

CV - Thomas Kupfer

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Current position Assistant Professor of Physics and Astronomy at Texas Tech University

University education

2011 – 2015 Radboud University Nijmegen, The Netherlands
Ph.D in Physics Topic: *The population of ultracompact binaries and their progenitors*
Advisor: Prof. Dr. Paul Groot and Prof. Dr. Gijs Nelemans

2005 – 2010 Friedrich Alexander University Erlangen-Nuremberg, Germany
Diploma in Physics Topic: *Extreme Helium Stars: Model atmospheres and a NLTE abundance analysis of BD+10°2179*
(equivalent to Master) Advisor: Prof. Dr. Ulrich Heber and Prof. Dr. Norbert Przybilla
Major subject: Astro-, Particle- and Nuclear physics
Minor subject: Material science

Research interests

Time Domain Astronomy and big data: mining time-domain datasets and crossmatching across different surveys to discover and characterize rare events and populations of different stellar types

Post common envelope binaries: population study and evolutionary links to different types of short period binaries with periods less than a few hours, double detonation type Ia progenitors

Compact pulsators: population study and evolutionary links to different types compact pulsators with pulsation periods of minutes

Multi-messenger studies of LISA sources: studies to explore how combined electromagnetic and gravitational wave observations for ultracompact binaries can aid each other

Professional experience

09/2020 – present Assistant Professor of Physics and Astronomy at Texas Tech University, Lubbock, USA

05/2018 – 08/2020 Postdoctoral Scholar at the Kavli Institute for Theoretical Physics, University of California at Santa Barbara, USA
Planing and execution of a high-cadence Galactic Plane survey with ZTF

09/2016 - 04/2018 Calibration Scientist for the Zwicky Transient Facility
Responsible to develop and evaluate tests to confirm that the survey requirements are achieved, including data processing, astrometry, photometric precision as well as flatfield screen requirements and ZTF crycooler tests

09/2015 – 04/2018 Postdoctoral Scholar at the California Institute of Technology, USA
Member of the PTF/iPTF/ZTF collaboration

05/2011 – 07/2015 PhD student at the Radboud University Nijmegen, the Netherlands
Analysis of spectroscopic and photometric data on AM CVn and hot subdwarf binaries

10/2010 – 04/2011 Research assistant at the Dr. Remeis observatory Bamberg, Germany
Quantitative spectral analysis of high resolution spectra of extreme helium stars

09/2008 – 12/2008 ERASMUS student at Armagh observatory, Northern Ireland
Quantitative spectral analysis of high resolution spectra of extreme helium stars

01/2009 – 10/2009 Research assistant at the Dr. Remeis observatory Bamberg, Germany

04/2007 – 09/2008 Data reduction of high resolution spectra of main sequence and hot subdwarf stars; measuring rotational velocities of the hot subdwarf stars

Grants (as PI≈\$850k, as Co-I≈\$700k)

2021	PI for a NASA LISA Preparatory Science project (\$ 265k), NSF AAG project (\$ 307k) and NASA/HST GO16659 (\$ 267k)
2015 – present	Co-I of successful applications to NASA ATP, LISA Preparatory Science projects and the German Academic Exchange Service
2011 – 2014	Radboud Internationalisation Fund and several successful grant applications for international conferences and work travels at the Leids Kerkhoven-Bosscha Fonds (€ 4630)
2009	European Union Erasmus grant for a research project at Armagh observatory, Northern Ireland (€ 1800)

Academic Activities

	Regular NSF-AAG, NASA review panel member
07/2018 – present	Member of the NASA Multimessenger Astrophysics Science Analysis Group
07/2018 – present	Member of the European Astronomical Society
09/2017 – present	Member of the German Astronomical Society
09/2017 – 10/2019	Communication coordinator for the Zwicky Transient Facility
04/2016 – present	Member of the <i>LISA</i> consortium (full member since 12/20) Chair of the <i>LISA</i> early career scientists working group (12/20 - 01/22) Member of the <i>LISA</i> early career scientists working group Member of the <i>LISA</i> Astrophysics and the MMMB working group (Lead for Galactic binaries) Member of the <i>LISA</i> publication and presentation policies committee (12/19 - 01/21)
09/2016 – present	Regular reviewer for the Gemini Fast Turnaround program
03/2016 – present	Member of the Scientific Organizing Committee for the 4 th and 5 th International workshop on AMCVn Stars
09/2015 – present	Regular referee for MNRAS, A&A, AJ
06/2017	Organizer of a 3-day community workshop at Caltech: Galactic science with ZTF
10/2015	Member of the Caltech Time Allocation Committee for observing time on Keck and Palomar
07/2010	Member of the Local Organizing Committee or Planetary Systems beyond the Main Sequence, Bamberg, Germany

