi Yamazaki, Ryosuke Tsujii, Yukio Shibata, Yasuhiro Kondo, Mitsuru Uesaka, Toshiharu Takahashi, Tomonao Hosokai, Alexei Zhidkov
"Bunch duration measurements via CTR spectrum analysis in a laser plasma accelerator and its future applications"

Laser and Plasma Accelerators Workshop 2007, Azores, Portugal, 9-13th July (2007)

T.Natsui, T.Yamamoto, F.Sakamoto, A.Sakumi, K.Dobashi, M.Uesaka,
"Experiment of X-ray Source by 9.4 GHz X-band Linac for Nondestructive testing system"
Proceedings of Particle Accelerator Conference07(PAC07),June25-29(2007) pp.2781-2783

F.Sakamoto, M.Uesaka, T.Yamamoto, T.Natsui, and Y.Taniguchi, H.Sakae, D.Ishida, H.Nose, N.Kaneko
H.Sakai,T.Higo, M.Akemoto,J.Urakawa M.Yamamoto,
"Beam Generation and Acceleration Experiments of X-band Linac and Monochromatic KEV X-ray
source of the University of Tokyo"
Proceedings of Particle Accelerator Conference07(PAC07),June25-29(2007) pp.2784-2786

A.Sakumi,T.Ueda,K.Mizuno,M.Uesaka,N.Kumagai,H.Hanaki,S.Suzuki,H.Tomizawa,
J.Urakawa,"Commissioning A Cartridge-Type Photocathode RF Gun System At University Of Tokyo"
Proceedings of Particle Accelerator Conference07(PAC07),June25-29(2007) pp.2787-2789

R.Tsujii,A.Maekawa,A.Yamazaki,M.Uesaka,Y.Kondo,Y.Shibata,A.Zhidkov,T.TakahashiT.Hosokai,
"Measurement of Ultra-Short Electron Bunch Duration by Coherent Radiation Analysis in Laser Plasma
Catode"
Proceedings of Particle Accelerator Conference07(PAC07),June25-29(2007) pp.4066-4068

M.Uesaka,K.Mizuno,A.Sakumi,J.Meiling,N.Yusa,H.Takahashi,N.Nishiyama,K.Kataoka,K.Nakagawa,
"Pinpoint KEV/MEV X-ray Sources For X-ray Drug Delivery System"
Proceedings of Particle Accelerator Conference07(PAC07),June25-29(2007) pp.2793-2795

A.Yamazaki, A.Maekawa, R.Tujii, M.Uesaka, K.Kinoshita, T.Hosokai, A.Zhidkov,"Manipulation of
Electron Beam Generation with Modified Magnetic Circuit on Laser-Wakefield Acceleration"
Proceedings of Particle Accelerator Conference07(PAC07),June25-29(2007)pp.2790-2792

Akira Maekawa, Ryosuke Tsujii, Kennichi Kinoshita, Yamazaki Atsushi, Kazuyuki Kobayashi, Mitsuru
Uesaka, Yukio Shibata, Yasuhiro Kondo, Takeru Ohkubo, Tomonao Hosokai, Alexei Zhidkov and
Toshiharu Takahashi,
"Ultra short electron beam bunches from a laser plasma cathode",
Nucl. Instr. and Meth. B, vol. 261 ,pp 5-8, (2007)

De Meng, Fumito Sakamoto, Tomohiko Yamamoto, Katsuhiro Dobashi, Mitsuru Uesaka, Hiroyuki
Nose, Daisuke Ishida, Namio Kaneko and Yasuo Sakai,
"High power laser pulse circulation experiment for compact quasi-monochromatic tunable X-ray
source",
Nucl. Instr. and Meth. B, vol. 261, pp.52-55 ,(2007)

Mitsuru Uesaka, Fumito Sakamoto, Katsuhiro Dobashi, Tatsuo Kaneyasu,Tomohiko Yamamoto, De
Meng, Junji Urakawa,Toshiyasu Higo, Mitsuo Akemoto and Hitoshi Hayano,
"Monochromatic tunable Compton scattering X-ray source using X-band multi-bunch linac and YAG
laser circulation system"
Nucl. Instr. and Meth. B, vol. 261, pp.867-870, (2007)

Tomohiko Yamamoto, Takuya Natsui, Noritaka Yusa, Katsuhiro Dobashi, Mitsuru Uesaka,
Toshiyasu Higo, Shigeki Fukuda, Mitsuo Akemoto, Mitsuhiro Yoshida, Toshikazu Takatomi,
Noboru Kudoh, Eiji Tanabe, Naoki Nakamura, Seiki Morita, and Masashi Yamamoto,
"Compact 950 keV X-band (9.4 GHz) Linac X-ray Source for On-site Nondestructive
Evaluation"

IEEE Electron Devices Society, 07EX1526, pp443-444 (2007),

MITSURU UESAKA ,FUMITO SAKAMOTO, ATSUSHI FUKASAWA,HARUYUKI OGINO,
TOMOHIKO YAMAMOTO, AND DE MENG
"MULTI-BEAM COMPTON SCATTERING MONOCHROMATIC TUNABLE HARD X-RAY
SOURCE"

International Journal of Modern Physics B ,Vol21,Nos3&4 pp559-571(2007)

T.Ohkubo, M.Maekawa,R.Tusjii,K.Kinoshita,K.Kobayashi,and M.Uesaka

"Temporal Characteristics of monoenergetic electron beams generated by the laser wakefield
acceleration"

Physical Review Special Topics –Accelerators and beams 10,031001(2007)

Zhou SA, Uesaka M,

"Bioelectrodynamics in living organisms",

International Journal of Engineering Science, Vol. 44, pp. 67-92 (2006).

Hosokai T, Kinoshita K, Ohkubo T, et al.,

"Observation of strong correlation between quasimonoenergetic electron beam generation by laser
wakefield and laser guiding inside a preplasma cavity"

PHYSICAL REVIEW E, Vol. 73, Art. No. 036407 (2006).

