

Paper list

Referred paper (International Journal)

- 1 R. Yamato, S. Kobayashi, T. Fujita, K. Nagaoka, K. Nagasaki, S. Inagaki, T. Kawate, H. Ohgaki, T. Kii; H. Zen, S. Kado, T. Minami; H. Okada, S. Ohshima, S. Konoshima,; T. Mizuuchi, Y. Mototake, “Measurement of X-ray bremsstrahlung radiation from high energy electrons by stochastic acceleration in Heliotron J”, Rev. Sci. Instrum. 96, 033512 (2025) <https://doi-org.kyoto-u.idm.oclc.org/10.1063/5.0231450>
- 2 Norihiro Sei, Heishun Zen, Hideaki Ohgaki, Ryoichi Hajima, “Temporal evolution of electron-bunch length in macropulse of resonator-type free-electron lasers”, iScience, ISCI 111402 (2024) <https://doi.org/10.1016/j.isci.2024.111402>
- 3 JU YOON HNIN BO, Heishun Zen and Hideaki Ohgaki, “Measurement of temporal evolution of antiferromagnetic domain change in nickel oxide driven by 2TO phonon mode excitation via pump-probe experiment”, JJAP, vol.63, 11, 112001 (2024) DOI 10.35848/1347-4065/ad879c
- 4 Kawase, K; Zen, H; Sakai, T; Hayakawa, Y; Ohgaki, H; Hajima, R, “Beam characterization of mid-infrared free electron laser to drive high-harmonic generation”, JAPANESE JOURNAL OF APPLIED PHYSICS, Volume 63, Issue 7, 072001 (2024) DOI10.35848/1347-4065/ad5425
- 5 Hajima, R; Kawase, K; Koga, JK; Zen, HS; Ohgaki, H, “Breakdown of argon by a train of high-repetition long-wave-infrared pulses from a free-electron laser oscillator”, OPTICS EXPRESS, Volume 32, Issue 13, Page22722-22737 (2024) DOI10.1364/OE.524887
- 6 Soumya Basu, Khadija Usher, Tamiya Hiroyuki, Rei Akasegawa, Yang Hui, Qu Chen, Jordi Cravioto, Hideaki Ohgaki, “Synergies and trade-offs quantification from regional waste policy to sustainable development goals: The case of Kyoto City”, Sustainable Development. 2024;1–21. DOI: 10.1002/sd.3001
- 7 Keisuke Sota , Kota Ando , Heishun Zen , Toshiteru Kii , Hideaki Ohgaki , Takashi Nakajima, “Morphological study of depth-controlled high quality holes and lines fabricated on a metal substrate with a thin metal film by picosecond laser pulses”, Optics & Laser Technology, Volume 175, August 2024, 110853, <https://doi.org/10.1016/j.optlastec.2024.110853>
- 8 H. Ohgaki, K. Ali, T. Kii, H. Zen, T. Hayakawa, T. Shizuma, M. Fujimoto, Y. Taira, “Generation of flat-laser Compton scattering γ -ray beam”, Physical Review Accelerators and Beams vol. 26, 093402 (2023) DOI : 10.1103/PhysRevAccelBeams.26.093402
- 9 Saksit Deem, Tossaporn Charoenchan, Natin Janjamraj, Sillawat Romphochai, Sergej Baum, Hideaki Ohgaki, Nadarajah Mithulananthan, and Krischonme Bhumkittipich, “Optimal Placement of Electric Vehicle Charging Stations in an Active Distribution Grid

- with Photovoltaic and Battery Energy Storage System Integration”, *Energies* 2023, 16(22), 7628; <https://doi.org/10.3390/en16227628>
- 10 H. Zen, R. Hajima, H. Ohgaki, “Full characterization of superradiant pulses generated from a free-electron laser oscillator”, *Scientific Reports* vol.13, 6350, 2023, DOI : 10.1038/s41598-023-33550-z
 - 11 H. Zen, R. Hajima, H. Ohgaki, “Nonlinear compression of naturally down-chirped superradiance pulses from a free-electron laser oscillator by thick germanium plates”, *Optics Express*, vol. 31, No. 24, 40928-40936 (2023), DOI : 10.1364/OE.503090
 - 12 Yuhao Zhao, Heishun Zen and Hideaki Ohgaki, “The Particle-Tracking Simulation of a New Photocathode RF Gun in the Free-Electron Laser Facility, KU-FEL”, *Particles* 2023, 6(2), 638-646; <https://doi.org/10.3390/particles6020037> - 06 Jun 2023
 - 13 Anugerah Yuka Asmara, AR. Rohman Taufiq Hidayat, B. Kurniawan, H. Ohgaki, T. Mitsufuji, J. Cravioto, “Building a Sustainable Photovoltaic Innovation System in Indonesia Through Network Governance Perspective”, *Environment & Policy, Environmental Governance in Indonesia*, A. Triyanti et al. (eds.), 61, 463-485, 2023
 - 14 Y. Uozumi, T. Furuta, Y. Yamaguchi, H. Zen, T. Kii, H. Ohgaki, E. Velicheva, V. Kalinnikow, Z. Tsamalaidze, P. Evtoukhovitch, “Study of crystalline scintillator response with development of single-electron beam of 2–6 MeV at KU-FEL”, *Journal of Nuclear Science and Technology*, 2023, <https://doi.org/10.1080/00223131.2023.2172087>
 - 15 N. Sei, H. Zen, and H. Ohgaki, “Deformation of an electronic bunch caused by free-electron lasers”, *Physica Scripta*, vol.98, 025510, 2023, DOI : 10.1088/1402-4896/acb253
 - 16 V. Vai, S. Eng, C. Chhlonh, H. Ohgaki, “Economic Analysis of a Grid-Connected Rooftop PV System for a Factory in Phnom Penh”, *Regional Conference in Mechanical Manufacturing Engineering*, 1177-1186, 2022
 - 17 Zul Ilham, Indrani Subramaniam, Adi Ainurzaman Jamaludin, Wan Abd Al Qadr Imad Wan-Mohtar, Sarina Abdul Halim-Lim, Hideaki Ohgaki, Keiichi Ishihara, Mohd Radzi Abu Mansor, "Analysing dimensions and indicators to design energy education framework in Malaysia using the analytic hierarchy process (AHP)", *Energy Reports*, vol. 8, pp.1013-1024, 2022, DOI : 10.1016/j.egyr.2022.07.126
 - 18 N. Sei, H. Zen, H. Ohgaki, “Peak Shift of Coherent Edge Radiation Spectrum Depending on Radio Frequency Field Phase of Accelerator”, *Applied Sciences*, vol.12, No.2, 626 (2022) DOI : 10.3390/app12020626
 - 19 H. Negm, H. Zen, H. Ohgaki, “Comprehensive simulation study on CT isotope imaging beyond the experiment on the ^{208}Pb based on nuclear resonance fluorescence”,

- JOURNAL OF NUCLEAR SCIENCE AND TECHNOLOGY, vol.59, 875-887 (2022)
doi:/10.1080/00223131.2021.2016511
- 20 A. Khaled, H. Zen, H. Ohgaki, T. Kii, T. Hayakawa, T. Shizuma, M. Katoh, Y. Taira, M. Fujimoto, H. Toyokawa, “Fusion Visualization Technique to Improve a Three-Dimensional Isotope-Selective CT Image Based on Nuclear Resonance Fluorescence with a Gamma-CT Image”, *Applied Sciences*, vol. 11, no.24, 11866 (2021) DOI : 10.3390/app112411866
- 21 H. Zen, H. Ohgaki, “Study of the origin of the complex beam profile of a hole-coupled free electron laser oscillator”, *Journal of the Optical Society of America A-Optics Image Science and Vision*, vol.38, no.11, 1656-1661(2021) DOI : 10.1364/JOSAA.436260
- 22 R. Akasegawa, H. Zen, K. Hachiya, K. Yoshida, T. Goto, T. Sagawa, H. Ohgaki, “Mode-selective excitation of an infrared-inactive phonon mode in diamond using mid-infrared free electron laser”, *Japanese Journal of Applied Physics*, vol.60, no.10, 102001 (2021) DOI: 10.35848/1347-4065/ac21b0
- 23 Khaled Ali, Heishun Zen, Hideaki Ohgaki, Toshiteru Kii, Takehito Hayakawa, Toshiyuki Shizuma, Hiroyuki Toyokawa, Masaki Fujimoto, Yoshitaka Taira and Masahiro Katoh, “Three-Dimensional Nondestructive Isotope-Selective Tomographic Imaging of 208Pb Distribution via Nuclear Resonance Fluorescence”, *Appl. Sci.*, 11(8), 3415 (2021).
<https://doi.org/10.3390/app11083415>
- 24 T. Shizuma, F. Minato, M. Omer, T. Hayakawa, H. Ohgaki, S. Miyamoto, “Low-lying electric and magnetic dipole strengths in Pb-207”, *Physical Review C*, vol.103, No.2, 024309 (2021).
- 25 V. Vai, L. Bun, H. Ohgaki, “Integrated Battery Energy Storage into an Optimal Low Voltage Distribution System with PV Production for an Urban Village”, *International Journal on Advanced Science, Engineering and Information Technology*, vol.10, no.6, pp.2458-2464 (2021).
- 26 H. Zen, H. Ohgaki, R. Hajima, “Record high extraction efficiency of free electron laser oscillator”, *Applied Physics Express*, vol.13, no. 10, 102007 (2020).
- 27 H. Zen, H. Ohgaki, R. Hajima, “High-extraction-efficiency operation of a midinfrared free electron laser enabled by dynamic cavity desynchronization”, *Physical Review Accelerators and Beams*, vol.23, no.7, 070701 (2020).
- 28 Adi Ainurzaman Jamaludin, Zul Ilham, Nurul Emy Idayu Zulkifli, Wan Abd Al Qadr Imad Wan-Mohtar, Sarina Abdul Halim-Lim, Hideaki Ohgaki, Keiichi Ishihara and Yutaka Akitsu,” Understanding perception and interpretation of Malaysian university students on renewable energy”, *AIMS Energy*, 8(6): 1029–1044 (2020).
DOI:10.3934/energy.2020.6.1029

- 29 K. Ali, H. Ohgaki, H. Zen, T. Kii, T. Hayakawa, T. Shizuma, H. Toyokawa, Y. Taira, V. Iancu, G. Turturica, C. A. Ur, M. Fujimoto, M. Katoh, "Selective Isotope CT Imaging Based on Nuclear Resonance Fluorescence Transmission Method", IEEE Transactions on Nuclear Science, vol. 67, No. 8, pp. 1976-1984 (2020).
- 30 Jordi Cravioto, Hideaki Ohgaki, Hang Seng Che, ChiaKwang Tan, Satoru Kobayashi, Hla Toe, Bun Long, Eth Oudaya, Nasrudin Abd Rahim and Hooman Farzaneh, "The Effects of Rural Electrification on Quality of Life: A Southeast Asian Perspective", Energies, vol.13, no.10, 2410 (2020)
- 31 O. Sato, K. Yoshida, H. Zen, K. Hachiya, T. Goto, T. Sagawa, H. Ohgaki, "Two-photon selective excitation of phonon-mode in diamond using mid-infrared free-electron laser", Physics Letters A, vol.384, no.10, 126223 (2020)
- 32 Kouichi Miura, Jingchong Yan, Hideaki Ohgaki, Ryuichi Ashida, Kazuhira Ichikawa, "Reduction and Gasification Characteristics of A Unique Iron Ore/carbon Composite Prepared from Robe River and A Coal Tar Vacuum Residue", ISIJ International, Vol. 59 (2019), No. 12, pp. 2182-2192
- 33 Siriwan Krainara, Heishun Zen, Shuya Chatani, Toshiteru Kii, and Hideaki Ohgaki, "Properties of THz coherent undulator radiation generated from a compact accelerator source at Kyoto University", Review of Scientific Instruments 90, 103307 (2019); <https://doi.org/10.1063/1.5110342>
- 34 Norihiro Sei, H. Ogawa, T. Tanaka, Y. Hayakawa, T. Sakai, Y. Sumitomo, Y. Takahashi, K. Hayakawa, K. Nogami, H. Zen and H. Ohgaki, "Research of coherent edge radiation generated by electron beams oscillating free-electron lasers", Journal of Physics: Conference Series, 1350 (2019) 012039. doi:10.1088/1742-6596/1350/1/012039
- 35 Tshewang Lhendup, Hideaki OHGAKI, Pravakar Pradhan, Tandin Wangchuk, "Parametric Study of Heating and Cooling Energy Demand of Residential Buildings in Bhutan", International Journal of Structural and Civil Engineering Research Vol. 8, No. 4, November 2019, 314-320.
- 36 Hooman Farzaneh, Jose A. Puppim de Oliveira, Benjamin McLellan and Hideaki Ohgaki, "Towards a Low Emission Transport System: Evaluating the Public Health and Environmental Benefits", Energies, 12, 3747 (2019) doi:10.3390/en12193747
- 37 K. Torgasin, K. Morita, H. Zen, K. Masuda, M. Bakr, K. Nagasaki, T. Kii, H. Ohgaki, "Study on Anomalous Photoemission of LaB6 at High Temperature", Physica Scripta, vol.94 (7), 075701(2019) <https://doi.org/10.1088/1402-4896/ab003f>
- 38 Mohd Amran Mohd Radzi, Nasrudin Abd. Rahim, Hang Seng Che, Hideaki Ohgaki, Hooman Farzaneh, Wallace Shung Hui Wong, and Lai Chean Hung, "OPTIMAL SOLAR

- POWERED SYSTEM FOR LONG HOUSES IN SARAWAK BY USING HOMER TOOL", ASEAN Engineering Journal, vol.9, No.1, 2586-9159 p.1(2019).
- 39 Heishun Zen, Hideaki Ohgaki, Yoshitaka Taira, Takehito Hayakawa, Toshiyuki Shizuma, Izuru Daito, Jun-ichiro Yamazaki, Toshiteru Kii, Hiroyuki Toyokawa, Masahiro Katoh, "Demonstration of tomographic imaging of isotope distribution by nuclear resonance fluorescence", AIP Advanced, vol. 9 no. 3, 35101 (2019).
- 40 Watcharakorn Ketren, Heishun Zen, Ryuichi Ashida, Toshiteru Kii and Hideaki Ohgaki, "Investigation on Conversion Pathways in Degradative Solvent Extraction of Rice Straw by Using Liquid Membrane-FTIR Spectroscopy", Energies, 12(3), 528 (2019); <https://doi.org/10.3390/en12030528>
- 41 H. Zen, T. Hayakawa, E. Salehi, M. Fujimoto, T. Shizuma, J.K. Koga, T. Kii, M. Katoh, H. Ohgaki, "Generation of 1-MeV Quasi-Monochromatic Gamma-Rays for Precise Measurement of Delbruck Scattering by Laser Compton Scattering", Journal of Physics: Conference Series, vol. 1067, 92003 (2018).
- 42 S. Krainara, S. Chatani, H. Zen, T. Kii, H. Ohgaki, "Study of the Saturation of Radiation Energy Caused by the Space Charge Effect in a Compact THz Coherent Radiation Source", Journal of Physics: Conference Series, vol. 1067, 32022 (2018).
- 43 M. Bakr, H. Ohgaki, "Influence of the Cathode Material Properties in Reducing the Back-Bombardment Effect in Thermionic RF Gun", IEEE Transactions on Electron Devices, vol.65, no.11, 5053-5061 (2018). DOI:10.1109/TED.2018.2867932
- 44 S.K. Maurya, T. Nakajima, K. Mizobata, H. Zen, T. Kii, H. Ohgaki, "Real-time Observation of Structural Change in Semi-crystalline Polymer Films through Mid-IR Transmission Spectroscopy: Determination of Instantaneous Film Temperature during Recrystallization", Optics Express, vol.26, 21615-21625 (2018). doi.org/10.1364/OE.26.021615
- 45 F. Shishikura, H. Zen, K. Hayakawa, Y. Komatsuzaki, Y. Hayakawa, T. Sakai, T. Kii, H. Ohgaki, "Mid-Infrared Free-Electron Laser-Evoked Discharge of Crayfish Compound Eyes", bioRxiv, vol. 77, no.3, 159-164 (2018). doi.org/10.4264/numa.77.3_159
- 46 Sikharin Suphakul, Heishun Zen, Toshiteru Kii and Hideaki Ohgaki, "Investigation of Bunch Compressor and Compressed Electron Beam Characteristics by Coherent Transition Radiation", Particles, vol.2, no.1, 32-43 (2018).
- 47 Y. Uozumi, Y. Yamaguchi, M. Fujii, H. Zen, T. Kii, H. Ohgaki, Z. Tsamalaidze, P. Evtoukhovitch, "Responses of PWO, LaBr3:Ce, and LYSO:Ce Scintillators to Single-Electron Hits of 5-40 MeV at KU-FEL", Nuclear Instruments and Methods in Physics Research A, vol.911, 138-141 (2018). doi.org/10.1016/j.nima.2018.10.040

- 48 N. Sei, H. Zen, H. Ohgaki, "Measurement of bunch length evolution in electron beam macropulse of S-band linac using coherent edge radiation", *Physics Letters A*, vol. 383, No.5 389-395 (2018). doi.org/10.1016/j.physleta.2018.11.010
- 49 S. Krainara, S. Chatani, H. Zen, T. Kii, H. Ohgaki, "Manipulation of Laser Distribution to Mitigate the Space-Charge Effect for Improving the Performance of a THz Coherent Undulator Radiation Source", *Particles*, Vol.1, No.1, 238-252 (2018). doi.org/10.3390/particles1010018
- 50 Nikolaos Iliopoulos, Hooman Farzaneh, Hideaki Ohgaki, "Tokyo's Low-Emission Development Strategies Underlying the Promotion of Energy Efficiency in Public and Private Buildings", *Devising a Clean Energy Strategy for Asian Cities*, Springer, ISBN 978-981-13-0782-9, 205-222 (2018). doi.org/10.1007/978-981-13-0782-9_10
- 51 Nattapan Thanomsat, Boonyang Plangklang and Hideaki Ohgaki, "Analysis of Ferroresonance Phenomenon in 22 kV Distribution System with a Photovoltaic Source by PSCAD/EMTDC", *Energies* 2018, 11(7), 1742 (2018); <https://doi.org/10.3390/en11071742>
- 52 Pimnapat Bhumkittipich and Hideaki Ohgaki, "Development Strategy for Sustainable Solar Home System in the Akha Upland Community of Thailand", *Energies*, 11(6), 1509 (2018). <https://doi.org/10.3390/en11061509>
- 53 Jadsadajerm, S., Muangthong-on, T., Wannapeera, J., Ohgaki, H., Miura, K., Worasuwannarak, N, "Degradative solvent extraction of biomass using petroleum based solvents", *Bioresource Technology*, 260, pp.169-176 (2018).
- 54 Ketren Watcharakorn, Wannapeera Janewit, Heishun Zen, Ryuichi Ashida, Toshiteru Kii, Kouichi Miura and Hideaki Ohgaki, "The Mechanism Study of Degradative Solvent Extraction of Biomass by Liquid Membrane-Fourier Transform Infrared Spectroscopy", *Int. Journal of Physical and Mathematical Science*, vol.12, No.1, pp.9-13 (2018).
- 55 T. Shizuma, T. Hayakawa, I. Daito, H. Ohgaki, S. Miyamoto, and F. Minato, "Low-lying dipole strength in ^{52}Cr ", *Phys. Rev. C* 96, 044316 (2017).
- 56 Sikharin Suphakul, Heishun Zen, Toshiteru Kii and Hideaki Ohgaki, Measurement of Coherent Undulator Radiation of Compact Terahertz Radiation Source at Kyoto University, *International Journal of Magnetism and Electromagnetism*, 3, 1, 008 (2017).
- 57 Konstantin Torgasin, Kenta Mishima, Heishun Zen, Kohei Yoshida, Hani Negm, Muhamed Omer, Toshiteru Kii, Kazunobu Nagasaki, Kai Masuda and Hideaki Ohgaki, "Properties of quarter-wavelength coaxial cavity for triode-type thermionic RF gun", *Japanese Journal of Applied Physics*, 56, 096701 (erratum 119201) (2017).
- 58 K. Torgasin, K. Morita, H. Zen, K. Masuda, T. Katsurayama, T. Murata, S. Suphakul, H. Yamashita, T. Nogi, T. Kii, K. Nagasaki, and H. Ohgaki, "Thermally assisted

- photoemission effect on CeB6 and LaB6 for application as photocathodes", *Physical Review Accelerator and Beams*, 20, 073401 (2017).
- 59 Ketren Watcharakorn, Muangthongon Trairat, Wannapeera Janewit, Heishun Zen, Toshiteru Kii, Kouichi Miura and Hideaki Ohgaki, "Proposal of Liquid Membrane-FTIR Spectroscopy to Quantify the Oxygen Content in Soluble Fraction of Degradative Solvent-Extraction", *International Journal of Experimental Spectroscopic Techniques*, 2, pp.2-10 (2017).
- 60 K. Miura, H. Ohgaki, N. Sato, M. Matsumoto, "Formulation of the Heat Generation Rate of Low-Temperature Oxidation of Coal by Measuring Heat Flow and Weight Change at Constant Temperatures Using Thermogravimetry Differential Scanning Calorimetry", *Energy Fuels*, 31, pp.11669-11680 (2017).
- 61 Hideaki Ohgaki, Hooman Farzaneh, Nasrudin Abd Rahim, Hang Seng Che, Mohd Amran Mohd Radzi, Wallace ShungHui Wong, Lai Chean Hung, "Study on Quality of Life Change for Rural Community through Rural Electrification by Renewable Energy: Preliminary Result", *ASEAN Journal of Management & Innovation*, Volume 4 Number 2, pp.1-8 (2017).
- 62 Trairat Muangthong-on, Janewit Wannapeera, Hideaki Ohgaki, and Kouichi Miura, "Effect of Solvent on the Degradative Solvent Extraction of Low Rank Coal", *Energy Fuels*, 31, 11954-11962 (2017).
- 63 Trairat Muangthong-on, Janewit Wannapeera, Hideaki Ohgaki, and Kouichi Miura, "Examination of interactions of solvent treated coal with oxygen and water vapor at over 100 °C using TG-DSC for examining propensity to spontaneous heating of the solvent treated coal", *Energy Fuels*, 31, 11723-11730(2017).
- 64 Trairat Muangthong-on, Janewit Wannapeera, Hideaki Ohgaki, and Kouichi Miura, "TG-DSC Study to Measure Heat of Desorption of Water during the Thermal Drying of Coal and to Examine Role of Adsorption of Water Vapor for Examining Spontaneous Heating of Coal over 100 °C", *Energy Fuels*, 31, 10691-10698 (2017).
- 65 H. Ohgaki, I. Daito, H. Zen, T. Kii, K. Masuda, T. Misawa, R. Hajima, T. Hayakawa, T. Shizuma, M. Kando, and S. Fujimoto, "Nondestructive Inspection System for Special Nuclear Material Using Inertial Electrostatic Confinement Fusion Neutrons and Laser Compton Scattering Gamma-rays", *IEEE Transactions on Nuclear Science*, Volume: 64, No.7, July (2017), 1635-1640. DOI 10.1109/TNS.2017.2652619
- 66 Muneyuki Kagaya, Kyohei Yoshida, Heishun Zen, Kan Hachiya, Takashi Sagawa, and Hideaki Ohgaki, "Mode-selective phonon excitation in gallium nitride using mid-infrared free-electron laser", *Japanese Journal of Applied Physics* 56, 022701 (2017).