Professional collaboration

09/2020 – present	BlackGEM: Chair of working group 11: Resolved Stellar populations & Milky Way Galaxy
09/2017 – 09/2021	ZTF: Calibration scientist, responsible for quality assurance and calibration Chair of the Galactic/M31 science working group (until 02/19) Scientific lead of the ZTF high-cadence Galactic Plane survey
09/2015 – 09/2018	GROWTH: Jointly operation of 17 observatories in the Northern hemisphere to respond quickly to <i>LIGO-Virgo</i> to detect the optical counterpart
05/2011 – 09/2017	iPTF/PTF: Discovery and follow-up of variable and outbursting Galactic sources
03/2016 – present	OmegaWhite: Discovery and follow-up studies of ultracompact systems
09/2015 – present	EREBOS: Follow-up studies of eclipsing compact helium stars with brown dwarf/M-dwarf companions found by the OGLE survey
04/2007 – present	MUCHFUSS: Follow-up studies of compact helium stars with potential massive compact companions

Outreach activities

09/2021 – present	PI for the TEXAS ² project which brings astronomical data into the class rooms
10/2020 – present	Monthly outreach event at Texas Tech (Astronight)
09/2015 – present	Press releases for several articles which attracted international media attention including a radio interview on German national radio, several outreach talks and Q&A sessions
12/2016	Public lecture as part of the Greenway Talk Series at Palomar observatory
09/2009 – 08/2015	Regular guided tours at the Remeis Observatory Bamberg and at Radboud University Nijmegen
09/2014 – 02/2015	Lecturer for the course astronomy for beginners at the community college in Altdorf b. Nürnberg, Germany
09/2009 – 04/2011	Lecturer for the course astronomy for beginners at the community college in Bamberg, Germany

Observing experience and observing time granted (time as PI worth ≈\$5 million)

2021	Co-Pi for a large Hubble space telescope program (132 orbits): Accreting white dwarfs as probes of compact binary evolution
2012 – present	PI for > 200 nights at different telescopes including Keck, Gemini, Palomar 200-inch, William Herschel telescope, Isaac Newton telescope, Lick, LCO, McDonald 2.1m, 64m-Parkes, Kepler
2009 – present	> 60 nights observing with Keck, WHT, 3m-Shane, Hale 200-inch, ESO-NTT, Calar Alto 3.5m Medium/low resolution spectroscopy, Echelle spectroscopy
2011 – present	> 60 observing nights with WHT, 3m-Shane, Hale 200-inch, INT Observing Wide field and high speed photometry

Teaching experience

04/2022	”Outstanding Professor of the year” award in the TTU Department of Physics and Astronomy
09/2021 – 05/2022	Cohort member for the Institute for Inclusive Excellence
2021 & 22 Fall	Lecturer for undergraduate/graduate class ASTR 4302 (Galaxies and Cosmology)
2021 & 22 Spring	Lecturer for undergraduate/graduate class ASTR 4301 (Stellar structure and stellar evolution)
01/2021 – present	Faculty advisor for the Red Cross club and Society of Physics students at Texas Tech
09/2015 – 03/2017	Guest lecturer for the freshman seminar: Automated Discovery of the Universe
02/2012 – 04/2014	Teaching assistant of the astronomy lab course with about 50 students separated in several groups each year; Coordinating and conduction of training sessions for the 35 cm telescope and the usage of the CCD; taught introduction to astronomical analysis programs (e.g. IRAF)
09/2013 – 01/2014	Teaching assistant of the course Programmeren 1 (programming course for C); taught tutorials and grading assignments
03/2012 – 06/2012	Teaching assistant of the course Interstellar medium; taught tutorials and grading assignments
09/2011 – 01/2012	Teaching assistant of the course Kaleidoscoop Sterrenkunde (1st year astronomy course); taught tutorials and grading assignments
01/2009 – 04/2011	Teaching assistant of the astronomy lab course of 80 students each year; supporting the students for the stellar spectroscopy part