Ohkubo T, Zhidkov A, Hosokai T, et al.,

"Effects of density gradient on short-bunch injection by wave breaking in the laser wake field
acceleration",

PHYSICS OF PLASMAS, Vol. 13, Art. No. 033110 (2006).

Kinoshita K, Hosokai T, Zhidkov A, et al.,

"Single-shot characterization of plasmas generated by 17 TW 37 fs laser pulses",

JAPANESE JOURNAL OF APPLIED PHYSICS PART 1, Vol. 45, pp. 2757-2761 (2006).

Sakamoto F, Uesaka M, Dobashi K, et al.,

"X-band thermionic cathode RF gun and multi-beam Compton scattering monochromatic tunable X-ray
source",

JOURNAL OF THE KOREAN PHYSICAL SOCIETY, Vol. 49, pp. 286-297 (2006).

Nakagawa K, Ishikawa M, Uesaka M, et al.,

"Overview of cancer treatment by radiation in Japan",

JOURNAL OF THE ATOMIC ENERGY SOCIETY OF JAPAN, Vol. 48, pp. 398-402 (2006).

Hosokai T, Kinoshita K, Zhidkov A, et al.,

"Effect of external static magnetic field on the emittance and total charge of electron beams generated by
laser-wakefield acceleration",

PHYSICAL REVIEW LETTERS, Vol. 97, Art. No. 075004 (2006).

Zhou SA, Uesaka M,

"Modeling of transport phenomena of ions and polarizable molecules: A generalized
Poisson-Nernst-Planck theory",

INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE, Vol. 44, pp. 938-948 (2006).

Ohkubo T, Bulanov SV, Zhidkov AG, et al.,

"Wave-breaking injection of electrons to a laser wake field in plasma channels at the strong focusing
regime",

PHYSICS OF PLASMAS, Vol. 13, Art. No. 103101 (2006).

Sakamoto F, Iijima H, Dobashi K, et al.,
"Emittance and energy measurements of low-energy electron beam using optical transition radiation techniques",
JAPANESE JOURNAL OF APPLIED PHYSICS PART 1, Vol. 44, pp. 1485-1491 (2005).

Fumito Sakamoto, Mitsuru Uesaka, Katsuhiro Dobashi, Tomohiko Yamamoto, De Meng, Junji Urakawa, Toshiyasu Higo, Mitsuo Akemoto, Kenichi Matsuo, Hisaharu Sakae, and Masashi Yamamoto
"High Power Experiment of X-Band Thermionic Cathode RF Gun for Compton Scattering X-ray Source"
Advance Accelerator Concepts (AAC) July 2006 pp.657-664.

Mitsuru Uesaka, Akira Maekawa, Takeru Ohkubo, Ryosuke Tsujii, Kenichi Kinoshita, Atsushi Yamazaki, Kazuyuki Kobayashi, Yukio Shibata, Yasuhiro Kondo, Tomonao Hosokai, Alexei Zhidkov, Toshiharu Takahashi
"CTR Bunch Length Measurement of Monoenergetic and Maxwellian Electron Beams from Laser Plasma Cathode"
Advance Accelerator Concepts (AAC) July 2006 pp.657-664.

M.Kando,S.masuda,A.zhidkov,A.yasumi,H.kotaki,S.kondo,T.homma,S.kanazawa,K.nakajima,L.-M.Chen J.ma,Y.hayashi,M.mori,H.kiriyama,Y.akahane,N.inoue,H.ueda,Y.yamamoto,J.kago,T.hosokai,K.kinoshita, A.maekawa,M.uesaka,S.V.Bulanov,T.Zh.Esirkepov,M.yamagiwa,T.kimura,K.yamakawa,and T.tajima
"Generation and Characterization of Electrons from a Gas Target Irradiated by High-Power Laser"
Laser Physics Volume16,Number4,pp.576-580,April 2006

Katsuhiro Dobashi, Atsushi Fukasawa, Mitsuru Uesaka, Hokuto Iijima, Takayuki Imai, Fumito Sakamoto, Futaro Ebina, Junji Urakawa, Mitsuo Akemoto, Toshiyasu Higo and Hitoshi Hayano
"Design of Compact Monochromatic Tunable Hard X-ray Source Based on X-band Linac"
Japanese Journal of Applied Physics Vol.44 No.4A pp.1999-2005 2005

上坂充、土橋克広、深澤篤、飯島北斗、浦川順治、肥後寿泰、明本光生、早川仁司
「X-band Linac を用いた小型硬 X 線源」
原子核研究 Vol.47 No.4 pp9-21

Hokuto Iijima, Mitsuru Uesaka, Fumito Sakamoto, Toru Ueda, Noritaka Kumagai, and Luca Serafini
"Experimental Verification of Velocity Bunching via Shot-by-shot Measurement at S-band Photoinjector and Linac"
Japanese Journal of Applied Physics Vol.44, No.7A, 2005 pp.5249-5253

Katsuhiro Dobashi, Futaro Ebina, Atsushi Fukasawa, Tatsuo Kaneyasu, Haruyuki Ogino, Fumito Sakamoto, Mitsuru Uesaka, Tomohiko Yamamoto, Mitsuo Akemoto, Hitoshi Hayano, Toshiyasu Higo, Junji Urakawa
"X-Band Linac Beam-Line for Medical Compton Scattering X-Ray Source"
American Institute of Physics Conference Proceedings Particle Accelerator Conference (PAC05) pp.994-996

Takeru Ohkubo, Alexei Zhidkov, Mitsuru Uesaka
"Numerical study of injection Mechanisms for Generation of mono-energetic femtosecond Electron bunch from the plasma cathode"
American Institute of Physics Conference Proceedings Particle Accelerator Conference (PAC05) pp.859-861

Mitsuru Uesaka, Tatsuo Kaneyasu, Katsuhiro Dobashi, Masami Torikoshi
"Dual Energy X-Ray CT by Compton Scattering Hard X-Ray Source"
American Institute of Physics Conference Proceedings Particle Accelerator Conference (PAC05) pp.1291-1293

