

Publication list

(*Electronic links available in blue*)

Resume:

Total number of referred publications

125 articles

Articles as 1^{er} author

20 articles

30187 Citations (ADS, 28 February 2025)

H index 50

Conference proceedings

87 articles

Color legend for different topics:

Stars ● - 66 articles, planets ● - 15 articles, instrumental ● - 2 articles, large collaborations ● - 42 articles

Referred publications

2025

1. A. Denis et al. ●
Characterization of AF Lep b at high spectral resolution with VLT/HiRISE, *Astronomy & Astrophysics*
2. Rauer et al. ●
The PLATO Mission, *Experimental Astronomy*

2024

3. **A. Chiavassa**, K. Kravchenko, J. Goldberg ●
Signatures of convection in the atmospheres of cool evolved stars, *Living Reviews in Computational Astrophysics*, *Springer Nature*
4. J. Z. Ma, **A. Chiavassa**, S. E. de Mink, R. Valli, S. Justham, B. Freytag ●
Is Betelgeuse really rotating? Synthetic ALMA observations of large-scale convection in 3D simulations of Red Supergiants, *ApJ* (*Press Release*)
5. E. Béguin, **A. Chiavassa**, A. Ahmad, B. Freytag, S. Uttenthaler ●
Retrieving stellar parameters and dynamics of AGB stars with Gaia parallax measurements and CO5BOLD RHD simulations, *Astronomy & Astrophysics*
6. B. Freytag, S. Hofner, B. Aringer, **A. Chiavassa** ●
Dimming events of evolved stars due to clouds of molecular gas. Scenarios based on 3D radiation-hydrodynamics simulations with CO5BOLD, *Astronomy & Astrophysics*

7. A. Simonnin, V. Parmentier, J.P. Wardenier, G. Chauvin, **A. Chiavassa** et al. ●
Time Resolved Absorption of Six Chemical Species With MAROON-X Points to Strong Drag in the Ultra Hot Jupiter TOI-1518 b, *Astronomy & Astrophysics*
8. D. Jadrlovsky et al. ●
The Great Dimming of Betelgeuse: the photosphere as revealed by tomography during the past 15 years, *Astronomy & Astrophysics*
9. L. Planquart et al. ●
An impressionist view of V Hydrae. When MATISSE paints Asymmetric Giant Blobs, *Astronomy & Astrophysics*
10. A. Rosales-Guzman et al. et al. ●
A new dimension in the variability of AGB stars: convection patterns size changes with pulsation, *Astronomy & Astrophysics*
11. Gaia Collaboration ●
Discovery of a dormant 33 solar-mass black hole in pre-release Gaia astrometry Gaia, *Astronomy & Astrophysics*

2023

12. E. Pallé et al. ●
Ground-breaking Exoplanet Science with the ANDES spectrograph at the ELT, *Experimental Astronomy*, submitted
13. I. Roederer et al. ●
The discovery space of ELT-ANDES. Stars and stellar populations, *Experimental Astronomy*
14. J. Drevon et al. ●
Images of Betelgeuse with VLTI/MATISSE across the Great Dimming, *MNRAS*, 527, L88
15. B. Klein et al. ●
ATMOSPHERIX: I- An open source high resolution transmission spectroscopy pipeline for exoplanets atmospheres with SPIRou, *MNRAS*, 527, 544
16. F. Debras et al. ●
ATMOSPHERIX: II- Characterising exoplanet atmospheres through transmission spectroscopy with SPIRou, *MNRAS*, 527, 566
17. G. Roccetti et al. ●
Presence of liquid water during the evolution of exomoons orbiting ejected free-floating planets, *International Journal of Astrobiology*, 22, 4, 317-346
18. E. Cannon et al. ●
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19. Gaia Collaboration ●
Gaia Focused Product Release: Asteroid orbital solution. Properties and assessment, *Astronomy & Astrophysics*, 680, A37
20. Gaia Collaboration ●

Gaia Focused Product Release: Spatial distribution of two diffuse interstellar bands, *Astronomy & Astrophysics*, 680, A38

21. Gaia Collaboration ●
Gaia Focused Product Release: Radial velocity time series of long-period variables, *Astronomy & Astrophysics*, 680, A36
22. Gaia Collaboration ●
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23. Gaia Collaboration ●
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24. Gaia Collaboration ●
Gaia Data Release 3. The extragalactic content, *Astronomy & Astrophysics*, 674, A41
25. Gaia Collaboration ●
Gaia Data Release 3. Exploring and mapping the diffuse interstellar band at 862 nm, *Astronomy & Astrophysics*, 674, A40
26. Gaia Collaboration ●
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27. M. C. Maimone, M. Brogi, **A. Chiavassa**, et al. ●
Detecting H₂O with CRIRES+: the case of WASP-20b, *Astronomy & Astrophysics*, 667, A106
28. **A. Chiavassa**, R. Kudritzki, B. Davies, B. Freytag, S. E. de Mink ●
Probing red supergiant dynamics through photo-center displacements measured by Gaia, *Astronomy & Astrophysics*, 661, L1 (*Press Release*)
29. A. Kozyreva, J. Klencki, A. V. Filippenko, P. Baklanov, A. Mironov, S. Justham, **A. Chiavassa** ●
The circumstellar material around the Type IIP SN 2021yja, *ApJ*, 934, L31
30. Gaia Collaboration ●
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31. Gaia Collaboration ●
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33. Gaia Collaboration ●
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35. Gaia Collaboration ●
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36. Gaia Collaboration ●
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37. Gaia Collaboration ●
Gaia Data Release 3: A Golden Sample of Astrophysical Parameters, *Astronomy & Astrophysics*, 674, A39
38. Gaia Collaboration ●
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39. Gaia Collaboration ●
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40. Gaia Collaboration ●
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42. Gaia Collaboration ●
Gaia Data Release 3: Mapping the asymmetric disc of the Milky Way Gaia Collaboration, *Astronomy & Astrophysics*, 674, A29
43. Gaia Collaboration ●
Gaia Data Release 3: Chemical cartography of the Milky Way Gaia Collaboration, *Astronomy & Astrophysics*, 674, A38
44. Gaia Collaboration ●
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45. **A. Chiavassa**, K. Kravchenko, M. Montargès et al. ●
The extended atmosphere and circumstellar environment of the cool evolved star VX Sagittarii as seen by MATISSE, *Astronomy & Astrophysics*, 658, A185
46. M. Montargès et al. ●
A dusty veil shading Betelgeuse during its Great Dimming, *Nature*, 594, 7863, 365 (*Press Release*)
47. P. J. Avila, T. Grassi, S. Bovino, **A. Chiavassa**, et al. ●
Presence of water on exomoons orbiting free-floating planets: a case study, *International Journal*

