

## Publications in peer-reviewed journals

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- [1] **El Mellah I.**, Sundqvist J. O. & Keppens R.  
*Wind Roche lobe overflow in high mass X-ray binaries :  
A possible mass transfer mechanism for Ultraluminous X-ray sources* - A&A 2019
- [2] Decin L., Homan W., Danilovich T., de Koter A., Engels D., Waters L. B. F. M.,  
Muller S., Gielen C., García-Hernández D. A., Stancliffe R. J., Van de Sande M.,  
Molenberghs G., Kerschbaum F., Zijlstra A. A., **El Mellah I.**  
*Solving the conundrum of the short superwind yields key  
to maximum mass-loss rate of AGB stars* (under reviewing)
- [3] **El Mellah I.**, Sander A. A. C., Sundqvist J. O. & Keppens R.  
*Formation of wind-captured discs in Supergiant X-ray binaries :  
Consequences for Vela X-1 and Cygnus X-1* - A&A 2019
- [4] **El Mellah I.**, Sundqvist J. O. & Keppens R.  
*Accretion from a clumpy massive-star wind in Supergiant X-ray binaries*  
MNRAS 2018
- [5] Xia C., Teunissen J., **El Mellah I.**, Chané E. & Keppens R.  
*MPI-AMRVAC 2.0 for solar and astrophysical applications* - ApJS 2018
- [6] Grinberg V., Hell N., **El Mellah I.**, Neilsen J., Sander A. A. C., Leutenegger M. A.,  
Fürst F., Huenemoerder D. P., Kretschmar P., Kühnel M., Martínez-Núñez S.,  
Niu S., Pottschmidt K., Schulz N. S., Wilms J. & Nowak M. A.  
*The clumpy absorber in the high mass X-ray binary Vela X-1* - A&A 2017
- [7] **El Mellah I.** & Casse F.  
*A numerical investigation of wind accretion in persistent Supergiant X-ray Binaries  
I - Structure of the flow at the orbital scale* - MNRAS 2017
- [8] **El Mellah I.** & Casse F.  
*Numerical simulations of axisymmetric hydrodynamical Bondi-Hoyle accretion  
on to a compact object* - MNRAS 2015
- [9] Sanchis-Ojeda R., Rappaport S., Winn J., Kotson M., Levine A., **El Mellah I.**  
*The shortest-period planets found with Kepler* - ApJ 2014
- [10] Rappaport S., Deck K., Levine A., Borkovits T., Carter J., **El Mellah I.**,  
Sanchis-Ojeda R., Kalomeni B.  
*Triple-star candidates among the Kepler binaries* - ApJ 2013
- [11] Rappaport S., Levine A., Chiang E., **El Mellah I.**, Jenkins J., Kalomeni B., Kite E. S.,  
Kotson M., Nelson L., Rousseau-Nepton L., Tran K.  
*Possible disintegrating short-period super-Mercury orbiting KIC12557548* - ApJ 2012

- [12] **El Mellah I.**, Sundqvist J. O. & Keppens R.  
*Wind-captured discs in Supergiant X-ray binaries* - IAU Vienna 2018
- [13] Fürst F., Kretschmar P., Grinberg V., Pottschmidt Katja, Wilms J., Kühnel M.,  
**El Mellah I.**, Martínez-Núñez S.  
*Variability in High Mass X-ray Binaries* - XMM-Newton workshop 2018
- [14] **El Mellah I.**, Sundqvist J. O. & Keppens R.  
*Clumpy wind accretion in Supergiant X-ray binaries* - SF2A 2017
- [15] **El Mellah I.** & Casse F.  
*Numerical simulations of Bondi-Hoyle accretion onto a compact object* - SF2A 2015