Atsushi Fukasawa, Fumito Sakamoto, Futaro Ebina, Haruyuki Ogino, Mitsuru Uesaka, Katsuhiko Dobashi
"X-band thermionic cathode RF gun at UTNL"
American Institute of Physics Conference Proceedings Particle Accelerator Conference (PAC05)
pp.1646-1648

Nobuaki Yamaoka, Takeru Ohkubo, Tomonao Hosokai, Kenichi Kinoshita, Kei Nakamura, Mitsuru Uesaka
"Development of Spatial Filter for Laser-Plasma-Cathode"
Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Vol.241 Issues1-4, pp.901-904 December 2005 (18th International Conference on the Application of Accelerators in Research and Industry)

Futaro Ebina, Atsushi Fukasawa, Fumito Sakamoto, Haruyuki Ogino, Mitsuru Uesaka, Katsuhiko Dobashi
"Laser Pulse Circulation System for Compact Monochromatic Hard X-ray Source"
Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Vol.241 Issues1-4, pp.905-908 December 2005 (18th International Conference on the Application of Accelerators in Research and Industry)

Atsushi Fukasawa, Mitsuru Uesaka, Fumito Sakamoto, Futaro Ebina, Katsuhiko Dobashi, Junji Urakawa, Mitsuo Akemoto, Toshiyasu Higo, Hitoshi Hayano
"A Tunable Monochromatic Hard X-ray CT Device Composed of An X-band Linear Accelerator And AQ-Switched Laser"
Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Vol.241 Issues1-4, pp.921-925 December 2005 (18th International Conference on the Application of Accelerators in Research and Industry)

Mitsuru Uesaka, Tomonao Hosokai, Kenichi Kinoshita, Nobuaki Yamaoka, Alexei Zhidkov, Takeru Ohkubo, Akira Sakumi, Toru Ueda, Yusa Muroya, Yosuke Katsumura, Hokuto Iijima, Hiromitsu Tomizawa, Noritaka Kumagai,
New accelerators for femtosecond beam pump-and-probe analysis
Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, Vol.241 Issues1-4, pp.880-884 December 2005 (18th International Conference on the Application of Accelerators in Research and Industry)

Katsuyuki Dobashi, Atsushi Fukasawa, Mitsuru Uesaka, Hokuto Iijima, Takayuki Imai, Fumito Sakamoto, Futaro Ebina, Junji Urakawa, Mitsuo Akemoto, Toshiyasu Higo, Hitoshi Hayano
"Design of Compact Monochromatic Tunable Hard X-Ray Source Based on X-band linac"
Japanese Journal of Applied Physics, Vol.44, No.4A, pp.1999-2005 (2005).

Fumito Sakamoto, Hokuto Iijima, Katsuhiko Dobashi, Takayuki Imai, Toru Ueda, Takahiro Watanabe, and Mitsuru Uesaka
"Emittance and Energy Measurements of Low-Energy Electron Beam Using Optical Transition Radiation Techniques"
Japanese Journal of Applied Physics, Vol.44, No.3, 2005, pp.1485-1491

Mitsuru Uesaka, Tatsuo Kaneyasu, Katsuhiko Dobashi, Masaki Torikoshi
"Dual Energy X-ray CT by Compton Scattering Hard X-ray Source"
American Institute of Physics Conference Proceedings Particle Accelerator Conference (PAC05)

A.Zhidkov, J.Koga, T.Hosokai, K.Kinoshita, and M.Uesaka
"Effect of plasma density on relativistic self-injection for electron laser wake-field acceleration"
PHYSICS OF PLASMAS Vol.11 No.12, p.5379, December 2004

Tomonao Hosokai, Kenichi Kinoshita, Alexei Zhidkov, Kei Nakamura, Hideyuki Kotaki, Masaki Kando, Kazuhiro Nakajima, and Mitsuru Uesaka
"Refraction effects on the cavity formation and interaction of an intense ultra-short laser pulse with a gas jet"

PHYSICS OF PLASMAS Vol.11 No.10 p.L57, October 2004

Mitsuru Uesaka

"Femtosecond Beam Sources and Applications"

American Institute of Physics Conference Proceedings(Advanced Accelerator Concepts workshop)
Vol.737pp.171-177 2004

Katsuhito Dobashi, Mitsuru Uesaka, Atsushi Fukasawa, Fumito Sakamoto, Futaro Ebina, Haruyuki Ogino, Junji Urakawa, Toshiyasu Higo, Mitsuo Akimoto, Hitoshi Hayano, and Keiichi Nakagawa

"X-band RF gun and Linac For Medical Compton Scattering X-ray source"

American Institute of Physics Conference Proceedings(Advanced Accelerator Concepts workshop)
Vol.737 pp.684 - 690 2004

H.Iijima, M.Uesaka, T.Ueda, A.Sakumi, Y.Muroya

"Performance of Synchronization and Emittance of the Mg cathode Photojector"

American Institute of Physics Conference Proceedings(Advanced Accelerator Concepts workshop)
Vol.737 pp.997-1003 2004

Yoneyoshi Kitagawa, Mitsuru Uesaka, Kazuyoshi Koyama, Kazuhisa Nakajima, Toshiki Tajima, Hiroyuki Daido, Atsushi Ogata, Koshichi Nemoto, Yasushi Nishida, Noboru Yugami, Shuji Miyamoto and Katsuhito Dobashi

"Review of Advanced Accelerator Concepts R&D in Japan"

American Institute of Physics Conference Proceedings(Advanced Accelerator Concepts workshop)
Vol.737 pp.1004-1015 2004

A.Mizuno, T.Asaka, H.Dewa, T.Kobayashi, S.Suzuki, T.Taniuchi, H.Tomizawa, K.Yanagida, H.Hanaki, M.Uesaka

"Three-dimensional simulation code for SPring-8 RF gun system"

