

A. Refereed Publications

- A1. **"X-ray Fading and Expansion in the "Miniature Supernova Remnant" of GK Persei"**
 Takei, D., Drake, J. J., Yamaguchi, H., Slane, P., Uchiyama, Y., and Katsuda, S., 2015, *Astrophysical Journal*, 801, 92
- A2. **"X-ray Development of the Classical Nova V2672 Ophiuchi with Suzaku"**
 Takei, D., Tsujimoto, M., Drake, J. J., and Kitamoto, S., 2014, *Publication of Astronomical Society of Japan*, 66(2), 37
- A3. **"A Magnetic Accretion Switch in Pre-Cataclysmic Binaries"**
 Drake, J. J., Garraffo, C., Takei, D., and Gaensicke, B., 2014, *Monthly Notices of the Royal Astronomical Society*, 437, 3842-3847
- A4. **"X-ray Eclipse Diagnosis of the Evolving Mass Loss in the Recurrent Nova U Scorpii 2010"**
 Takei, D., Drake, J. J., Tsujimoto, M., Ness, J.-U., Osborne, J. P., Starrfield, S., and Kitamoto, S., 2013, *Astrophysical Journal Letters*, 769, L4
- A5. **"Discovery of X-ray Emission in the Old Classical Nova DK Lacertae"**
 Takei, D., Sakamoto, T., and Drake, J. J., 2013, *Astronomical Journal*, 145, 18
- A6. **"X-ray Study of Rekindled Accretion in the Classical Nova V2491 Cygni"**
 Takei, D., Ness, J.-U., Tsujimoto, M., Kitamoto, S., Drake, J. J., Osborne, J. P., Takahashi, H., and Kinugasa, K., 2011, *Publication of Astronomical Society of Japan*, 63S, 729
- A7. **"Beginning of the Super-Soft Phase of the Classical Nova V2491 Cygni"**
 Takei, D. and Ness, J.-U., 2010, *Astronomische Nachrichten*, 331, 183
- A8. **"X-ray Energy Spectra of CAL87"**
 Ebisawa, K., Rauch, T., and Takei, D., 2010, *Astronomische Nachrichten*, 331, 152
- A9. **"X-ray Polarimeter with a Transmission Multilayer"**
 Kitamoto, S., Murakami, H., Shishido, Y., Gotoh, N., Shibata, T., Saito, K., Watanabe, T., Kanai, J., Takenaka, E., Nagasaki, K., Yoshida, M., Takei, D., and Morii, M., 2010, *Review of Scientific Instruments*, 81, 023105
- A10. **"Suzaku Detection of Superhard X-ray Emission from the Classical Nova V2491 Cygni"**
 Takei, D., Tsujimoto, M., Kitamoto, S., Ness, J.-U., Drake, J. J., Takahashi, H., and Mukai, K., 2009, *Astrophysical Journal Letters*, 697, L54-L57
- A11. **"Swift X-ray and Ultraviolet Monitoring of the Classical Nova V458 Vul (Nova Vul 2007)"**
 Ness, J.-U., Drake, J. J., Beardmore, A. P., Boyd, D., Bode, M. F., Brady, S., Evans, P. A., Gaensicke, B. T., Kitamoto, S., Knigge, C., Miller, I., Osborne, J. P., Page, K. L., Rodriguez-Gil, P., Schwarz, G., Staels, B., Steeghs, D., Takei, D., Tsujimoto, M., Wesson, R., and Zijlstra, A., 2009, *Astronomical Journal*, 137, 4160-4168
- A12. **"X-ray Spectroscopy of the Classical Nova V458 Vulpeculae with Suzaku"**
 Tsujimoto, M., Takei, D., Drake, J. J., Ness, J.-U., and Kitamoto, S., 2009, *Publication of Astronomical Society of Japan*, 61, S69
- A13. **"New CTI Correction Method for Spaced-Row Charge Injection of the Suzaku X-ray Imaging Spectrometer"**
 Uchiyama, H., Ozawa, M., Matsumoto, H., Tsuru, T. G., Koyama, K., Kimura, M., Uchida, H., Nakajima, H., Hayashida, K., Tsunemi, H., Mori, H., Bamba, A., Ozaki, M., Dotani, T., Takei, D., Murakami, H., Mori, K., Ishisaki, Y., Kohmura, T., Prigozhin, G., Kissel, S., Miller, E. D., Lamarr, B., and Bautz, M., 2009, *Publication of Astronomical Society of Japan*, 61, S9
- A14. **"Detection of a Rare Supersoft Outburst Event during a Suzaku Observation of 1E0102.2-7219"**
 Takei, D., Tsujimoto, M., Kitamoto, S., Morii, M., Ebisawa, K., Maeda, Y., and Miller, E. D., 2008, *Publication of Astronomical Society of Japan*, 60, S231

