Peer-reviewed publications[1]

[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.**
Reduced mass-loss rate of OH/IR stars due to binary interaction - Nature Astronomy 2019

[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.**
A Study of 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 KIC 12557548 - ApJ 2012

[1]The stars indicate the papers in which I made a major contribution.

Proceedings

[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
Journées de la Société Française d'Astronomie et d'Astrophysique 2017

[15] **El Mellah I.**, Casse F.
Numerical simulations of axisymmetric Bondi-Hoyle accretion onto a compact object
Journées de la Société Française d'Astronomie et d'Astrophysique 2015

Diverse communications

El Mellah I.
Wind accretion onto compact objects
PhD manuscript 2016

El Mellah I.
3D-printed models and Wolfram interactive applet for the Roche potential
2015

1h30 radio interview on scientific communication in Faconde
Brussels 2017