

CURRICULUM VITAE

Personal Details:

- Name: Manuel Linares Alegret. ([ORCID ID: 0000-0002-0237-1636](https://orcid.org/0000-0002-0237-1636))
- Citizenship: Spanish. Born in Barcelona, Catalonia, Spain.
- Date of birth: October 14th, 1980.
- Affiliations: Norwegian University of Science and Technology (NTNU)
Polytechnic University of Catalonia (UPC) – BarcelonaTech
- Homepage: <https://folk.ntnu.no/manuelli/>



Education:

- **Ph. D. in Astronomy**, 2009.
Astronomical Institute, University of Amsterdam. Advisor: M. van der Klis.
Thesis Title: “*Accretion states and thermonuclear bursts in neutron star X-ray binaries.*”
- **B. Sc. in Physics & M. Sc. in Astrophysics**, 2004.
University of Barcelona. (Licenciatura en Física. Especialidad: Astrofísica.)

Current Positions:

- **Professor** (Since September 2021).
Norwegian University of Science and Technology – Department of Physics.
- **Associate Professor** (Since September 2018, on leave).
Polytechnic University of Catalonia – Physics Department.

Previous Positions and Fellowships:

- **Marie Curie Fellowship**, 2017 – 2018.
Polytechnic University of Catalonia – Group of Astronomy and Astrophysics.
- **IAC Postdoctoral Fellowship**, 2012 – 2017.
Institute for Astrophysics of the Canaries.
- **Rubicon Postdoctoral Fellowship**, 2009 – 2012.
Massachusetts Institute of Technology – Kavli Institute for Astrophysics and Space Research.
- **Ph. D. Position**, 2004 – 2009.
University of Amsterdam – Astronomical Institute.

Awards:

- ERC Consolidator Grant, Universe Sciences Panel. Awarded by the ERC through H2020, 2020.
- Marie Curie Individual Fellowship, Reintegration Panel. Awarded by the EU through H2020, 2016.
- Top-three Spanish Thesis; Ph. D. Thesis selected by the Spanish Astronomical Society as one of the top 3 in Astronomy & Astrophysics in the biennium 2008 – 2009.
- Rubicon Grant awarded by the Physics division of the Netherlands organization for Scientific Research, 2009. Taken at the MIT Kavli Institute for Astrophysics and Space Research.
- Scholarship awarded by the Spanish Ministry of Education for outstanding undergraduate students to initiate scientific research, 2004. Taken at the Astronomy Dep. of the University of Barcelona.
- Silver Medal in the Spanish national competition in physics: “Olympic games of physics”, 1998.

Summary:

I am an X-ray astronomer with multi-wavelength experience and a strong background in physics. My research revolves around **compact objects, accretion flows and high-energy astrophysics**. I have been awarded with more than 3 Msec of observations in multiple **space- and ground-based telescopes** (in the radio, optical, UV, X-ray and gamma-ray bands). I have obtained **research funds** for more than 2.4 million EUR (all as PI). I have authored **66 refereed articles** in high-impact journals (Nature, ApJ, MNRAS, A&A), 15 of them as 1st author. As of May 2022, my publications have received **more than 3000 citations** and form an **h-index of 30**.

In 2021, I was appointed **Professor at the Department of Physics** of the Norwegian University of Science and Technology, where I **lead an ERC Consolidator Grant project**. I collaborate regularly with colleagues in Denmark, The Netherlands, Spain and the U.S., where I have held long/short-term research positions. I have been **invited to international conferences** and seminars in The Netherlands, Austria, Spain, Turkey, Korea and the U.S., to present our work on compact binary millisecond pulsars and thermonuclear explosions on neutron stars. I act as **referee** for four astronomical journals and I have served as **reviewer** in time allocation committees for ESA, ESO and NASA. I am a member of the **science working groups** of the high-energy observatories Athena (launch 2028), eXTP (2025 launch) and STROBE-X (proposed 2030s).