A15. "Orbital Calibration of the XIS"

Hayashida, K., Torii, K., Namiki, M., Anabuki, N., Katsuda, S., Tawa, N., Miyauchi, T., Hasuike, K., Nagai, M., Tsunemi, H., Matsumoto, H., Tsuru, T. G., Mori, H., Nakajima, H., Yamaguchi, H., Hyodo, Y., Inui, T., Uchiyama, H., Ozawa, M., Koyama, K., Miller, E. D., Bautz, M. W., Lamarr, B., Kissel, S. E., Dotani, T., Murakami, H., Ozaki, M., Anada, T., Bamba, A., Hiraga, J., Senda, A., Takei, D., Kitamoto, S., Mori, K., Maeno, S., and Suzaku XIS Team, 2007, *Progress of Theoretical Physics Supplement*, 169, 316-321

B. Unrefereed Publications**B1. "X-ray Detection of the Old Nova T Aurigae"**

Bancroft, K., Takei, D., Drake, J. J., Sakamoto, T., and Fruscione, A., 2015, *The Astronomer's Telegram*, 7024, 1

B2. "Ejecta Clumpiness of the Classical Nova V2672 Ophiuchi with Suzaku"

Takei, D., Tsujimoto, M., Drake, J. J., and Kitamoto, S., 2014, *Proceedings of the International Suzaku-MAXI Workshop*, 108

B3. "Development and Performance of Kyoto's X-ray Astronomical SOI pixel (SOIPIX) Sensor"

Tsuru, T. G., Matsumura, H., Takeda, A., Tanaka, T., Nakashima, S., Arai, Y., Mori, K., Takenaka, R., Nishioka, Y., Kohmura, T., Hatsui, T., Kameshima, T., Ozaki, K., Kohmura, Y., Wagai, T., Takei, D., Kawahito, S., Kagawa, K., Yasutomi, K., Kamehama, H., and Shrestha, S., 2014, *Proceedings of the SPIE*, 9144

B4. "The Impact of Suzaku on the Knowledge of Cataclysmic Variables"

Takei, D., 2012, *Memorie della Societa Astronomica Italiana*, 83, 624

B5. "X-ray Emission Lines in Nova LMC 2012 with Chandra"

Takei, D., Drake, J. J., Ness, J.-U., Starrfield, S., Schwarz, G., Page, K. L., Osborne, J. P., Rossum, D. R. v., and Walter, F. M., 2012, *The Astronomer's Telegram*, 4116, 1

B6. "X-ray Studies of Classical Novae with Suzaku"

Takei, D., 2012, *American Institute of Physics Conference Series*, 1427, 123-125

B7. "A New X-ray Interferometer"

Kitamoto, S., Murakami, H., Takei, D., Sakata, K., and Yoshida, Y., 2011, *Proceedings of the SPIE*, 8147

B8. "Swift Detects the Recurrent Nova T Pyx during the Rise to Outburst"

Kuulkers, E., Page, K. L., Ness, J.-U., Osborne, J. P., Balman, S., Starrfield, S., Beardmore, A. P., Bode, M. F., Darnley, M. J., Drake, J. J., Evans, P. A., Eyres, S. P. S., O'Brien, T. J., Orio, M., Schaefer, B. E., Schwarz, G. J., Takei, D., and Walter, F. M., 2011, *The Astronomer's Telegram*, 3285, 1

B9. "Recent Progress of Hard X-ray Studies of Classical Novae"

Tsujimoto, M. and Takei, D., 2010, *Proceedings of the 4th International MAXI Workshop*

B10. "Imaging Experiment of an Adaptive Optics with a Normal-Incident EUV Telescope"

