

# PUBLICATIONS

## PUBLICATIONS IN REFEREED JOURNALS:

- **Morel**, St-Louis, & Marchenko 1997, ApJ, 482, 470  
*“Optical spectroscopy of EZ CMa: indication for large-scale structures in a Wolf-Rayet wind”*
- Marchenko, Moffat, Eversberg, Hill, Tovmassian, **Morel**, & Seggewiss 1998, MNRAS, 294, 642  
*“A comprehensive variability study of the enigmatic WN 8 stars: final results”*
- **Morel**, St-Louis, Moffat, Cardona, Koenigsberger, & Hill 1998, ApJ, 498, 413  
*“Coupled line-profile and continuum variations in EZ CMa: implications for the driving mechanism of global wind structures in Wolf-Rayet winds”*
- **Morel**, Marchenko, Eenens, Moffat, Koenigsberger, Antokhin, Eversberg, Tovmassian, Hill, Cardona, & St-Louis 1999, ApJ, 518, 428  
*“A 2.3 day periodic variability in the apparently single Wolf-Rayet star WR 134: collapsed companion or rotational modulation?”*
- **Morel**, Georgiev, Grosdidier, St-Louis, Eversberg, & Hill 1999, A&A, 349, 457  
*“An investigation of the large-scale variability of the apparently single Wolf-Rayet star WR 1”*
- Oliver, et al. 2000, MNRAS, 316, 749  
*“The European Large Area ISO Survey I: Goals, definition and observations”*
- Serjeant, Efsthathiou, Oliver, Surace, Héraudeau, Linden-Vornle, Gruppioni, La Franca, Rigo-poulou, **Morel**, et al. 2001, MNRAS, 322, 262  
*“The European Large Area ISO Survey IV: The preliminary 90  $\mu$ m luminosity function”*
- Morrell, Barbá, Niemela, Corti, Albacete-Colombo, Rauw, Corcoran, **Morel**, Bertrand, Moffat, & St-Louis 2001, MNRAS, 326, 85  
*“Optical spectroscopy of X-ray Mega Targets in the Carina Nebula - II. The massive double-lined O-type binary HD 93205”*
- **Morel**, et al. 2001, MNRAS, 327, 1187  
*“The European Large Area ISO Survey VI: Discovery of a new hyperluminous infrared galaxy”*
- **Morel**, Doyon, & St-Louis 2002, MNRAS, 329, 398  
*“Near-infrared [Fe II] emission from supernova remnants and the supernova rate of starburst galaxies”*
- Väisänen, **Morel**, Rowan-Robinson, Serjeant, Oliver, Sumner, Crockett, Gruppioni, & Tollestrup 2002, MNRAS, 337, 1043  
*“Near and mid-infrared colours of star-forming galaxies in European Large Area ISO Survey fields”*
- Demers, Moffat, Marchenko, Gayley, & **Morel** 2002, ApJ, 577, 409  
*“The quadruple Wolf-Rayet system GP Cep: spectral types, masses, mass-loss rate and colliding winds”*
- **Morel**, Micela, Favata, Katz, & Pillitteri 2003, A&A, 412, 495  
*“The photospheric abundances of active binaries II. Atmospheric parameters and abundance patterns for 6 single-lined RS CVn systems”*