Student mentoring

12/2021 – present	Advisor PhD project of Weitian Yu (Texas Tech) Topic: <i>HST observations of accreting white dwarfs</i>
12/2021 – present	Advisor PhD project of Kunal Deshmukh (Texas Tech) Topic: <i>Orbital decay in compact binaries</i>
12/2021 – present	Advisor PhD project of Eric Stringer (Texas Tech) Topic: <i>Compact mass-transferring helium star binaries</i>
07/2021 – present	Advisor undergraduate project of Megan Cuevas (Texas Tech) Topic: <i>Massive supergiants in M31</i>
02/2021 – present	Advisor undergraduate project of Shelby Courreges (Texas Tech) Topic: <i>The donor stars in AMCVn systems</i>
01/2021 – present	Advisor PhD project of Corey Bradshaw (Texas Tech) Topic: <i>Compact radial mode pulsators</i>
01/2021 – present	Advisor undergraduate project of Juan Cano (Texas Tech) Topic: <i>Short period HW Vir binaries</i>
10/2020 – present	Advisor undergraduate project of Antone Amalbert (Texas Tech) Topic: <i>Multi-messenger opportunities for ultracompact X-ray binaries</i>

Previously mentored or Co-advised:

10/2020 – 05/2022	Mentor Master project Gareth Ofenstein (Texas Tech)
03/2019 – 08/2020	Co-mentor undergraduate project of Siddhant Solanki (UCSB, now Postbac at STScI)
11/2016 – 05/2018	Co-mentor PhD project of Kevin Burdge (Caltech, now Postdoc at MIT)
04/2016 – 09/2018	Co-mentor PhD project of Jan van Roestel (RU Nijmegen, now Postdoc at Caltech)
07/2016 – 06/2018	Work-study and senior thesis of Alison Dugas (Caltech, now graduate student at IfA Hawaii)
06/2016 – 02/2018	Summer Undergraduate Research Fellowships (SURF) and research project of Enia Xhakaj (now graduate student at UC Santa Cruz)
06/2017 – 09/2017	SURF project of Brodi Elwood (MIT)
06/2016 – 08/2016	SURF project of Sara Anjum (Princeton University)
11/2015 – 07/2016	Visiting graduate student Monika Soraisam (MPE)

Selection of invited talks and invited colloquia

Summary: > 50 talks at international conferences and departmental physics or astro colloquia (19 invited)

- 10/2021 Invited colloquium at High Point University
Big science with small telescopes: Our hunt for the most compact binary stars
- 07/2021 Invited colloquium at Hamburg observatory
Treasures from large-scale photometric Galactic Plane observations
- 02/2021 Invited colloquium at Georgia State University
Treasures from the Zwicky Transient Facility Galactic Plane observations
- 01/2021 Invited colloquium at the University of Innsbruck
Treasures from the Zwicky Transient Facility Galactic Plane observations
- 12/2020 Invited colloquium at the University of Tuebingen
Treasures from the Zwicky Transient Facility Galactic Plane observations
- 09/2019 Invited colloquium at the University of Washington, Seattle
Treasures from the Zwicky Transient Facility Galactic Plane observations
- 07/2019 Invited review at the conference The Beginning and Ends of Double White Dwarfs, Copenhagen
Double white dwarfs as LISA sources
- 07/2019 Invited talk at the European Week of Astronomy, Lyon
Galactic Science with the Zwicky Transient Facility
- 04/2019 Invited talk at the meeting of the American Physical Society, Denver
Multi-messenger and multi-wavelength opportunities for compact (Galactic) binaries
- 04/2019 Invited talk at the conference Large surveys with small telescopes: Past, Present, and Future (Astroplate III) meeting, Bamberg
The Zwicky Transient Facility
- 10/2018 Invited talk at the 2nd COFI Workshop on Gravitational Waves, San Juan
LISA verification binaries
- 09/2018 Invited talk at the conference Hydrogen Deficient Stars 2018, Armagh
AM CVn stars: an overview
- 03/2018 Invited colloquium at Las Cumbres Observatories, Santa Barbara
The systematic search for ultracompact binaries using optical time domain surveys
- 01/2018 Invited colloquium at Yunnan Observatories, Kunming
The population of (compact) hot subdwarf binaries
- 09/2017 Invited highlight talk at the German Astronomical Society meeting, Göttingen
The systematic search for gravitational wave sources using synoptic surveys
- 05/2017 Invited colloquium at the university of Würzburg
The beginning of a new era - The systematic search for gravitational wave sources using synoptic surveys
- 05/2017 Seminar MPA, Garching, Germany
The beginning of a new era - The systematic search for gravitational wave sources using synoptic surveys
- 10/2015 Seminar UC Santa Cruz, Santa Cruz, USA
Ultracompact AM CVn binaries and their progenitors
- 09/2015 Seminar CfA Harvard, Cambridge, USA
Ultracompact AM CVn binaries and their progenitors