Murakami, H., Kitamoto, S., Takenaka, E., Shibata, T., Yoshida, M., Higashi, K., and Takei, D., 2010, *Proceedings of the SPIE*, 7803

B11. "Emergence of the Supersoft X-ray Phase of U Sco"

Schlegel, E. M., Schaefer, B., Pagnotta, A., Page, K., Osborne, J., Drake, J., Orio, M., Takei, D., Kuulkers, E., Ness, J.-U., Starrfield, S., and et al., 2010, *The Astronomer's Telegram*, 2430, 1

B12. "Detection of U Sco in X-rays"

Schlegel, E. M., Schaefer, B., Pagnotta, A., Page, K., Osborne, J., Drake, J., Orio, M., Takei, D., Kuulkers, E., and Ness, J.-U., 2010, *The Astronomer's Telegram*, 2419, 1

B13. "Discovery of Non-Thermal Emission from the Classical Nova V2491 Cygni"

Takei, D., Tsujimoto, M., Kitamoto, S., Ness, J.-U., Drake, J. J., Takahashi, H., and Mukai, K., 2010, *Proceedings of the Energetic Cosmos: from Suzaku to ASTRO-H Workshop*, 178

- B14. **"Early X-ray Detection of Nova Ophiuchi 2009 / V2672 Oph"**
Schwarz, G. J., Osborne, J. P., Page, K., Beardmore, A., Walter, F., Ness, J.-U., Mukai, K., Bode, M. F., Darnley, M. J., Kuulkers, E., Saxton, R. D., Starrfield, S., Drake, J., Takei, D., Balman, S., O'Brien, T., Wagner, R. M., and Orio, M., 2009, *The Astronomer's Telegram*, 2173, 1
- B15. **"EUV Imaging Experiment of an Adaptive Optics Telescope"**
Kitamoto, S., Shibata, T., Takenaka, E., Yoshida, M., Murakami, H., Shishido, Y., Gotoh, N., Nagasaki, K., Takei, D., and Morii, M., 2009, *Proceedings of the SPIE*, 7437
- B16. **"Development of an EUV Polarimeter with a Transmission Multilayer"**
Kitamoto, S., Murakami, H., Shishido, Y., Saito, K., Watanabe, T., Kanai, J., Takenaka, E., Nagasaki, K., Takei, D., and Morii, M., 2009, *Proceedings of the SPIE*, 7435
- B17. **"X-ray Study of Classical Novae : V458 Vul and V2491 Cyg"**
Takei, D., Tsujimoto, M., Drake, J., Ness, J.-U., Kitamoto, S., and Murakami, H., 2009, *Proceedings of the 3rd International MAXI Workshop*, 100
- B18. **"V458 Vul (Nova Vul 2007) becomes a Highly-Variable Supersoft X-ray Source"**
Drake, J. J., Page, K. L., Osborne, J. P., Beardmore, A. P., Ness, J.-U., Starrfield, S., Schwarz, G., Tsujimoto, M., Wesson, R., Bode, M., Rodriguez-Gil, P., Gaensicke, B., Steeghs, D., Knigge, C., Takei, D., and Zijlstra, A., 2008, *The Astronomer's Telegram*, 1721, 1
- B19. **"Suzaku ToO Studies of Classical Novae V458 Vul and V2491 Cyg"**
Takei, D., Tsujimoto, M., Drake, J., Ness, J.-U., Kitamoto, S., and Murakami, H., 2008, *Proceedings of the X-ray Universe 2008 Workshop*, Online
- B20. **"Continuing X-ray Emission of Nova Vul 2007"**
Drake, J. J., Page, K., Osborne, J., Beardmore, A., Ness, J.-U., Starrfield, S., Schwarz, G., Tsujimoto, M., Barlow, M., Wesson, R., Bode, M., Corradi, R., Rodriguez-Gil, P., Drew, J., Gaensicke, B., Steeghs, D., Knigge, C., Takei, D., and Zijlstra, A., 2008, *The Astronomer's Telegram*, 1603, 1
- B21. **"EUV-Imaging Experiments of a Normal Incident Telescope with an Adaptive Optics System"**
Kitamoto, S., Ogita, T., Shibata, T., Takenaka, E., Gotoh, N., Shishido, Y., Takei, D., Yoshida, M., Morii, M., and Murakami, H., 2008, *Proceedings of the SPIE*, 7015
- B22. **"Nova V2491 Cyg has become a Bright Super-Soft Source"**
Osborne, J. P., Page, K., Evans, P., Beardmore, A., Kuulkers, E., Ibarra, A., Ness, J.-U., Starrfield, S., Bode, M., Drake, J. J., Orio, M., Krautter, J., Tsujimoto, G. S. M., and Takei, D., 2008, *The Astronomer's Telegram*, 1542, 1
- B23. **"Suzaku Observation of AXP 1E1841-045 in SNR Kes 73"**
Morii, M., Kitamoto, S., Shibasaki, N., Takei, D., Kawai, N., Arimoto, M., Ueno, M., Terada, Y., Kohmura, T., and Yamauchi, S., 2008, *Proceedings of the 40 Years of Pulsars Workshop*, 983, 268-270
- B24. **"Suzaku XIS Observations of the 1E0102.2-7219 Region"**
Takei, D., Tsujimoto, M., Kitamoto, S., Morii, M., Ebisawa, K., Maeda, Y., and Miller, E. D., 2007, *Proceedings of the Extreme Universe in the Suzaku Era Workshop*, 2(CD-ROM), 80

