

Publication list

(*Electronic links available in blue*)

Resume:

Total number of referred publications

124 articles

Articles as 1^{er} author

20 articles

28562 Citations (ADS, 6 January 2025)

H index 49

Conference proceedings

87 articles

Color legend for different topics:

Stars ● - 66 articles, planets ● - 13 articles, instrumental ● - 2 articles, large collaborations ● - 41 articles

Referred publications

2024

1. **A. Chiavassa**, K. Kravchenko, J. Goldberg ●
Signatures of convection in the atmospheres of cool evolved stars, *Living Reviews in Computational Astrophysics*, *Springer Nature*
2. 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*)
3. 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*
4. 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*
5. 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*
6. D. Jadlovsky et al. ●
The Great Dimming of Betelgeuse: the photosphere as revealed by tomography during the past 15 years, *Astronomy & Astrophysics*
7. L. Planquart et al. ●

An impressionist view of V Hydrae. When MATISSE paints Asymmetric Giant Blobs, *Astronomy & Astrophysics*

8. A. Rosales-Guzman et al. et al. ●
A new dimension in the variability of AGB stars: convection patterns size changes with pulsation, *Astronomy & Astrophysics*
 9. Rauer et al. ●
The PLATO Mission, *Experimental Astronomy*
 10. Gaia Collaboration ●
Discovery of a dormant 33 solar-mass black hole in pre-release Gaia astrometry Gaia, *Astronomy & Astrophysics*
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- ## 2023
11. E. Pallé et al. ●
Ground-breaking Exoplanet Science with the ANDES spectrograph at the ELT, *Experimental Astronomy*, submitted
 12. I. Roederer et al. ●
The discovery space of ELT-ANDES. Stars and stellar populations, *Experimental Astronomy*
 13. J. Drevon et al. ●
Images of Betelgeuse with VLTI/MATISSE across the Great Dimming, *MNRAS*, 527, L88
 14. B. Klein et al. ●
ATMOSPHERIX: I- An open source high resolution transmission spectroscopy pipeline for exoplanets atmospheres with SPIRou, *MNRAS*, 527, 544
 15. F. Debras et al. ●
ATMOSPHERIX: II- Characterising exoplanet atmospheres through transmission spectroscopy with SPIRou, *MNRAS*, 527, 566
 16. 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
 17. E. Cannon et al. ●
The dusty circumstellar environment of Betelgeuse during the Great Dimming as seen by VLTI/MATISSE, *Astronomy & Astrophysics*, 675, A46
 18. Gaia Collaboration ●
Gaia Focused Product Release: Asteroid orbital solution. Properties and assessment, *Astronomy & Astrophysics*, 680, A37
 19. Gaia Collaboration ●
Gaia Focused Product Release: Spatial distribution of two diffuse interstellar bands, *Astronomy & Astrophysics*, 680, A38
 20. Gaia Collaboration ●
Gaia Focused Product Release: Radial velocity time series of long-period variables, *Astronomy & Astrophysics*, 680, A36

21. Gaia Collaboration ●
Gaia Focused Product Release: Sources from Service Interface Function image analysis. Half a million new sources in omega Centauri, *Astronomy & Astrophysics*, 680, A35
22. Gaia Collaboration ●
Gaia Focused Product Release: A catalogue of sources around quasars to search for strongly lensed quasars, *Astronomy & Astrophysics*, in press
23. Gaia Collaboration ●
Gaia Data Release 3. The extragalactic content, *Astronomy & Astrophysics*, 674, A41
24. Gaia Collaboration ●
Gaia Data Release 3. Exploring and mapping the diffuse interstellar band at 862 nm, *Astronomy & Astrophysics*, 674, A40
25. Gaia Collaboration ●
Gaia Early Data Release 3. The celestial reference frame (Gaia-CRF3), *Astronomy & Astrophysics*, 667, A148

2022

26. M. C. Maimone, M. Brogi, **A. Chiavassa**, et al. ●
Detecting H₂O with CRRES+: the case of WASP-20b, *Astronomy & Astrophysics*, 667, A106
27. **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*)
28. 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
29. Gaia Collaboration ●
Gaia Data Release 3: Summary of the content and survey, *Astronomy & Astrophysics*, 674, A1
30. Gaia Collaboration ●
Gaia Data Release 3: Reflectance spectra of Solar System small bodies, *Astronomy & Astrophysics*, 674, A35
31. Gaia Collaboration ●
Gaia Data Release 3: Apsis III – Non-stellar content and source classification, *Astronomy & Astrophysics*, 674, A31
32. Gaia Collaboration ●
Gaia Data Release 3: Analysis of the Gaia BP/RP spectra using the General Stellar Parameterizer from Photometry, *Astronomy & Astrophysics*, 674, A27
33. Gaia Collaboration ●
Gaia Data Release 3: Pulsations in main sequence OBAF-type stars, *Astronomy & Astrophysics*, 674, A36
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Gaia Data Release 3: Astrophysical parameters inference system (Apsis) I – methods and content overview, *Astronomy & Astrophysics*, 674, A26