- 67 Gabriel Suliman, Violeta Iancu, Calin A. Ur, Mihai Iovea, Izuru Daito and Hideaki Ohgaki, "Gamma beam industrial applications at ELI-NP", International Journal of Modern Physics: Conference Series, Vol. 44 (2016) 1660216. DOI: 10.1142/S2010194516602167
- 68 V. Iancu, G. Suliman, G. V. Turturica, M. Iovea, I. Daito, H. Ohgaki, C. Matei, C. A. Ur and D. L. Balabanski, "Brilliant gamma beams for industrial applications: new opportunities, new challenges", Journal of Physics: Conference Series, 763 (2016) 012003. doi:10.1088/1742-6596/763/1/012003
- 69 N. Sei, H. Zen, H. Ohgaki, "Development of Intense Terahertz Coherent Synchrotron Radiation at KU-FEL", Nuclear Instruments and Methods in Physical Research Section A, vol. 832, pp.208-213 (2016).
- 70 Heishun Zen, Sikharin Suphakul, Toshiteru Kii, Kai Masuda, Hideaki Ohgaki "Present Status and Perspectives of Long Wavelength Free Electron Lasers at Kyoto University", Physics Procedia 84 (2016) 47 - 53.
- 71 Heishun Zen, Yoshitaka Taira, Taro Konomi, Takehito Hayakawa, Toshiyuki Shizuma, Junichiro Yamazaki, Toshiteru Kii, Hiroyuki Toyokawa, Masahiro Katoh, Hideaki Ohgaki, "Generation of High Energy Gamma-ray by Laser Compton Scattering of 1.94 μm Fiber Laser in UVSOR-III Electron Storage Ring", Energy Procedia 89 (2016), 335 - 345.
- 72 I. Daito, H. Ohgaki, G. Suliman, V. Iancu, C. A. Ur, M. Iovea, "Simulation Study on Computer Tomography Imaging of Nuclear Distribution by Quasi Monoenergetic Gamma Rays with Nuclear Resonance Fluorescence: case study for ELI-NP application", Energy Procedia 89 (2016), 389 - 394.
- 73 S. Suphakul, K. Damminsek, H. Zen, T. Kii, H. Ohgaki, "Beam Dynamics Investigation for the Compact Seeded THz-FEL Amplifier", Energy Procedia 89 (2016), 373 - 381.
- 74 Mahmoud Bakr, Masayuki Kawai, Toshiteru Kii, and Hideaki Ohgaki, "CeB6: Emission Performance and Uniformity Compared With LaB6 for Thermionic RF Guns", IEEE TRANS. ON ELECTRON DEVICES, vol.63, issue 3, 1326-1332(2016).
- 75 Mahmoud Bakr, M. Kawai, T. Kii, H. Zen, K. Masuda, and H. Ohgaki, "Emission properties and back-bombardment for CeB6 compared to LaB6", Journal of Applied Physics 117, 064503 (2015); doi: 10.1063/1.4908004.
- 76 E. Ageev, K. Mizobata, T. Nakajima, H. Zen, T. Kii and H. Ohgaki, "Time-resolved detection of structural change in polyethylene films using mid-infrared laser pulses", Applied Physics Letters, vol.107, page 41904 (2015).
- 77 Kyohei Yoshida, Taro Sonobe, Heishun Zen, Kan Hachiya, Kensuke Okumura, Kenta Mishima, Motoharu Inukai, Hani Negm, Konstantin Torgasin, Mohamed Omer, Ryota Kinjo, Toshiteru Kii, Kai Masuda, Hideaki Ohgaki, "Effect of microwave irradiation on

- the electronic structure of ZnO", Journal of Physics and Chemistry of Solids, Volume 83, August 2015, Pages 47-51 (2015).
- 78 Hani Hussein NEGM, Hideaki OHGAKI, Izuru DAITO, Toshitada HORI, Toshiteru KII, Heishun ZEN, Ryoichi HAJIMA, Takehito HAYAKAWA, Toshiyuki SHIZUMA, Shinya FUJIMOTO, "Study on Detector Geometry for Active Non-destructive Inspection System of SNMs by Nuclear Resonance Fluorescence", 2015 IEEE International Conference on Technologies for Homeland Security (HST), p.1-5 (2015), DOI:10.1109/THS.2015.7225324
- 79 Y. Qin, T. Nakajima, H. Zen, X. Wang, T. Kii, H. Ohgaki," Characterization of non-Gaussian mid-infrared free-electron laser beams by the knife-edge method", Infrared Physics & Technology, vol.66 (2014), pp.146-151.
- 80 H. Ohgaki, M. Omer, H. Negm, I. Daito, H. Zen, T. Kii, K. Masuda, T. Hori, R. Hajima, T. Hayakawa, T. Shizuma, M. Kando," Nuclear Physics and Gamma-Ray Sources for Nuclear Security and Nonproliferation", Proceeding of NPNSNP, World Scientific, (2014), pp.203-208.
- 81 Hani Negm, Izuru Daito, Heishun Zen, Toshiteru Kii, Kai Masuda, Toshitada Hori, Hideaki Ohgaki, Ryoichi Hajima, Toshiyuki Shizuma, Takehito Hayakawa, Nobuhiro Kikuzawa, "A Study of the Nuclear Rsonance Fluorescence Reaction Yield Dependence on the Target Thickness of 208Pb", Proceeding of NPNSNP, World Scientific, (2014), pp.291-299.
- 82 Hani Negm, Hideaki Ohgaki, Izuru Daito, Takehito Hayakawa, Heishun Zen, Toshiteru Kii, Kai Masuda, Toshitada Hori, Ryoichi Hajima, Toshiyuki Shizuma & Nobuhiro Kikuzawa," Reaction-yield dependence of the (γ , γ') reaction of 238U on the target thickness", Journal of Nuclear Science and Technology, (2014) , pp.1-10.
<http://dx.doi.org/10.1080/00223131.2014.980348>
- 83 Xiaolong Wang, Yu Qin, Takashi Nakajima, Heishun Zen, Toshiteru Kii, Hideaki Ohgaki, "Diagnosis of the Wavelength Stability of a Mid-Infrared Free-Electron Laser", Chinese Journal of Physics, Vol.52, No. 1-I, pp.163-173 (2014). arXiv:1308.6026
- 84 X. Wang, T. Nakajima, H. Zen, T. Kii and H. Ohgaki, "Damage threshold and focusability of mid-infrared free-electron laser pulses gated by a plasma mirror with nanosecond switching pulses," Applied Physics Letters 103, 191105 (2013). Article ID (arXiv): 1310.7678
- 85 Omer, Mohamed ; Ohgaki, Hideaki ; Negm, Hani ; Daito, Izuru ; Hori, Toshitada ; Kii, Toshiteru ; Zen, Heishun ; Hajima, Ryoichi ; Hayakawa, Takehito ; Shizuma, Toshiyuki ; Fujiwara, Mamoru, "Performance of LaBr3(Ce) array detector system for non-destructive inspection of special nuclear material by using nuclear resonance fluorescence", 2013

- IEEE International Conference on Technologies for Homeland Security (HST), pp. 671-676 (2013), Digital Object Identifier: 10.1109/THS.2013.6699084.
- 86 Kyohei Yoshida, Taro Sonobe, Heishun Zen, Kan Hachiya, Kensuke Okumura, Kenta Mishima, Motoharu Inukai, Hani Negm, Konstantin Torgasin, Mohamed Omer, Toshiteru Kii, Kai Masuda and Hideaki Ohgaki, "Experimental demonstration of mode-selective phonon excitation of 6H-SiC by a mid-infrared laser with anti-Stokes Raman scattering spectroscopy", *Appl. Phys. Lett.* 103, 182103 (2013); <http://dx.doi.org/10.1063/1.4827253>.
- 87 Kyohei Shimahashi, Heishun Zen, Kensuke Okumura, Marie Shibata, Hidekazu Imon, Torgasin Konstantin, Hani Negm, Mohamed Omer, Kyohei Yoshida, Yong-Woon Choi, Ryota Kinjo, Kai Masuda, Toshiteru Kii, Hideaki Ohgaki, "Investigation of Electron Beam Parameter in Seeded THz-FEL Amplifier using Photocathode RF Gun", *Energy Procedia* 34 (2013) pp.863 - 870.
- 88 Mohamed Omer, H. Negm, H. Zen, T. Hori, T. Kii, K. Masuda, H. Ohgaki, R. Hajima, T. Hayakawa, I. Daito, T. Shizuma, M. Fujiwara, S. H. Park, N. Kikuzawa, G. Rusev, A. P. Tonchev and Y. K. Wu, "Active Interrogation of Nuclear Materials Using LaBr₃: Ce Detectors", *Energy Procedia*, 34 (2013), pp.50 - 56.
- 89 Fumihiko Yamane, Kyohei Matsushita, Hideaki Ohgaki, Kota Asano, "Study Plans Concerning Monetary Evaluation of Mitigation Measures for the Fukushima Daiichi Accident", *Energy Procedia*, 34 (2013), pp. 937 - 944.
- 90 Mohamed Omer, Hani Negm, Hideaki Ohgaki, Izuru Daito, Takehito Hayakawa, Mahmoud Bakr, Heishun Zen, Toshitada Hori, Toshiteru Kii, Kai Masuda, Ryoichi Hajima, Toshiyuki Shizuma, Hiroyuki Toyokawa, Nobuhiro Kikuzawa, "Analysis of nuclear resonance fluorescence excitation measured with LaBr₃(Ce) detectors near 2MeV", *Nuclear Instruments and Methods*, A 729 (2013), pp.102-107.
- 91 Mohamed Omer, Hani Negm, Heishun Zen, Izuru Daito, Toshiteru Kii, Kai Masuda, Hideaki Ohgaki, Ryoichi Hajima, Toshiyuki Shizuma, Takehito Hayakawa, Nobuhiro Kikuzawa, "Nuclear Resonance Fluorescence of ²³⁵U Measured with High-Resolution LaBr₃(Ce) Scintillation Detectors", *JJAP*, vol.52, 10, 106401-1-4 (2013).
- 92 T. Shizuma, T. Hayakawa, H. Ohgaki, H. Toyokawa, T. Komatsubara, N. Kikuzawa, T. Inakura, M. Honma and H. Nakada, "Dipole strength distribution in ⁵⁶Fe", *Physical Review C* 87, 024301 (2013)
- 93 Ryota Kinjo, Marie Shibata, Toshiteru Kii, Heishun Zen, Kai Masuda, Kazunobu Nagasaki, Hideaki Ohgaki, "Demonstration of a High-Field Short-Period Undulator Using Bulk High-Temperature Superconductor", *Applied Physics Express*, vol.6, 42701(2013).
- 94 T Kii, M Omer, H Negm, YW Choi, R Kinjo, K Yoshida, T Konstantin, N Kimura, K Ishida, H Imon, M Shibata, K Shimahashi, T Komai, K Okumura, H Zen, K Masuda, T

- Hori, H Ohgaki, "Design Study for Direction Variable Compton Scattering Gamma Ray", Journal of Physics: Conference Series, vol.425, 192020(2013).
- 95 M Shibata, R Kinjo, YW Choi, M Omer, H Negm, T Konstantin, K Yoshida, T Komai, K Shimahashi, H Imon, K Okumura, H Zen, T Kii, K Masuda, H Ohgaki, "Development of a field measurement system for the Bulk HTSC SAU", Journal of Physics: Conference Series, vol.425, 32021(2013).
- 96 F. Yamane, H. Ohgaki, and K. Asano, "The Immediate Impact of the Fukushima Daiichi Accident on Local Property Values", Risk Analysis, 4 APR 2013 DOI: 10.1111/risa.12045.
- 97 Yu Qin, Heishun Zen, Xiaolong Wang, Toshiteru Kii, Takashi Nakajima, and Hideaki Ohgaki, "Pulse duration and wavelength stability measurements of a midinfrared free-electron laser", OPTICS LETTERS / Vol. 38, No. 7 / April 1, 2013, pp.1068-1070.
- 98 Taro Sonobe, Kan Hachiya, Tomohiko Mitani, Naoki Shinohara, Hideaki Ohgaki, "Delayed luminescence from ZnO ceramics upon microwave-induced Plasma emission", Journal of Physics and Chemistry of Solids, 74 (2013) 837-840.
- 99 H. Ohgaki, M. Omer, H. Negm, T. Hori, T. Kii, K. Masuda, M. Kando, I. Daito, T. Misawa, C.-H. Pyeon, S. Fujimoto, R. Hajima, T. Hayakawa, T. Shizuma, M. Fujiwara, F. Sakai, S. H. Park, "Non-Destructive Inspection System for Special Nuclear Material using Inertial Electrostatic Confinement Fusion Neutrons and Laser Compton Scattering Gamma-rays", Proc. of IEEE HST 2012, pp.666-671 (2012).
- 100 I. Daito, M. Kando, T. Shizuma, T. Hayakawa, C. Angell, R. Hajima, H. Ohgaki, High Flux Laser-Compton Scattered Gamma-Ray Source by SBS Pulse Compressed Laser, J. Plasma Fusion Res. 88, 553-554 (2012).
- 101 X Wang, T Nakajima, H Zen, T Kii, H Ohgaki, "Single-shot spectra of temporally selected micropulses from a mid-infrared free-electron laser by upconversion", Optics Letters 37 (24), 5148-5150(2012).
- 102 Y. Qin, T. Nakajima, T. Kii, and H. Ohgaki, "Use of Fringe-Resolved Autocorrelation for the Diagnosis of the Wavelength Stability of a Free Electron Laser", Jpn. J. Appl.Phys. 51, 102704 (2012).
- 103 Toshiyuki Shizuma, Takehito Hayakawa, Ryoichi Hajima, Nobuhiro Kikuzawa, Hideaki Ohgaki, and Hiroyuki Toyokawa, "Nondestructive identification of isotopes using nuclear resonance fluorescence", REVIEW OF SCIENTIFIC INSTRUMENTS 83, 015103 (2012).
- 104 T. Kii, R. Kinjo, N. Kimura, M. Shibata, M. A. Bakr, Y.W. Choi, M. Omer, K. Yoshida, K. Ishida, T. Komai, K. Shimahashi, T. Sonobe, H. Zen, K. Masuda, H. Ohgaki, "Low-Temperature Operation of a Bulk HTSC Staggered Array Undulator", IEEE Transactions on Applied Superconductivity, Vol.22, 4100904, (2012).

- 105 T. Kii, R. Kinjo, M.A. Bakr, T. Sonobe, K. Higashimura, K. Masuda, H. Ohgaki, K. Yoshida, H. Zen, "Conceptual Design of a Novel Insertion Device using Bulk Superconducting Magnet", *Physica C: Superconductivity*, 471, 21-22, 897-900, 2012.
- 106 T. Shizuma, T. Hayakawa, H. Ohgaki, H. Toyokawa, T. Komatsubara, A. Tamii, H. Nakada, "Nuclear resonance fluorescence measurements by quasi-monochromatic linearly polarized photon beams", *Journal of Physics: Conference Series*, vol. 312, no. 9, 2011
- 107 Mahmoud Bakr, R. Kinjo, Y. W. Choi, M. Omer, K. Yoshida, S. Ueda, M. Takasaki, K. Ishida, N. Kimura, T. Sonobe, T. Kii, K. Masuda, H. Ohgaki, "Back bombardment for dispenser and lanthanum hexaboride cathodes", *Reviews of Modern Physics - REV MOD PHYS*, vol. 14 (2011)
- 108 Mahmoud Bakr, R. Kinjo, Y. W. Choi, M. Omer, K. Yoshida, S. Ueda, M. Takasaki, K. Ishida, N. Kimura, T. Sonobe, T. Kii, K. Masuda, and H. Ohgaki, "Comparison of Heating Property of LaB6 and CeB6 by Back Bombardment Effect in Thermionic RF gun", *Journal of the Korean Physical Society*, V. 59, N. 5, November 2011, pp.3273~3279.
- 109 Mahmoud Bakr, R. Kinjo, Y. W. Choi, M. Omer, K. Yoshida, S. Ueda, M. Takasaki, K. Ishida, N. Kimura, T. Sonobe, T. Kii, K. Masuda, and H. Ohgaki "Back Bombardment for Dispenser and Lanthanum Hexaboride Cathodes", *Phys. Rev. STAB*, V 14, June 2011 pp. 060708-1~ 060708-9.
- 110 Hideaki Ohgaki, T. Kii, K. Masuda, M. Omer, T. Misawa, C. H. Pyeon, R. Hajima, T. Hayakawa, T. Shizuma, M. Kando, I. Daido and H. Toyokawa "Proposal of a Non-Destructive Detection System for Hidden Nuclear Materials Based on a Neutron / Gamma-ray Hybrid System", *Journal of the Korean Physical Society*, V. 59, N. 5, November 2011, pp. 3155-3159.
- 111 Fumihiko Yamane, Hideaki Ohgaki and Kota Asano, "Social Factors Affecting Economic Welfare of the Residents around Nuclear Power Plants in Japan", *Energy Procedia*, 9 (2011) 619 - 629.
- 112 Kyohei Yoshida, Taro Sonobe, M. A. Bakr, Y. W. Choi, Ryota Kinjo, M. Omer, Masato Takasaki, Satoshi Ueda, Naoki Kimura, Keiichi Ishida, Kai Masuda, Toshiteru Kii and Hideaki Ohgaki "Application of MIR-FEL Irradiation to Selectively Excite Phonons in Wide-gap Semiconductors", *Journal of the Korean Physical Society*, V. 59, N. 5, November 2011, pp. 3235~3238.
- 113 Kyohei Yoshida, Taro Sonobe, Mahoumd Bakr, Tetsuo Sakka, Takashi Sagawa, Eiji Nakata, Takashi Morii, Toshiteru Kii, Kai Masuda and Hideaki Ohgaki, "Material Analysis Laboratory in KU-FEL, Kyoto University", *Energy Procedia* 9 (2011) 483 - 490.

- 114 F. Yamane, H. Ohgaki, K. Asano, "Nuclear Power-Related facilities and Neighboring Land Price: A Case Study on Mutsu-Ogawara Region, Japan", Risk Analysis, Volume 31, Issue 12, December 2011, Pages: 1969-1994
- 115 H. Toyokawa, T. Hayakawa, T. Shizuma, R. Hajima, K. Masuda, and H. Ohgaki, "Nondestructive inspection of explosive materials using linearly polarized two-colored photon beam", Nucl. Instrum. and Methods in Phys. Res -sect A, vol. 652, no.1, (2011), pp. 21-24.
- 116 Hiroyuki Toyokawa, Hideaki Ohgaki, Takehito Hayakawa, Toshiteru Kii, Toshiyuki Shizuma, Ryoichi Hajima, Nobuhiro Kikuzawa, Kai Masuda, Fumito Kitatani, and Hideo Harada, "Two-Dimensional Isotope Imaging of Radiation Shielded Materials Using Nuclear Resonance Fluorescence", Japanese Journal of Applied Physics 50 (2011) 10020
- 117 Iwasaki, Y., Takabayashi, Y., Kaneyasu, T., Yoshida, K., Tomimasu, T., Ohgaki, H., "New septum magnet at the SAGA light source", IEEE Transactions on Applied Superconductivity, Volume 20, Issue 3, June 2010, Article number 5422809, Pages 246-249.
- 118 Higashimura, K., Ueda, S., Yoshida, K., Kinjo, R., Bakr, M.A., Sonobe, T., Masuda, K., Kii, T., Ohgaki, H., "Short bunch effect on tabletop THz FEL amplification", Nuclear Instruments and Methods in Physics Research, Section A, Volume 637, Issue 1, Supplement 1, Pages S83-S86 (2010).
- 119 Bakr, M., Yoshida, K., Higashimura, K., Ueda, S., Kinjo, R., Zen, H., Sonobe, T., Kii, T., Masuda, K., Ohgaki, H., "FEL beamline for wide tunable range and beam sharing system at Kyoto University", AIP Conference Proceedings, Volume 1214, 2010, Pages 45-47.
- 120 Kii, T., Kinjo, R., Bakr, M.A., Sonobe, T., Higashimura, K., Masuda, K., Ohgaki, H., Yoshida, K., Zen, H., "Proposal of a bulk HTSC staggered array undulator", AIP Conference Proceedings Volume 1234, 2010, Pages 539-542.
- 121 T. Sonobe, T. Mitani, K. Hachiya, N. Shinohara and H. Ohgaki, "Zinc Plasma Emission from Zinc Oxide Ceramics under a Microwave Electric Field", Japanese Journal of Applied Physics, vol.49 doi.10.1143/JJAP.49.080219 , (2010)
- 122 Hideaki Ohgaki, Toshiteru Kii, Kai Masuda, Tsuyoshi Misawa, Cheol-Ho PYEON, Ryoichi Hajima, Takehito Hayakawa, Toshiyuki Shizuma, Keigo Kawase, Masaki Kando, Hiroyuki Toyokawa, "Conceptual Design of a Nuclear Material Detection System Based on the Neutron / Gamma-ray Hybrid Approach", Proceedings of IEEE International Conference on Technologies for Homeland Security 2010, pp.525-529 (2010).
- 123 H. Ohgaki, T. Kii, K. Masuda, M.A. Bakr, K. Higashimura, R. Kimjo, K. Yoshida, S. Ueda and T. Sonobe, "Research Activities on a MIR-FEL and Table-Top THz Generation in

- Kyoto University", Journal of the Korean Physical Society, Vol.57, No.2 Aug.2010, pp.344-348.
- 124 N. Terunuma, A.Murata, M.Fukuda, K.Hirano, Y.Kamiya, T.Kii, M.Kuriki, R.Kuroda, H. Ohgaki, K.Sakaue, M.Takano, T.Takatomi, J.Urakawa, M.Washio, Y.Yamazaki, J.Yang, "Improvement of an S-band RFgun with a Cs₂Te photocathode for the KEK-ATF", Nuclear Instruments and Methods in Physics Research A613 (2010) pp.1-8.
- 125 R. Hajima, N. Kikuzawa, N. Nishimori, T. Hayakawa, T. Shizuma, K. Kawase, M. Kando, E. Minehara, H. Toyokawa and H. Ohgaki, "Detection of radioactive isotopes by using laser Compton scattered γ -ray beams", Nuclear Instruments and Methods in Physics Research A 608 (2009) S57-S61.
- 126 H. Toyokawa, S. Goko, S. Hohara, T. Kaihori, F. Kaneko, R. Kuroda, N. Oshima, M. Tanaka, M. Koike, A. Kinomura, H. Ogawa, N. Sei, R. Suzuki, T. Ohdaira, K. Yamada and H. Ohgaki, "Recent progress in generation and application of AIST laser-Compton gamma-ray beam", Nuclear Inst. and Methods in Physics Research, A 608 (2009), pp. S41-S43.
- 127 H. Zen, T. Kii, K. Masuda, R. Kinjo, K. Higashimura, K. Nagasaki, H. Ohgaki, "Beam Energy Compensation in a Thermionic RF Gun by Cavity Detuning", IEEE transaction on nuclear science, Vol. 56, No. 3, JUNE 2009, pp.1487-1491.
- 128 T. Hayakawa, H. Ohgaki, T. Shizuma, R. Hajima, N. Kikuzawa, E. Minehara, T. Kii, and H. Toyokawa, "Nondestructive detection of hidden chemical compounds with laser Compton-scattering gamma rays", Rev. of Science Instrum., vol. 80, (2009) pp.045110-1-5.
- 129 Masuda, K., Kii, T., Ohgaki, H., Zen, H., Yamazaki, T., "Shielding analysis for a 40-mev electron linac facility", Nuclear Technology, Volume 168, Issue 2, November 2009, Pages 467-471.
- 130 Shizuma, T., Hayakawa, T., Ohgaki, H., Toyokawa, H., Komatsubara, T., Kikuzawa, N., Tamii, A., Nakada, H., "Spin-flip M1 strengths in 208Pb", AIP Conference Proceedings, Volume 1153, 2009, Pages 297-302.
- 131 T. Shizuma, T. Hayakawa, H. Ohgaki, H. Toyokawa, T. Komatsubara, N. Kikuzawa, A. Tamii, and H. Nakada, "Fine structure of the magnetic-dipole-strength distribution in 208Pb", Phys. Rev. C 78, (2009) 061303.
- 132 Nobuhiro Kikuzawa, Ryoichi Hajima, Nobuyuki Nishimori, Eisuke Minehara, Takehito Hayakawa, Toshiyuki Shizuma, Hiroyuki Toyokawa, and Hideaki Ohgaki, "Nondestructive Detection of Heavily Shielded Materials by Using Nuclear Resonance Fluorescence with a Laser-Compton Scattering γ -ray Source", Applied Physics Express 2 (2009) 036502.

- 133 H. Ohgaki, T. Kii, and H. Toyokawa, "A New Design for Generation of Tunable Gamma-Ray With a Fixed Energy Electron Beam", IEEE Transactions on Nuclear Science, Vol. 56 (2009), pp. 1316-1320.
- 134 H. Ohgaki, T. Kii, K. Masuda, H. Zen, S. Sasaki, T. Shiiyama, R. Kinjo, K. Yoshikawa, T. Yamazaki, "Lasing at 12 m Mid Infrared Free Electron Laser in Kyoto University", Jap. Jour. of Appli. Phys., Vol.47, No.10, pp.8091-8094(2008).
- 135 Chengpu Liu, Takashi Nakajima, Tetsuo Sakka, Hideaki Ohgaki, "Above-threshold ionization and high-order harmonic generation by mid-infrared and far-infrared laser pulse", Phys. Rev. A77, 043411(2008).
- 136 Heishun Zen, Toshiteru Kii, Kai Masuda, Hideaki Ohgaki and Tetsuo Yamazaki, "Development of IR-FEL Facility for Energy Science in Kyoto University", Infrared Physics and Technology, Volume 51, Issue 5, pp.382-385(2008).
- 137 H. Ohgaki, S. Koda, Y. Iwasaki, Y. Takabayashi, K. Yoshida, T. Tomimasu, Y. Uozumi, and K. Ishibashi, "Study on Energy Variable Laser-Compton Gamma-ray with a fixed Energy Electron Beam", Journal of Nuclear Science and Technology, Vol.44, No.5, pp.698-702 (2007).
- 138 Heishun Zen, Hideaki Ohgaki, Kai Masuda, Toshiteru Kii, Kohichi Kusukame, Toshio Fukui, Yoko Nakai, Tetsuo Yamazaki and Kiyoshi Yoshikawa, "Transverse Phase Space Measurement Using Tomographic Method", AIP, Synchrotron Radiation Instrumentation, pp.240-243(2006).
- 139 T. Tomimasu, S. Koda, Y. Iwasaki, Y. Takabayashi, K. Yoshida, H. Ohgaki, "Current Status of the SAGA Light Source", AIP, Synchrotron Radiation Instrumentation, pp.184-187(2006).
- 140 K. Yoshida, Y. Iwasaki, Y. Takabayashi, S. Koda, T. Okajima, H. Setoyama, D. Yoshimura, T. Tomimasu, H. Ohgaki, "The SAGA Light Source", AIP, Synchrotron Radiation Instrumentation, pp.179-183(2006).
- 141 Toshiteru Kii, Yoko Nakai, Toshio Fukui, Heishun Zen, Kohichi Kusukame, Norihito Okawachi, Masatsugu Nakano, Kai Masuda, Hideaki Ohgaki, Kiyoshi Yoshikawa, Tetsuo Yamazaki, "Reducing energy degradation due to back-bombardment effect with modulated rf input in S-band thermionic rf gun", AIP, Synchrotron Radiation Instrumentation, pp.248-251(2006).
- 142 H. Ohgaki, S. Koda, Y. Iwasaki, Y. Takabayashi, K. Yoshida, T. Tomimasu, Y. Uozumi, and K. Ishibashi, "Scheme of Laser-Compton Gamma-ray Beamline in SAGA-LS", AIP, Synchrotron Radiation Instrumentation, pp.119-122(2006).
- 143 S. Naito, Y. Nagai, T. Shima, H. Makii, K. Mishima, K. Tamura, H. Toyokawa, H. Ohgaki, J. Golak, R. Skibinski, H. Witala, W. Glöckle, A. Nogga, and H. Kamada, "New data for

- total $3\text{He}(\gamma, p)\text{D}$ and $3\text{He}(\gamma, pp)n$ cross sections compared to current theory", Phys. Rev. C 73,034003-1-10 (2006).
- 144 T. Shizuma, H. Utsunomiya, S. Goko, P. Mohr, T. Hayakawa, A. Makinaga, K.Y. Hara, H. Ohgaki, Y.-W. Lui, S. Goriely, " Photoneutron cross section measurements on W-186, Re-187 and Os-188 for cosmochemistry", NUCLEAR PHYSICS A 758 561C-564C (2005).
- 145 T. Shizuma, H. Utsunomiya, P. Mohr, T. Hayakawa, S. Goko, A. Makinaga, H. Akimune, Yamagata, M. Ohta, H. Ohgaki, Y.-W. Lui, H. Toyokawa, A. Uritani, S. Goriely, " Photodisintegration cross section measurements on W-186, Re-187, and Os-188 Implications for the Re-Os cosmochemistry", PHYSICAL REVIEW C 72 (2) Art. No. 025808-1-9 (2005).
- 146 T. Shima, S. Naito, Y. Nagai, T. Baba, K. Tamura, T. Takahashi, T. Kii, H. Ohgaki, H. Toyokawa, "Simultaneous measurement of the photodisintegration of He-4 in the giant dipole resonance region", PHYSICAL REVIEW C 72 (4) Art. No. 044004-1-16 (2005).
- 147 H. Toyokawa, K. Yamada, H. Ohgaki, S. Hayashi, T. Kii, T. Yamazaki, S. Goko, "Long-Axis Fabry-Perot Cavity for Intense Laser-Compton Photon Beam", Japanese J. of Applied Phys., Vol.44, No.10, 7671-7676 (2005).
- 148 H. Ohgaki, S. Hayashi, A. Miyasako, T. Takamatsu, K. Masuda, T. Kii, K. Yoshikawa, and T. Yamazaki, "MEASUREMENTS OF THE BEAM QUALITY ON KU-FEL LINAC", Nucl. Instrum. Methods in Phys. Res. A, vol.528, pp.366-370 (2004).
- 149 T. Naito, M. Tadano, N. Terunuma, J. Urakawa, E. Nakamura, M. Hasumoto, H. Sakai, T. Shibuya, F. Sakai, H. Ohgaki, N. Sei, "Investigation of carbon contamination on SR-irradiated devices", NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A, 527 (3), pp.624-631 (2004).
- 150 P. Mohr, T. Shizuma, H. Ueda, S. Goko, A. Makinaga, K.Y. Hara, T. Hayakawa, Y.-W. Lui, H. Ohgaki, and H. Utsunomiya, "s-process branching at 185W revised", Phys. Rev. C69, 032801(R)-1 - 032801(R)-4 (2004).
- 151 H. Utsunomiya, K.Y. Hara, S. Goko, H. Akimune, T. Yamagata, M. Ohta, H. Ohgaki, H. Toyokawa, T. Hayakawa, T. Shizuma, Y.-W. Lui, P. Mohr, H. Ohkuma, H. Yonehara, K. Soutome, M. Arnould, "Photonuclear reaction studies at synchrotron radiation facilities in Japan", Nuclear Physics A, Volume 738, 28, pp.136-142 (2004).
- 152 K. Masuda, S. Matsumura, T. Kii, K. Nagasaki, H. Ohgaki, K. Yoshikawa, T. Yamazaki, "Simulations of beam-beam interaction in an energy recovery linac", Nucl. Instrum. Methods in Phys. Res. A, vol.528, pp.134-138 (2004).
- 153 T. Kii, A. Miyasako, S. Hayashi, K. Masuda, H. Ohgaki, K. Yoshikawa and T. Yamazaki, " IMPROVEMENT OF BEAM MACROPULSE PROPERTIES USING SLIM

