

STEFANIE WACHTER

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Nationality: German

Language Proficiency: German, English

Research Interests Physics of compact objects (white dwarfs, neutron stars, black holes), end stages of stellar evolution, supernova remnants, stellar mass loss and the interaction with the local environment, X-ray binaries, accretion processes, formation and evolution of binary stars

Education

- Ph.D. (Astronomy), University of Washington, 1998
- M.S. (Astronomy), University of Washington, 1993
- Diplom (Physics), Ludwig-Maximilian University, Munich, 1992
- M.S. (Physics), University of California, Davis, 1990

Professional History

- WISE Science Center, California Institute of Technology:
 - Assistant Research Scientist, WISE Instrument Characterization Team, 2008 – present
- Spitzer Science Center, California Institute of Technology:
 - Assistant Research Scientist, MIPS IST, 2005 – present
 - Assistant Staff Scientist, MIPS Instrument Support Team, 2002 – 2005
- Cerro Tololo Inter-American Observatory:
 - Assistant Astronomer (tenure track), 2000 – 2001
 - Postdoctoral Researcher, 1998 – 2000
- University of Washington, Department of Astronomy:
 - Visiting Scholar, 2001 – 2002
 - Research Assistant, 1993 – 1998

Technical Skills

- Extensive experience in the operation and support of ground and space-based telescopes and astronomical instruments
- Particular experience with downlink operations, pipeline processing, calibration and data quality monitoring, support of data workshops
- Expertise in the acquisition, processing, and analysis of astronomical data obtained at infrared, optical, UV, and X-ray wavelengths (photometry and spectroscopy)

**Selected
Grants
Record**

- 2008: Spitzer Space Telescope, Cycle 5, “*A Magnetar Mystery: The Nature of the Ring around SGR 1900+14*”
- 2005: Spitzer Space Telescope, Cycle 2, “*Shedding New Light on the Stellar Graveyard: Compact Objects in the Mid-IR*”
- 2005: Spitzer Space Telescope, Cycle 2, “*What makes a Neutron Star a Magnetar?*”
- 2005: Spitzer Space Telescope, Cycle 2, “*Jets in Neutron Star X-ray Binaries: A First Look at Sco X-1 in the Mid-Infrared*”
- 2004: Chandra X-ray Observatory, Cycle 6, “*Faint Quiescent Neutron Star Soft X-ray Transients*”
- 2004: Spitzer Space Telescope, “*Detecting the Brown Dwarf Secondary Stars in Cataclysmic Variables*”
- 2004: HST, “*A Never Before Explored Phase Space: Resolving Close White Dwarf/Red Binaries*”
- 2004: NASA ADP, “*Cool Companions of White Dwarfs: Implications for Binary Star Formation and Evolution*”
- 2003: Chandra X-ray Observatory, Cycle 4, “*Locating the Counterparts of the Intriguing X-ray Bursters X1702-429 and X1715-321*”
- 2001: Chandra X-ray Observatory, Cycle 3, “*Locating the Elusive Counterpart of the Unusual X-ray Dipper X1624-490*”

**Selected
Professional
Activities**

- 2008: Spitzer Fellowship Selection Committee Member
- 2007: Chair of the Scientific Organizing Committee for “A Population Explosion: The Nature and Evolution of X-ray Binaries in Diverse Environments”, St. Petersburg, Florida, 2007, 28 Oct - 2 Nov
- 2007-present: NOAO Time Allocation Committee Member
- 2006, 2009: Peer review panel member, NSF
- 2005: Peer review panel member, Hubble Space Telescope
- 2004, 2001-2002: NOAO Time Allocation Committee Member
- 2003-2006: Member of the AAS Committee on the Status of Women in Astronomy
- 2003: Peer review panel member, Chandra X-ray Observatory
- 2003: Selection Committee Member for the AAS Small Research Grant
- 2002: Member of the Scientific/Local Organizing Committee for the ESO/CTIO/LCO International Workshop “Galactic Star Formation across the Stellar Mass Spectrum”, La Serena, Chile, 2002, March 10 - 15
- 1999-present: Research Advisor for Undergraduates, Graduate Students, and Postdocs