Nuclear Instruments and Methods in Physics Research A 528, pp.387-391, 2004

Jun Sasabe, Hirofumi Hanaki, Takao Asaka, Hideki Dewa, Toshiaki Kobayashi, Akihiko Mizuno, Shinsuke Suzuki, Tsutomu Taniuchi, Hiromitsu Tomizawa, Kenichi Yanagida, Mitsuru Uesaka

"Photocathode RF gun using cartridge-type electric tubes"

Nuclear Instruments and Methods in Physics Research A 528, pp.382-386, 2004

Kenichi Kinoshita, Alexei Zhidkov, Tomomano Hosokai, Takeru Ohkubo and Mitsuru Uesaka

"Propagation of an intense femtosecond laser pulse through a thin foil filter"

APPLIED PHYSICS LETTERS Vol.84, No.23, p.4623, 2004

A.Zhidkov, J.Koga, K.Kinoshita, and M.Uesaka

"Effect of self-injection on ultraintense laser wake-field acceleration"

PHYSICAL REVIEW E 69, 035401(R), 2004

A.Zhidkov, J.Koga, T.Esirkepov, T.Hosokai, M.Uesaka, and T.Tajima

"Optical-field-ionization effects on the propagation of an ultraintense laser pulse in high-Z gas jets"

PHYSICAL REVIEW E 69, 066408, 2004

A. Zhidkov, J. Koga, T. Hosokai, K. Kinoshita, M. Uesaka,

"Effects of plasma density on relativistic self-injection for electron laser-wake-field acceleration",

Phys. Plasmas, Vol. 11, pp. 5379-5386 (2004).

M. Tsuchimoto, K. Demachi and I. Itoh,

"Numerical evaluation of uniform magnetic field within superconducting Swiss roll",
Physica C, Vol. 412-414, pp. 719-722 (2004).

T.Ohkubo, K.Kinoshita, A.Zhidkov, T.Hosokai, Y.Kanegae, M.Uesaka
"Efficiency of Laser Plasma $K\alpha$ Emission for Time-Resolved X-ray Imaging"
Japanese Journal of Applied Physics, Vol.43, No.4A, pp.1608-1611, 2004

K.Nakamura, T.Watanabe, T.Ueda and M.Uesaka
"Measurement and Numerical Analysis of Ultrashort Electron Bunch Using Fluctuation in Incoherent Cherenkov Radiation"
Journal of NUCLEAR SCIENCE and TECHNOLOGY, Vol.41, No.1, pp.7-14, January 2004

H.Dewa, A.Misuno, T.Taniuchi, H.Tomizawa, T.Asaka, T.Kobayashi, S.Suzuki, K.Yanagida, H.Hanaki and M.Uesaka
"Beam Quality and Stability Improvements for a Single-Cell Photocathode RF Gun"
The Physics and Applications of High Brightness Electron Beams, (James Rosenzweig et al. Eds.), World Scientific Press, pp.28-44, 2003.

M.Uesaka, H.Iijima, K.dobshi, J.Yang and S.Miyamoto
"Review of Recent Development of Photoinjectors in Japan"
The Physics and Applications of High Brightness Electron Beams, (James Rosenzweig et al. Eds.), World Scientific Press, pp.179-189, 2003.

M.Uesaka and P.Muggli
"Application to Advanced Accelerators Working Group Summary"
The Physics and Applications of High Brightness Electron Beams, (James Rosenzweig et al. Eds.), World Scientific Press, pp.387-393, 2003.

M.Uesaka, A.Zhidkov, T.Hoshokai, K.Kinoshita, T.Watanabe, K.Yoshi, T.Ueda, H.Kotaki, M.Kando and K.Nakajima
"Generation of Relativistic Electrons via Interaction between Ultra-Short Laser Pulse and Supersonic Gas Jet"
The Physics and Applications of High Brightness Electron Beams, (James Rosenzweig et al. Eds.), World Scientific Press, pp.466-477, 2003.

M. Uesaka, T. Hosokai, K. Kinoshita, A. Zhidkov
"Generation of Femtosecond Electron Bunches and Hard-X-Rays by Ultra-Intense Laser Wake Field Acceleration in a Gas Jet",
Proc. of PAC 03(Particle Accelerator Conference, Protland, USA)(2003)

T.Hosokai, K.Kinoshita, A.Zhidkov, M.Kando, H.Kotaki, K.Nakajima, and M.Uesaka
"Effect of laser pre-pulse on narrow-coned ejection of MeV electrons from gas jet irradiated by an ultra-short laser pulse," Phys Rev.E 67, 036407 (2003)

M.Uesaka, H.Iijima, Y.Muroya, T.Watanabe and T.Hosokai
"Ultrashort Electron Beam Pulses and Diagnosis by Advanced Linear Accelerators",
American Institute of Physics Conference Proceedings (International Conference on the Application of Accelerators in Research and Industry) Vol.680(1) pp.968-971, 2003

M.Uesaka, T.Hosokai
"Critical issues in Plasma Accelerator"
Quantum Aspects of Beam Physics (Proc. of The Joint "28th ICFA Advanced Beam Dynamics and Advanced & Novel Accelerators Workshop) pp.462-471 2003

Koji Matsukado, Kenichi Kinoshita, Zhoug Li, Hiroyuki Daido, Yukio Hayashi, Satoshi Orimo, Mitsuru

Uesaka, Koji Yoshii, Takahiro Watanabe, Tomonao Hosokai, Alexei Zhidkov, Akira Noda, Yoshihisa Iwashita, Toshiyuki Shirai, Shu Nakamura, Astsushi Yamazaki, Akio Morita, Atsushi Ogata, Yoshio Wada, Tetsuo Kubota, Fuminori Soga, Satoru Yamada

“Ion Generation via Interaction between Intense Ultra-Short Laser Pulse and Solid Target for Application to Cancer Therapy”

American Institute of Physics Conference Proceedings(Advanced Accelerator Concepts workshop)
Vol.647 pp.265 -268 2002