- THERMIONIC CATHODE IN IAE RF GUN", Nucl. Instrum. Methods in Phys. Res. A, vol.528, pp.408-411 (2004).
- 154 H. Ohgaki, H. Toyokawa, K. Yamada, S. Hayashi, T. Kii, T. Yamazaki, "ENHANCEMENT OF LASER COMPTON GAMMA-RAY BEAM WITH F-P CAVITY IN STORAGE RING TERAS", Nucl. Instrum. Methods in Phys. Res. A. vol.528, pp.II-7-II-8 (2004).
- 155 K.Y. Hara, H. Utsunomiya, S. Goko, H. Akimune, T. Yamagata, M. Ohta, H. Toyokawa, K. Kudo, A. Uritani, Y. Shibata, Y.-W. Lui, and H. Ohgaki, "Photodisintegration of deuterium and big bang nucleosynthesis", Phys. Rev. D68, 072001-1 - 072001-6 (2003).
- 156 H. Utsunomiya, H. Akimune, S. Goko, M. Ohta, H. Ueda, T. Yamagata, K. Yamazaki, H. Ohgaki, H. Toyokawa, Y.-W. Lui, T. Hayakawa, T. Shizuma, E. Khan, S. Goriely, "Cross section measurements of the $^{181}\text{Ta}(g, n)^{180}\text{Ta}$ reaction near neutron threshold and p-process nucleosynthesis", Phys. Rev. C, 67, 1, 158071-158079 (2003).
- 157 H. Utsunomiya, H. Akimune, S. Goko, T. Hayakawa, Y.-W. Lui, H. Ohgaki, M. Ohta, H. Toyokawa, T. Yamagata, "A new astrophysical gamma probe and its application", Nuclear Physics A, vol.718, pp.199-206 (2003).
- 158 T. Shima, Y. Nagai, S. Naito, K. Tamura, T. Baba, T. Takahashi, H. Ohgaki, T. Kii, H. Toyokawa, "Photonuclear reactions of He-3 and He-4 at low energies and few body problems", PHYSICA SCRIPTA, T104, pp.164-166 (2003).
- 159 T. Shima, S. Naito, Y. Nagai, T. Baba, K. Tamura, H. Ohgaki, T. Kii, H. Toyokawa, "Photodisintegration cross section of ^3He and ^4He at low energies", Nuclear Physics A, vol.718, pp.23-26 (2003).
- 160 K. Masuda, S. Matsumura, T. Kii, H. Ohgaki, T. Yamazaki, K. Nagasaki, K. Yoshikawa, "A simulation study on energy recovery from spent electron beams in ab S-band linac", Nucl. Instrum. Methods in Phys. Res. A, vol.507, pp.133-136 (2003).
- 161 T. Kii, I. Tometaka, K. Yamane, H. Ohgaki, K. Masuda, K. Yoshikawa, T. Yamazaki, "Improvement of electron beam properties by reducing back-bombardment effects in a thermionic RF gun", Nucl. Instrum. Methods in Phys. Res. A, vol.507, pp.340-343 (2003).
- 162 H. Ohgaki, I. Tometaka, K. Yamane, T. Kii, K. Masuda, K. Yoshikawa, T. Yamazaki, "Design studies of IR-FEL system at IAE, Kyoto University", Nucl. Instrum. Methods in Phys. Res. A, vol.507, pp.150-153 (2003).
- 163 N. Sei, K. Yamada, H. Ohgaki, T. Mikado, M. Yasumoto, H. Ogawa, "Study of expected performance of the hard X-ray beam for the FEL-X project", NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A, vol.483, pp.429-433 (2002).

- 164 N. Sei, H. Ohgaki, T. Mikado, K. Yamada, "Design of a New Optical Klystron for Developing Infrared Free Electron Lasers in the Storage Ring NIJI-IV", Japanese Journal of Applied Physics, vol.41, 3A, pp.1595-1601 (2002).
- 165 K. Yamada, N. Sei, M. Yasumoto, H. Ogawa, T. Mikado, H. Ohgaki, "Dynamic behavior of the NIJI-IV storage ring free electron laser", NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A, vol.483, pp.162-166 (2002).
- 166 H. Harada, K. Furutaka, H. Toyokawa, H. Ohgaki, "Super-High-Resolution Measurement of Photo-Nuclear Cross Sections", Journal of Nuclear Science and Technology, Sup.2, pp.608-613 (2002).
- 167 H. Utsunomiya, H. Akimune, S. Goko, T. Yamagata, M. Ohta, H. Ohgaki, H. Toyokawa, K. Sumiyoshi, Y.W. Lui, "Photoneutron Cross Sections for Nuclear Astrophysics", Journal of Nuclear Science and Technology, Sup.2, pp.542-545 (2002).
- 168 K. Kudo, N. Takeda, S. Koshikawa, H. Toyokawa, H. Ohgaki, M. Matzke, "Photon spectrometry in thermal neutron standard field", Nucl. Instrum. Methods in Phys. Res. A, vol.476, No.1, 2, pp.213-217 (2002).
- 169 H. Toyokawa, T. Mikado, K. Yamada, H. Ohgaki, "High-energy photon radiography system using laser-Compton scattering for inspection of bulk materials", Review of Scientific Instruments, vol.73, No.9, 3358-3362 (2002).
- 170 K. Masuda, T. Horii, S. Amazaki, T. Kii, H. Ohgaki, T. Yamazaki, K. Yoshikawa, "Transient beam loading effects due to back-streaming electrons onto a thermionic cathode in an RF gun", Nucl. Instrum. Methods in Phys. Res. A, vol.483, 315-320 (2002).
- 171 T. Kii, K. Masuda, S. Amazaki, T. Horii, H. Toku, K. Yoshikawa, H. Ohgaki, T. Yamazaki, "Evaluation of thermal effects due to back-streaming electrons in the IAE RF gun", Nucl. Instrum. Methods in Phys. Res. A, vol.483, 310-314 (2002).
- 172 H. Ohgaki, H. Toyokawa, "Parity Measurements with Completely Polarized Photon Beam", Journal of Nuclear Science and Technology, Sup.2, pp.500-503 (2002).
- 173 K. Yamada, N. Sei, H. Ohgaki, T. Mikado, T. Yamazaki, "Characteristics of the NIJI-IV UV-VUVFEL system - toward lasing down to 150 nm using a compact storage ring", NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A, 475, pp.205-210 (2001).
- 174 H. Harada, K. Furutaka, Y. Shigetome, H. Ohgaki, H. Toyokawa, "Fine structure of Giant resonance in $^{28}\text{Si} + \gamma$ absorption reaction", J. Nucl. Sci. Technol., vol.38, 7, pp.465-469 (2001).
- 175 T. Shima, Y. Nagai, T. Baba, T. Takahashi, T. Kii, H. Ohgaki, H. Toyokawa, "GDR problem in photodisintegration of ^4He ", Nuclear Physics A, 687, 127-131 (2001).

- 176 H. Toyokawa, H. Ohgaki, "Gamma-ray imaging with the laser-Compton-backscattered photons", IEEE Transactions on Nuclear Science, vol.49, 182-187 (2001).
- 177 H. Utsunomiya, Y. Yonezawa, H. Akimune, T. Yamagata, M. Ohta, H. Toyokawa, H. Ohgaki, and K. Sumiyoshi "Photodisintegration of ^9Be and the reaction rate for $(n, \gamma)^9\text{Be}$ ", Nuclear Physics A688, 340c-343c (2001).
- 178 H. Utsunomiya, Y. Yonezawa, H. Akimune, T. Yamagata, M. Ohta, M. Fujishiro, H. Toyokawa, H. Ohgaki "Photodisintegration of ^9Be with laser-induced Compton backscattered γ -rays", Physical Review C vol.63, 018801-1-4 (2001).
- 179 H. Toyokawa, H. Ohgaki, H. Shima, T. Kii, "Flux measurement of the laser-Compton-backscattered photons with Poisson fitting method", IEEE Trans. on Nucl. Phys., 47, No.6, 1954-1957 (2000).
- 180 H. Ohgaki, H. Toyokawa, K. Kudo, N. Takeda, T. Yamazaki, "Generation and Application of Laser-Compton Gamma-ray at ETL", Nucl. Instrum. Methods in Phys. Res., A455, 54-59 (2000).
- 181 K. Yamada, N. Sei, T. Yamazaki, H. Ohgaki, V. N. Litvinenko, T. Mikado, S. Sugiyama, M. Kawai, M. Yokoyama, "Lasing down to the deep UV in the NIJI-IV FEL", Nuclear Instruments and Methods in Physics Research A, A429, pp.159-164 (1999).
- 182 N. Sei, K. Yamada, H. Ohgaki, V. N. Litvinenko, T. Mikado, T. Yamazaki, "Improvement of the beam quality by chromaticity correction for wavelength shortening in the NIJI-IV FEL", Nuclear Instruments and Methods in Physics Research A, A429, pp.185-190 (1999).
- 183 H. Ohgaki, H. Toyokawa, T. Noguchi, R. Suzuki, N. Sei, S. Sugiyama, T. Mikado, K. Yamada, T. Ohdaira, T. Yamazaki, "Observation of M1 resonance in ^{206}Pb using a highly linear polarized photon beam", Nuclear Physics A, A649, 73c-76c (1999).
- 184 T. Shima, Y. Nagai, T. Kii, T. Takahashi, H. Ohgaki, "Precision test of charge symmetry of nuclear force via photonuclear reactions of ^4He ", Nuclear Physics A, A629, 475c-478c (1998).
- 185 H. Toyokawa, H. Ohgaki, S. Sugiyama, T. Mikado, K. Yamada, N. Sei, R. Suzuki, T. Ohdaira, T. Yamazaki, "Development of a Photoneutron Detection System at ETL Laser-Compton-backscattered Photon Facility", Nuclear Instruments and Methods in Physics Research A, A422, pp.95-100 (1998).
- 186 T. Yamazaki, K. Yamada, N. Sei, H. Ohgaki, S. Sugiyama, R. Suzuki, T. Mikado, T. Noguchi, M. Chiwaki, T. Ohdaira, H. Toyokawa, "SRFEL, FEL-X project, and applications at the ETL", Nucl. Instr. And Meth., B144, 83-89 (1998).
- 187 H. Harada, K. Furutaka, Y. Shigetome, H. Ohgaki, H. Toyokawa, "Super High Resolution Measurement of Fine Structure in the Total Photonuclear Cross Section of ^{13}C ", J. Nucl. Sci, Technol., 35, pp.733-735 (1998).

- 188 Y. Hino, H. Ohgaki, "Absolute Measurement of Ir-192", *Applied Radiation and Isotopes*, Vol. 49, No.9-11, pp.1179-1183 (1998).
- 189 Y. Mamane, H. Ohgaki, "Laser Compton Scattering as a Light Source from Vacuum Ultraviolet to Soft X-ray Wavelengths", *Jpn. J. Appl. Phys.*, Vol.37, L184-L186 (1998).
- 190 S. Sugiyama, H. Ohgaki, K. Yamada, T. Mikado, M. Koike, T. Yamazaki, S. Isojima, C. Suzawa and T. Keishi, "The operation of a superconducting wiggler at TERAS", *J. Synchrotron Rad.*, 5, 437-439(1998).
- 191 H. Harada, Y. Shigetome, H. Ohgaki, T. Noguchi, T. Yamazaki, "High Resolution Measurement of Fine Structure in the Photoabsorption Cross Section of ^{18}O ", *Phys. Rev. Lett.*, Vol.80, No.1, 33-36 (1998).
- 192 K. Yamada, T. Yamazaki, N. Sei, R. Suzuki, T. Ohdaira, T. Shimizu, M. Kawai, M. Yokoyama, T. Mikado, T. Noguchi, H. Ohgaki, "Saturation of cavity-mirror degradation in the UV FEL", *Nucl. Instrum. Methods in Phys. Res. A*, A393, pp.44-49 (1997).
- 193 N. Sei, T. Yamazaki, K. Yamada, T. Mikado, H. Ohgaki, "Design of an optical cavity in the NIJI-IV for high output power", *Nucl. Instrum. Methods in Phys. Res. A*, A393, pp.59-63 (1997).
- 194 N. Sei, H. Ohgaki, T. Yamazaki, K. Yamada, "Beam Quality in Storage Ring NIJI-IV", *Nucl. Instrum. Methods in Phys. Res. A*, A393, pp.38-43 (1997).
- 195 T. Ohdaira, R. Suzuki, T. Mikado, H. Ohgaki, M. Chiwaki, T. Yamazaki, "An apparatus for high-resolution positron-annihilation induced Auger-electron spectroscopy using a time-of-flight technique", *APPLIED SURFACE SCIENCE* 116 177-180 MAY (1997).
- 196 R. Suzuki, T. Ohdaira, T. Mikado, H. Ohgaki, M. Chiwaki, T. Yamazaki, "Control and measurement system for positron experiments at the ETL linac facility", *APPLIED SURFACE SCIENCE* 116 187-191 (1997).
- 197 H. Ijiri, H. Ohgaki, Y. Uozumi, T. Sakae, M. Matoba, "Development of soft x-ray sources with electron guns of field emission- and thermal cathode-types and their application to counter experiments", *JOURNAL OF NUCLEAR SCIENCE AND TECHNOLOGY* 33 (5) 423-428 (1996).
- 198 M. Yokoyama, M. Kawai, K. Yamada, N. Sei, S. Hamada, S. Sugiyama, H. Ohgaki, T. Mikado, T. Noguchi, R. Suzuki, M. Chiwaki, T. Ohdaira, T. Yamazaki, "Study of stored Current Limitation on the Storage Ring NIJI-IV", *Nucl. Instrum. Methods in Phys. Res. A*, A375, 1, pp.53-56 (1996).
- 199 R. Suzuki, T. Ohdaira, K. Yamada, T. Yamazaki, N. Sei, T. Mikado, T. Noguchi, H. Ohgaki, S. Sugiyama, M. Chiwaki, T. Shimizu, M. Kawai, M. Yokoyama, S. Hamada, K. Saeki, E. Nishimura, T. Tomimasu, "Slow Positron Study on Dielectric-coated Mirror for

- Free-Electron Laser Experiments", J. Radioanalytical and Nucl. Chem., vol.211, pp.47-52 (1996).
- 200 T. Ohdaira, R. Suzuki, T. Mikado, H. Ohgaki, M. Chiwaki, T. Yamazaki, M. Hasegawa, "High sensitivity of positron-annihilation induced Auger-electron spectroscopy to surface impurities", APPLIED SURFACE SCIENCE 101 73-76 (1996).
- 201 R. Suzuki, T. Ohdaira, T. Mikado, H. Ohgaki, M. Chiwaki, T. Yamazaki, "Apparatus for positron-annihilation-induced Auger electron spectroscopy with a pulsed positron beam", APPLIED SURFACE SCIENCE 101 297-300 (1996).
- 202 M. Matoba, K. Kuroumaru, S. Iwamoto, A. Nohtomi, Y. Uozumi, T. Sakae, N. Koori, H. Ohgaki, H. Ijiri, T. Maki, M. Nakano, "(p, d) reaction on ^{62}Ni at 65 MeV", Phys. Rev.C, 53, 4, pp.1792-1803 (1996).
- 203 H. Ohgaki, T. Noguchi, S. Sugiyama, T. Mikado, M. Chiwaki, K. Yamada, R. Suzuki, N. Sei, T. Ohdaira, T. Yamazaki, "Polarized Gamma-rays with Laser-Compton Backscattering", Nucl. Instrum. Methods in Phys. Res. A, A375, No.1, 602-605 (1996).
- 204 H. Ohgaki, D. Robin, T. Yamazaki, "Quasi-Isochronous Storage Ring for Enhanced FEL Performance", Nucl. Instrum. Methods in Phys. Res. A, A375, No.1, 128-131 (1996).
- 205 M. Matoba, S. Iwamoto, Y. Uozumi, T. Sakae, N. Koori, H. Ohgaki, H. Kugimiya, H. Ijiri, T. Maki, M. Nakano, "Fragmentation of Neutron-Hole Strengths in ^{59}Ni Observed in the $^{60}\text{Ni}(p, d)^{59}\text{Ni}$ Reaction at 65 MeV", Nuclear Phys. A, 581, pp.21-41(1995).
- 206 K. Yamada, T. Yamazaki, N. Sei, T. Shimizu, R. Suzuki, T. Ohdaira, M. Kawai, M. Yokoyama, S. Hamada, K. Saeki, E. Nishimura, T. Mikado, T. Noguchi, S. Sugiyama, M. Chiwaki, H. Ohgaki, T. Tomimasu, "Degradation and Restoration of Dielectric-Coated Cavity Mirrors in the NIJI-IV FEL", Nucl. Instrum. Methods in Phys. Res. A, A358, pp.392-395 (1995).
- 207 T. Yamazaki, K. Yamada, N. Sei, H. Ohgaki, S. Sugiyama, T. Mikado, T. Noguchi, M. Chiwaki, R. Suzuki, M. Kawai, T. Ohdaira, M. Yokoyama, S. Hamada, A. Iwata, "Lasing in the Ultraviolet Region with the NIJI-IV Storage Ring Free-electron Laser", Nucl. Instrum. Methods in Phys. Res. A, A358, pp.353-357 (1995).
- 208 M. Yokoyama, M. Kawai, K. Yamada, N. Sei, S. Hamada, S. Sugiyama, H. Ohgaki, T. Mikado, T. Noguchi, R. Suzuki, M. Chiwaki, T. Yamazaki, "Effects of an Optical Klystron on the Electron Beam of the Storage Ring NIJI-IV for Free Electron Lasers", Nucl. Instrum. Methods in Phys. Res. A, A358, pp.378-381 (1995).
- 209 S. Sugiyama, H. Ohgaki, T. Mikado, K. Yamada, M. Chiwaki, R. Suzuki, N. Sei, T. Ohdaira, T. Noguchi, T. Yamazaki, S. Isojima, H. Usami, T. Suzawa, T. Masuda, Y. Keishi, Y. Hosoda, "Design and Manufacture of a 10-T Superconducting Wiggler Magnet at ETL", Rev. Sci. Instrum., 66(2), pp.1960-1963 (1995).

- 210 R. SUZUKI, T. MIKADO, M. CHIWAKI, H. OHGAKI, T. YAMAZAKI, "GENERATION OF AN INTENSE PULSED POSITRON BEAM FOR POSITRON LIFETIME AND TOF EXPERIMENTS", APPLIED SURFACE SCIENCE 85 (1-4) 87-91 (1995).
- 211 R. Suzuki, T. Mikado, H. Ohgaki, M. Chiwaki, T. Yamazaki, Y. Kobayashi, "A Variable-Energy Pulsed Positron Beam as a Non-Destructive Probe for Semiconductor Materials", Trans. Mat. Soc. Jpn., Vol.16A, No.12, 725-728 (1994).
- 212 T. Yamazaki, K. Yamada, N. Sei, S. Sugiyama, H. Ohgaki, T. Mikado, T. Noguchi, M. Chiwaki, R. Suzuki, M. Kawai, M. Yokoyama, S. Hamada, A. Iwata, "Lasing at 352 nm of the NIJI-IV Storage-Ring Free-Electron Laser", Jpn. J. Appl. Phys., 33, L1224-L1227 (1994).
- 213 A. UEDONO, L. WEI, S. TANIGAWA, R. SUZUKI, H. OHGAKI, T. MIKADO, K. FUJINO, "SIO₂-FILMS DEPOSITED ON SI SUBSTRATES STUDIED BY MONOENERGETIC POSITRON BEAMS", JOURNAL OF APPLIED PHYSICS 75 (1) 216-222 (1994).
- 214 A. UEDONO, L. WEI, S. TANIGAWA, R. SUZUKI, H. OHGAKI, T. MIKADO, T. KAWANO, Y. OHJI, "POSITRONIUM FORMATION IN SIO₂-FILMS GROWN ON SI SUBSTRATES STUDIED BY MONOENERGETIC POSITRON BEAMS", JOURNAL OF APPLIED PHYSICS 75 (8) 3822-3828 (1994).
- 215 R. SUZUKI, Y. KOBAYASHI, T. MIKADO, H. OHGAKI, M. CHIWAKI, T. YAMAZAKI, "AN INTENSE PULSED POSITRON BEAM", HYPERFINE INTERACTIONS 84 (1-4) 345-353 (1994).
- 216 A. UEDONO, L. WEI, S. TANIGAWA, R. SUZUKI, H. OHGAKI, T. MIKADO, K. FUJINO, "CHARACTERIZATION OF SILICON DIOXIDE DEPOSITED BY LOW-TEMPERATURE CVD USING TEOS AND OZONE BY MONOENERGETIC POSITRON BEAMS", HYPERFINE INTERACTIONS 84 (1-4) 231-236 (1994).
- 217 A. UEDONO, S. TANIGAWA, R. SUZUKI, H. OHGAKI, T. MIKADO, "DEFECTS IN HEAVILY PHOSPHORUS-DOPED SI EPITAXIAL-FILMS PROBED BY MONOENERGETIC POSITRON BEAMS", JAPANESE JOURNAL OF APPLIED PHYSICS 33 (11) 6286-6290 (1994).
- 218 R. SUZUKI, Y. KOBAYASHI, K. AWAZU, T. MIKADO, M. CHIWAKI, H. OHGAKI, T. YAMAZAKI, "POSITRON LIFETIME STUDY ON ION-IMPLANTED AMORPHOUS SIO₂ WITH A VARIABLE-ENERGY PULSED POSITRON BEAM", NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B 91 (1-4) 410-412 (1994).

- 219 R. SUZUKI, T. MIKADO, H. OHGAKI, M. CHIWAKI, T. YAMAZAKI, Y. KOBAYASHI,
"POSITRON-LIFETIME STUDY ON POROUS SILICON WITH A MONOENERGETIC
PULSED POSITRON BEAM", PHYSICAL REVIEW B 49 (24) 17484-17487 (1994).
- 220 M. Yokoyama, M. Kawai, S. Hamada, K. Oowaki, T. Yamazaki, T. Mikado, K. Yamada, N.
Sei, S. Sugiyama, H. Ohgaki, T. Noguchi, R. Suzuki, M. Chiwaki, T. Tomimasu, "Single
Bunch Injection of the Storage Ring NIJI-IV for FEL", Nucl. Instrum. Methods in Phys.
Res. A, Vol.341, No.1, pp.367-370 (1994).
- 221 T. Yamazaki, K. Yamada, S. Sugiyama, H. Ohgaki, N. Sei, T. Mikado, T. Noguchi, M.
Chiwaki, R. Suzuki, M. Kawai, M. Yokoyama, S. Hamada, "Present Status of the NIJI-IV
Free-Electron Lasers", Nucl. Instrum. Methods in Phys. Res. A, Vol.341, No.1,
pp.abs3-abs4 (1994).
- 222 H. Ohgaki, T. Noguchi, S. Sugiyama, T. Yamazaki, T. Mikado, M. Chiwaki, K. Yamada, R.
Suzuki, N. Sei, "Linearly Polarized Photons from Compton Backscattering of Laser Light
for Nuclear Resonance Fluorescence Experiments", Nucl. Instrum. Methods in Phys. Res.
A, Vol.353, No.1, 384-388 (1994).
- 223 A. UEDONO, L. WEI, S. TANIGAWA, R. SUZUKI, H. OHGAKI, T. MIKADO, H.
KAMETANI, H. AKIYAMA, Y. YAMAGUCHI, M. KOUMARU,
"CHARACTERIZATION OF SEPARATION-BY-IMPLANTED-OXYGEN WAFERS
WITH MONOENERGETIC POSITRON BEAMS", JAPANESE JOURNAL OF
APPLIED PHYSICS PART 1-REGULAR PAPERS SHORT NOTES & REVIEW
PAPERS 32 (9A) 3682-3686 SEP (1993).
- 224 A. UEDONO, L. WEI, S. TANIGAWA, R. SUZUKI, H. OHGAKI, T. MIKADO, Y. OHJI,
"POSITRON-ANNIHILATION IN A METAL-OXIDE-SEMICONDUCTOR STUDIED
BY USING A PULSED MONOENERGETIC POSITRON BEAM", JOURNAL OF
APPLIED PHYSICS 74 (12) 7251-7256 (1993).
- 225 A. UEDONO, S. WATAUCHI, Y. UJIHIRA, L. WEI, S. TANIGAWA, R. SUZUKI, H.
OHGAKI, T. MIKADO, H. KAMETANI, H. AKIYAMA, Y. YAMAGUCHI, M.
KOUMARU, "DEFECTS IN SEPARATION BY IMPLANTED OXYGEN WAFER
PROBED BY MONOENERGETIC POSITRON BEAMS", HYPERFINE
INTERACTIONS 79 (1-4) 621-625 (1993).
- 226 M. Matoba, O. Iwamoto, Y. Uozumi, T. Sakae, N. Koori, T. Fujiki, H. Ohgaki, H. Ijiri, T.
Maki, M. Nakano, " $^{40}\text{Ca}(p, d)^{39}\text{Ca}$ Reaction at 65 MeV", Phys. Rev. C, Vol.48, No.1,
pp.95-104 (1993).
- 227 K. Yamada, T. Yamazaki, S. Sugiyama, H. Ohgaki, T. Noguchi, T. Mikado, M. Chiwaki, R.
Suzuki, "FEL Oscillation on TERAS", Nucl. Instrum. Methods in Phys. Res. A, Vol.331,
No.1, pp.103-106 (1993).