STEFANIE WACHTER

PUBLICATION LIST

Refereed Publications

1. Bornak, J., McNamara, B. J., Harrison, T. E., Rupen, M., Bandyopadhyay, R. M., Wachter, S. 2009, ApJL, submitted – *A Possible Period for the K-band Brightening Episodes of GX 17+2*
2. Kaplan, D. L., Chakrabarty, D., Wang, Z., Wachter, S. 2009, ApJ, submitted – *A Mid-Infrared Counterpart to the Magnetar 1E 2259+586*
3. Hoard, D. W., Kafka, S., Wachter, S. et al. 2009, ApJ, 693, 236 – *Observations of V592 Cassiopeiae with the Spitzer Space Telescope – Dust in the Mid-Infrared*
4. Wachter, S., Ramirez-Ruiz, E., Dwarkadas, V. V., Kouveliotou, C., Granot, J., Patel, S. K., Figer, D. 2008, Nature, 453, 626 – *Detection of an infrared ring around the magnetar SGR 1900+14*
5. von Braun, K., van Belle, G. T., Ciardi, D. R., Lopez-Morales, M., Hoard, D. W., Wachter, S. 2008, ApJ, 677, 545 – *Spitzer 24 μ m Time Series Observations of the Eclipsing M Dwarf Binary GU Boötis*
6. Burleigh, M. R., Clarke, F. J., Hogan, E., Brinkworth, C. S., Bergeron, P., Dufour, P., Dobbie, P. D., Levan, A. J., Hodgkin, S. T., Hoard, D. W., Wachter, S. 2008, MNRAS, in press – *The ‘DODO’ survey - I. Limits on ultra-cool substellar and planetary-mass companions to van Maanen’s star (vMa2)*
7. Hoard, D. W., Howell, S. B., Brinkworth, C. S., Ciardi, D. R., Wachter, S. 2007, ApJ, 671, 734 – *The Mid-Infrared Spectrum of the Short Orbital Period Polar EF Eridani from the Spitzer Space Telescope*
8. Stansberry, J. A., Gordon, K. D., Bhattacharya, B., Engelbracht, C. W., Rieke, G. H., Marleau, F. R., Fadda, D., Frayer, D. T., Noriega-Crespo, A., Wachter, S. et al. 2007, PASP, 119, 1038 – *Absolute Calibration and Characterization of the Multiband Imaging Photometer for Spitzer. III. An Asteroid-based Calibration of MIPS at 160 μ m*
9. Gordon, K. D., Engelbracht, C. W., Fadda, D., Stansberry, J., Wachter, S., et al. 2007, PASP, 119, 1019 – *Absolute Calibration and Characterization of the Multiband Imaging Photometer for Spitzer II. 70 micron Imaging*
10. Engelbracht, C. W., et al. 2007, PASP, 119, 994 – *Absolute Calibration and Characterization of the Multiband Imaging Photometer for Spitzer I. The Stellar Calibrator Sample and the 24 μ m Calibration*
11. Jonker, P. G., Bassa, C. G., Wachter, S. 2007, MNRAS, 377, 1295 – *The quasi-persistent neutron star soft X-ray transient 1M 1716-315 in quiescence*
12. Hoard, D. W., Wachter, S., Sturch, L. K., Widhalm, A. M., Weiler, K. P., Pretorius, M. L., Wellhouse, J. W., Gibiansky, M. 2007, AJ, 134, 26 – *Cool Companions to White Dwarf Stars from the Two Micron All Sky Survey All Sky Data Release*
13. Brinkworth, C. S., Hoard, D. W., Wachter, S., Howell, S. B., Ciardi, D. R., Szkody, P., Harrison, T. E., van Belle, G. T., Esin, A. A. 2007, ApJ, 659, 1541 – *Spitzer Space Telescope Observations of Magnetic Cataclysmic Variables: Possibilities for the Presence of Dust in Polars*