Awarded research funding (as Principal Investigator, selection):

- LOVE-NEST: Looking for Super-Massive Neutron Stars. (*Expected start: September 2021*)
ERC Consolidator Grant, Horizon-2020, 2020. **EUR 2,000,000**.
- BACCO: Burning on Accreting Compact Objects.
Marie-Curie Fellowship grant, Horizon-2020, 2016. **EUR 170,000**.
- The GBM all-sky X-ray burst monitor.
Fermi, Cycle 4, 2011 **USD 160,000**.
- High-resolution X-ray spectroscopy of the 11 Hz pulsar IGR J17480-2446.
Chandra, Cycle 13, 2011 (not triggered). **USD 50,600**.
- Accretion disks in strong gravity: Fe lines vs. kHz QPOs and spectral states.
Suzaku, AO-5, 2010. **USD 35,000**.

Awarded observations (as Principal Investigator, selection):

- Spectroscopic/photometric studies of redback millisecond pulsars.
GTC, WHT, NOT, INT, LT, Multiple observing runs at La Palma, 2013-2017. >10 nights.
- Spying on millisecond pulsar paradise: Chandra+GBT monitoring of M28
GBT+Chandra, AO-16, 2014. 90 ksec (Chandra) + 24 hr (GBT).
- Narrow lines from a slowly rotating neutron star.
Chandra, AO-13,15-19, 2011-2017 (co-PIs: Chakrabarty, Canizares). 300 ksec.
- A Swift monitoring of neutron stars in globular clusters.
Swift Danish GTO, Cycle 2-3, 2014-2016 (co-PI: Chenevez). 260 ksec.
- Accretion disks in strong gravity: Fe lines vs. kHz QPOs and spectral states.
Suzaku, AO-4, AO-5, 2009-2010. 200 ksec.
- WSRT observation of an accreting millisecond pulsar in outburst: IGR J00291+5934.
Westerbork Synthesis Radio Telescope, ToO, 2008. 36 ksec.
- Extended timing observations of the accreting millisecond pulsar IGR J00291+5934.
Rossi X-ray Timing Explorer, AO-11, 2006. 400 ksec.

Teaching:

- “*Observational Astrophysics*”: lectures, AstroLAB sessions and observing project.
1st year M. Sc. course, Physics Degrees. **NTNU**, 2022-.
- “*Fundamentals of Mechanics*”: lectures and lab sessions.
1st year B. Sc. course, Engineering Degrees. **Polytechnic University of Catalonia**, 2018-2021.
- “*Quantum Physics*”: lectures, theory and problems.
2nd year B. Sc. course, Engineering Physics. **Polytechnic University of Catalonia**, 2017-2021.
- “*Astrophysics*”: seminars.
3^d year B. Sc. course, Engineering Physics. **Polytechnic University of Catalonia**, 2017-2021.
- “*X-ray timing techniques*”. Hands-on session.
1st. school on multi-wavelength BH astronomy. **University Paris Diderot**, 2009.
- “*Astrophysics of compact stars*”. “*Galaxies*”. “*Solar system*”. Teaching assistant.
Second & Third year B. Sc. courses, **University of Amsterdam**, 2008.
- “*Optical spectroscopy of Arcturus*”. Astronomy practicum. Project supervisor.
Third year B. Sc. course, **University of Amsterdam**, 2007.

Supervision:

- “*Optical studies of binary millisecond pulsars*”. Supervisor.
Ph. D. thesis (M. Turchetta). **Norwegian University of Science and Technology**, 2022-.

- *"Compact binary MSPs: from multi-wavelength observations to numerical simulations"*. Supervisor. Ph. D. thesis (E. Vurgun). **Polytechnic University of Catalonia**, 2020-.
- *"The bright outburst of a new black hole candidate"*. Supervisor. B. Sc. thesis (C. Celma). **Polytechnic University of Catalonia**, 2019.
- *"Chandra observations of the globular cluster M28"*. Supervisor. B. Sc. research project (M. Rubio). **Polytechnic University of Catalonia**, 2018.
- *"X-ray and optical counterparts of Fermi-LAT millisecond pulsar candidates"*. Supervisor. B. Sc. research project (L. Portós, A. Valenzuela). **Polytechnic University of Catalonia**, 2017.
- *"A study of neutron stars in globular clusters using Swift X-ray observations"*. Co-supervisor. M. Sc. thesis (L. Taddei). DTU / **Polytechnic University of Catalonia**, 2017.
- *"A neutron star between outburst and quiescence"*. Co-supervisor. Ph. D. research project (J. Allen). **Massachusetts Institute of Technology**, 2012–2014.
- *"Super-orbital variability in X-ray binaries"*. Supervisor. M. Sc. thesis (A. Tol). **University of Amsterdam**, 2008.