- 228 T. Yamazaki, K. Yamada, S. Sugiyama, H. Ohgaki, N. Sei, T. Mikado, T. Noguchi, M. Chiwaki, R. Suzuki, M. Kawai, M. Yokoyama, K. Oowaki, S. Hamada, K. Aizawa, Y. Oku, A. Iwata, M. Yoshiwa, "First Lasing of the NIJI-IV Storage-Ring Free-Electron Laser", Nucl. Instrum. Methods in Phys. Res. A, Vol.331, No.1, pp.27-33 (1993).
- 229 M. Yokoyama, M. Kawai, K. Oowaki, S. Hamada, K. Aizawa, Y. Oku, A. Iwata, M. Yoshiwa, T. Yamazaki, S. Sugiyama, H. Ohgaki, K. Yamada, N. Sei, T. Mikado, T. Noguchi, R. Suzuki, M. Chiwaki, T. Tomimasu, "Study on the Storage Ring NIJI-IV with an Optical Klystron", Nucl. Instrum. Methods in Phys. Res. A, Vol.331, No.1, pp.abs34-abs39 (1993).
- 230 H. Ohgaki, S. Sugiyama, T. Noguchi, T. Yamazaki, T. Mikado, M. Chiwaki, K. Yamada, R. Suzuki, "CsI(Tl) Yield Monitor for Quasi-Monochromatic Photons from Compton Backscattering of Laser Lights at ETL", IEEE Trans. Nucl. Sci., Vol.40, No.4, 400-404 (1993).
- 231 R. SUZUKI, Y. KOBAYASHI, T. MIKADO, H. OHGAKI, M. CHIWAKI, T. YAMAZAKI, A. UEDONO, S. TANIGAWA, H. FUNAMOTO, "CHARACTERIZATION OF DIAMOND FILMS BY MEANS OF A PULSED POSITRON", JAPANESE JOURNAL OF APPLIED PHYSICS, 31 (7) 2237-2240 (1992).
- 232 K. Yamada, T. Yamazaki, S. Sugiyama, T. Tomimasu, H. Ohgaki, T. Noguchi, T. Mikado, M. Chiwaki, R. Suzuki, "Visible Oscillation of Storage-Ring Free Electron Laser on TERAS", Nucl. Instrum. Methods in Phys. Res. A, Vol.318, No.1, pp.33-37 (1992).
- 233 M. Kawai, K. Aizawa, K. Kamiya, M. Yokoyama, Y. Oku, K. Oowaki, H. Miura, A. Iwata, M. Yoshiwa, T. Tomimasu, S. Sugiyama, H. Ohgaki, T. Yamazaki, K. Yamada, T. Mikado, T. Noguchi, "Present Status of a 500 MeV Compact Electron Storage Ring for UV FEL Experiment", Nucl. Instrum. Methods in Phys. Res. A, Vol.318, No.1, pp.135-141 (1992).
- 234 T. Yamazaki, K. Yamada, S. Sugiyama, H. Ohgaki, T. Tomimasu, M. Kawai, "Design of a 6.3-m Optical Klystron for a Storage-Ring Ultraviolet Free-Electron Laser", Nucl. Instrum. Methods in Phys. Res. A, Vol.318, No.1, pp.142-147 (1992).
- 235 S. Sugiyama, H. Ohgaki, T. Mikado, T. Noguchi, K. Yamada, M. Chiwaki, R. Suzuki, M. Koike, T. Yamazaki, T. Tomimasu, Y. Keishi, H. Usami, Y. Hosoda, "Design of 10-T Superconducting Wiggler for Angiography", Rev. Sci. Instrum., Vol.63, No.1, pp.313-316 (1992).
- 236 T. Yamazaki, K. Yamada, S. Sugiyama, H. Ohgaki, T. Tomimasu, T. Noguchi, T. Mikado, M. Chiwaki, R. Suzuki, "Lasing in Visible of a Storage-Ring Free Electron Laser at ETL", Nucl. Instrum. Methods in Phys. Res. A, Vol.309, No.1,2, pp.343-347 (1991).
- 237 R. SUZUKI, Y. KOBAYASHI, T. MIKADO, H. OHGAKI, M. CHIWAKI, T. YAMAZAKI, T. TOMIMASU, "SLOW POSITRON PULSING SYSTEM FOR VARIABLE ENERGY

- POSITRON LIFETIME SPECTROSCOPY", JAPANESE JOURNAL OF APPLIED PHYSICS, 30 (3B) L532-L534 (1991).
- 238 R. SUZUKI, Y. KOBAYASHI, T. MIKADO, A. MATSUDA, P.J. MCELHENY, S. MASHIMA, H. OHGAKI, M. CHIWAKI, T. YAMAZAKI, T. TOMIMASU, "CHARACTERIZATION OF HYDROGENATED AMORPHOUS-SILICON FILMS BY A PULSED POSITRON BEAM", JAPANESE JOURNAL OF APPLIED PHYSICS, 30 (10) 2438-2441 (1991).
- 239 K. Yamada, T. Yamazaki, S. Sugiyama, T. Tomimasu, T. Mikado, M. Chiwaki, R. Suzuki, H. Ohgaki, "Free Electron Laser Experiment at ETL", Nucl. Instrum. Methods in Phys. Res. A, Vol.304, No.1-3, pp.86-92(1991).
- 240 M. Matoba, O. Iwamoto, Y. Uozumi, T. Sakae, N. Koori, H. Ohgaki, H. Kugimiya, H. Ijiri, T. Maki and M. Nakano, "Fragmentation of Neutron Hole Strengths in ^{59}Ni observed in the $^{60}\text{Ni}(p,d)^{59}\text{Ni}$ Reaction at 65 MeV", Nuclear Physics A, Vol.581, No.1, pp.21-41(1991).
- 241 R. Suzuki, Y. Kobayashi, T. Mikado, H. Ohgaki, M. Chiwaki, T. Yamazaki, T. Tomimasu, "Slow Positron Pulsing System for Variable Energy Positron Lifetime Spectroscopy", Jpn. J. Appl. Phys., Vol.30, No.3B, pp.L532-L534(1991).
- 242 H. Ohgaki, S. Sugiyama, T. Yamazaki, T. Mikado, M. Chiwaki, K. Yamada, R. Suzuki, T. Noguchi, T. Tomimasu, "Measurement of Laser-Induced Compton Backscattered Photons with Anti-Compton Spectrometer", IEEE Trans. Nucl. Sci., Vol.38, No.2, 386-392 (1991).
- 243 T. Tomimasu, T. Noguchi, S. Sugiyama, T. Yamazaki, T. Mikado, M. Chiwaki, T. Saito, R. Suzuki, H. Ohgaki, T. Mitsui, Y. Hosoda, H. Takada, Y. Tsutsui, K. Oka, T. Emura, Y. Hirata, "Development of Five Compact Storage Rings, TERAS, NIJI-I-IV, at ETL", Physica Scripta, T31, 137(1990).
- 244 M. Nakano, M. Matsuura, T. Maki, M. Matoba, H. Ohgaki, "Optical Potentials for Alpha Particles on Ca Isotopes at 1.37GeV", Phys. Rev. C, Vol.40, No.3 (1990).
- 245 K. Urase, H. Ohgaki, Y. Uozumi, H. Ijiri, M. Matoba, T. Sakae, N. Koori, "Measurements of Discharge Ion Distribution around an Anode Wire of a Gas Counter", Nucl. Instrum. Methods in Phys. Res. A, Vol.290, pp.401-407(1990).
- 246 H. Ohgaki, H. Kametani, Y. Fujita, Y. Uozumi, H. Ijiri, M. Matoba, T. Sakae, N. Koori, "Space Charge Effect in SQS Transition in a Gas Counter", Nucl. Instrum. Methods in Phys. Res. A, Vol.295, 411-416 (1990).
- 247 N. Koori, O. Hashimoto, K. Yoshioka, I. Kumabe, H. Ohgaki, M. Matoba, "Self-Quenching Streamers in Kr-Mixtures", Nucl. Instrum. Methods in Phys. Res. A, A281, No.1, pp.243-245(1989).

- 248 N. Koori, K. Yoshioka, M. Hashimoto, I. Kumabe, H. Ohgaki and M. Matoba,
"Comparison of Self-Quenching Streamer Transitions in Xe-, Kr-, and Ar-Mixtures", IEEE
Transactions on Nuclear Science, Vol.NS-36, No.1, pp.223-226(1989).
- 249 Y. Uozumi, H. Ohgaki, R. Kubo, T. Sajima, T. Motomura, H. Ijiri, M. Matoba, N. Koori, T.
Sakae, "Position Sensing with Magic Gas Mixture in The Transition Region from The
Proportional to the Self-quenching Streamer Mode", IEEE Transactions on Nucl. Sci., Vol.
36, No. 1, pp.218-222(1989).
- 250 M. Matoba, H. Ijiri, H. Ohgaki, S. Uehara, T. Fujiki, Y. Uozumi, H. Kugimiya, N. Koori, I.
Kumabe, M. Nakano, "Strength Function of the d5/2 Hole State in ^{39}Ca ", Phys. Rev. C,
vol.39, No.4, pp.1658-1661(1989).
- 251 H. Ohgaki, S. Uehara, T. Fujiki, H. Ijiri, M. Matoba, T. Sakae, N. Koori, "Position Sensing
with a Gas Counter in the SQS Transition Region", Nucl. Instrum. Methods in Phys. Res.
A, Vol.273, No.2,3, pp.522-524(1988).
- 252 H. Ohgaki, S. Kondo, S. Uehara, T. Fujiki, H. Ijiri, M. Matoba, T. Sakae, N. Koori,
"Non-Linearity in Position Sensing with Cathode Strips of a Single Wire Proportional
Counter", Jpn. J. Appl. Phys., Vol.27, No.2, pp.302-306(1988).
- 253 M. Matoba, K. Urase, H. Ohgaki, H. Ijiri, S. Uehara, T. Fujiki, Norihiko Koori and T.
Sakae, "Shape Transition of the Discharge Ion Distribution around an Anode Wire of a Gas
Counter", IEEE Transactions on Nuclear Science, Vol.NS-35, No.1, pp.98-101(1988).
- 254 H. Ohgaki, H. Ijiri, T. Sakae, N. Koori, M. Matoba, "A Ratio-to-Digital Converter for
Charge Division Position Sensing", IEEE Trans. Nucl. Sci., Vol.34, No.1,
pp.110-114(1987).
- 255 H. Ohgaki, S. Imabeppu, K. Urase, Y. Fujita, H. Maesako, S. Higuma, H. Kametani, H.
Ijiri, M. Matoba, N. Koori, T. Sakae, "Position Resolution of a Gas Counter in the SQS
Transition Region", IEEE Trans. Nucl. Sci., Vol.33, No.1, pp.381-384(1986).
- 256 H. Kametani, H. Ijiri, H. Ohgaki, Y. Takahashi, S. Higuma, S. Imabeppu, K. Urase, Y.
Fujita, H. Maesako, T. Sakae, Norihiko Koori and M. Matoba, "Characteristics of the
Self-Quenching Streamer Mode in a Gas Counter", Japanese Journal of Applied Physics,
Vol.23, No.12, pp.L922-L924(1984).

Book and review (including Japanese)

- 1 大垣英明 「UVSOR BL-1U におけるレーザーコンプトンガンマ線を用いた非破壊
同位体識別イメージング技術の基礎研究」 放射光、May 2023, vol.36, No.3, 133-138.
- 2 Anugerah Yuka Asmara, AR. Rohman Taufiq Hidayat, Badrudin Kurniawan, Hideaki
Ohgaki, Toshio Mitsufuji & Jordi Cravioto, "Building a Sustainable Photovoltaic
Innovation System in Indonesia Through Network Governance Perspective", Environment

- 2 & Policy, "Environmental Governance in Indonesia", A. Triyanti et al. (eds.), vol. 61, pp.463-485, Springer, 2023, doi.org/10.1007/978-3-031-15904-6_24
- 3 第 16 回日本加速器学会年会報告, 大垣英明, 岩下芳久, 神門正城, 加速器、Vol.16, No.3、p.207 (2019)
- 4 A special issue of Particles, "Super-radiances from Ultra Short Electron Bunch Beam", (ISSN 2571-712X), MDPI, 31 October 2018, Guest Editor: Prof. Dr. Hideaki Ohgaki, Co-Guest Editor: Prof. Dr. Qika Jia, Prof. Dr. Hiroyuki Hama,
- 5 Energy Procedia, Volume 89, Pages 1-436 (June 2016), CoE on Sustainable Energy System (Thai-Japan), Faculty of Engineering, Rajamangala University of Technology Thanyaburi (RMUTT), Thailand: 12th Eco-Energy and Materials Science and Engineering (12th EMSES), Edited by Boonyang PLANGKLANG, Hideaki OHGAKI and Sommai PIVSA-ART
- 6 Energy Procedia, Volume 56, Pages 1-690 (2014), 11th Eco-Energy and Materials Science and Engineering (11th EMSES), Edited by P.P. Yupapin, Sommai Pivsa-Art and H. Ohgaki
- 7 Energy Procedia, Volume 34, Pages 1-972 (2013), 10th Eco-Energy and Materials Science and Engineering Symposium, Edited by Yupapin P, Sommai Pivsa-Art and Hideaki Ohgaki
- 8 大垣英明、早川岳人、大東 出、「レーザー逆コンプトン散乱ガンマ線を用いた核共鳴蛍光による同位体の非破壊分析」レーザー学会誌 「レーザー研究」第 40 巻 3 号 188-193 (2012)
- 9 大垣英明、早川岳人、「核共鳴蛍光散乱による隠匿された物質の非破壊同位体分析」応用物理学会誌 「応用物理」第 80 巻第 11 号 955-959 頁
- 10 9th Eco-Energy and Materials Science and Engineering Symposium, Edited by Dr P. Yupapin, Dr Sommai Pivsa-Art and Dr Hideaki Ohgaki, Energy Procedia, Volume 9, Pages 1-642 (2011)
- 11 Hideaki Ohgaki and Yoshitaka Iwasaki, "In-House Control System for Medium Size Research Facility", Labview - Modelling, Programming and Simulations, edited by Riccardo De Asmundis, INTEC, 978-953-7619-21-38(2010).
- 12 大垣英明、紀井俊輝、増田開、吉川潔、山崎鉄夫、"京都大学小型量子放射発生装置の現状"、加速器 Vol.5, No.1, pp.21-26(2008).
- 13 富増多喜夫、江田茂、岩崎能尊、高林雄一、吉田勝英、大垣英明、"佐賀シンクロトロン光源の建設と立上げ"、加速器, Vol.3, No.2, pp.151-158(2006).
- 14 H.Ohgaki, H.Toyokawa, R.Suzuki, N.Sei, S.Sugiyama, T.Mikado, K.Yamada, T.Ohdaira, T.Yamazaki, "逆コンプトン散乱による高エネルギー γ 線の発生と応用", 放射線, Vol.24, No. 4, pp.41-50(1998).
- 15 T.Yamazaki, H.Onuki, R.Suzuki, H.Ohgaki, "ETL Electron Accelerator Facility", Synchrotron Radiation News, 9, 5(1996)

- 16 T.Yamazaki, K.Yamada, N.Sei, M.Kawai, M.Yokoyama, S.Hamada, H.Ohgaki, S.Sugiyama, R.Suzuki, T.Mikado, T.Noguchi, M.Chiwaki, T.Ohdaira, "Storage-Ring Free-Electron Lasers on the Electrotechnical Laboratory", Technical Digest of the Conference on Lasers and Electro-optics, 15(1995)
- 17 T.Yamazaki, K.Yamada, N.Sei, M.Kawai, M.Yokoyama, S.Hamada, H.Ohgaki, S.Sugiyama, R.Suzuki, T.Mikado, T.Noguchi, M.Chiwaki, T.Ohdaira, "Free-Electron Lasers on the Storage Ring NIJI-IV", Technical Digest of the Conference on Lasers and Electro-optics, 15(1995)
- 18 大垣英明, 野口勉, "エネルギー可変偏極単色 γ 線の発生", 日本物理学会誌, 50 巻 5 号, pp.381-386(1995).
- 19 H.Ohgaki, S.Sugiyama, T.Yamazaki, T.Noguchi, T.Mikado, M.Chiwaki, K.Yamada, R.Suzuki, N.Sei, T.Tomimasu, "Electron Storage Ring TERAS", Synchrotron Radiation Facilities in ASIA (1994)
- 20 三角智久, 鈴木良一, 小林慶規, 大垣英明, 山田家和勝, 千脇光圀, 山崎鉄夫, 富増多喜夫, "電子技術総合研究所における電子加速器による低速陽電子の発生とそれによる物性研究", 真空, 第 3 7 巻第 1 2 号(1994)970.
- 21 河合正之, 横山稔, 浜田信治, 山崎鉄夫, 山田家和勝, 清紀弘, 杉山卓, 大垣英明, 三角智久, 千脇光圀, 鈴木良一, 野口勉, 富増多喜夫, "電子蓄積リング"NIJI-IV"による自由電子レーザー発振技術の研究", 真空, 第 3 6 巻第 1 1 号(1993)
- 22 杉山卓, 三角智久, 千脇光圀, 山田家和勝, 大垣英明, 鈴木良一, 清紀弘, 野口勉, 山崎鉄夫, 中石博之, 蟹江智彦, 平田嘉裕, "小型放射光リング NIJI-II の現状", 放射光, 第 6 巻第 4 号(1993)391.
- 23 山崎鉄夫, 山田家和勝, 清紀弘, 大垣英明, 杉山卓, 三角智久, 鈴木良一, 野口勉, 千脇光圀, 河合正之, 横山稔, 浜田信治, 岩田章, 中川茂友, "自由電子レーザー専用小型蓄積リング NIJI-IV の現状", 放射光, 第 6 巻第 4 号(1993)379.
- 24 N.Saito, H.Ohgaki, S.Sugiyama, R.Suzuki, "Electron Spectroscopy Using a Time-of-flight Energy Analyzer and Single-bunched Synchrotron Radiation", Atom. Collis. Res. in Jpn.(1993)
- 25 三角智久, 鈴木良一, 大垣英明, 千脇光圀, 山崎鉄夫, 小林慶規, 富増多喜夫, "電総研における陽電子寿命測定装置の開発とその利用", 放射線, 第 1 8 巻第 2 号, pp.3-12(1992).
- 26 山崎鉄夫, 山田家和勝, 杉山卓, 大垣英明, 富増多喜夫, 野口勉, 三角智久, 千脇光圀, 鈴木良一, "電総研における蓄積リング自由電子レーザー発振実験", 放射光, 第 4 巻(1991)371.
- 27 富増多喜夫, 山崎鉄夫, 山田家和勝, 杉山卓, 大垣英明, "可視域自由電子レーザーの発振成功", 日本原子力学会誌, 第 3 3 巻第 7 号(1991)

- 28 富増多喜夫, 山崎鉄夫, 山田家和勝, 杉山卓, 大垣英明, "短波長自由電子レーザー研究の現状と将来", 応用物理, 第60巻第7号, pp.685-698(1991). 富増多喜夫, 山崎鉄夫, 山田家和勝, 杉山卓, 大垣英明, "短波長自由電子レーザー研究の現状と将来", 応用物理, 第60巻第7号, pp.685-698(1991).

3. Proceedings (International conference)

- 1 R. Hajima, K. Kawase, H. Zen, H. Ohgaki, "Carrier-Envelope Phase Stabilization in FEL Oscillators", Journal of Physics: Conference Series, vol. 2687, 032013 (2023) DOI 10.1088/1742-6596/2687/3/032013
- 2 J. Cravioto, H. Ohgaki, "Can the circular economy be relevant for rural development? Insights from communities without electricity in South-East Asia", EGU General Assembly 2023, EGU23 p.11487 (2023). DOI : 10.5194/egusphere-egu23-11487
- 3 H. Ohgaki, K. Ali, T. Kii, H. Zen, T. Hayakawa, T. Shizuma, Y. Taira, "Generation and NRF Application of Flat-Laser Compton Scattering Gamma-ray Beam in UVSOR", Proceedings of IPAC'23, p.1874-1876 (2023) DOI : 10.18429/JACoW-IPAC-23-THPM108
- 4 H. Zen, T. Kii, H. Ohgaki, "Present status of Kyoto University Free-Electron Laser facility, KU-FEL", Proceedings of IPAC'23, p.1866-1869 (2023) DOI : 10.18429/JACoW-IPAC-23-TUPL050
- 5 R. Hajima, K. Kawase, H. Zen, H. Ohgaki, "Carrier-Envelope Phase Stabilization in FEL Oscillators" Proceedings of IPAC'23, p.5121-5123 (2023) DOI : 10.18429/JACoW-IPAC-23-THPM108, DOI : 10.18429/JACoW-IPAC-23-MOPA063
- 6 J. Bo, H. Zen, R. Akasegawa, K. Hachiya, K. Yoshida, H. Ohgaki, "Selective excitation of LO3 phonon mode of SrTiO3", 47th International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz, 2022, DOI : 10.1109/IRMMW-THz50927.2022.9895839
- 7 H. Ohgaki, K. Ali, T. Kii, H. Zen, M. Fujimoto, Y. Taira, T. Hayakawa, T. Shizuma, "Generation of Flat-Laser Compton Scattering Gamma-ray Beam in UVSOR", IPAC2022 – Proceedings, THPOMS046, 2022, DOI : 10.18429/JACoW-IPAC2022-THPOMS046
- 8 S. Sukara, K. Kongmali, S. Rimjaem, H. Ohgaki, "Design and Simulation of the MIR-FEL Generation System at Chiang Mai University", IPAC2022 – Proceedings, TUPOPT030, 2022, DOI : 10.18429/JACoW-IPAC2022-TUPOPT030
- 9 V.. Vai, S. Eng, C. Chhlonh, H. Ohgaki, "Economic Analysis of a Grid-Connected Rooftop PV System for a Factory in Phnom Penh", Regional Conference in Mechanical Manufacturing Engineering, pp.117-1186, 2022, DOI : 10.1007/978-981-19-1968-8_99
- 10 Ryoichi Hajima, Ryoji Nagai, Keigo Kawase, Hideaki Ohgaki, Heishun Zen, Yasushi Hayakawa, Takeshi Sakai, Yoske Sumitomo, Miho Shimada, and Tsukasa Miyajima,

- “Research and development of attosecond VUV and X-ray sources driven by mid-infrared FEL oscillators”, Optics InfoBase Conference Papers, 2020, EF1A.4
- 11 Zen, H., Ohgaki, H., Hajima, R., “Upgrade of Mid-Infrared Free Electron Laser at Kyoto University by Long Macro-pulse Photocathode Operation of the Existing RF Gun”, International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz, 2020, 2020-November, p.185, 9370754
 - 12 Oshima, Y., Naganawa, T., Zen, H., Kii, T., Ohgaki, H., “Synchronously Pumped Terahertz Parametric Oscillator Driven by Amplified Picosecond Mode-locked Laser”, International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz, 2020, 2020-November, p.916, 9370544
 - 13 T. Lhendup, S. Lhendup, H. Ohgaki, “Analysis of Heating and Cooling Energy Demand of School Buildings”, Proceedings of the 7th International Conference on Advances in Energy Research, pp.685-694 (2020).
 - 14 R. Hajima, R. Nagai, K. Kawase, H. Ohgaki, H. Zen, Y. Hayakawa, T. Sakai, Y. Sumitomo, M. Shimada, T. Miyajima, “Application of infrared FEL oscillators for producing isolated attosecond X-ray pulses via high-harmonic generation in rare gases”, Proceedings of the 39th International Free-Electron Laser Conference, FEL 2019, pp.272-275, online (2020).
 - 15 N. Sei, H. Ogawa, K. Hayakawa, Y. Hayakawa, K. Nogami, T. Sakai, Y. Sumitomo, T. Tanaka, H. Ohgaki, H. Zen, “Coherent edge radiation sources in Linac-based infrared free-electron laser facilities”, Proceedings of the 29th Linear Accelerator Conference, LINAC 2018, pp.154-156 (2020).
 - 16 Konstantin Torgasin ; Toshiteru Kii ; Kenichi Morita ; Kazunobu Nagasaki ; Heishun Zen ; Hideaki Ohgaki ; Kai Masuda, "Thermally Assisted Photoemission of CeB6 at High Temperatures", 2019 International Vacuum Electronics Conference (IVEC); DOI: 10.1109/IVEC.2019.8745191
 - 17 T. Naganawa ; H. Zen ; T. Kii ; H. Ohgaki, "Synchronous Pumping Terahertz Parametric Oscillator Driven by Amplified Picosecond Mode-locked Laser", 2019 44th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), DOI: 10.1109/IRMMW-THz.2019.8873882
 - 18 Heishun Zen, H. Ohgaki, Ryoichi Hajima, "Upgrade Projects of Mid-Infrared Free Electron Laser at Kyoto University for High Peak Power and Ultra-short Pulse Operation", 44th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), 2019; DOI: 10.1109/IRMMW-THz.2019.8874495
 - 19 N. Sei, H. Ogawa, T. Tanaka, Y. Hayakawa, T. Sakai, Y. Sumitomo, Y. Takahashi, K. Hayakawa, K. Nogami, H. Zen, H. Ohgaki, “Research of Coherent Edge Radiation Generated by Electron Beams Oscillating Free-Electron Lasers”, Proceedings of

- IPAC2019, 1772-1774, 2019.6.21
- 20 H. Zen, J. Okumura, S. Tagiri, S. Krainara, S. Suphakul, K. Torgasin, T. Kii, K. Masuda, H. Ohgaki, "Present Status of Infrared FEL Facility at Kyoto University", Proceedings of FEL2017, Pages 162-165 (2018).
 - 21 Siriwan Krainara, Heishun Zen, Toshiteru Kii, Hideaki Ohgaki, Sikharin Suphakul, "DEVELOPMENT OF COMPACT THz COHERENT UNDULATOR RADIATION SOURCE AT KYOTO UNIVERSITY", Proceedings of FEL2017, (2017/8/20-25, Santa Fe, NM USA)
 - 22 H. Zen, T. Nakajima, T. Kii, K. Masuda, and H. Ohgaki, "Pulse Duration Measurement of Pico-second DUV Photocathode Driving Laser by Autocorrelation Technique Using Two-Photon Absorption in Bulk Material", Proceedings of FEL2017 (2017/8/20-25, Santa Fe, NM USA)
 - 23 S. Tagiri, H. Zen, T. Kii, H. Ohgaki, "Study on Second Harmonic Generation in SiC Using Infrared FEL", Proceedings of FEL2017 (2017/8/20-25, Santa Fe, NM USA)
 - 24 J. Okumura, H. Zen, T. Kii, H. Ohgaki, Development of Mid-Infrared Photoacoustic Spectroscopy System for Solid Samples at Kyoto University Free Electron Laser Facility, Proceedings of FEL2017 (2017/8/20-25, Santa Fe, NM USA)
 - 25 S. Krainara, S. Chatani, H. Zen, T. Kii, H. Ohgaki, "Study of the Saturation of Radiation Energy Caused by the Space Charge Effect in a Compact THz Coherent Radiation Source", Proceedings of IPAC18, 4245-4248 (2018/4/29-5/4, Vancouver, BC, Canada).
 - 26 H. Zen, T. Kii, H. Ohgaki, T. Hayakawa, T. Shizuma, J.K. Koga, E. Salehi, M. Fujimoto, M. Katoh, "Generation of 1-MeV Quasi-Monochromatic Gamma-Rays for Precise Measurement of Delbruck Scattering by Laser Compton Scattering", Proceedings of IPAC18, 508-511 (2018/4/29-5/4, Vancouver, BC, Canada).
 - 27 Hiroki Yamashita, Toshiteru Kii, Kai Masuda, Kazunobu Nagasaki, Takeshi Nogi, Hideaki Ohgaki, Konstantin Torgasin, Heishun Zen, "The Influence of Initial Current Density Distribution on the Emittance Reduction", Proceedings of IPAC'17, p.3744-3746 (2017/6/1), Copenhagen, Denmark
 - 28 Norihiro Sei, Ken Hayakawa, Yasushi Hayakawa, Kyoko Nogami, Hiroshi Ogawa, Hideaki Ohgaki, Takeshi Sakai, Toshinari Tanaka, Heishun Zen, MEASUREMENT OF ELECTRON-BUNCH LENGTH USING COHERENT RADIATION IN INFRARED FREE-ELECTRON LASER FACILITIES, Proceedings of IPAC'17, p.288-291 (2017/6/1), Copenhagen, Denmark
 - 29 K. Miura, H. Ohgaki, N. Sato, M. Matsumoto, "Kinetic Analysis of Air Oxidation of Low Rank Coal at 50 to 150 °C using Heat Generation Rate measured by TG-DSC", Proceedings of 2017 ICCS&T (2017, 9/25-29, Beijing, China)