C. Magazine Articles

- C1. **"Go to the Universe"**
Takei, D., 2015, *Young Researcher NEWS*, RIKEN, 25, 3
- C2. **"Carefree Alien"**
Takei, D., 2014, *How to Develop the Continuous English Educations*, Toshindo Publishing Co. Ltd., 5, 4
- C3. **"X-ray Observations of Classical Novae"**
Takei, D., 2010, *The Astronomical Herald*, The Astronomical Society of Japan, 103, 457-464

D. Presentations

- D1. **"X-ray Observations of Classical Nova Remnant GK Per using Chandra"**
Annual Meeting of the Astronomical Society of Japan, Oral (2015)
- D2. **"Development of X-ray Optics by the Berry's Phase Effect"**
Annual Meeting of the Japanese Society for Synchrotron Radiation Research, Oral (2015)
- D3. **"Development of X-ray Optics using a Deformed Single Crystal"**
The New World of Structural Visualization with Coherent X-rays, Poster (2014)
- D4. **"Discovery of X-ray Emission from Old Classical Nova DK Lac with Swift"**
Annual Meeting of the Astronomical Society of Japan, Oral and Poster (2014)
- D5. **"Ejecta Clumpiness of the Classical Nova V2672 Ophiuchi with Suzaku"**
Expanding the Frontiers of the X-ray Universe, Oral (2014)
- D6. **"Development of the RIKEN Physics-I Beamline BL29XUL in SPring-8"**
Annual Meeting of the Japanese Society for Synchrotron Radiation Research, Poster (2014)
- D7. **"The Impact of Suzaku on the Knowledge of Cataclysmic Variables"** Invited Talk
The Golden Age of Cataclysmic Variables and Related Objects, Oral (2011)
- D8. **"X-ray Observations of Recurrent Nova U Scorpii 2010 with Suzaku"**
High Energy Astrophysics Division Meeting, Oral (2011)
- D9. **"X-ray Studies of Classical Novae"**
Exploring the X-ray Universe: Suzaku and Beyond, Oral (2011)
- D10. **"Development of Light Sources for X-ray Interferometer Telescopes II"**
Annual Meeting of the Astronomical Society of Japan, Oral : Canceled for the Japan Earthquake (2011)
- D11. **"Discovery of Non-Thermal X-ray Emission from Classical Novae"**
Annual Meeting of the Astronomical Society of Japan, Oral : Canceled for the Japan Earthquake (2011)
- D12. **"Development of Coherent Sources for X-ray Interferometer Telescopes"**
Space Science Symposium, Poster (2011)
- D13. **"Development of Light Sources for X-ray Interferometer Telescopes"**
Annual Meeting of the Astronomical Society of Japan, Oral and Poster (2010)
- D14. **"Suzaku X-ray Observations of Classical Novae"**
The Physics of Accreting Compact Binaries, Oral (2010)
- D15. **"Target-of-Opportunity Observations of the Classical Nova V2672 Oph with Suzaku"**
Annual Meeting of the Astronomical Society of Japan, Oral and Poster (2010)
- D16. **"Recent X-ray Observations of Classical Novae with Suzaku"**
High Energy Astrophysics Division Meeting, Poster (2010)
- D17. **"Target-of-Opportunity Observations of the Classical Nova V2672 Oph with Suzaku"**
Space Science Symposium, Poster (2010)
- D18. **"X-ray Observations of Classical Novae"** Invited Talk
Binary Systems, Variable Stars, and Cool Stars Workshop, Oral (2009)
- D19. **"X-ray Spectroscopy of the Classical Nova V2491 Cygni"**
Annual Meeting of the Astronomical Society of Japan, Oral and Poster (2009)
- D20. **"Discovery of Non-thermal Emission from the Classical Nova V2491 Cygni"**
The Energetic Cosmos: from Suzaku to Astro-H, Oral (2009)
- D21. **"Suzaku Observations of a Super Soft Source and Classical Novae"**
ESAC Science Workshop, Oral (2009)
- D22. **"Target-of-Opportunity Observations of the Classical Nova V2491 Cygni with Suzaku"**
Annual Meeting of the Astronomical Society of Japan, Oral and Poster (2009)