Other Professional Activities:

- **Member** of the Scientific Organizing Committee, PHAROS conference, Rome (2022).
- **Panel** member in multiple BSc. thesis committees, UPC, Barcelona (2018-present).
- **Chair** of Symposium 11, "[Neutron stars at the crossroads: X-ray binaries and transitional millisecond pulsars](#)", at the annual meeting of the European Astronomical Society (European Week of Astronomy and Space Science, EWASS-2015, in Tenerife, Spain).
- **Member** of the science working groups of Athena, STROBE-X and eXTP (2014-present).
- **Part** of the collaboration "*Mapping neutron stars with type I X-ray bursts*", ISSI-Bern, 2011-2012.
- **Member** of the American (2011) and European (2018-) Astronomical Societies.
- **Reviewer** for the Dutch science foundation (NWO), for the European Southern Observatory (ESO) and for ESA & NASA time allocation committees (2009-present).
- **Referee** for ApJ, A&A, ApSS and MNRAS (2007-present).
- **Organizer** in the scientific and local organizing committees of the workshop "*A decade of accreting millisecond X-ray pulsars*", held in Amsterdam, April 2008.
- **Co-editor** of the proceedings book of the workshop "*A decade of accreting millisecond pulsars*", held in Amsterdam in April 2008 (AIP Journals).

Invited presentations:

- IAU, General Assembly. Busan, South Korea. August 2022.
Invited Talk: "*Compact binary millisecond pulsars and the neutron star mass distribution.*"
- NOT, a telescope for the future. La Palma, Spain. June 2022.
Invited Talk: "*Teaching observational astrophysics with the NOT.*"
- NTNU Department of Physics & RealFagkonferansen. Trondheim, Norway, October & May 2021.
Invited Colloquium & Talk: "*The many faces of neutron stars.*"
- Astronomical Institute UvA. Amsterdam, The Netherlands, September 2019.
Invited Colloquium: "*Massive pulsars in compact binaries.*"
- Frascati workshop. Palermo, Italy, June 2019.
Invited Talk: "*Massive neutron stars and constraints on the equation of state.*"
- 16th Russbach school on nuclear astrophysics. Russbach, Austria, March 2019.
Invited Lecture: "*Constraining the equation of state with NS mass and radius measurements.*"
- OzGrav weekly videoconference. Australia/Online. June 2018.
Invited Talk: "*The hunt for the most massive neutron stars.*"
- La Gomera Accretion Week. La Gomera, Spain, September 2017.
Invited Talk: "*Compact Binary Millisecond Pulsars.*"
- The Zoo of Accreting Compact Objects. Leiden, Netherlands, August 2015.
Invited Talk: "*X-ray states of Redback millisecond pulsars*".
- Spanish X-ray Astronomy. Santander, Spain, June 2015 (declined, paternity).
Invited Review Talk: "*Observations of Thermonuclear X-ray Bursts*".
- Variable Galactic Gamma-ray Sources. Heidelberg, Germany, May 2015 (declined, paternity).
Invited Talk: "*X-ray States of Redback Millisecond Pulsars*".
- Sabanci University. Istanbul, Turkey, October 2013.
Invited Physics Seminar: "*Accretion- and thermonuclear-powered neutron stars*".