Tomonao Hosokai, Kenichi Kinoshita, Takahiro Watanabe, Koji Yoshii, Toru Ueda, Alexei Zhidkov, Mitsuru Uesaka, Hideyuki Katakai, Masaki Kando, Kazuhisa Nakajima

“Generation of Relativistic Electrons via Interaction between Ultra-Short Laser Pulses and Supersonic Gas Jet”

American Institute of Physics Conference Proceedings(Advanced Accelerator Concepts workshop)
Vol.647 pp.628 -633 2002

Mitsuru Uesaka, Hokuto Iijima, Katuhiro Dobashi, Jinfeng Yang, Shuji Miyamoto, Akihiko Mizuno

“Review of Recent Development of Photoinjectors in Japan”

American Institute of Physics Conference Proceedings(Advanced Accelerator Concepts workshop)
Vol.647 pp.839 -848 2002

Takahiro Watanabe, Kei Nakamura, Hokuto Iijima, Yusa Muroya, Tomonao Hosokai, Kenichi Kinoshita, Koji Yoshii, Toru Ueda, Mitsuru Uesaka

“Measurement and Timing—Control Techniques of Femtosecond Electron Pulse”

American Institute of Physics Conference Proceedings(Advanced Accelerator Concepts workshop)
Vol.647 pp.869 -877 2002

A.Zhidkov, J.Koga, A.Sasaki, and M.Uesaka,

“Radiation Damping Effects on the Interaction of Ultraintense Laser Pulses with an Overdense Plasma”

Phys.Rev.Lett 88 185002-1 (2002)

R.G.Hemker, N.M.Hafz, M.Uesaka,

"A Single-laser Double-gasjet LWTA", Physical Review Special Topics-Accelerators and Beams(PRST-AB)(2002), in press.

M.Uesaka, T.Watanabe, N.Hafz

"Ultrashort Electron Beam Generation and Diagnosis by Linear Accelerator",

JSAP(Japanese Society of Applied Physics) INTERNATIONAL, No.5(January 2002), pp.14-21.

T. Watanabe, J. Sugahara, K. Yoshii, T. Ueda, M. Uesaka, Y. Kondo, T.

Yoshimatsu, Y. Shibata, K. Ishi, S. Sasaki, Y. Sugiyama,

"Overall comparison of subpicosecond electron beam diagnostic by the polychromator, the interferometer, and the femtosecond streak camera",

Volume/Issue 480/2-3(APR 2002), pp.63-75.

T. Kobayashi, M. Uesaka, Y. Katsumura, Y. Muroya, T. Watanabe, T. Ueda, K. Yoshii, K. Nakajima, X. Zhu, M. Kando,

"High Charge S-Band Photocathode RF-Gun and Linac System for Radiation Research",

Journal of Nuclear Science and Technology Vol.39, No.1(2002), pp.6-14.

上坂 充、木下 健一

「高強度レーザーを用いた短パルス X 線および電子線の発生と応用」、

レーザー研究 (レーザー学会誌)、Vol.29, No.4(2001), pp.233-237

M.Uesaka, T.Watanabe, T.Kobayashi, T.Ueda, K.Yoshii, X.Li, Y.Muroya, J.Sugahara, K.Kinoshita, N.Hafz, H.Okuda, T.Nishihara, Y.Terada, K.Nakajima, Y.Katsumura, " Hundreds- and Tens-Femtosecond

Time-Resolved Pump-and-Probe Analysis System ” , Radiation Physics and Chemistry, 60(2001), pp.303-306.

Y.Muroya, T.Watanabe, G.Wu, X.Li, T.Kobayashi, J.Sugahara, T.Ueda, K.Yoshii, M.Uesaka, Y.Katsumura,

“ Design and development of a sub-picosecond pulse radiolysis system ” , Radiation Physics and Chemistry, 60(2001), pp.307-312.

K. Kinoshita, H. Harano, K. Yoshii, T. Ohkubo, A. Fukasawa, K. Nakamura, M. Uesaka,
"Time-resolved X-ray diffraction at NERL",
Laser and Particle Beams(2001), 19, pp.125-131.

M.Uesaka, T.Watanabe, T.Kobayashi, T.Ueda, K.Yoshii, K.Kinoshita, N.hafz, H.Okuda, R.G.Hemker, K.Nakajima,
"Stability Evaluation of Femtosecond S-band Linac with Photocathode RF Gun",
Physics of, and Science with, the X-ray Free-Electron Laser(AIP CONFERENCE PROCEEDINGS 581, 2001), pp.11-22.

N.hafz, J.Koga, R.Henker, M.Uesaka
“Numerical Simulation for Plasma Electron Acceleration by 12TW 50 Fs Laser Pulse”
American Institute of Physics Conference Proceedings(Advanced Accelerator Concepts workshop)
Vol.569 pp.122 -126 2000

M.Uesaka
“Summary of Japanese Advanced Accelerator Work”
American Institute of Physics Conference Proceedings(Advanced Accelerator Concepts workshop)
Vol.647 pp.500 -517 2000

上坂 充、渡部 貴宏、菅原 淳
「電子ライナックにおける極短電子ビーム生成と波形評価」、
応用物理、第 69 巻、第 4 号 (2000 年)、pp.394-400。

上坂 充、渡部 貴宏、木下 健一、菅原 淳、原野 英樹、上田 徹、吉井 康司、中島 一久、酒井 文雄、小瀧 秀行、出羽 秀紀、神門 正城、近藤 修司、
「フェムト秒電子シングルバンチの生成・計測・利用」、
日本原子力学会誌、Vol.42, No.4(2000), pp.310-324.

M.Uesaka, K.Kinoshita, T.Watanabe, J.Sugahara, T.Ueda, K.Yoshii, T.Kobayashi, N.Hafz, K.Nakajima, F.Sakai, M.Knado, H.Dewa, H.Kotaki, S.Kondo,
“ Experimental Verification of Laser Photocathode RF Gun as an Injector for a Laser Plasma Accelerator ” ,
Trans. Plasma Science, Vol.28, No.4(2000), pp.1133-1142.