- **Morel**, Marchenko, Pati, Kuppuswamy, Carini, Wood, & Zimmerman 2004, MNRAS, 351, 552  
*“Large-scale wind structures in OB supergiants: a search for rotationally modulated H $\alpha$  variability”*
- Rowan-Robinson, et al. 2004, MNRAS, 351, 1290  
*“The European Large Area ISO Survey VII: The final band-merged catalogue”*
- **Morel** & Micela 2004, A&A, 423, 677  
*“On the determination of oxygen abundances in chromospherically active stars”*
- Marchenko, Moffat, Crowther, Chené, De Serres, Eenens, Hill, Moran, & **Morel** 2004, MNRAS, 353, 153  
*“Hydrogen in the atmosphere of the evolved WN3 Wolf-Rayet star WR3: defying an evolutionary paradigm?”*
- **Morel**, Micela, Favata, & Katz 2004, A&A, 426, 1007  
*“The photospheric abundances of active binaries III. Abundance peculiarities at high activity levels”*
- Héraudeau, et al. 2004, MNRAS, 354, 924  
*“The European Large Area ISO Survey VIII: 90  $\mu$ m final analysis and source counts”*
- **Morel** & Grosdidier 2005, MNRAS, 356, 665  
*“Near-infrared identification of the counterpart to X1908+075: a new OB-supergiant X-ray binary”*
- Affer, Micela, **Morel**, Sanz-Forcada, & Favata 2005, A&A, 433, 647  
*“Spectroscopic determination of photospheric parameters and chemical abundances of 6 K-type stars”*
- **Morel**, Butler, Aerts, Neiner, & Briquet 2006, A&A, 457, 651  
*“Abundance analysis of prime B-type targets for asteroseismology I. Nitrogen excess in slowly-rotating  $\beta$  Cephei stars”*
- Yakut, Aerts, & **Morel** 2007, A&A, 467, 647  
*“The early-type close binary CV Velorum revisited”*
- Howarth, et al. 2007, MNRAS, 381, 433  
*“Towards an understanding of the Of?p star HD 191612: optical spectroscopy”*
- Briquet, **Morel**, et al. 2007, MNRAS, 381, 1482  
*“An asteroseismic study of the  $\beta$  Cephei star  $\theta$  Ophiuchi: constraints on global stellar parameters and core overshooting”*
- **Morel**, Hubrig, & Briquet 2008, A&A, 481, 453  
*“Nitrogen enrichment, boron depletion and magnetic fields in slowly-rotating B-type dwarfs”*
- Affer, Micela, & **Morel** 2008, A&A, 483, 801  
*“The stellar North Ecliptic Pole Survey II. Spectral analysis”*
- **Morel** & Butler 2008, A&A, 487, 307  
*“The neon content of nearby B-type stars and its implications for the solar model problem”*
- Hubrig, Briquet, **Morel**, et al. 2008, A&A, 488, 287  
*“New insights into the nature of the peculiar star  $\theta$  Carinae”*
- Hubrig, Briquet, De Cat, Schöller, **Morel**, & Ilyin 2009, AN, 330, 317  
*“New magnetic field measurements of  $\beta$  Cephei and Slowly Pulsating B stars”*

- Degroote, Briquet, Uytterhoeven, Lefever, **Morel**, & Aerts 2009, A&A, 506, 111  
*“Evidence for nonlinear resonant mode coupling in the  $\beta$  Cephei star HD 180642 (V1449 Aql) from CoRoT space-based photometry”*
- Niemczura, **Morel**, & Aerts 2009, A&A, 506, 213  
*“Abundance analysis of prime B-type targets for asteroseismology II. B6-B9 stars in the field of view of the CoRoT satellite”*
- Briquet, Uytterhoeven, **Morel**, et al. 2009, A&A, 506, 269  
*“Ground-based observations of the  $\beta$  Cephei CoRoT main target HD 180642: abundance analysis and mode identification”*
- Maceroni, et al. 2009, A&A, 508, 1375  
*“HD 174884: a strongly eccentric, short-period early-type binary system discovered by CoRoT”*
- Carrier, et al. 2010, A&A, 509, A73  
*“Non-radial oscillations in the red giant HR 7349 measured by CoRoT”*
- Lefever, Puls, **Morel**, Aerts, Decin, & Briquet 2010, A&A, 515, A74  
*“Spectroscopic determination of the fundamental parameters of 66 B-type stars in the field-of-view of the CoRoT satellite”*
- Mosser, Belkacem, Goupil, Miglio, **Morel**, et al. 2010, A&A, 517, A22  
*“Red-giant seismic properties analyzed with CoRoT”*
- **Morel** 2010, in Bulletin of the Royal Society of Sciences of Liège, 79, 38  
*“Studying bright, massive stars in the era of large telescopes II Wind structures”*
- Nazé, Damerdj, Rauw, Kiminki, Mahy, Kobulnicky, **Morel**, et al. 2010, ApJ, 719, 634  
*“First Orbital Solution for the Non-thermal Emitter Cyg OB2 No. 9”*
- Hekker, Barban, Baudin, De Ridder, Kallinger, **Morel**, Chaplin, & Elsworth, 2010, A&A, 520, A60  
*“Oscillation mode life times of red giants observed during the initial and first anticentre long run of CoRoT”*
- Mahy, Gosset, Baudin, Rauw, De Becker, **Morel**, et al. 2011, A&A, 525, A101  
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- Hubrig, Ilyin, Schöller, Briquet, **Morel**, & De Cat 2011, ApJL, 726, L5  
*“First magnetic field models for recently discovered magnetic  $\beta$  Cephei and slowly pulsating B stars”*
- Pandey, **Morel**, et al. 2011, CoAst, 162, 21  
*“A spectroscopic study of the hybrid pulsator  $\gamma$  Pegasi”*
- Baudin, Barban, Belkacem, Hekker, **Morel**, et al. 2011, A&A, 529, A84  
*“Amplitudes and lifetimes of solar-like oscillations observed by CoRoT — red-giant versus main-sequence stars”*
- Hubrig, et al. 2011, A&A, 531, L20  
*“The strong magnetic field of the large-amplitude beta; Cephei pulsator V1449 Aquilae”*
- Blomme, et al. 2011, A&A, 533, A4  
*“Variability in the CoRoT photometry of three O-type stars - HD 46223, HD 46150 and HD 46966”*