35. Gaia Collaboration ●
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36. Gaia Collaboration ●
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37. Gaia Collaboration ●
Gaia Data Release 3: Stellar chromospheric activity and mass accretion from Ca II IRT observed by the Radial Velocity Spectrometer, *Astronomy & Astrophysics*, 674, A30
38. Gaia Collaboration ●
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39. Gaia Collaboration ●
Gaia Data Release 3: Stellar multiplicity, a teaser for the hidden treasure, *Astronomy & Astrophysics*, 674, A34
40. Gaia Collaboration ●
Gaia Data Release 3: Analysis of RVS spectra using the General Stellar Parametriser from spectroscopy Gaia Collaboration, *Astronomy & Astrophysics*, 674, A29
41. Gaia Collaboration ●
Gaia Data Release 3: Mapping the asymmetric disc of the Milky Way Gaia Collaboration, *Astronomy & Astrophysics*, 674, A29
42. Gaia Collaboration ●
Gaia Data Release 3: Chemical cartography of the Milky Way Gaia Collaboration, *Astronomy & Astrophysics*, 674, A38
43. Gaia Collaboration ●
Gaia Early Data Release 3: The celestial reference frame (Gaia-CRF3), *Astronomy & Astrophysics*, 667, A148

2021

44. **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
45. M. Montargès et al. ●
A dusty veil shading Betelgeuse during its Great Dimming, *Nature*, 594, 7863, 365 (*Press Release*)
46. 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 of Astrobiology*, 20, 300 (*Press Release*)
47. 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
48. R. Norris et al. ●
Long Term Evolution of Surface Features on the Red Supergiant AZ Cyg, *Astrophysical Journal*,

49. 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
50. P.-M. Gori et al. ●
I3T: Intensity Interferometry Imaging Telescope, *MNRAS*, 505, 2328
51. V. Hocdé et al. ●
Mid-infrared circumstellar emission of the long-period Cepheid I Carinae resolved with VLTI/MATISSE, *Astronomy & Astrophysics*, 651, A92
52. E. Tognelli et al. ●
Theoretical predictions of surface light element abundances in protostellar and pre-Main Sequence phase, *Front. Astron. Space Sci.*, 8, 22
53. Gaia Collaboration ●
Gaia Early Data Release 3: The Galactic anticentre, *Astronomy & Astrophysics*, 649, 8

2020

54. **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
55. J. B. Climent, M. Wittkowski, **A. Chiavassa** et al. ●
VLTI-PIONIER imaging of the red supergiant V602 Carinae, *Astronomy & Astrophysics*, 635, 160
56. K. Kravchenko, M. Wittkowski, A. Jorissen, **A. Chiavassa** et al. ●
Tomography of cool giant and supergiant star atmospheres III. Validation of the method on VLTI/AMBER, *Astronomy & Astrophysics*, 642, A235
57. V. Hocdé et al. ●
Pulsating chromosphere of classical Cepheids. Calcium infrared triplet and H α profile variations, *Astronomy & Astrophysics*, 641, A74
58. Gaia Collaboration ●
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59. Gaia Collaboration ●
Gaia Early Data Release 3: Summary of the contents and survey properties, *Astronomy & Astrophysics*, 649, A1 (*Press Release*)
60. Gaia Collaboration ●
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61. Gaia Collaboration ●
Gaia Early Data Release 3: The Gaia Catalogue of Nearby Stars, *Astronomy & Astrophysics*, 649, A6

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62. **A. Chiavassa** and M. Brogi ●
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63. 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
64. E. Flowers, M. Brogi, E. Rauscher, E. Kempton, **A. Chiavassa** ●
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65. X. Haubois et al. ●
The inner dust shell of Betelgeuse detected by polarimetric aperture-masking interferometry, *Astronomy & Astrophysics*, 628, 101
66. Gaia Collaboration ●
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67. **A. Chiavassa**, B. Freytag, M. Shultheis ●
Heading Gaia to measure atmospheric dynamics in AGB stars, *Astronomy & Astrophysics*, 617, L1 (*Press Release*)
68. **A. Chiavassa**, L. Casagrande, R. Collet et al. ●
The Stagger-grid: A grid of 3D stellar atmosphere models VII. Synthetic stellar spectra and broad-band photometry, *Astronomy & Astrophysics*, 611, A11
69. T. Zwitter, J. Kos, **A. Chiavassa**, et al. ●
The GALAH Survey: Accurate Radial Velocities and Library of Observed Stellar Template Spectra, *MNRAS*, 481, p.645.
70. M. Wittkowski, G. Rau, **A. Chiavassa**, et al. ●
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71. M. Montargès, R. Norris, **A. Chiavassa** et al. ●
The convective photosphere of the red supergiant CE Tau. I. VLTI/PIONIER H-band interferometric imaging, *Astronomy & Astrophysics*, 614, A12
72. M. Faurobert, M. Carbillet, L. Marquis, **A. Chiavassa**, and G. Ricort ●
Temperature gradient in the solar photosphere. Test of a new spectroscopic method and study of its feasibility for ground-based telescopes *Astronomy & Astrophysics*, 616, A133
73. C. Paladini et al. ●
Large granulation cells on the surface of the giant star π 1 Gruis, *Nature*, 7688, 310. (*Press Release*)
74. P. Mathias et al. ●