N.Hafz, M.Uesaka, J.Koga, K.Nakajima,
“ Numerical Analysis of Tens-fs Relativistic Electron Beam Generation using Single 12TW50fs Laser Pulse ” ,
Nuclear Instruments and Methods A, Vol.455 (2000), pp.148-154.

M.Uesaka, H.Kotaki, K.Nakajima, H.Harano, K.Kinoshita, T.Watanabe, T.Ueda, K.Yoshii, M.Kadno, H.Dewa, S.Kondo, F.Sakai, “ Generation and Application of Femtosecond X-ray Pulse ” , Nuclear Instruments and Methods A, Vol.455 (2000), pp.90-98.

H.Harano, K.Kinoshita, K.Yoshii, T.Ueda, S.Okita, M.Uesaka,

"Ultrashort X-ray Pulse Generation Using Subpicosecond Electron Linac",
J. of Nuclear Materials(2000), Vol.280(2000), pp.255-263.

M.Uesaka, T.Watanabe, H. Harano, K.Kinoshita, J. Sugahara, T. Ueda, K.Yoshii, K.Nakajima, A. Ogata, F.Sakai, M.Kando, H.Kotaki, H.Dewa, S. Kondo,
"Femtosecond Quantum Beam Science and New Pump-and-Probe Analysis", The Femtosecond Technology(Springer Book)(1999), pp.313-327.

M.Uesaka, K.Kinoshita, T.Watanabe, T.Ueda, K.Yoshii, H.Harano, J.Sugahara, K.Nakajima, A.Ogata, F.Sakai, H.Dewa, M.Kando, H.Kotaki, S.Kondo,
"Femtosecond Electron Beam Generation by S-Band laser Photocathode RF Gun and Linac",
American Institute of Physics Conference Proceedings(Eighth Workshop on Advanced Accelerator Concepts, Baltimore, USA), 472(1999), pp.908-917.

A.Takeshita, M.Uesaka, T.Watanabe, M.Yamamoto and N.Kaneko
"Study of the 100fs 10kA X-band Linac",
Nuclear Instruments and Methods, A, Vol.421(1999),pp.43-53.

T.Watanabe, M.Uesaka, J.Sugahara, T.Ueda, K.Yoshii, Y.Shibata, F.Sakai, S.Kondo, M.Nkando, H.Kotaki, K.Nakajima,
"Subpicosecond electron single-beam diagnostics by a coherent transition radiation interferometer and a streak camera",
Nuclear Instruments and Methods, A 437(1999), pp.1-11.

上坂 充

「放射測定による極短電子ビーム波形評価」
応用物理「放射線」Vol.24, No.1(1998), pp.109-118.

M.Uesaka, T.Watanabe, H. Harano, K.Kinoshita, J. Sugahara, T. Ueda, K.Yoshii, K.Nakajima, A. Ogata, F.Sakai, M.Kando, H.Kotaki, H.Dewa, S. Kondo,
" Femtosecond Quantum Beam Science and New Pump-and-Probe Analysis " , *The Femtosecond Technology*(Springer Book)(1998), pp.313-327.

M.Uesaka, T.Ueda, T.Kozawa, T.Kobayashi,
"Precise Measurement of a Subpicosecond Electron Single Bunch by the Femtosecond Streak Camera",
Nucl. Instrum. & Meth., Vol.406(1998), pp.371-379.

M.Uesaka, K.Kinoshita, T.Watanabe, T.Ueda, K.Yoshii, H.Harano, K.Nakajima, A.Ogata, F.Sakai, H.Kotaki, M.Kando, H.Dewa, S.Kondo, Y.Shibata, K.Ishi, M.Ikezawa,
"Femtosecond Electron Beam Generation and Measurement for Laser Synchrotron Radiation",
Nucl. Instrum. & Meth., Vol.410(1998), pp.424-430.

M. Uesaka, K. Hakuta, K. Miya, K. Aoki, A. Takahashi,
"Eddy Current Testing by Flexible Microloop Magnetic Sensor Array",
IEEE Transaction on Magnetics(1998) Vol.34, No.4(1998), pp.2287-2297.

M.Uesaka, A.Gilanyi, T.Sukegawa, K.Miya, K.Yamada, R.Toyooka, N.Kasai, A.Chiba, S.Takahashi, K.Morishita, K.Ara, N.Enine, Y.Isobe,
"Round-robin Test for Nondestructive Evaluation of Steel Components in Nuclear Power Plants",
Electromagnetic Nondestructive Evaluation (II)(R.Albanese et al. Eds.), IOS Press, pp.39-48, 1998.

K.Mirishita, A.Gilanyi, T.Sukegawa, M.Uesaka, K.Miya,
"Magnetic non-destructive evaluation of accumulated fatigue damage in ferromagnetic steels for nuclear plant component",

Journal of Nuclear Materials, Vol.258-263(1998), pp.1946-1952

M.Uesaka, T.Watanabe, T.Ueda, M.Kando, K.Nakajima, H.Kotaki, A.Ogata,
"Production and Utilization of Synchronized Femtosecond Electron and Laser Single Pulses",
Journal of Nuclear Materials, Vol.248(1997), pp.380-385.

M.Kando, K.Nakajima, M.Arinaga, T.Kawakubo, H.Nakanishi, A.Ogata, T.Kozawa, T.Ueda, M.Uesaka,
"Interaction of Terawatt Laser with Plasma",
Journal of Nuclear Material, Vol.248(1997), pp.405-407.

Kozawa-T; Kobayashi-T; Ueda-T; Uesaka-M
"Generation of high-current (1 kA) subpicosecond electron single pulse ",
Nuclear-Instruments-and-Methods-in-Physics-Research,-Section-A:-Accelerators,-Spectrometers,-Detect
ors-and-Associated-Equipment.v 399 n 2-3 Nov 11(1997), p 180-184.