- Spanish X-ray Astronomy. Barcelona, Spain, June 2013.
Invited Review Talk: “*Observations of Thermonuclear X-ray Bursts*”.
- 16 years of discovery with RXTE. NASA-GSFC, USA, March 2012.
Invited Talk: “*Thermonuclear burning on accreting NSs: RXTE’s recent discoveries.*”

Selection of conferences with contributed talks:

- PHAROS: multi-messenger physics & astrophysics of neutron stars. **Rome**, Italy, June 2022.
- ICRC: The Astroparticle Physics conference. **Berlin/Online**, July 2021.
- The formation and evolution of neutron stars, 14th workshop. **Bonn, Germany**, February 2020.
- FOXT: The future of X-ray timing. **Amsterdam**, The Netherlands, October 2019.
- PHAROS: multi-messenger physics & astrophysics of neutron stars. **Platja d’Aro**, Spain, Apr. 2019.
- Neutron stars: the equation of state, **Coimbra**, Portugal, Sep. 2018.
- COSPAR scientific assembly, **Pasadena**, U.S., Jul. 2018.
- Scientific meeting SEA, **Salamanca**, Spain, Jul. 2018.
- From cooling to explosion: the physics of white dwarfs, **Tossa**, Spain, Jun. 2017.
- 40 years of X-ray bursts, **ESAC**, Spain, Jun. 2015.
- 15 years of science with Chandra. **Boston**, MA, Nov. 2014.
- NS2014: The structure and signals of neutron stars. **Florence**, Italy, Mar. 2014.
- European Week of Astronomy and Space Science. **Turku**, Finland, Jul. 2013.
- HEAD meeting. Newport, RI, Sep. 2011. AAS 219-meeting. **Austin**, TX, Jan. 2012.
- Physics of Neutron Stars. **St. Petersburg**, Russia, July 2011.

Direction of and participation in competitive research projects:

- Project: Burning on Accreting Compact Objects Lead researcher: M. Linares
Financing entity: European Commission Reference: Marie Curie IF. Grant nr.702638
Amount granted: 170.000 EUR Duration: 2016 to 2018
I led this EU project at the UPC to study nuclear burning on accreting compact objects, combining observations of novae and thermonuclear bursts with models and simulations of ignition/explosion phases.
- Project: The physics of compact objects Lead researchers: J. José, D. García-Senz
Financing entity: Ministerio de Ciencia y Tecnología Reference: AYA2017-86274-P
Amount granted: 115.000 EUR Duration: 2018 to 2020
I am coI of this research project at the UPC, focused on white dwarf cooling, novae and type Ia supernovae.
- Project: VHE emission of transitional MSPs Lead researcher: M. Linares
Financing entity: Ministerio de Ed. Cult. Y Dep. Reference: CAS15/00206
Amount granted: 16.000 EUR Duration: 2015 to 2016
I took this six-months visit grant to NTNU, Norway, to work on very high-energy and neutrino emission from compact binary millisecond pulsars with M. Kachelriess.
- Project: The nature and evolution of X-ray binaries Lead researchers: J. Casares, T. Shahbaz
Financing entity: Ministerio de Ciencia y Tecnología Reference: AYA 2013-42627/2010-18080
Amount granted: 200.000 EUR Duration: 2012 to 2016
I was part of this productive research project at the IAC, where I developed a novel technique to measure masses of compact binary millisecond pulsars.
- Project: The GBM All-sky X-ray Burst Monitor Lead researcher: M. Linares
Financing entity: NASA's Fermi GI program Reference: NNX11AO19G
Amount granted: 140.000 EUR Duration: 2011 to 2013
I led this NASA-funded project while working at MIT. I developed a novel method to detect the most energetic thermonuclear explosions from neutron stars in our Galaxy. After obtaining funds in a competitive call for proposals, I was in charge of scientific and financial management, with a team of about six members.

Languages:

- **Spanish, Catalan:** native.
- **English, Italian:** fluent.
- **French, Dutch, Norwegian:** basic.

Summary of publication record:
(NASA-ADS, May 2022)

- Total number of publications: **172**.
- Total number of refereed publications: **66** (Nature, ApJ, MNRAS, JCAP and A&A)
- Refereed publications as lead author: **15**
- Total number of citations: **3001**
- Average citations: **32** per refereed article.
- H-Index: **30**.