- D23. **"Suzaku Observations of the Classical Nova V2491 Cygni"**
Wild Stars in the Old West II, Poster (2009)
- D24. **"Target-of-Opportunity Observations of the Classical Novae V458 Vul and V2491 Cyg with Suzaku"**
Space Science Symposium, Poster (2009)
- D25. **"Target-of-Opportunity Observations of the Classical Nova V2491 Cyg with Suzaku"**
Binary Systems, Variable Stars, and Cool Stars Workshop, Oral (2008)
- D26. **"New Pictures of Classical Nova Outbursts with Suzaku" Review Talk**
Annual Meeting of the Astronomical Society of Japan, Oral (2008)
- D27. **"Early Observation of Classical Novae V458 Vul and V2491 Cyg with Suzaku"**
The 37th COSPAR Scientific Assembly, Poster (2008)
- D28. **"X-ray Study of Classical Novae : V458 Vul and V2491 Cyg"**
The 3rd International MAXI Workshop, Poster (2008)
- D29. **"Suzaku ToO Studies of Classical Novae V458 Vul and V2491 Cyg"**
The X-ray Universe, Poster (2008)
- D30. **"Target-of-Opportunity Observations of the Classical Nova V458 Vulpeculae with Suzaku"**
Annual Meeting of the Astronomical Society of Japan, Oral and Poster (2008)
- D31. **"Discovery of a Supersoft X-ray Source Suzaku J0105–72 with Suzaku"**
Space Science Symposium, Poster (2008)
- D32. **"XMM-Newton Observations of the Super Soft Source CAL87"**
The Suzaku X-ray Universe, Poster (2007)
- D33. **"X-ray Observations of the Supersoft Source CAL87 with XMM-Newton"**
Binary Systems, Variable Stars, and Cool Stars Workshop, Poster (2007)
- D34. **"ASCA, XMM-Newton, and Chandra Spectroscopy of the Supersoft X-ray Source CAL87"**
Annual Meeting of the Astronomical Society of Japan, Oral and Poster (2007)
- D35. **"Discovery of a Transient Source during a Suzaku Observation of 1E0102.2–7219"**
Annual Meeting of the Astronomical Society of Japan, Oral and Poster (2007)
- D36. **"Discovery of a Transient Source during a Suzaku/XIS Observation of 1E0102–72"**
The Extreme Universe in the Suzaku Era, Poster (2006)
- D37. **"Performance Verification of Suzaku/XIS with the Supernova Remnant 1E0102.2–7219"**
Annual Meeting of the Astronomical Society of Japan, Oral and Poster (2006)

E. Fellowships and Research Grants

- E1. **"Development of a Next Generation X-ray Interferometric Telescope using a Diamond Crystal"**
Japan Society for the Promotion of Science, KAKENHI - Grant-in-Aid for Challenging Exploratory Research : 3,770,000 JPY (2014–2016)
- E2. **"Development of an X-ray Crystal Interferometric Telescope"**
RIKEN, Grant-in-Aid for Special Postdoctoral Researchers : 1,000,000 JPY/year (2013–2016)
- E3. **"Research Project on Classical Novae T Aurigae and DK Lacertae"**
NASA/SAO, Chandra GO15 Program : 28,898 USD (2013)
- E4. **"Research Project on the Classical Nova GK Persei"**
NASA/SAO, Chandra GO15 Program : 56,000 USD (2013)
- E5. **"Travel Expense for Taking an Invited Talk in an Italian Conference"**
Hayakawa Satio Foundation, Grant-in-Aid for Research Abroad of Young Scientists : 141,600 JPY (2011)