List of publications - Thomas Kupfer

Record: My research has been published in 149 refereed publications (13 as first author, 13 as second author, 38 as ZTF builder) including 3 Science and 2 Nature papers as well as 6 white papers for the 2020 decadal survey (1 as first author). In addition I have published 22 non-refereed papers (3 as first author) and 9 Atels (3 as first author). All refereed publications combined result in 7857 total citations excluding self-citations (8506 total) and a Hirsch h-index of 38. The library of my accepted refereed publications can be accessed here: <https://ui.adsabs.harvard.edu/public-libraries/QbGVMYDXTK2tatBp9r10SA>

Refereed publications as first author and with significant contributions:

- Discovery of a double detonation thermonuclear supernova progenitor
Kupfer, T., Bauer, E., van Roestel, J., et al. 2022, ApJL, 925, 12
- Year 1 of the ZTF high-cadence Galactic Plane Survey: Strategy, goals, and early results on new single-mode hot subdwarf B-star pulsators
Kupfer, T., Prince, T., van Roestel J., et al. 2021, MNRAS, 505, 1254
- A New Class of Roche Lobe-filling Hot Subdwarf Binaries
Kupfer, T., Bauer, E., Burdge, K., et al. 2020 ApJL, 898, 25
- The first ultracompact Roche lobe-filling hot subdwarf binary
Kupfer, T., Bauer, E., Marsh, T., et al. 2020, ApJ, 891, 45
- A New Class of Large-amplitude Radial-mode Hot Subdwarf Pulsators
Kupfer, T., Bauer, E., Burdge, K., et al. 2019, ApJL, 878,2
- LISA verification binaries with updated distances from Gaia Data Release 2
Kupfer, T., Korol, V., Shah, S. et al. 2018, MNRAS, 480, 302
- The OmegaWhite survey for short-period variable stars - V. Discovery of an ultracompact hot subdwarf binary with a compact companion in a 44 minute orbit
Kupfer, T., Ramsay, G., van Roestel, J. et al. 2017, ApJ, 85, 27
- Quantitative spectroscopy of extreme helium stars - Model atmospheres and a non-LTE abundance analysis of BD+10°2179
Kupfer, T., Przybilla, N., Heber, U. et al. 2017, MNRAS, 471, 877
- PTF1 J082340.04+081936.5: A hot subdwarf B star with a low mass white dwarf companion in an 87 min orbit
Kupfer, T., van Roestel, J., Brooks, J. et al. 2017, ApJ, 835, 131
- UVES and X-Shooter spectroscopy of the emission line AM CVn systems GP Com and V396 Hya
Kupfer, T., Steeghs, D., Groot, P. J. et al. 2016, MNRAS, 457, 1828
- Phased resolved spectroscopy and *Kepler* photometry of the ultracompact AM CVn system SDSS J190817.07+394036.4
Kupfer, T., Groot, P. J., Levitan, D. et al. 2015, MNRAS, 453, 483
- Hot subdwarf binaries from the MUCHFUSS project - Analysis of 12 new systems and a study of the short period binary population
Kupfer, T., Geier, S., Heber, U. et al. 2015, A&A, 576, 44
- Orbital periods and accretion disc structure of four AM CVn systems
Kupfer, T., Groot, P. J., Levitan, D. et al. 2013, MNRAS, 432, 2048
- The OmegaWhite Survey for Short-Period Variable Stars - VII. High amplitude, short period blue variables
Ramsay, G., Woudt, P. A., **Kupfer, T.** et al. 2022, MNRAS, in press, arXiv:2204.03265
- Discovery and characterization of five new eclipsing AM CVn systems
van Roestel, J., **Kupfer, T.**, Green, M. J. et al. 2022, MNRAS, 512, 5440