14. Patel, S. K., Zurita, J., Del Santo, M., Finger, M., Kouveliotou, C., Eichler, D., Gogus, E., Ubertini, P., Walter, R., Woods, P., Wilson, C. A., Wachter, S., Bazzano, A. 2007, *ApJ*, 657, 994 – *A Possible Magnetar Nature for IGR J16358-4726*
15. Ciardi, D. R., Wachter, S., Hoard, D. W., Howell, S. B., van Belle, G. T. 2006, *AJ*, 132, 1989 – *Spitzer Space Telescope Observations of Var Her 04: Possible Detection of Dust Formation in a Superoutbursting Tremendous Outburst Amplitude Dwarf Nova*
16. Howell, S. B., Brinkworth, C., Hoard, D. W., Wachter, S., Harrison, T. Chun, H., Thomas, B., Stefaniak, L., Ciardi, D. R., Szkody, P., van Belle, G. 2006, *ApJ*, 646, L65 – *First Spitzer Space Telescope Observations of Magnetic Cataclysmic Variables: Evidence for Excess Emission at 3-8 μm*
17. Farihi, J., Hoard, D. W., Wachter, S. 2006, *ApJ*, 646, 480 (astro-ph/0603747) – *White Dwarf - Red Dwarf Systems Resolved with the Hubble Space Telescope: I. First Results*
18. Morris, P. W., Stolovy, S., Wachter, S., Noriega-Crespo, A., Pannuti, T. G., Hoard, D. W. 2006, *ApJ*, 640, L179 – *Tentative Discovery of a New Supernova Remnant in Cepheus: Unveiling an Elusive Shell in the Spitzer Galactic First Look Survey*
19. Wellhouse, J. W., Hoard, D. W., Howell, S. B., Wachter, S., Esin, A. A. 2005, *PASP*, 117, 1378, – *Magnetic White Dwarfs in the Two Micron All Sky Survey: A Search for Candidate Binary Systems*
20. Wachter, S., Wellhouse, J. W., Patel, S. K., Smale, A. P., Alves, J. F., Bouchet, P. 2005, *ApJ*, 621, 393 – *Chandra HRC Localization of the Low Mass X-ray Binaries X1624–490 and X1702–429: The Infrared Counterparts*
21. Wachter, S., Patel, S. K., Kouveliotou, C., Bouchet, P., Özel, F., Tennant, A., Woods, P. M., Hurley, K., Becker, W., Slane, P. 2004, *ApJ*, 615, 887 – *Precise Localization of the Soft Gamma Repeater SGR 1627–41 and the Anomalous X-ray Pulsar AXP 1E1841–045 with Chandra*
22. Padgett, D. L., Rebull, L. M. Rebull, Noriega-Crespo, A., Carey, S. J., Stapelfeldt, K. R., Stauffer, J. R., Burgdorf, M. J., Cole, D. M., Fajardo-Acosta, S. B., Frayer, D. T., Helou, G., Hoard, D. W., Karr, J., Latter, W. B., Lowrance, P. J., O’Linger, J., Masci, F., Ramirez, S., Reach, W. T., Rho, J., Stolovy, S. R., Wachter, S. 2004, *ApJS*, 154, 433 – *An Aggregate of Young Stellar Disks in Lynds 1228 South*
23. Ingalls, J. G., Miville-Deschenes, M.-A., Reach, W. T., Noriega-Crespo, A., Carey, S. J., Boulanger, F., Stolovy, S. R., Padgett, D. L., Burgdorf, M. J., Fajardo-Acosta, S. B., Glaccum, W. J., Helou, G., Hoard, D. W., Karr, J., O’Linger, J., Rebull, L. M., Rho, J., Stauffer, J. R., Wachter, S. 2004, *ApJS*, 154, 281 – *Structure and Colors of Diffuse Emission in the Spitzer Galactic First Look Survey*
24. Engelbracht, C. W., Gordon, K. D., Bendo, G. J., Perez-Gonzalez, P. G., Misselt, K. A., Rieke, G. H., Young, E. T., Hines, D. C., Kelly, D. M., Stansberry, J. A., Papovich, C., Morrison, J. E., Egami, E., Su, K. Y. L., Muzerolle, J., Dole, H. Dole, Alonso-Herrero, A., Hinz, J. L., Smith, P. S., Latter, W. B., Noriega-Crespo, A., Padgett, D. L., Rho, J., Frayer, D. T., Wachter, S. 2004, *ApJS*, 154, 248 – *Far Infrared Imaging of NGC 55*
25. Migliari, S., Fender, R. P., Rupen, M., Wachter, S., Jonker, P. G., Homan, J., van der Klis, M. 2004, *MNRAS*, 351 – *Radio Detections of the Neutron Star X-ray Binaries 4U 1820–30 and Ser X–1 in Soft X-ray States*
26. Patel, S. K., Kouveliotou, C., Tennant, A., Woods, P. M., King, A., Ubertini, P., Winkler, C., Courvoisier, T. J. -L., van der Klis, M., Wachter, S., Gaensler, B. M., Phillips, C. J. 2004, *ApJL*, 602, L45 – *The Peculiar X-ray Transient IGR 16358-4726*