Evolution of the magnetic field of Betelgeuse from 2009 - 2017, *Astronomy & Astrophysics*, 615, A116

75. I. Karovicova et al. ●
Accurate effective temperatures of the metal-poor benchmark stars HD 140283, HD 122563 and HD 103095 from CHARA interferometry, *MNRAS*, 475, L81
76. N. Nardetto et al. ●
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77. F. Millour, D. Mourard, J. Woillez, P. Berio, **A. Chiavassa**, et al. ●
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78. Gaia Collaboration ●
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79. Gaia Collaboration ●
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80. Gaia Collaboration ●
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81. Gaia Collaboration ●
Gaia Data Release 2: The celestial reference frame (Gaia-CRF2) Gaia Collaboration, *Astronomy & Astrophysics*, 616, A14
82. Gaia Collaboration ●
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83. Gaia Collaboration ●
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84. **A. Chiavassa**, F. Selsis, A. Caldas et al. ●
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85. **A. Chiavassa**, R. Norris, M. Montarges et al. ●
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86. M. Montarges, **A. Chiavassa**, P. Kervella et al. ●
The convective surface of the red supergiant Antares. VLTI/PIONIER interferometry in the near infrared, *Astronomy & Astrophysics*, Volume 605, id.A108.
87. K. Kravchenko, S. Van Eck, **A. Chiavassa** et al. ●
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88. M. Heida, P.G. Jonker, M.A.P. Torres, **A. Chiavassa** ●
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89. M. Wittkowski, F. J. Abellan, B. Arroyo-Torres, **A. Chiavassa**, et al. ●
Multi-epoch VLTI-PIONIER imaging of the supergiant V766 Cen: Image of the close companion in front of the primary, *Astronomy & Astrophysics*, Volume 606, id.L1
90. Gaia Collaboration ●
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92. M. Wittkowski, **A. Chiavassa**, B. Freytag et al. ●
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93. M. Wittkowski et al. ●
VLTI/AMBER spectro-interferometry of the late-type supergiants V766 Cen (=HR 5171 A), σ Oph, BM Sco, and HD 206859, *Astronomy & Astrophysics*, Volume 597, id.A9
94. M. Montargès, P. Kervella, G. Perrin, **A. Chiavassa**, et al. ●
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95. Kervella et al. ●
The close circumstellar environment of Betelgeuse - III. SPHERE/ZIMPOL visible polarimetry of the inner envelope and photospheres, *Astronomy & Astrophysics*, Volume 585, id.A28
96. M. Aurière et al. ●
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98. Gaia Collaboration ●
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99. **A. Chiavassa**, C. Pere, M. Faurobert et al. ●
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100. Z. Magic, **A. Chiavassa**, R. Collet et al. ●
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101. B. Arroyo-Torres, M. Wittkowski, **A. Chiavassa** et al. ●
What causes the large extensions of red-supergiant atmospheres? Comparisons of interferometric observations with 1-D hydrostatic, 3-D convection, and 1-D pulsating model atmospheres, *Astronomy & Astrophysics*, Volume 575, id.A50
102. P. Cruzalèbes, A. Jorissen, **A. Chiavassa** et al. ●
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103. O. Creevey et al. ●
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105. M. Montargès et al. ●
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107. R. Ligi et al. ●
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108. P. Kervella et al. ●
An edge-on translucent dust disk around the nearest AGB star, L2 Puppis, *Astronomy & Astrophysics*, Volume 564, A88

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The Stagger-grid: A Grid of 3D Stellar Atmosphere Models - I. Methods and General Properties, *Astronomy & Astrophysics*, Volume 557, A26
110. P. Cruzalèbes et al. ●
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113. **A. Chiavassa**, L. Bigot, P. Kervella et al. ●
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114. O. L. Creevey et al. ●
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117. **A. Chiavassa**, E. Pasquato, A. Jorissen et al. ●
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118. **A. Chiavassa**, L. Bigot, F. Thévenin et al. ●
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119. P. Kervella, G. Perrin, **A. Chiavassa** et al. ●
The close circumstellar environment of Betelgeuse - II. Diffraction-limited spectro-imaging from 7.76 to 19.50 μm with VLT/VISIR, *Astronomy & Astrophysics*, Volume 531, A117 (*Press Release*)

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2005

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