- X-Ray Observation of the Roche-lobe-filling White Dwarf plus Hot Subdwarf System ZTF J213056.71+442046.5
Mereghetti, S., La Palombara, N., **Kupfer, T.** et al. 2022, ApJ, 931, 13
- Phases of Mass Transfer from Hot Subdwarfs to White Dwarf Companions and Their Photometric Properties
Bauer, E. & **Kupfer, T.** 2021, ApJ, 922, 245
- A hot subdwarf-white dwarf super-Chandrasekhar candidate supernova Ia progenitor
Pelisoli, I., Neunteufel, P., Geier, S., **Kupfer, T.** et al. 2021, Nature Astronomy, 5, 1052
- ZTFJ0038+2030: A Long-period Eclipsing White Dwarf and a Substellar Companion
van Roestel, J., **Kupfer, T.**, Bell, K. J. et al. 2021, ApJ, 919, 26
- A Systematic Search for Outbursting AM CVn Systems with the Zwicky Transient Facility
van Roestel, J., Creter, L., **Kupfer, T.** et al. 2021, AJ, 162, 113
- A proto-helium white dwarf stripped by a substellar companion via common-envelope ejection. Uncovering the true nature of a candidate hypervelocity B-type star
Irrgang, A., Geier, S., Heber, U., **Kupfer, T.** et al. 2021, A&A, 650, 102
- Periodicities in the K2 light curve of HP Librae
Solanki, S., **Kupfer, T.**, Blaes, O. et al. 2021, MNRAS, 500, 1222
- Stars Stripped in Binaries: The Living Gravitational-wave Sources
Götberg, Y., Korol, V., Lamberts, A., **Kupfer, T.** et al. 2020, ApJ, 904, 56
- EVR-CB-004: An Inflated Hot Subdwarf O Star + Unseen WD Companion in a Compact Binary Discovered with the Evryscope
Ratzloff, J. K., **Kupfer, T.**, Barlow, B. N. et al. 2020, ApJ, 902, 92
- EVR-CB-001: An Evolving, Progenitor, White Dwarf Compact Binary Discovered with the Evryscope
Ratzloff, J. K., Barlow, B. N., **Kupfer, T.** et al. 2019, ApJ, 883, 51
- General relativistic orbital decay in a seven-minute-orbital-period eclipsing binary system
Burdge, K., Coughlin, M. W., Fuller, J., **Kupfer, T.** et al. 2019, Nature, 571, 528
- The Palomar Transient Factory Sky2Night programme
van Roestel, J., Groot, P. J., **Kupfer, T.** et al. 2019, MNRAS, 484, 4507
- Exposure-time Correction for the ZTF Camera
Giomi, M., Smith, R. M., **Kupfer, T.**, Nordin, J. 2019, PASP, 131, 8001
- The physical properties of AM CVn stars: new insights from Gaia DR2
Ramsay, G., Green, M. J., Marsh, T., **Kupfer, T.** et al. 2018, A&A, 620, 141
- Spectroscopic and Photometric Analysis of the HW Vir Star PTF1 J011339.09+225739.1
Wolz, M., **Kupfer, T.**, Drechsel, H. et al. 2018, Open Astronomy, 27, 80
- Detection of a 23.6 min periodic modulation in the optical counterpart of 3XMMJ051034.6–670353
Ramsay, G., Marsh, T., **Kupfer, T.** et al. 2018, A&A, 617, 88
- A multi-wavelength approach to classifying transient events in the direction of M31
Soraisam, M. D., Gilfanov, M., **Kupfer, T.** et al. 2018, A&A, 615, 152
- The Binary Dwarf Carbon Star SDSS J125017.90+252427.6
Margon, B., **Kupfer, T.**, Burdge, K. et al. 2018, ApJ, 856, 2
- Discovery of 36 eclipsing EL CVn binaries found by the Palomar Transient Factory
van Roestel, J., **Kupfer, T.**, Ruiz-Carmona, R. et al. 2018, MNRAS, 475, 2560
- High-speed photometry of Gaia14aae: an eclipsing AM CVn that challenges formation models
Green, M. J., Marsh, T. R., Steeghs, D. T. H., **Kupfer, T.**, et al. 2018, MNRAS, 476, 1663