- E6. **"High-Resolution X-ray Imaging and Spectroscopic Studies of Classical Novae"**
Japan Society for the Promotion of Science, Grant-in-Aid for Postdoctoral Fellowships for Research Abroad : 5,256,000 JPY/year (2011–2013)
- E7. **"Research Project on White Dwarf Binaries and Supersoft X-ray Sources"**
Japan Society for the Promotion of Science, Grant-in-Aid for DC1 Research Fellowships for Young Scientists : 600,000 JPY/year (2008–2011)
- E8. **"Total Exemption from Repayment as a Benefit of Achieving Outstanding Results"**
Japan Student Services Organization, Type I Scholarships for Graduate Students : 1,920,000 JPY (2008)

F. Press Releases and Public Outreaches

- F1. **"Mini Supernova Explosion Could Have Big Impact"**
Chandra Photo Album, Chandra X-ray Center (2015) : Featured on NASA, National Geographic, The Weather Channel, Smithsonian, HEASARC, Yahoo News, etc.
- F2. **"Time Lapse Snapshots of a Nova's Fading Light"**
RIKEN Press Release, RIKEN (2015) : Featured on Yahoo News, Kobe Shimbun, Nikkei Sangyo Shimbun, Alpha Galileo, Eurek Alert, JST Science Portal, Fuji Sankei Business i, Astro Arts, Zaikei Shimbun, etc.
- F3. **"Are Classical Novae a New Candidate for the Origin of Galactic Cosmic-Rays?"**
Suzaku Press Release, Japan Aerospace Exploration Agency (2009)
- F4. **"A Standard Candle in the Universe — Calibrating X-ray Camera Using a Stellar Remnant"**
DARTS of the Month, Japan Aerospace Exploration Agency (2007)

G. Competitive Time Allocations

- G1. **"X-ray Imaging Spectroscopy of the Evolving Nova Remnant in GK Per"**
Chandra X-ray Observatory, Cycle 15, 100 ksec (2013)
- G2. **"X-ray Imaging Spectroscopy of Potential X-ray Remnants in Old Novae T Aur and DK Lac"**
Chandra X-ray Observatory, Cycle 15, 5+3 ksec (2013)
- G3. **"A Complete X-ray Survey of Classical Novae in the 21st Century"**
Swift Observatory, Cycle 9, Fill-In, 19×5 ksec (2013)
- G4. **"Optical Spectroscopy of the Anomalous Transient MAXI J0158–744"**
Magellan Observatory, 2012 Semester B, 6 nights (2012)
- G5. **"X-ray Spectroscopy of the Recurrent Nova T Pyxidis"**
Suzaku X-ray Observatory, AO-7, 100 ksec (2012)
- G6. **"X-ray Spectroscopy of the Recurrent Nova RS Ophiuchi"**
Suzaku X-ray Observatory, AO-6, 100 ksec (2012)
- G7. **"X-ray Survey of Non-Thermal Emission from Classical Nova Remnants"**
Swift Observatory, Cycle 8, Fill-In, 36×5 ksec (2011)
- G8. **"X-ray Spectroscopy of the Classical Nova V1280 Scorpii"**
Suzaku X-ray Observatory, AO-5, 100 ksec (2011)
- G9. **"X-ray Spectroscopy of the Recurrent Nova U Scorpii"**
Suzaku X-ray Observatory, AO-4, Reserved ToO, 40+20+20 ksec (2010)
- G10. **"X-ray Spectroscopy of the Classical Nova V2672 Ophiuchi"**
Suzaku X-ray Observatory, AO-3, Generic ToO, 20+20 ksec (2009)
- G11. **"X-ray Spectroscopy of the Classical Nova V2491 Cygni"**
Suzaku X-ray Observatory, AO-2, Generic ToO, 20+20 ksec (2008)