27. Alcalá, J. M., Wachter, S., Covino, E., Sterzik, M. F., Durisen, R. H., Freyberg, M. J., Hoard, D. W., & Cooksey, K. 2004, *A&A*, 416, 677 – *Multi-wavelength observations of the star forming region in L1616*
28. Kouveliotou, C., Eichler, D., Woods, P. M., Lyubarsky, Y., Patel, S. K., Gouguccs, E., van der Klis, M., Tennant, A., Wachter, S. 2003, *ApJL*, 596, L79 – *Unraveling the Cooling Trend of the Soft Gamma Repeater SGR 1627–41*
29. Wijnands, R., Nowak, M., Miller, J.M., Homan, J., Wachter, S., Lewin, W. H. G. 2003, *ApJ*, 594, 952 – *A Chandra Observation of the Neutron Star X-Ray Transient and Eclipsing Binary MXB 1659–29 in Quiescence*
30. Wachter, S., Hoard, D. W., Hansen, Kathryn H., Wilcox, Rebecca E., Taylor, Hilda M., Finkelstein, Steven L. 2003, *ApJ*, 586, 1356 – *Cool Companions to White Dwarfs from the Two Micron All-Sky Survey Second Incremental Data Release*
31. Homer, L., Anderson, S. F., Wachter, S., & Margon B. 2002, *AJ*, 124, 3348 – *The UV Spectrum of the Ultra-Compact X-Ray Binary X1627–673*
32. Wachter, S., Hoard, D. W., Bailyn, C., Corbel, S., & Kaaret, P. 2002, *ApJ*, 568, 901 – *A Closer Look at the X-ray Transient X1608–52: Long-term Optical/X-ray Observations*
33. Hoard, D. W. & Wachter, S. 2002, *PASP*, 114, 229 – *Optical Photometry Constraints on the Inclination of the Double Degenerate Binary WD0957–666*
34. Hoard, D. W., Wachter, S., Clark, L. L., & Bowers, T. P. 2002, *ApJ*, 565, 511 – *Infrared Properties of Cataclysmic Variables in the 2 Micron All Sky Survey Second Incremental Data Release*
35. Hoard, D. W., Wachter, S., Kim-Quijano, J. 2001, *PASP*, 113, 482 – *Optical Photometry of the Double-lined Cataclysmic Variable Phoenix 1*
36. Winn, J. N., Hewitt, J. N., Patnaik, A. R., Schechter, P. L., Schommer, R. A., Lopez, S., Maza, J. & Wachter, S. 2001, *AJ*, 121, 1223 – *A Nearly Symmetric Double-Image Gravitational Lens*
37. Wachter, S., Smale, A. P., & Bailyn, C. 2000, *ApJ*, 534, 367 – *The Reappearance of the Transient Low Mass X-ray Binary X1658–298*
38. Smale, A. P., & Wachter, S. 1999, *ApJ*, 527, 341 – *A Cessation of X-ray Dipping Activity in X1254–690*
39. Deutsch, E. W., Margon, B., Anderson, S. F., Wachter, S., & Goss, W. M. 1999, *ApJ*, 524, 406 – *Infrared Candidates for the Intense Galactic X-Ray Source GX 17+2*
40. Hoard, D. W. & Wachter, S. 1998, *PASP*, 110, 906 – *Observations of Three Suspected Cataclysmic Variables*
41. Wachter, S. & Smale, A. P. 1998, *ApJL*, 496, L21 – *Optical Studies of the Transient Dipping X-ray Sources X1755–338 and X1658–298 in Quiescence*
42. Wachter, S., Wallerstein, G., Brown, J. A., & Oke, J. B. 1998, *PASP*, 110, 821 – *Metallicities of Two Distant Globular Clusters from Spectra of Moderate Dispersion*
43. Wachter, S. 1997, *ApJ*, 490, 401 – *New Results for Two Optically Faint Low Mass X-Ray Binary Systems*
44. Layden, A. C., & Wachter, S. 1997, *PASP*, 109, 977 – *CG Muscae: A Cataclysmic Misclassification*
45. Wachter, S. 1997, *ApJ*, 485, 839 – *Recovery of the X-Ray Transient QX Nor (=X1608–52) in Outburst and Quiescence*