- Spectral models for binary products: Unifying Subdwarfs and Wolf-Rayet stars as a sequence of stripped-envelope stars
Götberg, Y., de Mink, S. E., Groh, J. H., **Kupfer, T.** et al. 2018, *A&A*, 615, 78
- HD 49798: Its History of Binary Interaction and Future Evolution
Brooks, J., **Kupfer, T.**, Bildsten, L., 2017, *ApJ*, 847, 78
- A novel method for transient detection in high-cadence optical surveys. Its application for a systematic search for novae in M 31
Soraisam, M. D., Gilfanov, M., **Kupfer, T.** et al. 2017, *A&A*, 599, 48
- PSR J1024-0719: A Millisecond Pulsar in an Unusual Long-period Orbit
Kaplan, D. L., **Kupfer, T.**, Nice, D. J. et al. 2016, *ApJ*, 826, 86
- Radial velocity variable, hot post-AGB stars from the MUCHFUSS project. Classification, atmospheric parameters, formation scenarios
Reindl, N., Geier, S., **Kupfer, T.** et al. 2016, *A&A*, 587, 101
- The catalogue of radial velocity variable hot subluminoous stars from the MUCHFUSS project
Geier, S., **Kupfer, T.**, Heber, U. et al. 2015, *A&A*, 577, 26
- The fastest unbound star in our Galaxy - Ejected by a thermonuclear supernova
Geier, S., Fürst, F., Ziegerer, E., **Kupfer, T.** et al. 2014, *Science*, 347, 1126
- PTF1 J191905.19+481506.2 - A Partially Eclipsing AM CVn System Discovered in the Palomar Transient Factory
Levitan, D., **Kupfer, T.**, Groot, P. J. et al. 2014, *ApJ*, 785, 114
- Five New Outbursting AM CVn systems discovered by the Palomar Transient Factory
Levitan, D., **Kupfer, T.**, Groot, P. J. et al. 2013, *MNRAS*, 430, 996

Refereed publications as Co-Author:

- Four new deeply-eclipsing white dwarfs in ZTF
Kosakowski, A., Kilic, M., Brown, W. R., ...**Kupfer, T.** ... et al. 2022, *MNRAS*, in press, arXiv:2205.03431
- Discovery and analysis of three magnetic hot subdwarf stars: evidence for merger-induced magnetic fields
Pelisoli, I., Dorsch, M., Heber, U., ...**Kupfer, T.** ... et al. 2022, *MNRAS*, in press, arXiv:2204.06575
- New Variable Hot Subdwarf Stars Identified from Anomalous Gaia Flux Errors, Observed by TESS, and Classified via Fourier Diagnostics
Barlow, B. N., Corcoran, K. A., Parker, I. M., ...**Kupfer, T.** ... et al. 2022, *ApJ*, 928, 20
- Birth of the ELMs: a ZTF survey for evolved cataclysmic variables turning into extremely low-mass white dwarfs
El-Badry, K., Rix, H.-W., Quataert, E., ...**Kupfer, T.** ... et al. 2021, *MNRAS*, 508, 4106
- Multi-wavelength Observations of AT2019wey: a New Candidate Black Hole Low-mass X-ray Binary
Yao, Y., Kulkarni, S. R., Burdge, K. B., ...**Kupfer, T.** ... et al. 2021, *ApJ*, 920, 120
- The luminous red nova AT 2018bwo in NGC 45 and its binary yellow supergiant progenitor
Blagorodnova, N., Klencki, J., Pejcha, O., ...**Kupfer, T.** ... et al. 2021, *A&A*, 653, 134
- LAMOST J0140355 + 392651: an evolved cataclysmic variable donor transitioning to become an extremely low-mass white dwarf
El-Badry, K., Quataert, E., Rix, H.-W., ...**Kupfer, T.** ... et al. 2021, *MNRAS*, 505, 2051
- The ZTF Source Classification Project - II. Periodicity and variability processing metrics
Coughlin, M. W., Burdge, K., Duev, D. A., ...**Kupfer, T.** ... et al. 2021, *MNRAS*, 505, 2954
- The ZTF Source Classification Project. I. Methods and Infrastructure
van Roestel, J., Duev, D. A., Mahabal, A. A., ...**Kupfer, T.** ... et al. 2021, *AJ*, 161, 267