- 30 J. Yan, R. Ashida, H. Ohgaki, K. Ichikawa, K. Miura, "Gasification of Carbon formed in Nano-Space of Iron Ore", Proceedings of 2017 ICCS&T (2017, 9/25-29, Beijin, China)
- 31 J. Wannapeera, R. Ashida, H. Ohgaki, K. Miura, "Production of carbon fiber and activated carbon fiber from the extract produced from the degradative solvent extraction of biomass", Proceedings of 2017 ICCS&T, (2017, 9/25-29, Beijin, China)
- 32 Kouichi Miura, Trairat Muangthong-on, Janewit Wannapeera and Hideaki Ohgaki, "Examination of Rates of Oxidation Reaction and Water Vapor Adsorption at Low Temperatures", 6th International Conference on Sustainable Energy and Environment (SEE 2016 Conference), 2016, Bangkok, Thailand.
- 33 Trairat Muangthong-on, Janewit Wannapeera, Hideaki Ohgaki, and Kouichi Miura, "Effect of Solvent on Degradative Solvent Extraction of Low Rank Coal and Biomass Waste", 6th International Conference on Sustainable Energy and Environment (SEE 2016 Conference), 2016, Bangkok, Thailand
- 34 Trairat Muangthong-on, Janewit Wannapeera, Hideaki Ohgaki, and Kouichi Miura, "Examination of Self-Heating Tendency of Solvent Treated Coal and Biomass using Differential Scanning Calorimetry", 6th International Conference on Sustainable Energy and Environment (SEE 2016 Conference), 2016, Bangkok, Thailand.
- 35 T. Katsurayama, T. Murata, K. Yoshida, H. Zen, K. Hachiya, S. Tagiri, S. Suphakul, K. Torgasin, T. Kii, K. Masuda, H. Ohgaki, "Observation of mode-selective phonon excitation of 6H-SiC by MIR-FEL pump and pico-second probe laser", Proceedings of 2016 41st International Conference on Infrared, Millimeter, and Terahertz waves (IRMMW-THz).
- 36 H. Zen, S. Suphakul, T. Kii, K. Masuda, H. Ohgaki, "Present Status and Future Plan of Infrared FEL facility at Kyoto University", Proceedings of 2016 41st International Conference on Infrared, Millimeter, and Terahertz waves (IRMMW-THz).
- 37 K. Morita, T. Katsurayama, T. Kii, K. Masuda, T. Murata, K. Nagasaki, T. Nogi, H. Ohgaki, S. Suphakul, K. Torgasin, H. Yamashita, H. Zen, "Photoemission Properties of LaB₆ and CeB₆ Under Various Temperature and Incident Photon Energy Conditions" Proceedings of IPAC2016, pp.2088-2090, ISBN 978-3-95450-147-2(2016).
- 38 H. Ohgaki, I. Daito, T. Kii, H. Zen, T. Hayakawa, T. Shizuma, M. Katoh, J. Yamazaki, Y. Taira, H. Toyokawa, "Study on NRF-CT Imaging by Laser Compton Backscattering Gamma-rays in UVSOR", Proceedings of IPAC2016, pp.2007-2010, ISBN 978-3-95450-147-2(2016).
- 39 S. Suphakul, T. Kii, K. Masuda, K. Morita, H. Ohgaki, K. Torgasin, H. Zen, "GENERATION OF SHORT BUNCH ELECTRON BEAM FROM COMPACT ACCELERATOR FOR TERAHERTZ RADIATION", Proceedings of IPAC2016, pp.1757-1759, ISBN 978-3-95450-147-2(2016).

- 40 H. Zen, T. Kii, K. Masuda, K. Morita, T. Murata, T. Nogi, H. Ohgaki, S. Suphakul, K. Torgasin," Feasibility Study of Photocathode Operation of Thermionic RF Gun at KU-FEL", Proceedings of IPAC2016, pp.754-756, ISBN 978-3-95450-147-2(2016).
- 29 K. Miura, R. Ashida, H. Ohgaki, "Gasification Mechanism of Carbon Formed in Unique Nano-space Of Fe₂O₃", 2015 ICCS&T/ACSE, 3134782, 2015
- 30 H. Fujitsuka, T. Muangthong-on, H. Ohgaki, R. Ashida, K. Miura, "Pyrolysis and Gasification Characteristics of Upgraded Products Produced by Degradative Solvent Extraction of Low Rank Coal", International 2015 ICCS&T/ACSE, 3134808, 2015
- 31 M. Rizwan, Y. Uozumi, K. Matsuo, H. Ohgaki, T. Kii, H. Zen, Z. Tsamalaidze, P. Evtoukhovitch, S.Valentin, "Scintillation of Lead Tungstate Crystal Studied With Single-Electron Beam from KUFEL", AIP Conference Proceedings, vol 1659, 40003 (2015).
- 32 T. Murata, H. Zen, T. Katsurayama, T. Nogi, S. Suphakul, K. Torgasin, T. Kii, K. Masuda, H. Ohgaki, K. Yoshida, K. Hachiya, "Development of Phonon Dynamics Measurement System by MIR-FEL and Pico-second Laser", Proceedings of FEL2015, 615-617 (2015), 23rd-28th Aug Daejeon, Korea.
- 33 N. Sei, H. Ogawa, K. Hayakawa, T. Tanaka, Y. Hayakawa, K. Nakao, T. Sakai, K. Nogami, M. Inagaki, H. Ohgaki, H. Zen," Development of Coherent Terahertz Wave Sources Using LEBRA and KU-FEL S-band Linacs" Proceedings of FEL2015, 143-146 (2015), 23rd-28th Aug Daejeon, Korea.
- 34 K. Damminsek, S. Rimjaem, C. Thongbai, S. Suphakul, H. Ohgaki, H. Zen," Electron Beam Properties from a Compact Seeded Terahertz FEL Amplifier at Kyoto University", Proceedings of FEL2015, 85-88(2015), 23rd-28th Aug Daejeon, Korea.
- 35 S. Suphakul, K. Damminsak, H. Zen, T. Kii and H. Ohgaki, "Development of Compact Seeded Terahertz Free-Electron Laser Amplifier System at Kyoto University", 40th International Conference on Infrared, Millimeter, and Terahertz waves (IRMMW-THz), 2015, Pages: 1 - 1, DOI: 10.1109/IRMMW-THz.2015.7327804.
- 36 S. Sikharin, Y. Tsugamura , H. Zen, T. Kii, H. Ohgaki, Q. Jia, "DEVELOPMENT OF COMPACT THZ-FEL SYSTEM AT KYOTO UNIVERSITY", Proceedings of FEL2014, pp.501-504 (2014)
- 37 F. Shishikura, K. Hayakawa, Y. Hayakawa, K. Nakao, M. Inagaki, K. Nogami, T. Sakai, T. Tanaka, H. Zen, T. Kii, H. Ohgaki, T. Sakae," POTENTIAL PHOTOCHEMICAL APPLICATIONS OF THE FREE ELECTRON LASER IRRADIATION TECHNIQUE IN LIVING ORGANISMS", Proceedings of FEL2014, pp.505-508(2014).
- 38 H. Zen, S. Suphakul, T. Kii, H. Ohgaki, R. Kuroda, Y. Taira, "DEVELOPMENT OF PHOTOCACHODE DRIVE LASER SYSTEM FOR RF GUNS IN KU-FEL",

- Proceedings of FEL2014, pp.828-831 (2014).
- 39 H. Zen, K. Okumura, K. Takami, Y. Tsugamura, M. Inukai, K. Mishima, H. Negm, K. Torgasin, K. Yoshida T. Kii, K. Masuda, H. Ohgaki, "STABILIZATION OF MID-INFRARED FEL BY FEEDBACK CONTROLS", Proceedings of IPAC2014, 1745-1747(2014).
 - 40 R. Hajima, C.T. Angell, I. Daito, T. Hayakawa, M. Kando, T. Shizuma, H. Ohgaki, "Generation of Laser Compton Scattered Gamma-rays from a 150-MeV Microtron", Proceedings of the IPAC2013, p.3645 (2013).
 - 41 T. Hori, T. Kii, R. Kinjo, H. Ohgaki, M. Omer, H. Zen, I. Daito, R. Hajima, T. Hayakawa, M. Kando, H. Kotaki, F. Sakai, "Concepts of 220 MeV Racetrack Microtron for Non-destructive Nuclear Material Detection System", Proceedings of the IPAC2013, p.3651 (2013).
 - 42 H. Ohgaki, Y.W. Choi, H. Imon, T. Kii, R. Kinjo, T. Konstantin, K. Masuda, H. Negm, K. Okumura, M. Omer, S. Shibata, K. Shimahashi, K. Yoshida, H. Zen, " Development of Beam Position Feedback Control System in KU-FEL", Proceedings of the IPAC2013, p.2968 (2013).
 - 43 H. Zen, Y.W. Choi, H. Imon, M. Inukai, T. Kii, R. Kinjo, T. Konstantin, K. Masuda, K. Mishima, H. Negm, H. Ohgaki, K. Okumura, M. Omer, S. Shibata, K. Shimahashi, K. Yoshida, "Present Status of Mid-infrared Free Electron Laser Facility in Kyoto University", Proceedings of the IPAC2013, p1190 (2013).
 - 44 T. Konstantin, Y.W. Choi, T. Kii, R. Kinjo, K. Masuda, M. Mishima, K. Nagasaki, H. Negm, H. Ohgaki, K. Okumura, M. Omer, S. Shibata, K. Shimahashi, K. Yoshida, H. Zen, "Cold Test of the Coaxial Cavity for Thermionic Triode Type RF Gun", Proceedings of the IPAC2013, p324 (2013).
 - 45 H. Zen, M. Inukai, T. Kii, R. Kinjo, K. Masuda, K. Mishima, H. Negm, H. Ohgaki, K. Okumura, M. Omer, K. Torgasin, K. Yoshida, "Present Status of Kyoto University Free Electron Laser", Proceedings of the FEL2013, p711 (2013).
 - 46 K. Okumura, M. Inukai, T. Kii, T. Konstantin, K. Masuda, K. Mishima, H. Negm, H. Ohgaki, M. Omer, Y. Tsugamura, K. Yoshida, H. Zen, "Study on the fluctuation of electron beam position in KU-FEL", Proceedings of the FEL2013, p602 (2013).
 - 47 M. Mishima, M. Inukai, T. Kii, K. Masuda, H. Negm, H. Ohgaki, K. Okumura, M. Omer, K. Torgasin, K. Yoshida, H. Zen, "Numerical Study on Electron Beam Properties in Triode Type Thermionic RF Gun" Proceeding of the FEL2013, p344 (2013).
 - 48 Omer, Mohamed ; Negm, Hani ; Heishun Zen ; Daito, Izuru ; Kii, Toshiteru ; Masuda, Kai ; Ohgaki, Hideaki ; Hajima, Ryoichi ; Shizuma, Toshiyuki ; Hayakawa, Takehito ; Kikuzawa, Nobuhiro, "Feasibility of LaBr₃(Ce) detector to measure nuclear resonance

- fluorescence from special nuclear materials", Proceedings of 3rd International Conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications (ANIMMA), pp. 1- 4 (2013), Digital Object Identifier: 10.1109/ANIMMA.2013.6727969.
- 49 Negm, Hani; Omer, Mohamed ; Heishun Zen ; Daito, Izuru ; Kii, Toshiteru ; Masuda, Kai ; Hori, Toshitada ; Ohgaki, Hideaki ; Hajima, Ryoichi ; Hayakawa, Takehito ; Shizuma, Toshiyuki ; Kikuzawa, Nobuhiro ; Toyokawa, Hiroyuki, "Monte Carlo simulation of response function for LaBr3(Ce) detector and its internal-activity", Proceedings of 3rd International Conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications (ANIMMA), pp. 1-5, Digital Object Identifier: 10.1109/ANIMMA.2013.6727960
- 50 T. Kii, M. Omer, H. Negm, Y.W. Choi , R. Kinjo, K. Yoshida, T. Konstantin, N. Kimura, K. Ishida, H. Imon, M. Shibata, K. Shimahashi, T. Komai, K. Okumura, H. Zen, K. Masuda, T. Hori, H. Ohgaki, "Design Study for Direction Variable Compton Scattering Gamma Ray", Journal of Physics: Conference Series 425 (2013) 192020
- 51 Kyohei. Yoshida, Heishun Zen, Kensuke Okumura, Kyohei Shimahashi, Marie Shibata, Takuya Komai, Hidekazu Imon, Hani Negm, Mohamed Omer, Yong-Woon Choi, Ryota Kinjo, Toshiteru. Kii, Kai. Masuda, and Hideaki Ohgaki," Observation of high harmonic generation from 6H-SiC irradiated by MIR-FEL", Proceedings of FEL2012
- 52 Zen, Heishun ; Shimahashi, Kyohei ; Shibata, M. ; Negm, H. ; Konstantin, T. ; Yoshida, K. ; Omer, M. ; Kinjo, Ryota ; Choi, Y. W. ; Kii, Toshiteru ; Masuda, K. ; Ohgaki, Hideaki "Status of mid-infrared Free-Electron Laser facility in Kyoto University" 37th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), 2012
- 53 Shimahashi, Kyohei; Zen, Heishun; Shibata, M.; Negm, H.; Yoshida, K.; Omer, M.; Choi, Y. W.; Kinjo, Ryota; Masuda, K.; Kii, Toshiteru; Ohgaki, Hideaki "Numerical evaluation of THz FEL using photocathode RF gun in KU-FEL", 37th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz), 2012
- 54 I. Daito, R. Hajima, T. Hayakawa, Y. Hayashi, M. Kando, H. Kotaki, T. Shizuma, H. Ohgaki," High Flux Laser-Compton Scattered Gamma-ray Source by Compressed Nd:YAG Laser Pulse" ,Proceedings of the 2012 International Particle Accelerator Conference
- 55 Toshitada Hori, Ryota Kinjo, Toshiteru Kii, Hideaki Ohgaki, Heishun Zen, Mohamed Omer, Izuru Daito, Hideyuki Kotaki, Masaki Kando, Ryoichi Hajima, Takehito Hayakawa, Fumio Sakai," Racetrack Microtron for Nondestructive Nuclear Material Detection System", Proceedings of the 2012 International Particle Accelerator Conference

- 56 Hani Negm, Mohamed Omer, Ryota Kinjo, YongWoon Choi, Kyohei Yoshida, Torgasin Konstantin, Marie Shibata, Kyohei Shimahashi, Hidekazu Imon, Heishun Zen, Toshitada Hori, Toshiteru Kii, Kai Msuda, and Hideaki Ohgaki, "Monte Carlo Calculations of γ -Rays Angular Distribution Scattering from 11B in (γ, γ) Interaction", Zero-Cabon Energy Kyoto 2012
- 57 Mohamed Omer, Hani Negm, Ryota Kinjo, Yong-Woon Choi, Kyohei Yoshida, Torgasin Konstantin, Marie Shibata, Kyohei Shimahashi, Hidekazu Imon, Heishun Zen, toshitada Hori, Toshiteru Kii, Kai Masuda and Hideaki Ohgaki," Analysis of SNIP Algorithm for Background Estimation in Spectra Measured with LaBr3:Ce Detectors", Zero-Cabon Energy Kyoto 2012
- 58 Kyohei Yoshida, Heishun Zen, Kensuke Okumura, Kyohei Shimahashi, Marie Shibata, Takuya Komai, Hidekazu Imon, Hani Negm, Mohamed Omer, Yong-Woon Choi, Ryota Kinjo, Toshiteru Kii, Kai Masuda, and Hideaki Ohgaki," Optimization of the new designed FEL beam transport line", Zero-Cabon Energy Kyoto 2012
- 59 R. Hajima, T. Shizuma, T. Hayakawa, N. Kikuzawa, I. Daito, M. Kando, H. Kotaki, Y. Hayashi, T. Hori, T. Kii, H. Ohgaki," COMPACT GAMMA-RAY SOURCE FOR NON-DESTRUCTIVE DETECTION OF NUCLEAR MATERIAL IN CARGO", The second International Particle Accelerator Conference (IPAC-11), pp.3663-3665.
- 60 Keiichi Ishida, M.A. Bakr, Yong-Woon Choi, Ryota Kinjo, M. Omer, Kyohei Yoshida, Naoki Kimura, Takuya Komai, Marie Shibata, Kyohei Shimahashi, Hidekazu Imon, Heishun Zen, Taro Sonobe, Kai Masuda, Toshiteru Kii, Hideaki Ohgaki, "Evaluation of Lasing Range with a 1.8 m Undulator in KU-FEL," Proceedings of FEL2011
- 61 Naoki Kimura, Toshiteru Kii, Ryota Kinjo, M.A. Bakr, Y.W. Choi, M. Omer, Kyohei Yoshida, Keiich Ishida, Takuya Komai, Marie Shibata, Kyohei Shimahashi, Hidekazu Imon, Taro Sonobe, Heishun Zen, Kai Masuda, Hideaki Ohgaki , IMPROVEMENT OF TERMINATION FIELD OF BULK HTSC STAGGERED ARRAY UNDULATOR " proceedings of 33rd International Free Electron Laser Conference, 22-26 August 2011 Shanghai, China, MOPC02.
- 62 Mahmoud Bakr, R. Kinjo, Y.W. Choi, M. Omer, K. Yoshida, K. Ishida, N. Kimura, T. Komai, M. Shibata, K. Shimahashi, H. Imon, T. Sonobe, H. Zen, M. Kawai, T. Kii, K. Masuda, and H. Ohgaki, "Assessment of Thermionic Emission Properties and Back Bombardment Effects for LaB6 and CeB6", 33rd Free Electron Laser Conference, Shanghai, China, August 2011.
- 63 Mohamed Omer, M.A. Bakr, Ryota Kinjo, Y.W. Choi, Kyohei Yoshida, Naoki Kimura, Keiichi Ishida, Takuya Komai, Marie Shibata, Kyohei Shimahashi, Hidekazu Imon, Taro Sonobe, Toshiteru Kii, Kai Masuda, Hideaki Ohgaki, Ryoichi Hajima, Takehito Hayakawa,

- Toshiyuki Shizuma, Hiroyuki Toyokawa, "Assessment of LaBr₃(Ce) Scintillators System for Measuring Nuclear Resonance Florescence Excitations near 2 MeV", Conference Record, 2011 IEEE Nuclear Science Symposium, NP5.S-98, 1627-1630, 2012
- 64 T. Kii, M. Omer, T. Hori, K. Masuda, H. Ohgaki, H. Toyokawa, R. Hajima, T. Hayakawa, T. Shizuma, M. Kando, Misawa, C. Pyeon, "DESIGN STUDY OF A NUCLEAR MATERIAL DETECTION SYSTEM BASED ON A QUASI MONOCHROMATIC GAMMA RAY GENERATOR AND A NUCLEAR RESONANCE FLUORESCENCE GAMMA RAY DETECTION SYSTEM", The second International Particle Accelerator Conference (IPAC-11), pp.3666-3668.
- 65 Toshiyuki Shizuma, Takehito Hayakawa, Hideaki Ohgaki, Hiroyuki Toyokawa and Tetsuro Komatsubara, "Nuclear Photon Scattering and its Application to Nuclear Physics Investigation", AIP Conference Proceedings 1465, 231 (2012); <https://doi.org/10.1063/1.4737564>
- 66 Yong-Woon Choi, Heishun Zen, Keiichi Ishida, Naoki Kimura, Satoshi Ueda, Kyohei Yoshida, Masato Takasaki, Ryota Kinjo, Mahmoud Bakr, Taro Sonobe, Kai Masuda, Toshiteru Kii, Hideaki Ohgaki, "Beam stabilization by using BPM in KU-FEL", Proc. Zero Carbon Energy Kyoto 2010, Springer
- 67 T. Sonobe, T. Mitani, K. Hachiya, N. Shinohara, and H. Ohgaki, "Plasma Emission and Surface Reduction of Metal Oxides by Microwave Electric-field Heating", Renewable Energy 2010, Yokohama, 27 June - 2 July, 2010
- 68 T. Sonobe, K. Yoshida, K. Hachiya, T. Kii, and H. Ohgaki, "Microwave/Infrared-laser processing of Material for Solar Energy", Proc. Zero Carbon Energy Kyoto 2010 (in Press), Springer
- 69 R. Kinjo, T. Kii, M. A. Bakr, Y. W. Choi, K. Yoshida, S. Ueda, M. Takasaki, N. Kimura, K. Ishida, T. Sonobe, K. Masuda, K. Nagasaki, H. Ohgaki, "STUDY OF PERFORMANCE OF BULK HTSC STAGGERED ARRAY UNDULATOR AT LOW TEMPERATURE", FEL conference 2010 in Sweden
- 70 Masato Takasaki, Kai Masuda, Keiichi Ishida, Naoki Kimura, Satoshi Ueda, Kyouhei Yoshida, Ryota Kinjo, Yong-Woon Choi, Mahmoud. A. Bakr, Taro Sonobe, Toshiteru Kii, Kazunobu Nagasaki, Hideaki Ohgaki, "COLD TESTING OF A COAXIAL RF CAVITY FOR THERMIONIC TRIODE RF GUN", FEL conference 2010 in Sweden
- 71 R. Kinjo, T. Kii, M. A. Bakr, Y. W. Choi, K. Yoshida, S. Ueda, M. Takasaki, T. Sonobe, K. Masuda, K. Nagasaki, H. Ohgaki, "END FIELD TERMINATION FOR BULK HTSC STAGGERED ARRAY UNDULATOR", Proceedings of IPAC10, pp.3156-3158(2010).
- 72 H. Zen, M. A. Bakr, K. Higashimura, T. Kii, R. Kinjo, K. Masuda, K. Nagasaki and H. Ohgaki, "CAVITY DETUNING METHOD TO COMPENSATE BEAM ENERGY

- DECREMENT IN THERMIONIC RF GUN DUE TO BACKBOMBARDMENT EFFECT", Proceedings of IPAC10, pp.1725-1727(2010).
- 73 Toshiteru Kii, Mahmoud Abdel Aziem Bakr, Yong-Woon Choi, Ryota Kinjo, Masato Takasaki, Satoshi Ueda, Kyohei Yoshida, Taro Sonobe, Kai Masuda, and Hideaki Ohgaki, "STATUS OF THE MIR FEL FACILITY IN KYOTO UNIVERSITY", Proceedings of IPAC10, pp.2203-2205(2010).
- 74 Mahmoud Bakr, K. Yoshida, K. Higashimura, S. Ueda, M. Takasaki, R. Kinjo, Y.W. Choi, H. Zen, T. Sonobe, T. Kii, K. Masuda and H. Ohgaki, "Comparison between Hexaboride Materials for Thermionic Cathode RF Gun", Proceedings of IPAC10, pp.1782-1784(2010).
- 75 Mahmoud Bakr, H. Zen, K. Yoshida, S. Ueda, M. Takasaki, K. Ishida, N. Kimura, R. Kinjo, Y. W. Choi, T. Sonobe, T. Kii, K. Masuda and H. Ohgaki, "Analysis of Transient Response of RF Gun Cavity due to ?Back-Bombardment Effect in KU-FEL", (19-21)-8-2010 2st GCOE inter. Sympo. ZERO CARBON ENERGY KYOTO 2010
- 76 H. Toyokawa, H. Ohgaki, T. Hayakawa, T. Kii, T. Shizuma, R. Hajima, N. Kikuzawa, K. Masuda, F. Kitatani, and H. Harada, "Two-dimensional Imaging of Heavily Shielded Materials by NRF with Laser-Compton photon Beam", Conference Record of the IEEE Nuclear Science Symposium 2010, (2010).
- 77 Kii, T., Masuda, K., Ohgaki, H., Harada, H., Kitatani, F., Hayakawa, T., Shizuma, T., Kikuzawa, N., Hajima, R., Nishimori, N., Toyokawa, H., " Performance of the LaBr₃(Ce) scintillator for nuclear resonance fluorescence experiment", IEEE Nuclear Science Symposium Conference Record 2009, Article number 5402298, Pages 1490-1492(2009).
- 78 R. Kinjo, M. A. Bakr, K. Higashimura, T. Kii, K. Masuda, K. Nagasaki, H. Ohgaki, T. Sonobe, S. Ueda, K. Yoshida, H. Zen," Numerical Evaluation of Bulk HTSC Staggered Array Undulator by Bean Model", Proc. of the FEL09, Liverpool, England, pp.746-749 (2009).
- 79 T. Kii, M. A. Bakr, K. Higashimura, R. Kinjo, K. Masuda, H. Ohgaki, T. Sonobe, S. Ueda, K. Yoshida, H. Zen,"Slippage Effect on the Table-Top THz FEL Amplifier Project in Kyoto University", Proc. of the FEL09, Liverpool, England, pp.390-393 (2009).
- 80 K. Masuda, T. Kii, H. Ohgaki, T. Shiiyama, K. Kanno, E. Tanabe," Development of a Thermionic Triode RF Gun", Proc. of the FEL09, Liverpool, England, pp.281-284 (2009).
- 81 H. Ohgaki, T. Kii, K. Masuda, M. A. Bakr, K. Higashimura, R. Kinjo, K. Yoshida, S. Ueda , T. Sonobe, H. Zen , and Y. U. Jeong," STATUS OF THE MIR-FEL FACILITY IN KYOTO UNIVERSITY", Proc. of the FEL09, Liverpool, England, pp.572-575 (2009).
- 82 T. Sonobe and H. Ohgaki, "Preliminary Experiments for the Development of Solid Material Evaluation using Mid-Infrared FREE Electron Laser", 7th Eco-Energy and Materials Science and Engineering Symposium, Chiang-Mai, Thailand (2009)