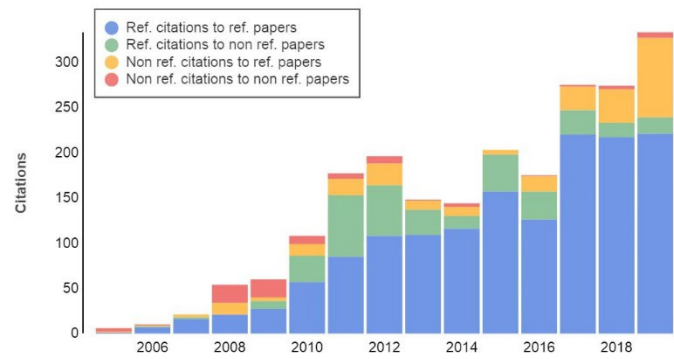


Figure 1: Total number of yearly citations, 2005-2019.

Selection of ten key refereed publications:

- 1) *Peering into the dark side: Magnesium lines establish a massive neutron star in PSR J2215+5135.*
Linares, Shahbaz, Casares, 2018, ApJ, 859, 54. [148 citations]
- 2) *A millisecond pulsar candidate in a 21-h orbit: 3FGL J0212.1+5320.*
Linares, Miles-Páez, Rodríguez-Gil, Shahbaz, Casares, et al., 2017. MNRAS, 465, 4602. [17 citations]
- 3) *The 26.3-h orbit and multiwavelength properties of the `redback' millisecond pulsar PSR J1306-40.*
Linares, 2018, MNRAS, 473, 116. [12 citations]

We have recently found one of the most massive neutron stars, with 2.3 Solar masses, and discovered two new binary pulsars. Together with my collaborators@IAC (2017-2018, items 1-3).

- 4) *Spectral Softening Between Outburst and Quiescence In The Neutron Star LMXB SAX J1750.8-2900.*
Allen, **Linares**, Homan, Chakrabarty, 2015, ApJ, 801, 10. [17 citations]
- 5) *The binary millisecond pulsar PSR J1023+0038 during its accretion state - I. Optical variability.*
Shahbaz, **Linares**, et al., 2015, MNRAS, 453, 3461. [36 citations]
- 6) *Low-level accretion in neutron star X-ray binaries.*
Wijnands et al. [incl. **Linares**, 6th author], 2015. MNRAS, 454, 1371. [65 citations]

I supervised PhD student J.Allen@MIT in a study of low-level neutron star accretion (2014-2015, item 4), and contributed to numerous studies of pulsars and neutron star transients (e.g., 2015, items 5-6).

- 7) *X-ray states of redback millisecond pulsars.*
Linares, 2014, ApJ, 795, 72. [77 citations]
- 8) *The NS transient and MSP in M28: from sub-luminous accretion to rotation-powered quiescence.*
Linares et al., 2014, MNRAS, 438, 251. [75 citations]

We discovered X-ray mode switching in the disk state of M28-I (2013-2014, item 8). In my 1st single-author article, I reviewed the three main states of redback pulsars (2014, item 7).

- 9) *An Accreting Millisecond Pulsar with Black Hole-like X-Ray Variability: IGR J00291+5934.*
Linares, van der Klis & Wijnands, 2007, ApJ, 660, 595. [28 citations]
- 10) *Discovery of kHz QPOs and Shifted Frequency Correlations in the Accreting MSP XTE J1807-294.*
Linares, van der Klis, Altamirano & Markwardt, 2005, ApJ, 634, 1250. [71 citations]

I studied accreting millisecond pulsars in depth during my PhD@Amsterdam, where I discovered kHz QPOs and I found a pulsar that ‘acted’ like a black hole (2005-2009, items 9-10).

Selection of five additional high-impact refereed publications:

- 11) *Millihertz QPOs & thermonuclear bursts from Terzan 5: a showcase of burning regimes.*
Linares, Altamirano, Chakrabarty, Cumming, Keek, 2012, ApJ, 748, 82. [54 citations]
- 12) *On the Cooling Tails of Thermonuclear X-ray Bursts: The IGR J17480-2446 Link.*
Linares, Chakrabarty & van der Klis, 2011, ApJ-L, 733, 17. [19 citations]
- 13) *The Return of the Bursts: Thermonuclear Flashes from Circinus X-1.*
Linares, et al., 2010, ApJ-L, 719, 84. [24 citations]
- 14) *Cooling of the quasi-persistent neutron star transients KS 1731-260 and MXB 1659-29.* Cackett, Wijnands, **Linares**, Miller, Homan & Lewin, 2006, MNRAS, 372, 479. [90 citations]
- 15) *Regulation of black-hole accretion by a disk wind during a violent outburst of V404 Cygni.*
Muñoz-Darias et al. [incl. **Linares**, 6th autor], 2016. Nature, 534, 75. [54 citations]