- HO Puppis: Not a Be Star, but a Newly Confirmed IW And-type Star
Lee, C., Ou, J., Yu, P., ...**Kupfer, T.** ... et al. 2021, ApJ, 911, 51
- A Systematic Search of Zwicky Transient Facility Data for Ultracompact Binary LISA-detectable Gravitational-wave Sources
Burdge, K. B., Prince, T. A., Fuller, J., ...**Kupfer, T.** ... et al. 2020, ApJ, 905, 32
- Multiwavelength Photometry and Progenitor Analysis of the Nova V906 Car
Wee, J., Blagorodnova, N., Penprase, B. E., ...**Kupfer, T.** ... et al. 2020, ApJ, 899, 162
- Three new late-type hypervelocity star candidates from Gaia DR2 with refined selection criteria
Li, J., Jia, S., Gao, Y., ...**Kupfer, T.** ... et al. 2020, RAA, 20, 42
- Variability of Massive Stars in M31 from the Palomar Transient Factory
Soraisam, M. D., Bildsten, L., Drout, M. R., ...**Kupfer, T.** ... et al. 2020, ApJ, 893, 11S
- ZTF J1901+5309: a 40.6-min orbital period eclipsing double white dwarf system
Coughlin, M. W., Burdge, K., Phinney, S. E., ...**Kupfer, T.** ... et al. 2020, MNRAS, 494, 91
- Cataclysmic Variables in the First Year of the Zwicky Transient Facility
Szkody, P., Diczynski, B., Ho, A. Y. Q., ...**Kupfer, T.** ... et al. 2020, AJ, 159, 198
- IGAPS: the merged IPHAS and UVEX optical surveys of the Northern Galactic Plane
Monguió, M., Greimel, R., Drew, J. E., ...**Kupfer, T.** ... et al. 2020, accepted for MNRAS, ArXiv: 2002.05157
- Orbital Decay in a 20 Minute Orbital Period Detached Binary with a Hydrogen Poor Low Mass White Dwarf
Burdge, K. B., Fuller, J., Phinney, E. S., ...**Kupfer, T.** ... et al. 2019, ApJ, 886, 12
- Predicting the LISA white dwarf binary population in the Milky Way with cosmological simulations
Lamberts, A., Blunt, S., Littenberg, T. B., ...**Kupfer, T.** ... et al. 2019, MNRAS 490, 5888
- The EREBOS project – Investigating the effect of substellar and low-mass stellar companions on late stellar evolution
Schaffenroth, V., Barlow, B. N., Geier, S., ...**Kupfer, T.** ... et al. 2019, A&A, 630, 80
- PG 1610+062: a runaway B star challenging classical ejection mechanisms
Irrgang, A., Geier, S., Heber, U., **Kupfer, T.**, Fürst, F. 2019, A&A, 628L, 5
- Census of the Local Universe (CLU) Narrowband Survey. I. Galaxy Catalogs from Preliminary Fields
Cook, D. O., Kasliwal, M. M., Van Sistine, A., ...**Kupfer, T.** ... et al. 2019, ApJ, 880, 7
- The Zwicky Transient Facility: Science Objectives
Graham, M. J., Kulkarni, S. R., Bellm, E. C., ...**Kupfer, T.** ... et al. 2019, PASP, 131, 8001
- The Zwicky Transient Facility: Surveys and Scheduler
Bellm, E. C., Kulkarni, S. R., Barlow, T., ...**Kupfer, T.** ... et al. 2019, PASP, 131, 8003
- Machine Learning for the Zwicky Transient Facility
Mahabal, A., Rebbapragada, U., Walters, R., ...**Kupfer, T.** ... et al. 2019, PASP, 131, 8002
- The Zwicky Transient Facility: Data Processing, Products, and Archive
Masci, F. J., Laher, R. R., Rusholme, B., ...**Kupfer, T.** ... et al. 2019, PASP, 131, 8003
- The Zwicky Transient Facility: System Overview, Performance, and First Results
Bellm, E. C., Kulkarni, S. R., Graham, M. J., ...**Kupfer, T.** ... et al. 2019, PASP, 131, 8002
- Phase-resolved spectroscopy of Gaia14aae: line emission from near the white dwarf surface
Green, M. J., Marsh, T. R., Steeghs, D., Breedt, E., **Kupfer, T.**, et al. 2019, MNRAS, 485, 1947
- Processing Images from the Zwicky Transient Facility
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