- 83 Kii, T., Higashimura, K., Bakr, M.A., Kinjo, R., Yoshida, K., Ueda, S., Sonobe, T., Masuda, K., Ohgaki, H.," Concept of a novel tabletop THz FEL amplifier", IRMMW-THz 2009, Article number 5325607.
- 84 Higashimura, K., Kii, T., Ueda, S., Yoshida, K., Kinjo, R., Bakr, M.A., Sonobe, T., Masuda, K., Ohgaki, H.," Numerical evaluation of THz light by using tabletop FEL amplifier", IRMMW-THz 2009 , Article number 5325589.
- 85 T. Sonobe, M. Bakr, K. Yoshida, K. Higashimura, R. Kinjo, K. Hachiya, T. Kii, K. Masuda, and H. Ohgaki, "Investigation of the Effects of MIR-FEL Irradiation on the Photoluminescence of Titanium Dioxides", 5th IWIMS, Banff, Canada, 13-17 September 2009
- 86 T. Sonobe, M. Bakr, K. Yoshida, K. Higashimura, R. Kinjo, K. Hachiya, T. Kii, K. Masuda, and H. Ohgaki, "Investigation of the Effects of MIR-FEL Irradiation on the Optical Properties in Titanium Dioxides", 1st GCOE inter. Sympo. ZERO CARBON ENERGY KYOTO 2009, Kyoto, Japan, 20 - 22 August 2009 (in press)
- 87 Y. Iwasaki, T. Kaneyasu, S. Koda, Y. Takabayash, H. Ohgaki," ANALYSIS OF THE ORBIT RESPONSE MATRIX AND CORRECTION OF BETA FUNCTION AT THE SAGA LIGHT SOURCE", Proceedings of PAC09, Vancouver, BC, Canada, pp.1269-1271(2009).
- 88 T. Kii , R. Kinjo, M.A. Bakr, T. Sonobe, K. Higashimura, K. Masuda, H. Ohgaki, K. Yoshida, H. Zen," GENERATION OF PERIODIC MAGNETIC FIELD USING BULK HIGH-TC SUPERCONDUCTOR", Proceedings of PAC09, Vancouver, BC, Canada, pp.2435-2437(2009).
- 89 Mahmoud A. Bakr, K. Yoshida, K. Higashimura, R. Kinjo, H. Zen, T. Kii, T. Sonobe, K. Masuda, H. Ohgaki, Y. U. Jeong," LASING OF MIR-FEL AND CONSTRUCTION OF USER BEAMLINE AT KYOTO UNIVERSITY", Proceedings of PAC09, Vancouver, BC, Canada, pp.2291-2293(2009).
- 90 H.Ohgaki, "Quantum Beams for Advanced Energy Sciences in Japan", WREC 2009, Bangkok, Thailand, 18-23 May 2009.
- 91 Fumihiko Yamane, Misaki Matsumura, Hideaki Ohgaki and Kota Asano, "The Effect of Construction of Nuclear Fuel Cycle Facilities on Residual Land Price : The Case of Mutsu-Ogawara Area in Japan", WREC 2009, Bangkok, Thailand, 18-23 May 2009.
- 92 T. Sonobe, M. Bakr, K. Yoshida, K. Higashimura, R. Kinjo, K. Hachiya, T. Kii, K. Masuda, and H. Ohgaki, "Optical Properties of the Microwave-Treated TiO₂ by Quantum Radiation Technology", WREC 2009, Bangkok, Thailand, 18-23 May 2009.
- 93 T. Kii, K. Higashimura, H. Zen, R. Kinjo, K. Masuda, H. Ohgaki, R. Kuroda, Y.U. Jeong," DESIGN STUDY ON THz SEEDED FEL USING PHOTOCATHODE RF GUN AND

- SHORT PERIOD UNDULATOR", Proceedings of FEL08, Gyeongju, Korea, pp.196-199(2008).
- 94 H. Ohgaki, T. Kii, K. Masuda, K. Higashimura, R. Kinjo, H. Zen, K. Yoshikawa, T. Yamazaki, Y. U. Jeong," FIRST LASING OF MIR-FEL AT KYOTO UNIVERSITY", Proceedings of FEL08, Gyeongju, Korea, pp.4-7(2008).
- 95 R. Kinjo, T. Kii, H. Zen, K. Higashimura, K. Masuda, K. Nagasaki, H. Ohgaki, Y. U. Jeong," A BULK HIGH-TC SUPERCONDUCTOR STAGGERED ARRAY UNDULATOR", Proceedings of FEL08, Gyeongju, Korea, pp.473-476(2008).
- 96 Heishun Zen, Keisuke Higashimura, Toshiteru Kii, Ryota Kinjo, Kai Masuda, Hideaki Ohgaki "BEAM LOADING COMPENSATION BY RF DETUNING IN A THERMIONIC RF GUN", Proceedings of FEL08, Gyeongju, Korea, pp.367-370(2008).
- 97 Toshiteru Kii, Hideaki Ohgaki, Kai Masuda, Heishun Zen, Satoshi Sasaki, Takumi Shiiyama and Tetsuo Yamazaki, "DEVELOPMENT OF IR-FEL FACILITY FOR ENERGY SCIENCE IN KYOTO UNIVERSITY", ANS Proc. of AccApp07 (2007).
- 98 T. Shiiyama, K. Kanno, K. Masuda, H. Zen, S. Sasaki, T. Kii, H. Ohgaki, E. Tanabe, "DESIGN STUDY OF A TRIODE-TYPE THERMIONIC RF GUN" , Proc. of FEL2007, pp.398-401 (2007).
- 99 H. Zen, T. Kii, K. Masuda, H. Ohgaki, S. Sasaki, T. Shiiyama, "ELECTRON BEAM DIAGNOSTICS FOR FIRST LASING OF KU-FEL" , Proc. of FEL2007, pp.402-405 (2007).
- 100 Satoshi Sasaki, Heishun Zen, Takumi Shiiyama, Toshiteru Kii, Kai Masuda, Hideaki Ohgaki, " Present Status of the KU-FEL in Kyoto University" , Proc. of FEL2007, pp.394-397 (2007).
- 101 Toshiteru Kii, Hideaki Ohgaki, Kai Masuda, Satoshi Sasaki, Takumi Shiiyama, Heishun Zen, "BEAM PROPERTIES FROM S-BAND ENERGY COMPENSATED THERMIONIC RF GUN AND LINAC FOR KU-FEL" , Proc. of FEL2007, pp.386-389 (2007).
- 102 Hideaki. Ohgaki, Toshiteru Kii, Kai Masuda, Satoshi Sasaki, Takumi Shiiyama, Heishun Zen, Ryunosuke Kuroda, Masao Kuriki, Nobuhiro Terunuma, Junji Urakawa, Yoshio Kamiya, Masakazu Washio, "NUMERICAL EVALUATION OF OSCILLATOR FEL WITH MULTI-BUNCH PHOTO-CATHODE RF-GUN IN KYOTO UNIVERSITY",Proc. of FEL2007, Novosibirsk, Russia, August 27-31, 2007, pp.390-393, (2007).
- 103 H. Ohgaki, T. Kii, K. Masuda, T. Yamazaki, K. Yoshikawa, H. Zen, "BEAM CHARGE FEEDBACK SYSTEM FOR THERMIONIC RF GUN", Proc. of PAC 2007, pp.254-256 (2007).
- 104 H. Ohgaki, Y. Iwasaki, S. Koda, Y. Takabayashi, K. Yoshida, T. Tomimasu, "GLOBAL

- COD CORRECTION OF SAGA-LS STORAGE RING", Proc. of PAC 2007, pp.3327-3329 (2007).
- 105 H. Toyokawa, R. Kuroda, H. Ohgaki, "W-BAND ELECTROMAGNETIC WAVE UNDULATOR FOR AIST 800 MEV ELECTRON STORAGE RING TERAS", Proc. of PAC 2007, pp.1025-1027 (2007).
- 106 K. Masuda, K. Kusakame, T. Shiiyama, H. Zen, T. Kii, H. Ohgaki, K. Yoshikawa, T. Yamazaki," Design Study of RF Triode Structure for the KU-FEL Thermionic RF Gun", Proc. of the FEL2006, pp.656-659 (2006).
- 107 H. Zen, H. Ohgaki, K. Masuda, T. Kii, T. Shiiyama, S. Sasaki, N. Okawachi, M. Nakano, K. Yoshikawa, T. Yamazaki," EXPERIMENTAL STUDY ON EFFECT OF ENERGY DISTRIBUTION ON TRANSVERSE PHASE SPACE TOMOGRAPHY", Proc. of the FEL2006, pp.668-671 (2006).
- 108 N. Okawachi, M. Nakano, H. Zen, T. Kii, K. Masuda, H. Ohgaki, K. Yoshikawa, T. Yamazaki, "PRODUCTION OF ELECTRON BEAM WITH CONSTANT ENERGY BY CONTROLLING INPUT POWER INTO A THERMIONIC RF GUN", Proc. of the FEL2006, pp.664-667 (2006).
- 109 M. Nakano, N. Okawachi, H. Zen, T. Kii, K. Masuda, H. Ohgaki, K. Yoshikawa, T. Yamazaki, "MAGNETIC FIELD MEASUREMENT OF UNDULATOR IN KU-FEL" Proc. of the FEL2006, pp.660-663 (2006).
- 110 T. Kii, H. Zen, N. Okawachi, M. Nakano, K. Masuda, H. Ohgaki, K. Yoshikawa, T. Yamazaki," DESIGN STUDY ON HIGH- TC SUPERCONDUCTING MICRO-UNDULATOR", Proc. of the FEL2006, pp.653-655 (2006).
- 111 H. Ohgaki, Masatsugu Nakano, Norihito Ohkawachi, Zen Heishun, Toshiteru Kii, Kai Masuda, Kiyoshi Yoshikawa, Tetsuo Yamazaki, "Development of IR-FEL facility for Sustainable Science in Kyoto University", Proceedings of the 2nd Joint International Conference on SEE2006, A-033-1-6 (2006).
- 112 T. Tomimasu, S. Koda, Y. Takabayashi, K. Yoshida, H. Toyokawa, H. Ohgaki, Y. Iwasaki, "Commissioning of SAGA Ligh Source", Proc. of the PAC2005, 4021-4023 (2005).
- 113 S. Koda, Y. Iwasaki, T. Okajima, H. Setoyama, Y. Takabayashi, T. Tomimasu, K. Yoshida, H. Ohgaki, M. Torikoshi," Feasibility Study on Introducing a Superconducting Wiggler on Saga Light Source", Proc. of the PAC2005, 1021-1023 (2005).
- 114 Y. Iwasaki, S. Koda, T. Okajima, H. Setoyama, Y. Takabayashi, T. Tomimasu, K. Yoshida, H. Ohgaki," The Injection System of SAGA Ligh Source", Proc. of the PAC2005, 3007-3009 (2005).
- 115 H. Zen, H. Ohgaki, K. Masuda, T. Fukui, K. Kusakame, Y. Nakai, T. Kii, T. Yamazaki," ISSUES ON THE TRANSVERSE PHASE SPACE TOMOGRAPHY", Proceedings of

- 36th ICFA Advanced Beam Dynamics Workshop, 127-130 (2005).
- 116 H. Zen, T. Fukui, T. Kii, K. Kusakame, K. Masuda, Y. Nakai, H. Ohgaki, T. Yamazaki, K. Yoshikawa, "Quantitative Evaluation of Transverse Phase Space Tomography", Proceedings of the 27th Free Electron Laser Conference, 592-595 (2005).
- 117 K. Kusakame, T. Fukui, T. Kii, K. Masuda, Y. Nakai, H. Ohgaki, T. Yamazaki, K. Yoshikawa, H. Zen, "Particle Simulations of a Thermionic RF Gun with Gridded Triode Structure for Reduction of Back-Bombardment", Proceedings of the 27th Free Electron Laser Conference, 588-591 (2005).
- 118 T. Kii, T. Fukui, K. Kusakame, K. Masuda, Y. Nakai, H. Ohgaki, T. Yamazaki, K. Yoshikawa, H. Zen, "Electron Beam Energy Compensation by Controlling RF Pulse Shape", Proceedings of the 27th Free Electron Laser Conference, 584-587 (2005).
- 119 T. Fukui, T. Kii, K. Kusakame, K. Masuda, Y. Nakai, H. Ohgaki, T. Yamazaki, K. Yoshikawa, H. Zen, "Numerical Study on the Undulator in KU-FEL", Proceedings of the 27th Free Electron Laser Conference, 195-198 (2005).
- 120 H. Ohgaki, Y. Iwasaki, S. Koda, Y. Takabayashi, K. Yoshida, T. Tomimasu, H. Toyokawa, "SAGA-LS CONTROL SYSTEM USING LABVIEW-ACTIVEX CA", Proc. of the PCaPAC2005 (2005)
- 121 H. Ohgaki, Y. Iwasaki, S. Koda, Y. Takabayashi, K. Yoshida, T. Tomimasu, H. Toyokawa, "PC-LABVIEW BASED CONTROL SYSTEM IN SAGA-LS", Proc. of the PAC2005, pp. 3976-3978(2005).
- 122 H. Ohgaki, M.E. Couprie, G. Kulipanov, "SUMMARY OF WORKING GROUP 3B FEL-RADIATION SOURCES", Proc. of the 36th ICFA Advanced Beam Dynamics Workshop "NANOBEAM2005" (2005).
- 123 T. Hirade, H. Toyokawa, T. Ohdaira, R. Suzuki and H. Ohgaki, "Positron annihilation methods by g-rays produced in laser-induced Compton-backscattering", Mat. Sci. Forum Vols. 445-446, pp.474-476(2004).
- 124 H. Ohgaki, T. Kii, K. Masuda, K. Yoshikawa, T. Yamazaki, "IR FEL FACILITY FOR ADVANCED ENERGY SCIENCE", Proc. of the Joint International Conference on SEE, (2004).
- 125 T. Kii, K. Hayakawa, S. Murakami, H. Zen, K. Masuda, H. Ohgaki, K. Yoshikawa, T. Yamazaki, "RENEWAL OF KU-FEL FACILITY", Proceedings of the 26th International Free Electron Laser Conference, pp.447-449 (2004).
- 126 T. Kii, K. Hayakawa, K. Masuda, S. Murakami, H. Ohgaki, T. Yamazaki, K. Yoshikawa, H. Zen, "REDUCING BACK-BOMBARDMENT EFFECT USING THERMIONIC CATHODE IN IAE RF GUN", Proceedings of the 26th International Free Electron Laser Conference, pp.443-445 (2004).

- 127 K. Masuda, K. Hayakawa, T. Kii, S. Murakami, H. Ohgaki, T. Yamazaki, K. Yoshikawa, H. Zen, "BEAM PROPERTY MEASUREMENTS ON THE KU-FEL LINAC", Proceedings of the 26th International Free Electron Laser Conference, pp.450-453 (2004).
- 128 H. Ohgaki, K. Hayakawa, S. Murakami, H. Zen, T. Kii, K. Masuda, K. Yoshikawa, T. Yamazaki, "UPGRADE DESIGN OF KU-FEL DRIVER LINAC USING PHOTO-CATHODE RF-GUN", Proceedings of the 26th International Free Electron Laser Conference, pp.454-457 (2004).
- 129 H. Utsunomiya, K.Y. Hara, S. Goko, H. Akimune, T. Yamagata, M. Ohta, H. Ohgaki, H. Toyokawa, T. Hayakawa, T. Shizuma, Y. -W. Lui, P. Mohr, H. Ohkuma, H. Yonehara, K. Soutome, M. Arnould, "Photoreaction reaction studies at synchrotron radiation facilities in Japan", Proceedings of the The 8th International Conference on Clustering Aspects of Nuclear Structure and Dynamics (2003).
- 130 H. Toyokawa, L. Merminga, H. Ohgaki, H. Ogawa, K. Yamada, "Gamma-Ray Computerized Tomography Using 10 MeV Laser-Compton Photon Beam", Proc. of the PAC2003, 713-715 (2003).
- 131 T. Tomimasu, Y. Iwasaki, H. Ohgaki, H. Toyokawa, M. Yasumoto, Y. Yamatsu, T. Kitsuka, Y. Hashiguchi, Y. Ochiai, "The Saga Synchrotron Light Source in 2003", Proc. of the APAC2003, 902-904 (2003).
- 132 Y. Iwasaki, S. Koda, T. Tomimasu, H. Ohgaki, H. Toyokawa, M. Yasumoto, Y. Yamatsu, T. Kitsuka, Y. Hashiguchi, Y. Ochiai, "LATTICE DESIGN OF SAGA SYNCHROTRON LIGHT SOURCE", Proc. of the PAC2003, 3270-3272 (2003).
- 133 H. Ohgaki, T. Tomimasu, S. Koda, Y. Iwasaki, H. Toyokawa, K. Kudo, "DESIGN OF CONTROL SYSTEM FOR SAGA SYNCHROTRON LIGHT SOURCE", Proc. of the PAC2003, pp.2387-2389 (2003).
- 134 T. Yamazaki, H. Ohgaki, K. Masuda, T. Kii, S. Amasaki, T. Horii, H. Toku, K. Yoshikawa, "KU-FEL, A compact and economical S-band linac based FEL for advanced energy science", Proc. of the 23rd International Free Electron Lasers Conference, and the 8th FEL User Workshop, pp.13-14(2002).
- 135 K. Kudo, N. Takeda, H. Ohgaki, H. Toyokawa, "A Laser Compton-Scattered Photon Source for Potential Calibration of Gamma-Ray Detectors in the Energy Range from 2 to 22 MeV", Authorized Reprint from Standard Technical Publication 1398 from American Society for Testing and Materials, 721-728 (2001).
- 136 N. Takeda, K. Kudo, S. Koshikawa, H. Ohgaki, H. Toyokawa, T. Sugita, "Response Function of NE213 Liquid Scintillation Detector Simulated by EGS4/PRESTA Code for a Collimated γ -ray Beam", Proceedings of the Second International Workshop on EGS, pp.168-175 (2001).

- 137 N. Sei, K. Yamada, H. Ohgaki, H. Ogawa, M. Yasumoto, T. Mikado," A STUDY OF BROAD-BAND FREE ELECTRON LASER WITH A COMPACT STORAGE RING NIJI-IV", Proc. of the APAC2001, pp.337-339 (2001).
- 138 T. Tomimasu, H. Ohgaki, H. Toyokawa, M. Yasumoto, Y. Iwasaki, Y. Yamatsu, T. Koga, Y. Hashiguchi, Y. Ochiai, "The Saga Synchrotron Light Source", Proc. of the APAC2001, pp.340-342 (2001).
- 139 H. Utsunomiya, H. Akimune, M. Ohta, M. Fujishiro, H. Toyokawa, H. Ohgaki, "Photoneutron Cross Section Measurements on ^9Be Using Laser-Induced Compton-Backscattered Photons", AIP Proceedings, Nuclear Physics at Storage Rings, 512, pp. 365-367 (2000).
- 140 H. Utsunomiya, H. Akimune, M. Ohta, M. Fujishiro, H. Toyokawa, H. Ohgaki," Photoneutron Cross Section Measurements on ^9Be Using Laser-Induced Compton-Backscattered Photons", AIP Proceedings, Nuclear Physics at Storage Rings, 512, 365-367 (2000).
- 141 H. Harada, K. Furutaka, H. Ohgaki, and H. Toyokawa, "Performance Test of a High-resolution High-energy Photon Spectrometer using Laser Compton Photons", Proc. 2000 IEEE Nucl. Sci. Symp., pp.114-115 (2000).
- 142 H. Harada, K. Furutaka, H. Ohgaki, H. Toyokawa," Super High Resolution Measurement of Total Photonuclear Cross Sections using Laser Compton Photons and a High Energy High Resolution Photon Spectrometer", Proc. Int. Conf. 10th Capture Gamma-ray Spectroscopy and Related Topics, 722-724 (2000).
- 143 T. Shima, Y. Nagai, S. Naito, T. Baba, T. Takahashi, K. Tamura, T. Kii, H. Ohgaki, H. Toyokawa, "Test of Symmetries in Nuclei with Laser-Electron Photons", Proceedings of the International Workshop on LEPS2000, 81-88 (2000).
- 144 T. Shima, Y. Nagai, T. Baba, T. Takahashi, T. Kii, H. Ohgaki, H. Toyokawa, "GDR Problem in Photodisintegration of ^4He ", Proc. of the 6th International Conference on Giant Resonances.(2000)
- 145 H. Ohgaki, H. Toyokawa, "ETL Laser Compton Photon Source for Nuclear Physics in MeV Region", Proc. of the Int'l Workshop on Laser Electron Photons at SPring-8, pp.123-131 (2000)
- 146 K.Yamada, N.Sei, H.Ohgaki, T.Mikado, T.Yamazaki, "Coherent Harmonic Generation in the NIJI-IV FEL", Proceedings of the 20th International Free Electron Laser Conference(1999).
- 147 T. Shima, T. Baba, T. Kii, T. Takahashi, Y. Nagai, H. Ohgaki, H. Toyokawa, "Photodisintegration of ^4He studied with TPC using 22-32 MeV real photons", Int. Symp. on Nuclear Electro-Weak Spectroscopy (1999).

- 148 H. HARADA, K. FURUTAKA, H. Ohgaki, H. TOYOKAWA, "High Resolution Measurement of Total Photonuclear Cross Section", Proc. of the 1999 symposium on Nuclear Data, 44 (1999).
- 149 T.Yamazaki, K.Yamada, N.Sei, H.Ohgaki, S.Sugiyama, R.Suzuki, T.Mikado, M.Chiwaki, T.Noguchi, T.Ohdaira, and H. Toyokawa, "Status of the NIJI-IV Storage-Ring Free-Electron Lasers at the ETL", Free Electron Lasers. In Asia, pp.22-29(1999).
- 150 H.Ohgaki, H.Toyokawa, R.Suzuki, S.Sugiyama, T.Mikado, K.Yamada, T.Ohdaira, N.Sei, M.Chiwaki, "PC-based Control System for Storage Ring TERAS", Proc. of the PCaPAC(1999).
- 151 T. Kii, T. Baba, T. Takahashi, T. Shima, Y. Nagai, H. Ohgaki, H. Toyokawa, "Photodisintegration of light nuclei relevant to nuclear astrophysics", Proceedings of the 5th International Symposium on Nuclear-astrophysics, (1998).
- 152 H. TOYOKAWA, H. Ohgaki, S. SUGIYAMA, T. MIKADO, K. YAMADA, R. SUZUKI, T. OHDAIRA, N. SEI, and M. CHIWAKI, "Photoneutron Production with the Laser-Compton Backscattered Photons", Proc. of the 1998 Symp. on Nucl. Data, pp.286 (1998).
- 153 N. Sei, T. Yamazaki, K. Yamada, S. Sugiyama, H. Ohgaki, T. Mikado, R. Suzuki, T. Ohdaira, H. Toyokawa, M. Kawai, M. Yokoyama, Proc. of the APAC98, pp.725-727(1998).
- 154 T. Mikado, T. Ohdaira, H. Ohgaki, N. Sei, S. Sugiyama, R. Suzuki, H. Toyokawa, K. Yamada, T. Yamazaki, M. Chiwaki, T. Noguchi, S. Okabe, H. Onuki, H. Shitomi, "Status of TELL, TERAS, and NIJI's at the ETL", Proc. of the APAC98, pp.665-667(1998).
- 155 N. Sei, K. Yamada, T. Yamazaki, H. Ohgaki, T. Mikado, and S. Sugiyama, "Improved Performance of the Storage Ring NIJI-IV for the Deep UV", Proc. of ECOMAP-98, pp.521-526(1998).
- 156 K. Yamada, N. Sei, T. Yamazaki, H. Ohgaki, T. Mikado, S. Sugiyama, "Development of the Deep UV and VUV FELs on the Compact Storage Ring NIJI IV", Proc. of ECOMAP-98, pp. 277-285(1998).
- 157 H.Harada, Y.Shigetome, H.Ohgaki, T.Noguchi, T.Yamazaki, "A High-Resolution and High-Energy Photon Spectrometer (HHS) for Studies of Photonuclear Reaction", Proc. of the First International Workshop on EGS4(1998).
- 158 H.Ohgaki, T.Noguchi, H.Toyokawa, R.Suzuki, N.Sei, S.Sugiyama, T.Mikado, K.Yamada, T.Ohdaira, T.Yamazaki, "Search for Bound State M1 Transitions in ^{208}Pb ", Proc. of the Int. Conf. "Nuclear Structure and Related Topics"(1998).
- 159 H.Ohgaki, R.Suzuki, S.Sugiyama, T.Mikado, M.Chiwaki, K.Yamada, T.Ohdaira, N.Sei, H.Toyokawa, T.Yamazaki, "PC-BASED CONTROL SYSTEM IN STORAGE RING

- TERAS", KEK Proceedings(1998).
- 160 H.Ohgaki, R.Suzuki, S.Sugiyama, T.Mikado, M.Chiwaki, K.Yamada, T.Ohdaira, N.Sei, H.Toyokawa, T.Yamazaki, "PC-based Control System in Storage Ring TERAS", Proc. of the 1997 Int. Conf. on Accel. and Large Exp. Phys. Control Systems(1998).
- 161 R.Suzuki, T.Ohdaira, T.Mikado, A.Uwadono, H.Ohgaki, T.Yamazaki, S.Tanigawa, "Moderation of Positrons Generated by an Electron Linac", Materials Science Forum, Vols. 255-257, pp.114-119(1997).
- 162 R. Suzuki, T. Ohdaira, T. Mikado, A. Uedono, H. Ohgaki, T. Yamazaki, S. Tanigawa, "Moderation of positrons generated by an electron linac", POSITRON ANNIHILATION MATERIALS SCIENCE FORUM 255-2 114-118 (1997).
- 163 K.Kudo, N.Takeda, T.Noguchi, H.Ohgaki, H.Toyokawa, T.Yamazaki, T.Sugita, "Pile-up Correction of Pulse Height Spectrum Measured by a Ge Detector to a Pulsed Beam of High Energy Photons", Conf. Record of 1997 IEEE Nuclear Sci. Symp.(1997).
- 164 K.Kudo, N.Katou, T.Noguchi, H.Ohgaki, H.Toyokawa, T.Yamazaki, T.Sugita, "Position Dependency of Pulse Height Spectra Measured by a Ge Detector to a Compton-Backscattered Photon Beam Calculated by EGS4/PRESTA Code", Proc. Of the 1st Int. Workshop on EGS4, pp.40-47(1997).
- 165 H.Harada, Y.Shigetome, H.Ohgaki, T.Yamazaki, "A High-Resolution and High-Energy Photon Spectrometer (HHS) for Studies of Photonicuclear Reaction", Proc. of the 1st Int. Workshop on EGS4, 16(1997).
- 166 K.Yamada, T.Yamazaki, N.Sei, R.Suzuki, T.Ohdaira, M.Kawai, M.Yokoyama, T.Mikado, T.Noguchi, H.Ohgaki, "Challenge to deep UV and VUV FEL in a small-scale storage ring", Proc. of SPIE, Vol.2988, pp.134-144(1997).
- 167 T.Yamazaki, K.Yamada, N.Sei, H.Ohgaki, S.Sugiyama, R.Suzuki, T.Mikado, T.Noguchi, M.Chiwaki, T.Ohdaira, M.Kawai, M.Yokoyama, "Status of the NIJI-IV Storage-Ring Free-Electron Lasers", Free Electron Laser and Its Appl. In Asia, pp.9-16(1997).
- 168 H. Nishimura, L. Schachinger and H. Ohgaki, "Orbit Control at the ALS Based on Sensitivity Matrices", Proc. of the PAC1996, pp.2247-2249 (1996).
- 169 R. Suzuki, T. Mikado, H. Ohgaki, M. Chiwaki and T. Yamazaki, "Three Dimensional Scanning Positron Lifetime Spectroscopy", Materials Science Forum, Vols. 175-178, pp.217-220(1995).
- 170 A.UEDONO, L.WEI, T.KAWANO, S.TANIGAWA, R.SUZUKI, H.OHGAKI T.MIKADO, "POSITRON STUDIES OF OXIDE-SEMICONDUCTOR STRUCTURES", JOURNAL DE PHYSIQUE IV 5 (C1) 49-56 (1995).
- 171 H.Nishimura, L.Schachinger, H.Ohgaki, "Orbit Control at the ALS Based on Sensitivity Matrices", LBL, 36443, UC-410(1995).