Observatory/instrument-related publications (within large international collaborations):

- 16) *Observatory science with eXTP.*
in 't Zand, et al. [incl. **Linares**], 2019, SCPMA, arXiv:1812.04023. [7 citations]
- 17) *Accretion in strong field gravity with eXTP.*
De Rosa, et al. [incl. **Linares**], 2019, SCPMA, arXiv:1812.04022. [3 citations]
- 18) *Dense matter with eXTP.*
Watts, et al. [incl. **Linares**], 2019, SCPMA, arXiv:1812.04021. [9 citations]
- 19) *Science with e-ASTROGAM (a space mission for MeV-GeV astrophysics).*
De Angelis, et al. [incl. **Linares**], 2017, JHEA, arXiv:1711.01265. [30 citations]
- 20) *XIPE: the x-ray imaging polarimetry explorer.*
Soffita et al. [incl. **Linares**], 2016, SPIE proc., 9905, 15. [6 citations]
- 21) *The LOFT mission concept: a status update.*
Feroci et al. [incl. **Linares**], 2016, SPIE, 9905. [4 citations]
- 22) *The LOFT perspective on neutron star thermonuclear bursts.*
in't Zand et al. [incl. **Linares**], 2015, White Paper, arXiv:1501.02776. [6 citations]

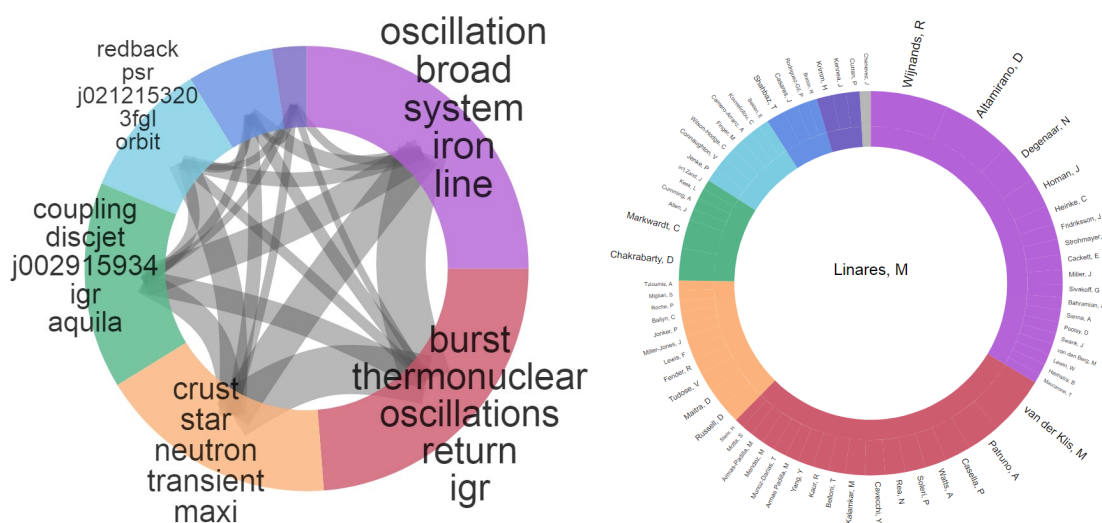


Figure 2. Most frequent keywords (left) and co-authors (right), for 155 publications authored by M. Linares. Credit and details: [SAO/NASA-ADS](#).