46. Wachter, S. & Margon, B. 1996, AJ, 112, 2684 – *Photometry of GX 349+2: Evidence for a 22-hour Period*
47. Deutsch, E. W., Margon, B., Wachter, S., & Anderson, S. F. 1996, ApJ, 471, 979 – *Hubble Space Telescope Imaging of Bright Galactic X-ray Binaries in Crowded Fields*
48. Puls, J., Kudritzki, R.-P., Herrero, A., Pauldrach, A. W. A., Haser, S. M., Lennon, D. J., Gabler, R., Voels, S. A., Vilchez, J. M., Wachter, S., & Feldmeier, A. 1996, A&A, 305, 171 – *O-star Mass-loss and Wind Momentum Rates in the Galaxy and the Magellanic Clouds*
49. Downes, R., Hoard, D. W., Szkody, P., & Wachter, S. 1995, AJ, 110, 1824 – *Spectroscopy of Poorly Studied Cataclysmic Variables*
50. Anderson, S. F., Wachter, S., Margon, B., Downes, R. A., Blair, W. P., & Halpern, J. P. 1994, ApJ, 436, 319 – *Ultraviolet Spectra of HZ Her/Her X-1 from Hubble Space Telescope: Hot Gas during Total Eclipse of the Neutron Star*

Conference Contributions

- “Spitzer Space Telescope Observations of Low Mass X-ray Binaries”, Wachter, S. to appear in the Proceedings of “A Population Explosion: The Nature and Evolution of X-ray Binaries in Diverse Environments”, 28 Oct - 2 Nov, St. Pete Beach, FL; eds. R.M. Bandyopadhyay, S. Wachter, D. Gelino, C.R. Gelino; AIP Conference Proceedings Series, 2008, astro-ph0804.1574
- “Ups And Downs In The Life Of A Cataclysmic Variable: The Long-Term Behavior Of CM Phoenicis”, Rawls, M. L., Hoard, D. W., Wachter, S. 2007, BAAS, 211.5123
- “The Secret Identities of X-Ray Sources in the Small Magellanic Cloud: Optical and Infrared Observations of X-Ray Source Companions”, Sturch, Laura, Hoard, D. W., Wachter, S. 2007, BAAS, 211.0317
- “Spitzer space telescope observations of SGR and AXP environments” Wachter, S., Kouveliotou, C., Patel, S., Figer, D., Woods, P. Astrophysics and Space Science, Volume 308, Issue 1-4, p. 67
- “Recent Results from Infrared Observations of White Dwarfs, their Companions, and the Dust that Surrounds Them”, Hoard, D. W., Brinkworth, C. S., Wachter, S. in 15th European Workshop on White Dwarfs ASP Conference Series, Vol. 372, proceedings of the conference held 7-11 August, 2006 in Leicester, United Kingdom. Edited by Ralf Napiwotzki and Matthew R. Burleigh. San Francisco: Astronomical Society of the Pacific, 2007., p.501
- “Analysis of the Spitzer/MIPS24 Light Curve of the M-Dwarf Eclipsing Binary GU Boo”, von Braun, K., van Belle, G. T., Ciardi, D. R., Wachter, S., Hoard, D. W. 2006, BAAS, 209.15103
- “Cool Companions of White Dwarfs from 2MASS”, Hoard, D. W., Wachter, S., Sturch, L. K., Widhalm, A. M., Weiler, K. P., Wellhouse, J. W., Gibiansky, M. 2006, BAAS, 209.13106
- “Spitzer Space Telescope Observations of SGR and AXP Environments”, Wachter, S., Kouveliotou, C., Patel, S., Figer, D., Woods, P. 2006, BAAS, 209.13101
- “Shedding New Light on the Stellar Graveyard: Compact Objects in the Mid-IR” Pretorius, M. L., Wachter, S., Hoard, D. 2006, BAAS, 209.10401
- “A Possible Magnetar Nature for IGR J16358-4726”, Patel, S. K., et al. 2006, HEAD, 9.0155