- Fahed, et al. 2011, MNRAS, 418, 2  
*“Spectroscopy of the archetype colliding-wind binary WR 140 during the 2009 January periastron passage”*
- **Morel** & Miglio 2012, MNRAS, 419, L34  
*“Assessing the accuracy of the gravity determination in late-type stars with solar-like pulsators”*
- Baudin, et al. 2012, A&A, 538, A73  
*“Modelling a high-mass red giant observed by CoRoT”*
- Salmon, Montalbán, **Morel**, et al. 2012, MNRAS, 422, 3460  
*“Testing the effect of the opacity and of the chemical mixture on the excitation of pulsations in Magellanic B stars”*
- Pápics, et al. 2012, A&A, 542, A55  
*“Gravito-inertial and pressure modes detected in the B3 IV CoRoT target HD 43317”*
- Degroote, et al. 2012, A&A, 542, A88  
*“The CoRoT B-type binary HD 50230: a prototypical hybrid pulsator with g-mode period and p-mode frequency spacings”*
- Rauw, **Morel**, & Palate 2012, A&A, 546, A77  
*“The nature of the high Galactic latitude O-star HD 93521: new results from X-ray and optical spectroscopy”*
- Briquet, Neiner, Aerts, **Morel**, et al. 2012, MNRAS, 427, 483  
*“Multisite spectroscopic seismic study of the  $\beta$  Cep star V2052 Ophiuchi: inhibition of mixing by its magnetic field”*
- Miglio, Chiappini, **Morel**, et al. 2013, MNRAS, 429, 423  
*“Galactic archaeology: mapping and dating stellar populations with asteroseismology of red-giant stars”*
- Thoul, et al. 2013, A&A, 551, A12  
*“High-precision CoRoT space photometry and fundamental parameter determination of the B2.5 V star HD 48977”*
- **Morel**, et al. 2013, A&A, 552, A42  
*“An abundance study of the solar-analogue, CoRoT targets HD 42618 and HD 43587 from HARPS spectroscopy”*
- Rauw, Nazé, Spano, **Morel**, ud-Doula 2013, A&A, 555, L9  
*“HD 45314: a new  $\gamma$  Cassiopeiae analog among Oe stars”*
- **Morel**, et al. 2014, A&A, 561, A35  
*“A search for pulsations in the HgMn star HD 45975 with CoRoT photometry and ground-based spectroscopy”*
- Boumier, et al. 2014, A&A, 564, A34  
*“Seismic analysis of HD 43587Aa, a solar-like oscillator in a quadruple system”*
- Hubrig, et al. 2014, A&A, 564, L10  
*“B fields in OB stars (BOB): The discovery of a magnetic field in a multiple system in the Trifid nebula, one of the youngest star forming regions”*
- **Morel**, et al. 2014, A&A, 564, A119  
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- Rauer, et al. 2014, *Experimental Astronomy*, 38, 249  
“*The PLATO 2.0 Mission*”
- Smiljanic, et al. 2014, *A&A*, 570, A122  
“*Gaia-ESO Survey: the analysis of high-resolution UVES spectra of FGK-type stars*”
- Tautvaišienė, et al. 2015, *A&A*, 573, A55  
“*The Gaia-ESO Survey: CNO abundances in the open clusters Trumpler 20, NGC 4815, and NGC 6705*”
- Fossati, Castro, **Morel**, et al. 2015, *A&A*, 574, A20  
“*B fields in OB stars (BOB): on the detection of weak magnetic fields in the two early B-type stars  $\beta$  CMa and  $\epsilon$  CMa. Possible lack of a ‘magnetic desert’ in massive stars*”
- Rauw, **Morel**, et al. 2015, *A&A*, 575, A99  
“*Spectroscopic variability of two Oe stars*”
- Chiappini, et al. 2015, *A&A*, 576, L12  
“*Young  $[\alpha/\text{Fe}]$ -enhanced stars discovered by CoRoT and APOGEE: What is their origin?*”
- Hubrig, Schöller, Fossati, **Morel**, et al. 2015, *A&A*, 578, L3  
“*B fields in OB stars (BOB): FORS2 spectropolarimetric follow-up of the two rare rigidly rotating magnetosphere stars HD 23478 and HD 345439*”
- Lagarde, Miglio, Eggenberger, **Morel**, et al. 2015, *A&A*, 580, A141  
“*Models of red giants in the CoRoT asteroseismology fields combining asteroseismic and spectroscopic constraints*”
- Castro, et al. 2015, *A&A*, 581, A81  
“*B fields in OB stars (BOB): detection of a strong magnetic field in the O9.7 V star HD 54879*”
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- Przybilla, et al. 2016, *A&A*, 587, A7  
“*B fields in OB stars (BOB): Detection of a magnetic field in the He-strong star CPD  $-57^\circ$  3509*”
- Smiljanic, et al. 2016, *A&A*, 589, A115  
“*The Gaia-ESO Survey: Sodium and aluminium abundances in giants and dwarfs – Implications for stellar and chemical evolution*”
- Fossati, et al. 2016, *A&A*, 592, A84  
“*Evidence of magnetic field decay in massive main-sequence stars*”
- Delgado, et al. 2016, *MNRAS*, 460, 3305  
“*The Gaia-ESO Survey: pre-main-sequence stars in the young open cluster NGC 3293*”
- Casey, et al. 2016, *MNRAS*, 461, 3336  
“*The Gaia-ESO Survey: revisiting the Li-rich giant problem*”
- Gaia Collaboration 2016, *A&A*, 595, A1  
“*The Gaia mission*”
- Gaia Collaboration 2016, *A&A*, 595, A2  
“*Gaia Data Release 1. Summary of the astrometric, photometric, and survey properties*”