Full list of refereed publications (NASA-ADS, Jan. 2020):

0. 2021.JCAP.accepted. Linares M., Kachelriess, M. *Cosmic ray positrons from compact binary millisecond pulsars*
1. 2019MNRAS.488.4477D Degenaar N., et al.: *Crust cooling of the neutron star in Aql X-1: different depth and magnitude of shallow heating during similar accretion outbursts*, MNRAS, 488, 4477 (2019). Cit: 5
2. 2019MNRAS.488..198S Shahbaz T., Linares M., Rodríguez-Gil P., Casares J.: *The binary millisecond pulsar PSR J1023+0038 - II. Optical spectroscopy*, MNRAS, 488, 198 (2019). Cit: 3
3. 2019MNRAS.484.3004W Wang Y., et al.: *Study of the X-ray properties of the neutron star binary 4U 1728-34 from the soft-to-hard state*, MNRAS, 484, 3004 (2019). Cit: 0
4. 2019SCPMA..6229506I in't Zand J. J. M., et al.: *Observatory science with eXTP*, SCPMA, 62, 29506 (2019). Cit: 9
5. 2019SCPMA..6229504D De Rosa A., et al.: *Accretion in strong field gravity with eXTP*, SCPMA, 62, 29504 (2019). Cit: 6
6. 2019SCPMA..6229503W Watts A. L., et al.: *Dense matter with eXTP*, SCPMA, 62, 29503 (2019). Cit: 20
7. 2018MNRAS.481.2646M Mata Sánchez D., et al.: *The 1989 and 2015 outbursts of V404 Cygni: a global study of wind-related optical features*, MNRAS, 481, 2646 (2018). Cit: 7
8. 2018JHEAp..19....1D de Angelis A., et al.: *Science with e-ASTROGAM. A space mission for MeV-GeV gamma-ray astrophysics*, JHEAp, 19, 1 (2018). Cit: 54