- “Recent Results from High Energy Observations of Cataclysmic Variables: AM Canum Venaticorum and DW Ursae Majoris”, Hoard, D. W., Homer, L., Szkody, P., Wachter, S. 2006, HEAD, 9.0133
- “Jets in Neutron Star X-ray Binaries: A Multi-Wavelength Study of Sco X-1”, Wachter, S., Bandyopadhyay, R. M., Markoff, S., Smale, A. P. 2006, HEAD, 9.0132
- “White Dwarf / Red Dwarf Binaries Resolved with the Hubble Space Telescope”, Farihi, J., Wachter, S., Hoard, D. W. 2005, BAAS, 207.0501
- “Chandra Localizations of LMXBs: IR Counterparts and their Properties” Wachter, S., Wellhouse, J. W., Bandyopadhyay, R. M., 2005, INTERACTING BINARIES: Accretion, Evolution, and Outcomes. AIP Conference Proceedings, Volume 797, pp. 639-642
- “Infrared Properties of Cataclysmic Variables in the 2MASS All Sky Data Release”, Hoard, D. W., Brinkworth, C. S., Wachter, S. 2005, The Astrophysics of Cataclysmic Variables and Related Objects, Proceedings of ASP Conference Vol. 330. Edited by J.-M. Hameury and J.-P. Lasota. San Francisco: Astronomical Society of the Pacific, p.473
- “Resolving Close White Dwarf + Red Dwarf Binaries with HST”, Hoard, D. W., Wachter, S., & Farihi, J. 2004, BAAS, 205.10713
- “Spitzer Observations of a WZ Sge-Type Dwarf Novae in Superoutburst”, Ciardi, D. R., van Belle, G. T., Hoard, D. W., Wachter, S., & Howell, S. B. 2004, BAAS, 205.1912
- “Infrared Properties of Cataclysmic Variables from the 2MASS All-Sky Data Release”, Hoard, D. W., Brinkworth, C. S., Wachter, S. 2003, BAAS, 203.4408
- “The Peculiar X-ray Transient IGR J16358-4726” Patel, S. K., Kouveliotou, C., Tennant, A., Wilson, C., Woods, P., Finger, M., Wachter, S., King, A., Ubertini, P., van der Klis, M., Courvoisier, T., Winkler, C. 2003, BAAS, 203.3103
- “Data Reduction Pipelines for MIPS” Wachter, S., Frayer, D., Padgett, D., Masci, F., Henderson, D., Latter, W., MIPS Team 2003, BAAS, 203.2217
- “Unraveling the Cooling Trend of a Magnetar: Study of Soft Gamma Repeater SGR 1627-41”, Kouveliotou, C., Eichler, D., Lyubarski, Y., Patel, S., Woods, P., Wachter, S., Hurley, K. 2003, HEAD, 35.5103
- “X-ray and Optical Observations of NGC 1788” Alcalá, J. M., Covino, E., Wachter, S., Hoard, D. W., Sterzik, M. F., Durisen, R. H., Freyberg, M., Cooksey, K. 2003, in Galactic Star Formation Across the Stellar Mass Spectrum, ASP Conference Series, Vol. 287, proceedings of the 2002 International Astronomical Observatories in Chile workshop, held 11-15 March 2002 at La Serena, Chile, eds. J. M. Debuizer & N. van der Bliik, p. 140
- “The UV Spectrum of the Ultra-compact X-ray Binary 4U 1626-67”, Homer, L., Anderson, S. F., Wachter, S., Margon, B. 2002, BAAS, 201.5420
- “The Search for the IR counterpart of the Soft Gamma-Ray Repeater SGR 1627-41”, Wachter, S., Eikenberry, S., Kouveliotou, C., Patel, S. K., Woods, P. M. 2002, BAAS, 201.12903
- “The Search for the Orbital Period of X1556-60”, Brammer, G., Wachter, S., Hoard, D. W., & Smale, A., 2001, BAAS, 199.0611
- “Star Formation in the Isolated Molecular Cloud NGC 1788 (LDN 1616)”, 2001, BAAS, 199.0401, Cooksey, K., Hoard, D. W., & Wachter, S.
- “Infrared Properties of Cataclysmic Variables from 2MASS”, 2001, BAAS, 197.0908, Hoard,