K.Miya, M.Uesaka and Y.Yoshida,
"Applied Electromagnetics Research and Application",
Progress in Nuclear Energy, Vol.32, No.1/2(1997), pp.179-194.

M.Uesaka, T.Ueda, T.Watanabe, M.Kando, K.Nakajima H.Kotaki and A.Ogata,
"Generation, Measurement and Application of Synchronized 700 fs Electron, 100 fs T3 Laser and
Picosecond X-ray Single Pulses",
American Institute of Physics Conference Proceedings(Advanced Accelerator Concepts workshop)
Vol.398 (1997),pp.687-692.

M.Uesaka, T. Kozawa, T. Kobayashi, T. Ueda and K. Miya,
"Generation and Application of a Subpicosecond High Brightness Electron Single Bunch at the S-band
Linear Accerelator",
American Institute of Physics Conference Proceedings (the MICRO BUNCHES WORKSHOP, 1995),
367(1996) pp.492-499.

M.Uesaka, K. Hakuta, K. Miya, K. Aoki, A. Takahashi,
"Eddy Current Testing by Upgraded Microloop Magnetic Sensor Array",
Electrical Engineering in Japan, Vol.116, No.1, p.80, 1996 (ISSN0424-7760/96/0001-0080), Scripta
Technica, Inc.

上坂 充、古澤 孝弘、小林 利明、上田 徹、宮 健三、
" 高輝度サブピコ秒電子シングルバンチの生成と利用 "、
日本原子力学会誌、Vol.37, No.9(1995), p.219.

上坂 充、竹下 明、吉田 義勝、宮 健三、
" 高温超電導フライホイールの回転損失に関する基礎研究 "、
低温工学、Vol. 30, No. 11(1995), p.502.

上坂 充、 竹下 明、
" 高温超電導体の電磁力評価 "、
東京大学工学部総合試験所年報、第54巻(1995)、p.219.

M.Uesaka, T.Nakanishi, K.Miya, H.Komatsu, A.Aoki and K.Kasai,
"Micro eddy current testing by micro magnetic sensor array",
IEEE Trans. Magn. 31(1995), p. 870.

M.Uesaka, K.Hakuta, K.Miya, K.Aoki, A.Takahashi
"Micro-ECT by Microloop Magnetic Sensor Array",
Applied Electyromagnetic in Materials (The Japan Society of Applied Electromagnetics and

Mechanics,1995), p.97.

M. Uesaka and K. Miya,
"Micro-ECT Technique", Nindestructive Testing of Materials (Studies in Applied
Electromagnetics and Mechanics 8)(IOS Press) (1995), p.265.

N.Takeda, M.Uesaka and K.Miya,
"Influence of an applied magnetic field on shielding current paths in a high Tc superconductor",
Cryogenics, Vol.35, No. 12(1995), p.893.

M.Uesaka, A.Suzuki, N.Takeda, Y.Yoshida and K.Miya,
"A.c. magnetic properties of YBaCuO bulk superconductor in high Tc superconducting levitation",
Cryogenics, Vol.35, No.4(1995), p.243.

上坂 充、吉田 義勝、宮 健三、
「高温超電導磁気浮上における動的電磁力解析」、
日本機械学会論文集 C 編、第 6 0 巻 (Trans. Japan Soc. Mech. Engrg.) (1994), p.490.

鈴木 敦士、武田 信和、吉田 義勝、上坂 充、宮 健三、
"高温超電導体の交流磁気特性"、
日本 AEM 学会誌、Vol.2, No.4(1994), p.35.

M. Uesaka, K. Tauchi, T. Kozawa, T. Kobayashi, T. Ueda and K. Miya,
"Generation of a subpicosecond relativistic electron single bunch at the S-band linear accelerator",
Physical Review E Statistical Physics, Plasmas, Fluids, and Related Interdisciplinary
Topics, Vol.50, No.4(1994), p.3068.

M. Uesaka, T. Kozawa, T. Kobayashi, T. Ueda and K. Miya,
"Characteristics of pico-second single bunch at the S-band linear accelerator",
Nuclear Instruments and Methods in Physics Research, Vol. A 345 (1994), p.219.

E.Nishimura, K.Saeki, S.Abe, A.Kobayashi, Y.Morii, T.Keshii, T.Tomimasu, R.Hajima, T.Hara, H.Ohashi,
M.Akiyama, S.Kondo, Y.Yoshida, T.Ueda, T.Kobayashi, M.Uesaka, K.Miya,
"Optical Performance of the UT-FEL at First Lasing",
Nuclear Instruments and Methods in Physics Research, A341(1994), p.39.

T.Kozawa, Y.Yoshida, M.Uesaka, S.Tagawa, T.Kobayashi, T.Ueda and K.Miya,
"Radiation Induced Acid Generation Reactions in Chemically Amplified Resists for
Electron Beam and X-Ray Lithography",
Jpn. J. Appl. Phys., Vol.31, p.4301.

T.Kozawa, Y.Yoshida, M.Uesaka, S.Tagawa, T.Kobayashi, T.Ueda and K.Miya,
"Study of Radiation-Induced Reactions in Chemically Amplified Resists for Electron Beam and X-Ray
Lithography",
Jpn. J. Appl. Phys., Vol.31, p.L1574.

M. Uesaka, T. Nakanishi and K. Miya,
"Flaw reconstruction by micro ECT probe",
Review of Progress in Quantitative Nondestructive Evaluation, Vol.13(1994), p.327.

Y.Yoshida, M.Ukibe, M.Uesaka and K.Miya,
"Evaluation of dynamic magnetic force of high Tc superconductor with flux flow and creep",
Elsevier Stud. Appl. Electromagn. in Mater., Vol. 5 (1994), p.301.

N.Takeda, M.Uesaka and K.Miya,

"Inverse analysis of current distribution in high-Tc superconductor",
Elsevier Stud. Appl. Electromagn. in Mater. Vol.5 (1994), p.305.