9. 2018ApJ...859...54L Linares M., Shahbaz T., Casares J.: *Peering into the Dark Side: Magnesium Lines Establish a Massive Neutron Star in PSRJ2215+5135*, ApJ, 859, 54 (2018). Cit: 42
10. 2018MNRAS.473L..50L Linares M.: *The 26.3-h orbit and multiwavelength properties of the 'redback' millisecond pulsar PSR J1306-40*, MNRAS, 473,L50 (2018). Cit: 3
11. 2017MNRAS.472.4287S Shahbaz T., Linares M., Breton R. P.: *Properties of the redback millisecond pulsar binary 3FGL J0212.1+5320*, MNRAS, 472,4287 (2017). Cit: 5
12. 2017ApJ...851L..28P Parikh A. S., et al.: *Different Accretion Heating of the Neutron Star Crust during Multiple Outbursts in MAXIJ0556-332*, ApJ, 851, L28 (2017). Cit: 14
13. 2017MNRAS.471.2902R Rea N., et al.: *Multiband study of RX J0838-2827 and XMM J083850.4-282759: a new asynchronous magnetic cataclysmic variable and a candidate transitional millisecond pulsar*, MNRAS, 471, 2902(2017). Cit: 6
14. 2017MNRAS.468..564M Mata S&accute;nchez D., Charles P. A., Armas Padilla M., Buckley D. A. H., Israel G. L., Linares M., Muñoz-Darias T.: *Swift and SALT observations of the multiple outbursts of MAXI J1957+032*, MNRAS, 468, 564 (2017). Cit: 4
15. 2017MNRAS.466.4074P Parikh A. S., et al.: *Potential cooling of an accretion-heated neutron star crust in the low-mass X-ray binary 1RXSJ180408.9-342058*, MNRAS, 466, 4074 (2017). Cit: 14
16. 2017MNRAS.465.4602L Linares M., Miles-P&accute;ez P., Rodríguez-Gil P., Shahbaz T., Casares J., Fariña C., Karjalainen R.: *A millisecond pulsar candidate in a 21-h orbit: 3FGL J0212.1+5320*, MNRAS, 465, 4602 (2017). Cit: 8
17. 2016ApJ...826..228J Jenke P. A., Linares M., Connaughton V., Beklen E., Camero-Arranz A., Finger M. H., Wilson-Hodge C. A.: *The Fermi-GBM Three-year X-Ray Burst Catalog*, ApJ, 826, 228 (2016). Cit: 8
18. 2016MNRAS.460..345T Tetarenko A. J., et al.: *Disc-jet coupling in the Terzan 5 neutron star X-ray binary EXO 1745-248*, MNRAS, 460, 345(2016). Cit: 19
19. 2016Natur.534...75M Muñoz-Darias T., et al.: *Regulation of black-hole accretion by a disk wind during a violent outburst of V404 Cygni*, Natur, 534, 75 (2016). Cit: 54
20. 2016MNRAS.456.4001W Waterhouse A. C., Degenaar N., Wijnands R., Brown E.F., Miller J. M., Altamirano D., Linares M.: *Constraining the properties of neutron star crusts with the transient low-mass X-ray binary Aql X-1*, MNRAS, 456, 4001 (2016). Cit: 23
21. 2015MNRAS.454.1371W Wijnands R., Degenaar N., Armas Padilla M., Altamirano D., Cavecchi Y., Linares M., Bahramian A., Heinke C. O.: *Low-level accretion in neutron star X-ray binaries*, MNRAS, 454, 1371(2015). Cit: 47
22. 2015MNRAS.453.3461S Shahbaz T., et al.: *The binary millisecond pulsar PSR J1023+0038 during its accretion state - I. Optical variability*, MNRAS, 453, 3461 (2015). Cit: 22
23. 2015ApJ...801...10A Allen J. L., Linares M., Homan J., Chakrabarty D.: *Spectral Softening Between Outburst and Quiescence In The Neutron Star Low-Mass X-Ray Binary SAX J1750.8-2900*, ApJ, 801, 10 (2015). Cit: 14
24. 2014ApJ...795..131H Homan J., Fridriksson J. K., Wijnands R., Cackett E.M., Degenaar N., Linares M., Lin D., Remillard R. A.: *A Strongly Heated Neutron Star in the Transient Z Source MAXI J0556-332*, ApJ, 795, 131(2014). Cit: 42
25. 2014ApJ...795...72L Linares M.: *X-Ray States of Redback Millisecond Pulsars*, ApJ, 795, 72 (2014). Cit: 51
26. 2014ApJ...793..128V van den Berg M., Homan J., Fridriksson J. K., Linares M.: *Discovery of the Near-infrared Counterpart to the Luminous Neutron-star Low-mass X-Ray Binary GX 3+1*, ApJ, 793, 128 (2014). Cit: 4
27. 2014MNRAS.443.1788C Coffey D., et al.: *Absorption at the dust sublimation radius and the dichotomy between X-ray and optical classification in the Seyfert galaxy H0557-385*, MNRAS, 443, 1788 (2014). Cit: 6
28. 2014MNRAS.440.3275S Sanna A., Méndez M., Altamirano D., Belloni T., Hiemstra B., Linares M.: *Broad iron emission line and kilohertz quasi-periodic oscillations in the neutron star system 4U 1636-53*, MNRAS, 440, 3275 (2014). Cit: 10
29. 2014MNRAS.438..251L Linares M., et al.: *The neutron star transient and millisecond pulsar in M28: from sub-luminous accretion to rotation-powered quiescence*, MNRAS, 438, 251 (2014).

Cit: 61

30. 2014ApJ...780..127B Bahramian A., et al.: *Discovery of the Third Transient X-Ray Binary in the Galactic Globular Cluster Terzan 5*, ApJ, 780, 127 (2014). Cit: 51
31. 2013MNRAS.433.2436P Pawar D. D., Kalamkar M., Altamirano D., Linares M., Shanthi K., Strohmayer T., Bhattacharya D., van der Klis M.: *Discovery of twin kHz quasi-periodic oscillations in the low-mass X-ray binary XTE J1701-407*, MNRAS, 433, 2436 (2013). Cit: 6
32. 2013MNRAS.433.1951A Armstrong R. P., et al.: *A return to strong radio flaring by Circinus X-1 observed with the Karoo Array Telescope test array KAT-7*, MNRAS, 433, 1951 (2013). Cit: 12
33. 2013MNRAS.432.1144S Sanna A., Hiemstra B., & Mande M., Altamirano D., Belloni T., Linares M.: *Broad iron line in the fast spinning neutron-star system 4U 1636-53*, MNRAS, 432, 1144 (2013). Cit: 28
34. 2013MNRAS.429.1244S Soleri P., et al.: *A complex state transition from the black hole candidate Swift J1753.5-0127*, MNRAS, 429, 1244 (2013). Cit: 31
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