- 48. K. Kravchenko, A. Jorissen, S. Van Eck, T. Merle, **A. Chiavassa**, et al. ●
Atmosphere of Betelgeuse before and during the Great Dimming event revealed by tomography, *Astronomy & Astrophysics*, 650, L17
- 49. R. Norris et al. ●
Long Term Evolution of Surface Features on the Red Supergiant AZ Cyg, *Astrophysical Journal*, 919, 124
- 50. M. R. Gent et al. ●
The SAPP pipeline for the determination of stellar abundances and atmospheric parameters of stars in the core program of the PLATO mission, *Astrophysical Journal*, 658, A147
- 51. P.-M. Gori et al. ●
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- 52. V. Houdé et al. ●
Mid-infrared circumstellar emission of the long-period Cepheid I Carinae resolved with VLTI/MATISSE, *Astronomy & Astrophysics*, 651, A92
- 53. E. Tognelli et al. ●
Theoretical predictions of surface light element abundances in protostellar and pre-Main Sequence phase, *Front. Astron. Space Sci.*, 8, 22
- 54. Gaia Collaboration ●
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- 55. **A. Chiavassa**, K. Kravchenko, F. Millour, et al. ●
Optical interferometry and Gaia measurement uncertainties reveal the physics of asymptotic giant branch stars, *Astronomy & Astrophysics*, 640, 23
- 56. J. B. Climent, M. Wittkowski, **A. Chiavassa** et al. ●
VLTI-PIONIER imaging of the red supergiant V602 Carinae, *Astronomy & Astrophysics*, 635, 160
- 57. K. Kravchenko, M. Wittkowski, A. Jorissen, **A. Chiavassa** et al. ●
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- 58. V. Houdé et al. ●
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- 59. Gaia Collaboration ●
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- 60. Gaia Collaboration ●
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61. Gaia Collaboration ●
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62. Gaia Collaboration ●
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63. **A. Chiavassa** and M. Brogi ●
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64. K. Kravchenko, **A. Chiavassa**, S. Van Eck et al. ●
Tomography of cool giant and supergiant star atmospheres II. Signature of convection in the atmosphere of the red supergiant star μ Cep, *Astronomy & Astrophysics*, 632, 28
65. E. Flowers, M. Brogi, E. Rauscher, E. Kempton, **A. Chiavassa** ●
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66. X. Haubois et al. ●
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67. Gaia Collaboration ●
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68. **A. Chiavassa**, B. Freytag, M. Shultheis ●
Heading Gaia to measure atmospheric dynamics in AGB stars, *Astronomy & Astrophysics*, 617, L1 (*Press Release*)
69. **A. Chiavassa**, L. Casagrande, R. Collet et al. ●
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70. T. Zwitter, J. Kos, **A. Chiavassa**, et al. ●
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71. M. Wittkowski, G. Rau, **A. Chiavassa**, et al. ●
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72. M. Montarges, R. Norris, **A. Chiavassa** et al. ●
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73. M. Faurobert, M. Carbillet, L. Marquis, **A. Chiavassa**, and G. Ricort ●

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- 74. C. Paladini et al. ●
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- 75. P. Mathias et al. ●
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- 76. I. Karovicova et al. ●
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- 77. N. Nardetto et al. ●
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- 78. F. Millour, D. Mourard, J. Woillez, P. Berio, **A. Chiavassa**, et al. ●
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- 79. Gaia Collaboration ●
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- 80. Gaia Collaboration ●
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- 81. Gaia Collaboration ●
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- 82. Gaia Collaboration ●
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- 83. Gaia Collaboration ●
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- 85. **A. Chiavassa**, F. Selsis, A. Caldas et al. ●
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- 86. **A. Chiavassa**, R. Norris, M. Montarges et al. ●
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87. M. Montarges, **A. Chiavassa**, P. Kervella et al. ●
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88. K. Kravchenko, S. Van Eck, **A. Chiavassa** et al. ●
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89. M. Heida, P.G. Jonker, M.A.P. Torres, **A. Chiavassa** ●
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90. M. Wittkowski, F. J. Abellan, B. Arroyo-Torres, **A. Chiavassa**, et al. ●
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94. M. Wittkowski et al. ●
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101. Z. Magic, **A. Chiavassa**, R. Collet et al. ●
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102. B. Arroyo-Torres, M. Wittkowski, **A. Chiavassa** et al. ●
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111. P. Cruzalèbes et al. ●
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