- 172 A. Uedono, L. Wei, S. Tanigawa, R. Suzuki, H. Ohgaki, T. Mikado and H. Funamoto, "Study of Diamond Films Synthesized on Si Substrates by Monoenergetic Positron Beams", Trans. Mat. Res. Soc. Jpn. 14B, pp.1575-1578 (1994).
- 173 R.Suzuki, T.Mikado, H.Ohgaki, M.Chiwaki, T.Yamazaki, Y.Kobayashi, "An Intense Pulsed Positron Beam and Its Application", AIP Conf. Proc.303, pp.526-534 (1994).
- 174 A.Uwadono, T.Watauchi, Y.Ujihira, R.Gian, S.Tanigawa, R.Suzuki, H.Ohgaki, T.Mikado, H.Kametani, H.Akiyama, Y.Yamaguchi, M.Koumaru, "Characterization of SiO₂ by Monoenergetic Positron Beams", AIP Conf. Proc.303, pp.101-106 (1994).
- 175 R. Suzuki, T. Mikado, H. Ohgaki, M. Chiwaki, T. Yamazaki, K. Awazu, M. Matshuda, Y. Kobayashi, A. Uwadono, S. Tanigawa, "Characterization of Thin Films by a Pulsed Positron Beam", AIP Conf. Proc. 303, pp.84-91 (1994).
- 176 S.Sugiyama, T.Mikado, M.Chiwaki, K.Yamada, H.Ohgaki, R.Suzuki, N.Sei, T.Noguchi, T.Yamazaki, H.Nakaishi, T.Kanie, Y.Hirata, "Compact Synchrotron Radiation Source NIJI-II", Synchrotron Radiation Facilities in ASIA, pp.203-215(1994).
- 177 T.Yamazaki, K.Yamada, N.Sei, S.Sugiyama, H.Ohgaki, T.Mikado, T.Noguchi, M.Chiwaki, R.Suzuki, M.Kawai, M.Yokoyama, S.Hamada, A.Iwata, S.Nakagawa, "A Compact Storage Ring NIJI-IV Dedicated to Free Electron Lasers", Synchrotron Radiation Facilities in ASIA, pp.189-201(1994).
- 178 T.Yamazaki, K.Yamada, N.Sei, S.Sugiyama, H.Ohgaki, T.Mikado, T.Noguchi, M.Chiwaki, R.Suzuki, M.Kawai, M.Yokoyama, S.Hamada, T.Tomimasu, "Storage-Ring Free-Electron Lasers at ETL", 1st Asian Symp. on Free Electron Laser(1994).
- 179 H.Ohgaki, T.Noguchi, S.Sugiyama, T.Yamazaki, T.Mikado, M.Chiwaki, K.Yamada, R.Suzuki, N.Sei, "Linearly Polarized Photons from laser-Compton-scattering for the nuclear resonance fluorescence experiments", SPIN94 contributions(1994).
- 180 A. UEDONO, L. WEI, S. TANIGAWA, R. SUZUKI, H. OHGAKI, T. MIKADO, "CHARACTERIZATION OF SiO₂-FILMS GROWN ON SI SUBSTRATES BY MONOENERGETIC POSITRON BEAMS", JOURNAL DE PHYSIQUE IV 3 (C4) 177-183 (1993)
- 181 H.Ohgaki, T.Noguchi, S.Sugiyama, T.Yamazaki, T.Mikado, M.Chiwaki, K.Yamada, R.Suzuki, N.Sei, "Linearly Polarized Quasi-Monochromatic Photon Beams from Compton Backscattering of Laser Lights at ETL", 1993 IEEE Conference Record, pp.108-112(1993).
- 182 H. Kametani, H. Akiyama, Y. Yamaguchi, M. Koumaru, L. Wei, Y. Tabuki, S. Tanigawa, A. Uedono, S. Watauchi, Y. Ujihira, R. Suzuki, H. Ohgaki and T. Mikado, "Evaluation of Vacancy-Type Defects in SIMOX Substrates by a Slow Positron Beam and a Pulsed Positron Beam", Mat. Res. Soc. Symp. Proc. 262, 235-240 (1992).

- 183 R. Suzuki, Y. Kobayashi, T. Mikado, H. Ohgaki, M. Chiwaki, T. Yamazaki, T. Tomimasu, "Positron Pulsing System for Variable-Energy Positron Lifetime Spectroscopy", Mat. Sci. Forum, Vol.105-110, pp.1993-1996 (1992).
- 184 R. Suzuki, Y. Kobayashi, T. Mikado, H. Ohgaki, M. Chiwaki, T. Yamazaki, T. Tomimasu, "Investigation of Near Surface Defects by Variable-Energy Positron Lifetime Spectroscopy", Mat. Sci. Forum, Vol.105-110, pp.1459-1462 (1992).
- 185 R.Suzuki, Y.Kobayashi, T.Mikado, H.Ohgaki, M.Chiwaki, T.Yamazaki, T.Tomimasu, "Slow Positron Pulsing System for Variable-Energy Positron Lifetime Spectroscopy", Proc. Int. Conf. Evolution in Beam Appl.(1992).
- 186 K.Yamada, T.Yamazaki, S.Sugiyama, T.Tomimasu, T.Mikado, M.Chiwaki, R.Suzuki, H.Ohgaki, "Storage-Ring Free Electron Laser Experiment at ETL", Proc. of Tokyo Int. Symp. '90 on Free Electron Lasers(1991).
- 187 S.Sugiyama, H.Ohgaki, T.Mikado, T.Noguchi, K.Yamada, M.Chiwaki, R.Suzuki, M.Koike, T.Yamazaki, T.Tomimasu, Y.Keishi, Y.Hosoda, "Design Consideration of 10T-Superconducting Wiggler for Angiography", Proc. Topical Symp. on SR(1990).
- 188 K.Yamada, T.Yamazaki, S.Sugiyama, T.Tomimasu, T.Mikado, M.Chiwaki, R.Suzuki, H.Ohgaki, "Storage-Ring Free Electron Laser Experiment at ETL", Proc. of Tokyo Int. Symp. '90 on Free Electron Lasers(1990).
- 189 T.Tomimasu, S.Sugiyama, H.Ohgaki, T.Yamazaki, K.Yamada, T.Mikado, M.Chiwaki, R.Suzuki, Sukiyo, M.Yoshiwa, A.Iwata, "500-MeV Compact Electron Storage Ring "NIJI-IV" for UV FEL Experiment", Proc. of 2nd Int. Symp. On Advanced Nucl. Energy Res., pp.314-317(1990).
- 190 T.Yamazaki, K.Yamada, S.Sugiyama, T.Tomimasu, T.Mikado, M.Chiwaki, R.Suzuki, H.Ohgaki, "Present Status of Storage Ring Free Electron Laser Experiment at ETL", Proc. of 2nd Int. Symp. on Advanced Nucl. Energy Res., pp.308-313(1990).

4. Patent

- 1 特願 2019- 91020 「電子線照射装置」大垣英明、紀井俊輝、全炳俊、田中龍太、坂井一郎、清水拓人、出願日：2019 年 5 月 14 日
- 2 出願番号：62, 173, 997:「同位体 CT 画像の画質向上法」大東 出、大垣 英明 IMAGING APPRATUS FOR COMPUTER TOMOGRAPHY IMAGING OF NUCLEAR DISTRIBUTION<米国仮出願>出願日：2015 年 6 月 11 日
- 3 出願番号：2013-233199 「放射線検出システム、データ処理装置、放射線検出方法および波高値分布データ処理プログラム」出願日：2013 年（平成 25 年）11 月 11 日 全炳俊、大垣英明
- 4 出願番号：2011-034193 「光子ビーム走査装置及び光子ビーム走査方

法」出願日：2011年（平成23年）2月21日 紀井俊輝、大垣英明

5 出願番号：2010-170643「核種分析方法、核種分析装置（特開2012-032220）」出願日2010年07月29日 静間俊行、羽島良一、早川岳人、豊川弘之、大垣英明

6 出願番号：PCT/JP2010/053560、出願国：WIPO 出願日：2010/03/04「原子核共鳴蛍光散乱を用いた非破壊検査システム」豊川弘之、羽島良一、早川岳彦、静間俊之、大垣英明登録番号：5403767 登録日：2013年（平成25年）11月8日

7 特願2007-310897（H19/11/30）「X線発生装置及びX線発生方法」豊川弘之、大垣英明

8 特許出願006-068455、2006/3/13「光子ビーム発生装置及び該方法」大垣英明

9 特許公開2004-150851「光子誘起による陽電子消滅 γ 線分光及び短寿命原子核準位の測定法」、平出 哲也、豊川 弘之、鈴木 良一、大平 俊行、大垣 英明

10 特開平10-260300「光学装置及び光短波長化方法」大垣英明、豊川弘之、三角智久、羽根博樹、真峰隆義、金田有史

11 特許公開平10-326928「光短波長化装置及び光短波長化方法」大垣英明、真峰隆義

12 特許公開平6-45100「粒子蓄積リングの粒子間引き法」大垣英明、杉山卓、山崎鉄夫

13 特許公開2002-237642「マルチパスレーザ逆コンプトン散乱光発生器」豊川 弘之、大垣 英明

14 特許公開2002-162371「逆コンプトン散乱光を利用した非破壊検査方法及び装置」豊川 弘之、大垣 英明、嶋 達志

15 特許公開2000-162398、特許第4182151号「X線発生装置」河合正之、小田史彦、大垣英明

5. Budget award (Collaboration with government or company)

1) 共同研究：PSI, “Testing of REBCO bulk undulator prototype”, 2022.4.1-2023.12.31 (23,000千円)

2) 共同研究：理化学研究所 「次世代アンジュレータのための高温超伝導体の評価研究」2022.1.1~2022.3.31 (3,000千円)

3) 共同研究：日立造船株式会社 機械事業本部 システム機械ビジネスユニット 食品・医薬機械設計部「電子線エミッタの高性能化に関する研究」平成31年4月1日~令和2年3月31日まで (330千円)

2) 共同研究：日立造船株式会社 機械事業本部 システム機械ビジネスユニット 食品・医薬機械設計部「電子線エミッタの高性能化に関する研究」平成30年4月1日~平成31年3月31日まで (330千円)

- 3) 共同研究：日立造船株式会社 機械事業本部 システム機械ビジネスユニット 食品・医薬機械設計部「電子線エミッタの高性能化に関する研究」平成 29 年 4 月 1 日～平成 30 年 3 月 31 日まで (330 千円)
- 4) 科学技術振興機構、平成 29 年度「日本・アジア青少年サイエンス交流事業（さくらサイエンスプラン）」(1,986 千円)
- 5) 共同研究：電源開発株式会社、火力・材料技術研究室「石炭の低温酸化メカニズム解明に関する研究」2016/10/1～2017/3/31 (5,500 千円)
- 6) 共同研究：JFEスチール（株）、H28年度「低品位鉄鉱石と低品位炭素資源からの高還元性・高ガス化反応性鉄鉱石・炭材コンポジットの製造」、三浦孝一、大垣英明 (11,598 千円)
- 7) 科学技術振興機構、平成28年度「日本・アジア青少年サイエンス交流事業（さくらサイエンスプラン）」(1,956千円)
- 8) 共同研究：電源開発株式会社、火力・材料技術研究室「石炭の低温酸化メカニズム解明に関する研究」2015/10/1～2016/3/31 (5,500 千円)
- 9) 共同研究：新日鐵住金（株）技術開発本部プロセス研究所「石炭の改質処理に関する研究」2015/10/23～2016/3/31 (1,080 千円)
- 10) 共同研究：新日鐵住金（株）技術開発本部プロセス研究所「石炭の改質処理に関する研究」2014/9/5～2015/3/31 (1,080 千円)
- 11) 科学技術振興機構、平成 27 年度「日本・アジア青少年サイエンス交流事業（さくらサイエンスプラン）」(3,083 千円)
- 12) 科学技術振興機構、平成27年度「日本・アジア青少年サイエンス交流事業（さくらサイエンスプラン）」(1,270千円)
- 13) 平成26年度加速器科学総合支援事業：「光陰極高周波電子銃を用いたTHz-FEL開発とこれによる大学院学生の加速器教育」2014/4/1～2015/3/31 (1,000千円)
- 14) 平成25年度加速器科学総合支援事業：「赤外自由電子レーザー大強度・広帯域化に向けた高量子効率光陰極の導入」2013/4/1～2014/3/31 (1,000千円)
- 15) 平成23年度加速器科学総合支援事業：「赤外自由電子レーザー発生のための光高周波電子源励起用マルチバンチ短パルスレーザー開発」2011/4/1～2012/3/31 (500千円)
- 16) 平成22年度加速器科学総合支援事業：「赤外自由電子レーザー発生のための光高周波電子源励起用マルチバンチ短パルスレーザー開発」2010/4/1～2011/3/31 (1,000千円)
- 17) 平成21年度加速器科学総合支援事業：「先進ビームモニタ系による小型FEL装置の高度化に関する研究」2009/4/1～2010/3/31 (2,000千円)
- 18) 平成 20 年度加速器科学総合支援事業：「先進ビームモニタ系による小型 FEL 装置の高度化に関する研究」2008/4/1～2009/3/31 (3,000 千円)
- 19) 受託研究：財団法人佐賀県地域産業支援センター：「佐賀県立九州シンクロトロン光研究センター光源装置の高度化研究」2008/12/2～2009/3/31 (1,170 千円)

- 20) 平成 19 年度加速器科学総合支援事業：「光高周波電子源による中赤外自由電子レーザーの高性能化に関する研究」2007/4/1～2008/3/31 (4,000 千円)
- 21) 受託研究：財団法人佐賀県地域産業支援センター：「佐賀県立九州シンクロトロン光研究センター光源装置の高度化研究」2007/12/20～2008/3/31 (900 千円)
- 22) 受託研究：財団法人佐賀県地域産業支援センター：「佐賀県立九州シンクロトロン光研究センター光源装置の高度化に関する研究」2006/12/15～2007/3/31 (2,050 千円)
- 23) 受託研究：佐賀県農林水産商工本部：「佐賀県立九州シンクロトロン光研究センター光源装置制御システムの調整」2005/5/24～2006/3/31 (2,000 千円)
- 24) 受託研究：佐賀県農林水産商工本部：「佐賀県立九州シンクロトロン光研究センター光源装置制御系調整業務」2004/5/10～2005/3/31 (1,000 千円)
- 25) 受託研究：佐賀県農林水産商工本部：「佐賀県シンクロトロン光応用研究施設光源装置の上位制御システム」2003/10/20～2004/3/31 (4,000 千円)
- 26) 受託研究：文部科学省原子力研究試験費「高透過性光子ビームを用いた非破壊検査技術の開発と高度化に関する研究」2003/4/1～2007/3/31 (136,219 千円)
- 27) 受託研究：株式会社 野村総合研究所：「加速器の制御システムに関する研究」, 2001/5/1～2002/3/31 (3,000 千円)
- 28) 共同研究：甲南大学：「レーザー逆コンプトンガンマ線による天体核・原子核物理の研究」, 2000/4/1～2004/3/31 (2,500 千円)
- 29) 共同研究：大阪大学：「高感度検出器を用いた原子核の光核反応に関する共同研究」, 2000/4/1～2004/3/31 (2,500 千円)
- 30) 共同研究：(株) ソニー：「逆コンプトン効果による次々世代リソグラフィ光源の研究」, 1998/4/1～2000/3/31 (40,000 千円)
- 31) 共同研究：甲南大学：「逆コンプトンレーザー光による天体核 (g, n) 反応の研究」, 1998/4/1～2000/3/31 (1,500 千円)
- 32) 共同研究：核燃料サイクル機構：「光核反応微細構造に関する共同研究」, 1998/4/1～2004/3/31 (3,500 千円)
- 33) 受託研究：文部省原子力研究試験費「エネルギー可変ガンマ線の高度化とその利用に関する研究」1998/4/1～2003/3/31 (82,074 千円)
- 34) 受託研究：文部省原子力研究試験費「小型高輝度放射源の開発とその利用に関する研究」1997/4/1～2003/3/31 (70,582 千円)
- 35) 共同研究：東京工業大学：「軽核の光核反応機構に関する共同研究」, 1997/4/1～2000/3/31 (2,000 千円)
- 36) 共同研究：動力炉・核燃料開発事業団：「光核反応微細構造に関する共同研究」, 1995/9/11～1998/3/31 (2,000 千円)
- 37) 受託研究：文部省原子力研究試験費「新量子放射源の高度化とその利用に関する研究」1993/4/1～1998/3/31 (101,760 千円)

6. Budget award (open application)

1. "Human Capacity Building for Science, Technology, and Innovation Coordination between ASEA and Japan towards Grand Challenges", Japan-ASEAN Integration Fund (JAIF), 日本側責任者 (2024. 12. 9-2026. 12. 8, 400, 000 USD)
2. 波長タグ付 LCS ガンマ線発生とこれを用いた複数同位体 NRF-CT 同時測定に関する研究」科研費基盤 B 研究代表者 (2024-2026, 14, 200+4, 260 千円)
3. 「ASEAN 地域の科学技術コーディネート人材育成に関する調査」新技術振興渡辺記念会「科学技術調査研究助成」、研究代表者 (2023, 1, 350 千円)
4. 「異なる国・セクターを繋ぐ科学技術イノベーションコーディネーションに関する学びあい：人材育成プログラムの開発と政策提言」トヨタ財団イニシアティブプログラム、研究代表者 (2023-2024, 9, 000 千円)
5. 「F-LCS レーザーコンプトン散乱γ線による同位体イメージングの高度化に関する研究」科研費基盤 B (2021-2023, 18, 070 千円)
6. 「日 ASEAN 科学技術イノベーション共同研究拠点ー 持続可能開発研究の推進ーPhase2」事業推進者 (代表・東南アジア研究所・河野泰之) (2020-2024, 185, 000 千円)
7. 「アジア新興国産天然資源を由来とする機能性物質創生のための高度分析研究拠点の形成」研究拠成事業 (B. アジア・アフリカ学術基盤形成型) 研究代表者 (2019-2020, 21, 000 千円)
8. 「再生可能エネルギーによる非電化地区の電化に伴う住民生活への影響に関する研究」倉田奨励賞、研究代表者 (2018, 1, 000 千円)
9. 「LCS-NRF による同位体 3D イメージング法の基盤確立」基盤研究 (B)、課題番号：18H01916、研究代表者 (2018-2020, 16, 000 千円)
10. 「直線偏光ガンマ線のデルブリュック散乱」基盤研究 (A)、研究代表者：早川 岳人 (2018-2020)
11. 「A study on economic and technical impacts of mass integration of solar home system and building integrated photovoltaic system on power distribution system」AUN/SEED-Net Collaborative Research Program with Industry、共同研究者 (代表、カンボジア工科大学・Long Bun) (2016-2017, 42, 690USD)
12. 「CSR and free electron lasers from ultra short bunch electron beam」JSPS - NSFC Bilateral Collaboration Research、研究代表者 (2016-2018, 4, 500 千円)
13. 「「地域の知」の共有と利活用を支援する地域研究情報基盤の構築」基

盤研究(A)、研究代表者：原正一郎 (2016-2019)

14. 「日 ASEAN 科学技術イノベーション共同研究拠点ー 持続可能開発研究の推進ー」事業推進者 (代表・東南アジア研究所・河野泰之) (2015-2019, 500, 000 千円)
15. 「NRF を利用した同位体 3D イメージングに関する基礎研究」基盤研究(B)、課題番号：26289363、研究代表者 (2014-2016, 12, 600 千円)
16. 「ミャンマーにおける持続可能な発展のためのエネルギー科学教育の推進」平成 26 年度政府開発援助ユネスコ活動費補助金 (2014、6, 000 千円) 研究代表者
17. 「低品位炭とバイオマスのタイ国におけるクリーンで効率的な利用法を目指した溶剤改質法の開発」地球規模課題対応国際科学技術協力 (SATREPS)、共同研究者 (研究代表者：三浦孝一、2013-2018 JST 配分 177, 840 千円、JICA 配分 300, 000 千円)
18. 「カンボジアにおける持続可能な発展のためのエネルギー科学教育の推進」平成 25 年度政府開発援助ユネスコ活動費補助金 (2013、8, 200 千円) 研究代表者
19. 「ラオスにおける持続可能な発展のためのエネルギー科学教育の推進」平成 24 年度政府開発援助ユネスコ活動費補助金 (2012、9, 000 千円) 研究代表者
20. 「アジア地域の持続可能な発展のためのエネルギー科学教育の推進 (ベトナム)」平成 23 年度政府開発援助ユネスコ活動費補助金 (2011、13, 000 千円) 研究代表者
21. 「ガンマ線による核物質非破壊検知システム」科学技術振興調整費 社会システム改革と研究開発の一体的推進プログラム (安全・安心な社会のための犯罪・テロ対策技術等を実用化するプログラム) (2010-2014、500, 000 千円) 研究代表者
22. 「次世代低炭素ナノデバイス創製ハブ拠点整備構想」低炭素社会構築に向けた研究基盤ネットワークの整備 (2010-2014、3, 053, 000 千円、代表者：松本紘) グループコーディネーター
23. 「先進技術を基盤とした地域共通課題解決型共同研究：タイにおける低炭素排出型エネルギー技術戦略シナリオ研究」科学技術振興調整費 (2009-2011：45, 000 千円、代表者：石原慶一) 分担者
24. 「干渉効果を用いた共振器型自由電子レーザーの狭帯化」科学研究費基盤研究 (萌芽) 研究代表者 (2009-2010, 3, 200 千円)
25. 「逆コンプトン γ 線を用いた原子核共鳴蛍光散乱同位体イメージングに関する基礎的研究」科学研究費基盤研究 (B) 研究代表者 (2009-2012,

13,600 千円)

26. 「むつ小川原地域における大型研究施設の経済的効率性に関する研究」
(2008-2011) 研究代表者 京都大学生存基盤科学研究ユニットサイト型研究 13,000 千円
27. 「地球温暖化時代のエネルギー科学拠点」(代表者:八尾 健) 2008-2012
文科省グローバル COE プログラム 349,180 千円 (2008-2012) 事業推進者
28. 「磁気双極子遷移強度の測定によるニュートリノ非弾性散乱反応率の評価」基盤研究(C)、研究代表者:静間俊行 (2008-2010)
29. 「新手法によるエネルギー可変レーザー逆コンプトンガンマ線発生に関する実験的研究」科学研究費基盤研究(C) (2007-2008) 研究代表者 3,370 千円、日本学術振興会
30. 「中赤外域波長可変レーザーの生存基盤科学へのフィージビリティスタディ」(2006-2007) 研究代表者 京都大学生存基盤科学研究ユニット萌芽研究 2,400 千円
31. 「環境調和型エネルギーの研究教育拠点形成」(代表者:笠原三紀夫) 2002-2007 文科省 21COE プログラム 1,323,166 千円
32. 「レーザー電子逆コンプトンガンマ線による $6,7\text{Li}$ 核のアルファクラスターの光励起」(研究代表者:山県 民穂) 2001-2002 年度科学研究費基盤研究(C) 3100 千円
33. 「逆コンプトンガンマ線による天体核物理の研究」(研究代表者:宇都宮 弘章) 2001-2003 年度科学研究費基盤研究(C) 500 千円
34. 「 4He 光分解の反応機構と荷電対称性」(研究代表者:嶋 達志) 2001-2002 年度科学研究費基盤研究(C) 3400 千円
35. 「ガンマ線 CT 装置の基礎技術」(研究代表者:嶋 達志) 1999 年度科学研究費萌芽研究 2100 千円

6. Donation from Company

- 1) 三菱重工、「大垣英明教授の石炭の研究に対する助成」、大垣英明、2,000 千円、2013
- 2) 新日鐵住金、「大垣英明教授の石炭の研究に対する助成」大垣英明、三浦孝一、3,000 千円、2013
- 3) 新日鐵住金、「大垣英明教授の石炭の研究に対する助成」大垣英明、三浦孝一、3,000 千円、2014
- 4) 新日鐵住金、「大垣英明教授の石炭の研究に対する助成」大垣英明、三浦孝一、3,000 千円、2015
- 5) 新日鐵住金エンジニアリング(株)、「低品位炭の自然発火抑制機構研究のため」、大垣英明、三浦孝一、2016 (700 千円)

7. Invited and plenary

- 1 H. Ohgaki, H. Zen, T. Ogawa, "Study on PHITS Simulation for Nuclear Resonance Fluorescence Experiment in UVSOR", EMSES 2025, Kyoto University, Jan. 9, 2025
- 2 H. Ohgaki, "WP2 Activity", SEE 2024 and The 10th JASTIP-WP2 Annual Workshop, Millennium Hilton Bangkok, 20 December 2024
- 3 H. Ohgaki, "IR FEL Light Source and Applications", 7th International School on Beam Dynamics and Accelerators, Chaing Mai University, 8 November 2024.
- 4 大垣 英明、斎藤 知里、園部 太郎, 「ASEAN 地域の科学技術コーディネート人材育成に関する調査」 新技術渡邊財団科学技術調査研究助成課題成果報告会、法曹会館、2024 年 10 月 21 日
- 5 大垣英明「フラット LCS γ 線の生成と応用 (Generation of Flat-Laser Compton Scattering) Gamma-ray Beam for Multiple Isotope Imaging in UVSOR)」、RARiS 研究会 C038「加速器を用いたガンマ線ビームの生成、基礎科学と産業分野への利用」、東北大学先端量子ビーム科学研究センター、2024 年 9 月 10 日
- 6 H. Ohgaki, "Global and ASEAN Energy Outlook", International Conference on Sustainable Engineering & Advanced Technology, Connexion Conference and Event Centre, KL, SEGI University, 2024.8.5
- 7 H. Ohgaki, H. Zen, "Introduction of Kyoto University MIR-free electron laser facility", Ajou-Kyoto Joint Symposium - Next Generation Energy Science and Technology Symposium, Ajou University, Korea, 2024.8.2
- 8 H. Ohgaki, "RE Implementation: Study on Rural Electrification in ASEAN", The 9th JASTIP-WP2 Annual Workshop, SD202, Multi purpose building (building no. 12), TSP, NSTDA, 26 January 2024
- 9 H. Ohgaki, "WP2 Activity", The 9th JASTIP-WP2 Annual Workshop, SD202, Multi purpose building (building no. 12), TSP, NSTDA, 26 January 2024
- 10 H. Ohgaki, "Introduction of JASTIP", Workshop on "Socio-economic impact of renewable energy on communities" in cooperation with "Analysing issues and challenges of solar energy policy to support the Indonesian long-term development planning 2025-2045", School of Industrial and System Engineering, Telkom University, Bandung, Indonesia, December 8, 2023.
- 11 H. Ohgaki, "Introduction of IAE, Kyoto University", Workshop on "Socio-economic impact of renewable energy on communities" in cooperation with "Analysing issues and challenges of solar energy policy to support the Indonesian long-term development planning 2025-2045", School of Industrial and System Engineering, Telkom University, Bandung, Indonesia, December 8, 2023.