Y.Yoshida, M.Uesaka and K.Miya,
"Magnetic field and force analysis of high Tc superconductor with flux flow and creep",
IEEE Trans. Magn. Vol.30 (1994), p.3503.

N.Takeda, M.Uesaka and K.Miya,
"Computation and experiments on the static and dynamic characteristics of high Tc superconducting levitation",
Cryogenics, Vol.34 (1994), p.745.

武田 信和、吉田 義勝、上坂 充、宮 健三、
「 遺伝的アルゴリズムを用いた超電導分布の逆問題解析 (Inverse analysis of supercurrent distribution using genetic algorithms) 」 、
日本 AEM 学会誌 (J. the Japan Soc. Appl. Electromagn.), Vol.1, No.1(1993), p.43.

N.Takeda, M.Uesaka and K.Miya,
"Numerical analyses of experiment on magnetomechanical coupling between high-Tc superconductor and permanent magnet",
Electrotechnickycasopis ,Vol.44 (1993), pp. 296-298.

M.Uesaka, Y.Yoshida, N.Takeda and K.Miya,
"Experimental and Numerical Analysis of Three-Dimensional High-Tc Superconducting Levitation Systems",
Int. J. Appl. Electromagn. in Mater. Vol.4(1993), p.13 .

M.Uesaka, K.Takagi, N.Takeda, M.Tsuchimoto and K. Miya,
"Eddy Current and Force Analyses for High-Tc Superconducting Linear Drive",
Elsevier Stud. Appl. Electromagn. in Mater., Vol.3(1992), p.289.

N.Takeda, M. Tsuchimoto, M.Uesaka and K.Miya,
"A Numerical Analysis of Eletromagnetic Field in Type-II Superconductors",
Elsevier Stud. Appl. Electromagn. in Mater., Vol.3(1992), p.125.

M.Uesaka, M.Takahashi, M.Ida, M.Marushita, S.Mandai and Y.Hoshi,
"Dynamic Error Field Analysis for Compact Synchrotron",
COMPUMAG-TOKYO, September 1989; IEEE Transactions on Magnetics Vol.26, No.2(1990), p.1003.

M.Uesaka, S.Mandai, and T.Yamakawa,
"Eddy Current Analysis for the Passive Septum Magnet used for Injection into the Storage Ring in KEK-PF",
Electromagnetic Fields in Electrical Engineering(Beijing, China, 1988), pp.1003-1006.

K.Saito, Z.Yoshida, N.Inoue, M.Uesaka and Y.Hoshi,
"Numerical Analysis of Error Fields due to Port Holes in a Plasma Confinement Device",
Japanese Journal of Applied Physics, Vol.27, No.9, September 1988, p.1743.

M.Uesaka, Y.Hoshi and K.Miya,
"Eddy Current and Stress Analyses of Toroidal Bellows in Magnetic Fusion Device",
Transactions of the 9th International Conference on SMiRT, Vol.N, August 1986, p.93 /
Fusion Engineering and Design, Vol.6(1988),p.147.

M.Uesaka, Y.Hoshi, K.Saito, Z.Yoshida and N.Inoue,
"Eddy Current Analysis by INCANET for a Reversed Field Pinch Device",

Fusion Engineering and Design, Vol.9(1988), pp.107-111.

M.Uesaka, N.Suzuki, K.Saito,Z.Yoshida,N.Inoue,
"Numerical Analyses of Eddy Current and Error Field for RFP by INCANET",
US DOE Report(1987), pp.455-467.

M.Uesaka, K.Miya,
"Eddy Current and Stress Analyses of Toroidal Bellows by Personal and Mini-computer",
Electromagnetomechanical Interactions in Deformable Solids and Structures, Elsevier Science
Publishers(1986), p.75.

K.Miya, M.Uesaka, Y.Ogawa and T.Hamada,
"Numerical Analysis of Electromagnetic Stresses induced in Bellows for a Magnetic
Fusion Reactor",
Nuclear Engineering and Design/Fusion, Vol.13(1985), pp.81-95.

H.Madarama, S.Iwata, S.Kondo, A.Suzuki, K.Miya, Y.Oka, S.Tanaka M.Uesaka
and M.Akiyama,
"A Conceptual Design of Light Ion Beam Fusion Reactor-UTLIF (2)",
Nuclear Engineering and Design/Fusion, Vol.1, 1984

M.Uesaka,, R.R.Peterson, G.A.Moses,
"Equilibrium and Non-Equilibrium Microfireball Behaviour in Light-Ion Fusion Systems",
Nuclear Fusion, Vol.24, No.9 (1984), p.1137.

K.Miya, T.Takagi, M.Uesaka and K.Someya,
"Finite Element Analysis of Magnetoelastic Buckling of Eight-Coil Superconducting Full Torus",
ASME Journal of Applied Mechanics, Vol.49(1982),p.180.

K.Miya, M.Uesaka, F.C.Moon,
"Finite Element Analysis on Vibration of Toroidal Field Coils Coupled with Laplace Transform",
ASME Journal of Applied Mechanics, Vol.49(1982), p.594.

K.Miya, M.Uesaka,
"An Application of Finite Element Method to Magnetomechanics of Superconducting Magnets for
Magnetic Fusion Reactors",
Nuclear Engineering and Design, Vol.72, No.3(1982), p.275.

M.Uesaka, K.Miya, F.C.Moon,
"Finite Element Analysis of Large Scale Superconducting Toroidal Field Coil Coupled with Laplace
Transform",
ASME 82-PVP-51(1982).

宮 健三、高木敏行、染谷和良、柳 秀治、
「3コイル部分トラスにおける超電導トロイダルコイルの電磁弾性座屈」、
日本原子力学会誌、Vol.23, No.4(1981), p.269.

K.Miya, T.Takagi, M.Uesaka
"Finite Element Analysis of Magnetoelastic Buckling and Experiments on a Three-Coil Superconducting
Partial Torus",
ASME Journal of Mechanical Design, Vol.41(1980), p.91.