D. W., Wachter, S., Clark, L. L., & Bowers, T.

- “Optical Counterparts of X-ray Sources in the Small Magellanic Cloud”, 2001, BAAS, 197.8403, Tavenner, T., Hoard, D. W., & Wachter, S.
- “Chandra Multiwavelength Plane (ChaMPlane) Survey: Initial Optical Imaging Results for Galactic Center Fields”, Zhao, P., Grindlay, J. E., Edmonds, P., Garcia, M. R., McClintock, J. E., Bailyn, C., Cool, A., Cohn, H., Lugger, P., Hoard, D., & Wachter, S., 2000, 2000 HEAD meeting
- “Long-Term Optical Monitoring of X-ray Transients”, Wachter, S., Hoard, D. W., Bailyn, C., Jain, R., Kaaret, P., Corbel, S., Wijnands, R., & Markwardt, C. 2000, 2000 HEAD meeting
- “Time-resolved Optical Spectroscopy of Sco X-1”, Hoard, D. W. & Wachter, S. 2000, 2000 HEAD meeting
- “X0614+091: A Search for the Orbital Period”, Johnson, B. D., & Wachter, S. 2000, BAAS, 196.3801
- “Burst Oscillations in 4U 1636-53: Asymptotic Frequencies and Harmonic Searches”, Strohmayer, T. E., Giles, A. B., Wachter, S., & Hill, K. 2000, Rossi 2000 Conference
- “Optical Results from a Coordinated RXTE/Optical Campaign of the X-ray Burster X1636-536”, Wachter, S., Hoard, D. W., Strohmayer, T. E. 2000, Rossi 2000 Conference
- “Optical Observations of the X-ray Transients X1658–298 and X1608–522”, Wachter, S., & Smale, A. P. 1999, Proceedings of the 1999 Pacific Rim Conference on Stellar Astrophysics
- “Infrared Properties of Cataclysmic Variables: Preliminary Results from 2MASS”, Hoard, D. W., Bowers, T., Wachter, S. 1999, BAAS, 195.4010
- “Orbital Period of the Double-lined Cataclysmic Variable Phe 1”, Kim-Quijano, J., Hoard, D. W., & Wachter, S. 1999, BAAS, 194.8614
- “LMC X-2: The Search for the Orbital Period”, Greene, J., Wachter, S. & Smale, A. P. 1999, BAAS, 194.5216
- “A Dynamical Study of the Low Mass X-ray Binary GX 349+2”, Wachter, S. 1997, BAAS, 191.4411
- “Optical and Infrared Photometry of Faint Low Mass X-ray Binary Systems”, Wachter, S. 1996, BAAS, 28, 1328
- “On the Nature of the LMC Supersoft X-ray Source CAL 87”, Wachter, S., Deutsch, E. W., Margon, B. & Anderson, S. F., 1996, BAAS, 28, 923
- “Photometry of GX 349+2: Evidence for a 22-hour Period”, Wachter, S. & Margon, B., 1996, in Roentgenstrahlung from the Universe, H. U. Zimmermann, J. E. Truemper & H. Yorke (eds.), MPE Report, 263, p. 203
- “Photometry of Two Intense Low Mass X-Ray Binaries”, Wachter, S., Margon B. & Anderson, S., 1995, BAAS, 27, 1435
- “HST/FOS Observations of Hot Gas During the Total Eclipse of the Neutron Star in HZ Her/Her X-1”, Wachter, S., Anderson, S. F., Margon, B. & Downes, R. A., 1994, in The Evolution of X-ray Binaries, S. S. Holt & C. S. Day (eds.) (New York: Amer. Inst. Physics), p. 479

“Long Term Spectroscopy of MWC 560”, Wachter, S., Szkody, P., Garnavich, P. & Mateo, M., 1994, in *Interacting Binary Stars*, ed. A. W. Shafter (San Francisco: Astronomical Society of the Pacific), p. 401

“UV Spectra of HZ Her/Her X-1 from HST: Hot Gas During Total Eclipse of the Neutron Star”, Anderson, S. F., Wachter, S., Margon, B. & Downes, R. A., 1993, *BAAS*, 25, 802