- 12 H. Ohgaki, “ASEAN’s Energy Outlook”, 2023 International Conference on Power, Energy and Innovation (ICPEI), Electrical Engineering Academic Association, Thailand (2023.10.19, Amari Hotel, HuaHin, Thailand)
- 13 H. Ohgaki, “Current Global Energy Situation and Carbon Neutral 2050”, Five Day International Faculty Development Program, “EMERGING TECHNOLOGIES IN THERMAL ENERGY PRODUCTION AND STORAGE” (2023.9.15, Vishnu Educational Development and Innovation Center, India)
- 14 H. Ohgaki, “Opening and Program Introduction of “Mutual Learning of STI Coordination-Toyota Foundation”, Kick Off Workshop of Project on “Mutual Learning of Science, Technology and Innovation (STI) Coordination-Toyota Foundation” (2023.8.1, National University of Battambang, Battambang, Cambodia)
- 15 H. Ohgaki, “Program Introduction “Mutual Learning of STI Coordination-Toyota Foundation”, Opening Ceremony of Project on “Mutual Learning of Science, Technology and Innovation (STI) Coordination-Toyota Foundation” MISTI, (2023.7.31, Head Quarter, Ministry of Industry, Science, Technology & Innovation, Cambodia)
- 16 H. Ohgaki, “Roles of Relevant Stakeholders in the National Innovation System”, The 1st National Science Technology Innovation Day, Cambodia (2023.3.27, Koh Pich Convention & Exhibition Center, Cambodia)
- 17 H. Ohgaki, “Flat Laser Compton Gamma-ray Beam Generation in UVSOR”, 15th Eco-Energy and Materials Science and Engineering Symposium (2022.12.8, Dusit Thani Pattaya, Chonburi, Thailand)
- 18 H. Ohgaki, “Panel Discussion: Electronics and Automotive” Cambodia Tech Expo 2022(2022.11.12, Koh Pich Exhibition Center, Phnom Penh, Cambodia)
- 19 H. Ohgaki, Y. Ueda, “Environment-friendly water treatment by fine bubbles”, COP27 Japan Pavilion Seminar (2022.11.10, SHARM EL-SHEIKH, Egypt)
- 20 H. Ohgaki, “Current Global Energy Situation and Carbon-Neutral 2050”, The 9th International Symposium on the Fusion of Science & Technologies and The 2nd Rajamangala University of Technology Suvarnabhumi International Conference (2022.8.17, Bangkok, Thailand)
- 21 H. Ohgaki, “Accelerator and Photon Sources”, 2022 UST Global Mentoring Conference, (2022.6.22, Online, University of Science and Technology, ROK)
- 22 H. Ohgaki, “Electron Accelerators and Generation of Quantum Radiations”, The 11th Korea-Japan Summer School(2022.8.1, , Kyeongju, ROK)
- 23 H. Ohgaki, “Current biogas-to electricity status, pilot case and funding opportunities”, BIOGAS-TO-ELECTRICITY FOCUS GROUP DISCUSSION (FGD) IN ASEAN (2022.3.17, Online)

- 24 H. Ohgaki, “Present Status of KU-FEL and Application of MIR-FEL”, PCELL/CMU Meeting (2021.12.27, Chiang Mai University)
- 25 H. Ohgaki, “Realizing Sustainable Carbon Neutral Society 5.0, Japan case: The 6th Strategic Energy Plan & McKinsey Report”, International Multidisciplinary Symposium on Contemporary Global Issues 2021 (2021.12.11, Kumamoto)
- 26 H. Ohgaki, “Global Energy Situation and Carbon Neutral Strategy in Japan”, AUN/SEED-Net Joint Regional Conferences in Transportation, Energy and Mechanical Manufacturing Engineering (2021.12.10, Online)
- 27 H. Ohgaki, H.S. Che, J. Cravioto, S. Kobayashi, H. Toe, B. Long, E.O. Daya, V. Vannak, C. Kwang T., Nasrudin A. Rahim, H. Farzeneh, “Rural electrification and QoL: Lessons from Southeast Asia”, The 3rd International Conference on Smart City Innovation (ICSCI) , The 13th AUN/SEED-Net Regional Conference on Energy Engineering (RCEnE) , The 3rd International Conference on Dwelling Form (iDwell), (2020.10.28, online)
- 28 Hideaki Ohgaki, Hang Seng Che, Jordi Cravioto, Satoru Kobayashi, Hla Toe, Bun Long, Etu Ou Daya, Vai Vannak, Chia Kwang Tan, Nasrudin Abd Rahim, Hooman Farzeneh, “Our Findings in Impact of Rural Electrification in ASEAN”, 8th International Symposium on Fusion of Science and Technology (J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY, YMCA, January 6 - 10, 2020)
- 29 Hideaki Ohgaki, "Study on Quality of Life Change for Rural Community through Rural Electrification by Renewable Energy in Malaysia, Cambodia, and Myanmar", 5th International Workshop on Clean Energy Development in Asian Cities (20 Dec., Kyushu University, 2019)
- 30 H. Ohgaki, H. S. Che, J. Cravioto, S. Kobayashi, Hla Toe, B. Long, E. Ou Daya, V. Vannak, C. K. Tan, N. Abd Rahim, H. Farzeneh, "Effect of Different Electrification Schemes on Quality of Life in ASEAN Rural Villages", ISF2019 (16 Dec, Mudzaffar Hotel, Melaka, Malaysia)
- 31 H. Ohgaki, "Case Studies for the OECD-GSF Project on Addressing Social Challenges using Transdisciplinary Research", 2nd Workshop for Transdisciplinary Research (5 Dec 2019, MEXT)
- 32 H. Ohgaki, “Impact of Different Electrification Schemes on Villagers' QOL in Rural ASEAN”, The International Conference on Renewable Energy Research & Challenge (ICoRER) 2019 held in conjunction with the 12th AUN/SEED-Net Regional Conference on Energy Engineering (RCEnE)(12 Nov., Banyuwangi, Indonesia)
- 33 大垣英明、紀井俊輝、全炳俊、「小規模加速器施設は持続可能か：京都大学エネルギー理工学研究所の例」第16回日本加速器学会年会、合同セッション（2019年7月31日京都大学百周年時計台記念ホール）

- 34 H. Ohgaki, "Study on Social Impacts of Rural Electrification in ASEAN" Workshop on Current Status of Renewable Energy in Myanmar and Key Recommendations (11 July 2019, Meeting Hall, Human Resources Development Center, Yangon Technological University)
- 35 H. Ohgaki, "Our Findings on the Impacts of Rural Electrification in ASEAN", Rural Electrification Workshop (June 24, 2019, Hilton double tree Kuala Lumpur)
- 36 H. Ohgaki, "Japan-ASEAN Science, Technology and Innovation Platform", 2019 e-ASIA Workshop on bio-energy (March 14, 2019, MEM, Vientiane)
- 37 大垣 英明, 全 柄俊, 早川 岳人, 静間 俊行, 「高平均出力"パルス"レーザーで守る社会セキュリティー」一般社団法人レーザー学会学術講演会第 39 回年次大会 (東海大学高輪キャンパス、2019.1.13)
- 38 H. Ohgaki, S. Kobayashi, H. Farzaneh, N.A. Rahim, H.S. Che, M.A.M. Radzi, W.S.H. Wong, L.C. Hung, L. Bun, Hla Toe, Wint Wint Kyaw, "Before and After Study on Renewable Energy Installation in Rural Community", Workshop on PV Minigird System for Rural Electrification in Myanmar (Technological University, Hmawbi, 2018.12.12)
- 39 H. Ohgaki, S. Kobayashi, H. Farzaneh, N.A. Rahim, H.S. Che, M.A.M. Radzi, W.S.H. Wong, L.C. Hung, L. Bun, Hla Toe, Wint Wint Kyaw, "Before and After Study on Renewable Energy Installation in Rural Community", ISFT2018 (Rajamangala University of Technology, Suvarnabhumi, 2018.12.18)
- 40 H. Ohgaki, S. Kobayashi, H. Farzaneh, N.A. Rahim, H.S. Che, M.A.M. Radzi, W.S.H. Wong, L.C. Hung, "Before and After Study on Renewable Energy Installation in Rural Community in Sarawak", 5th JASTIP Symposium "Disaster Risk Reduction and Environmental Sustainability for Social Resilience (Sama Sama Hotel, Kuala Lumpur, 2018.10.)
- 41 大垣英明, "LCS γ 線源を用いた非破壊同位体分布計測の現状と将来展望", NINS 分野融合型 WS 量子ビームを用いた次世代非破壊分析技術とその応用 惑星物質科学との可能性 (京都大学宇治キャンパス, 2018.10.12)
- 42 H. Ohgaki, S. Kobayashi, H. Farzaneh, N.A. Rahim, H.S. Che, M.A.M. Radzi, W.S.H. Wong, L.C. Hung, L. Bun, O. Eth, W.W. Kyaw, H. Toe, "A Study on Impact on QOL in Rural Communities in ASEAN by Renewable Energy", The 11th AUN/SEED-Net Regional Conference on Energy Engineering (University of the Philippines Diliman, Manila, 2018.10.1)
- 43 H. Ohgaki, "Study on QOL Change in Rural Community by Renewable Energy Electrification in Sarawak, Malaysia", 1st International Conference on New Frontiers in Engineering, Science and Technology (Delhi Technological University, New Delhi, India, 2018.1.9)

- 44 Hideaki Ohgaki, "Introduction to JASTIP and JASTIP-Net activities Electrification in Sarawak, Malaysia", JASTIP Workshop Community Renewable Energy in Vietnam, Thailand and Japan 2017 (Can Tho University, 2017.7.28)
- 45 Hideaki Ohgaki, "JASTIP Approach to to Exit Strategy", Feasibility Study on Social Implementation of Bioenergy in East Asia (Convention Center Room CC405, NSTDA, Thailand, 2017.10.31)
- 46 Hideaki Ohgaki, "NRF based Nondestructive Inspection System for SNM using Laser-Compton Gamma-rays", The 2nd Workshop on Radiation Security Inspection Technology (KAERI, Dejeong, Korea, 2017.12.1)
- 47 H. Ohgaki, "Study on Energy Usage and Quality of Life for Rural Community Through Rural Electrification using", Renewable Energy, The 3rd ASEAN Smart Grid Congress and the 5th International Conference on Sustainable Energy (Ho Chi Minh City University of Technology, Ho Chi Minh, December 4, 2017).
- 48 H. Ohgaki, "Impact of Solar Home System on Change of Quality of Life in Rural Community in Sarawak, Malaysia", The 10th Regional Conference on Energy Engineering (RCEnE2017)"Energy Sufficiency and Efficiency through Regional Collaboration" (Yangon Technological University, Yangon, November 9, 2017)
- 49 H. Ohgaki, "Study on Life Style Change in Rural Community by Renewable Energy Electrification: preliminary result in Sarawak, Malaysia", 6th World Conference on Applied Sciences, Engineering and Technology (Universitas Muhammadiyah Ponorogo, INDONESIA, August 26, 2017)
- 50 H. Ohgaki, "Study on Energy Usage and Quality of Life Change for Rural Community through Rural Electrification by Renewable Energy: Preliminary Result", 6th INTERNATIONAL SYMPOSIUM ON THE FUSION OF SCIENCE AND TECHNOLOGIES (Jeju-si, Korea, July 18, 2017)
- 51 H. Ohgaki, "Introduction of Japan-ASEAN International Collaboration Platform on Renewable Energy and Environment, JASTIP-WP2", AUN/SEED-Net Regional Conference on Mechanical and Manufacturing 2017 (MUANG THANH LUXURY VIENTIANE HOTEL, Vientiane, Laos, June 29, 2017)"
- 52 H. Ohgaki, "Development of MIR-FEL and THz Radiation Source in Kyoto University", Workshop on THz FEL (Hefei, China, Dec.22, 2016)
- 53 H. Ohgaki, "Invitation to Japan-ASEAN international collaboration platform, JASTIP", 2016 AUN/SEED-Net Regional Conference on Energy Engineering (Phnom Penh, Cambodia, Nov.24, 2016)
- 54 H. Ohgaki, "Invitation to Join International Collaboration Research on Renewable Energy by Japan-ASEAN Science, Technology and Innovation Platform (JASTIP) - WP2", The

- e-ASIA JRP International Workshop 2016 on "Green and Renewable Energy Technology for Sustainable Environment" (Vientiane, LaoPDR, Oct.31, 2016)
- 55 H. Ohgaki, "NRF based Nondestructive Inspection System for SNM using Laser-Compton Gamma-rays", Nuclear Photonics 2016 (Monterey, CA, USA, Oct.20,2016)
 - 56 H. Ohgaki, "Introduction of JASTIP-WP2 and Possible Collaboration in Bio-resource and Biomass Utilization Studies", JASTIP Work Package 3 Kick-off Symposium : Collaborative Bioresources and Biodiversity Studies for the ASEAN Region,(Jakarta, Indonesia, June 10, 2016)
 - 57 H. Ohgaki, "Introduction of JASTIP program, Japan ASEAN Science and Technology Innovation Platform (JASTIP)" Kick-off Workshop at National Science and Technology Development Agency (NSTDA), (Pathumthani, Thailand, Feb. 29, 2016)
 - 58 H. Ohgaki, "Development of Portable Non-Destructive Assay System for SNMs", The International Symposium on Technology Development for Nuclear Non-Proliferation and Nuclear Security, (Tokyo, Japan, Feb.10, 2016)
 - 59 H. Ohgaki, "Clean and Efficient Utilization of Low Rank Coals and Biomass by Solvent Treatment Method", 5th International Symposium on "Fusion of Science and Technology", (New Dehli, India, Jan. 19, 2016)
 - 60 H. Ohgaki, "Introduction of Advanced Energy Research in IAE, Kyoto University", KL SYMPOSIUM ON ASEAN UNIVERSITY NETWORK (AUN) - KYOTO UNIVERSITY (KU) STUDENT MOBILITY PROGRAM TOWARD HUMAN SECURITY DEVELOPMENT, (Kuala Lumpur, Nov.23, 2015)
 - 61 H. Ohgaki, "Clean and Efficient Utilization of Low Rank Coals and Biomass by Solvent Treatment Method", Hideaki Ohgaki, Kouichi Miura, Ryuichi Ashida, 2015 Regional Conference on Energy Engineering (RCEnE) / 7th International Conference of Thermofluids (THERMOFLUID) (Jogyakarta, Nov.19, 2015).
 - 62 大垣英明、「中赤外自由電子レーザーでできること」京都市成長産業創造センター 創立2周年記念フォーラム (京都市成長産業創造センター, 平成27年11月4日)
 - 63 Hideaki Ohgaki, Kouichi Miura, Ryuichi Ashida, "Clean and Efficient Utilization of Low Rank Coals and Biomass by Solvent Treatment (SATREPS)", The World Conference on Applied Sciences, Engineering and Technology (WCSET) 2015, (Kumamoto, Oct. 24, 2015)
 - 64 H. Ohgaki, "Recent UY-KU Collaboration Activities in Energy Science Field", The 1st Southeast Asia Network Forum: Exploring Potential of Academic and Research Collaboration between University of Yangon and Kyoto University (Yangon, Sep.22, 2015).

- 65 H. Ohgaki, "A Story of SEE Forum, Academic Network to Research and Capacity Building", Regional Forum on Climate Change (RFCC) - Low Carbon and Climate Resilient Societies: Bridging Science, Practice, and Policy (Bangkok, 1-3 July, 2015).
- 66 H. Ohgaki, "UNESCO-COMPETENCE, Energy for Sustainable Development in Asia" Course, and its extension activities in Vietnam, Laos, Cambodia, and Myanmar", International Workshop on Sustainability Science 2015: Sustainability Science for Sustainable Development Goals (SDGs), Traders Hotel, Kuala Lumpur, Malaysia (March 4, 2015).
- 67 H. Ohgaki, "GBS applications TDR1 (Industrial Applications)", ELI-NP Science Program and Instruments Technical Design Report, Bucharest Magurele, Romania (Feb.19, 2015).
- 68 H. Ohgaki, "Generation and Application of Mid Infrared Free Electron Laser, KU-FEL, in Kyoto University", 2014 AUN/SEED-Net Regional Conference in Energy Engineering Field, Sukosol Hotel, Bangkok, Thailand (Nov. 14, 2014).
- 69 H. Ohgaki, "Energy Situation in ASEAN countries, Vietnam, Laos, Cambodia, Myanmar", Southeast Asia Forum (Bangkok, Feb. 2, 2015).
- 70 H. Ohgaki, "Introduction of Energy research in KU" and "individual research", Bandung Symposium on ASEAN University Network (AUN)-Kyoto University (KU) Student Mobility Program toward Human Security Development, East Hall, ITB, Bandung, Indonesia (June 24, 2014).
- 71 大垣英明「電子 Linac を用いた中赤外自由電子レーザー (KU-FEL) の開発と利用」第 27 回タンデム加速器およびその周辺技術の研究会, (July 5, 2014, Uji, Kyoto)
- 72 H. Ohgaki, "Clean and Efficient Utilization of Low Rank Coal and Biomass Technology under JICA-JST SATREPS program", The 3rd IEEE International Conference on Clean Energy and Technology (CEAT) (Nov.24, 2014)
- 73 H. Ohgaki, "The Science of Nuclear Materials Detection using gamma-ray beams: Nuclear Resonance Fluorescence", The Fourth Joint Meeting of the Nuclear Physics Divisions of the American Physical Society and The Physical Society of Japan (Hawaii2014)(October 7, 2014, Waikoloa, USA)
- 74 H. Ohgaki, "Generation and Application of Mid Infrared Free Electron Laser, KU-FEL, in Kyoto University", The 3rd International Symposium on the Fusion Technologies (ISFT2014) (July 31, 2014, Jeonju, Korea)
- 75 H. Ohgaki, "Non-Destructive Inspection System for Special Nuclear Material using Inertial Electrostatic Confinement Fusion Neutrons and Laser Compton Scattering Gamma-rays", NPNSNP (Jan.29,2014,Tokai)
- 76 大垣英明「中性子／ γ 線による核物質探査非破壊検知」レーザー学会第 456 回研究会・大エネルギー高出力レーザーを利用した科学研究 (2014 年 1 月 8 日、大阪

大学)

- 77 H. Ohgaki, "Energy situation in Japan - still waffling after FUKUSHIMA", NTU-KU Symposium (Dec.20, 2013, Taipei)
- 78 H. Ohgaki, "Energy situation in Japan - still waffling after FUKUSHIMA", CEAT2013(Nov.19, Langkawi)
- 79 H. Ohgaki, "Development of Non-Destructive Inspection System for Special Nuclear Material using Inertial Electrostatic Confinement Fusion Neutrons and Laser Compton Scattering Gamma-rays", AUN/SEED-NET Regional Conference (Sep.7, 2013, Bandung)
- 80 H. Ohgaki, "Current Issues on Nuclear Security in Japan: Technological View", The 1st Bristol-Kyoto Symposium(11th January 2012) Bristol, UK
- 81 H. Ohgaki, "Nuclear Security Technologies in Japan", 10th EMSES 2012 (6th Dec, 2012)Ubon Rachatani, Thailand
- 82 H. Ohgaki, "Development of Non-Destructive Inspection System for Special Nuclear Material", BU-KU Mini-workshop (10.02,2012) Bristol, UK
- 83 H. Ohgaki, "Introduction of Institute of Advanced Energy", BU-KU Mini-workshop (10.01,2012) Bristol, UK
- 84 大垣英明「光・エネルギーナノサイエンス：京都大学エネルギー理工学研究所の取り組み」立命館大学S Rセンター研究成果報告会（2012年6月9日）立命館大学びわこ草津キャンパス
- 85 H. Ohgaki, "Non-destructive Inspection of hidden SNM by using Laser-Compton Backscattering Gamma-ray induced NRF", KAERI WCI International Advisory Meeting, KOREA ATOMIC ENERGY RESEARCH INSTITUTE, DAEJON, KOREA (2011年9月23日)
- 86 H. Ohgaki, "Accelerator Based Photon Beams, Generation and Applications at Kyoto University", IQEC/CLEO Pacific Rim 2011 (Sep.31, 2011), Sydney, Australia.
- 87 H. Ohgaki, "Isotope Detection by nuclear resonance fluorescence with laser Compton Gamma-rays", China-Korea-Japan Joint Workshop on electron/photon sources and applications (December 2, 2010) Shanghai Institute of Applied Physics (SINAP), Shanghai, China
- 88 H. Ohgaki, T. Kii, K. Masuda, Tsuyoshi Misawa, Cheol-Ho PYEON, Ryoichi Hajima, Takehito Hayakawa, Toshiyuki Shizuma, Masaki Kando, Izuru Daito, Hiroyuki Toyokawa, "Proposal of a Non-Destructive Detection System for Hidden Nuclear Materials Based on a Neutron / Gamma-ray Hybrid Approach", The 17th International Symposium on Laser Spectroscopy (2010/11/05, KAERI, Daejeon, Korea)
- 89 大垣英明「レーザー逆コンプトンガンマ線を用いた核共鳴蛍光散乱実験とその同位体検出法への応用」第11回光量子科学研究シンポジウム（2010/6/25 日本原子

力研究開発機構関西研究所)

- 90 大垣英明「FEL 光源に関する京都大学の研究」学生院生のための第2回 X 線自由電子レーザーシンポジウム (2010/6/24 京都大学)
- 91 H. Ohgaki, “Development of MIR-FEL and THz radiation at IAE, Kyoto University”, TARLA IMAC meeting(2009/12/4, Ankara University, Ankara, Turkey)
- 92 H. Ohgaki, “Development of MIR-FEL and THz radiation at IAE, Kyoto University”, 7th Eco-Energy and Materials Science and Engineering Symposium (2009/11/19, RMUTT, Chang-Mai, Thailand)
- 93 H. Ohgaki, “Research Activities on MIR-FEL and Table Top THz Generation in Kyoto University”, The 16th International Symposium on Laser Spectroscopy(2009/11/13, KAERI, Daejon, Korea)
- 94 H. Ohgaki, “Quantum Beams for Advanced Energy Sciences in Japan”, WREC 2009, Bangkok, Thailand, 18-23 May 2009.
- 95 大垣英明「レーザーコンプトン散乱による γ 線生成システムの進展と今後の応用について」SAGA-LS セミナー (2009/2/27 鳥栖)
- 96 H. Ohgaki, “Electron Beam and Radiation Sources for Advanced Energy Sciences in Japan”, The 4th Workshop on Electron Beam Applications & Korea-Japan Joint Workshop on Quantum Radiation Sources for Advanced Science (2009/3/13 Daejon, Korea)
- 97 H. Ohgaki, “Introduction of Kyoto University G-COE program and Promotion of international collaborative funding”, RENEWABLE ENERGY ASIA 2008 & 4th SEE FOURM MEETING (2008/12/11 New Dehli, India)
- 98 H. Ohgaki, “First Lasing of MIR-FEL at Kyoto University”, The 30th International Free electron laser Conference(2008/8/25 Gyeongju, Korea)
- 99 大垣英明「レーザーコンプトン γ 線源の開発と利用」量子ビーム科学研究会 (2005/12/9 Tosu, Japan)
- 100 大垣英明「佐賀SR施設での逆コンプトンガンマ線」MeV ガンマ線による核物理 (2004/10/1, Fukuoka, Japan)
- 101 大垣英明「産総研でのレーザー逆コンプトン散乱 γ 線発生とその利用」、第2回核異性体・FEL 応用研究会 (2003/3/10, Kizu, Japan)
- 102 H. Ohgaki, “Laser-Compton Gamma-ray Beam at AIST(ETL): Development and application”, Workshop on Applications of IRFEL and Nuclear Isomers (2001/9/28, Tokai, Japan)
- 103 大垣英明「MeV から X 線領域のレーザーコンプトン光子の発生」日本物理学会第57回年次大会 (2002/3/26 Kusatsu, Japan)
- 104 H. Ohgaki, “ETL Laser Compton Photon Source for Nuclear Physics in MeV Region”, Int'l Workshop on Laser Electron Photons at SPring-8 (2000/10/15)

8. Award

- 1) The honorary degree of Doctor of Engineering (Energy and Material Engineering), H. Ohgaki, Rajamangala University of Technology Thanyaburi (Thailand), 2023.09.27.
- 2) 第五回日本赤外線学会誌 論文賞「中赤外パルスレーザーを用いた選択的格子振動励起の直接観測と和周波要素の分離」吉田恭平、桂山翼、村田智哉、全炳俊、蜂谷寛、紀井俊輝、増田開、大垣英明 (2019.5.31)
- 3) 日本原子力学会第 11 回社会・環境部会賞 (優秀発表賞)「ミクロ経済学の理論と計量経済学の技法に基づく、原子力施設が地域の社会・経済の厚生に与える影響に関する一連の研究」(2015.3.20)
- 4) Excellence Paper Award, The 3rd International Symposium on Fusion Science & Techonology, 2014. 8. 3 (Korea)
- 5) 日本原子力学会第 32 回論文賞 (2000.March)「光核反応微細構造の超高分解能測定」
- 6) 電子技術総合研究所研究業績賞 (1999. July)
- 7) 電子技術総合研究所研究業績賞 (1991.July)