- Castro, et al. 2017, A&A, 597, L6  
*“B fields in OB stars (BOB): The outstandingly strong magnetic field in the evolved He-strong star CPD −62° 2124”*
- Anders, et al. 2017, A&A, 597, A30  
*“Galactic archaeology with asteroseismology and spectroscopy: red giants observed by CoRoT and APOGEE”*
- Pancino, et al. 2017, A&A, 598, A5  
*“The Gaia-ESO Survey: calibration strategy”*
- Schöller, et al. 2017, A&A, 599, A66  
*“B fields in OB stars (BOB): concluding the FORS2 observing campaign”*
- González, et al. 2017, MNRAS, 467, 437  
*“B fields in OB stars (BOB): The magnetic triple stellar system HD 164492C in the Trifid nebula”*
- Gaia Collaboration 2017, A&A, 601, A19  
*“Gaia Data Release 1. Open cluster astrometry: performance, limitations, and future prospects”*
- Cazorla, **Morel**, Nazé, Rauw, Semaan, Daflon, Oey 2017, A&A, 603, A56  
*“Chemical abundances of fast-rotating massive stars I. Description of the methods and individual results”*
- Campante et al. 2017, MNRAS, 469, 1360  
*“Weighing in on the masses of retired A stars with asteroseismology. K2 observations of the exoplanet-host star HD 212771”*
- Cazorla, Nazé, **Morel**, Georgy, Godart, Langer 2017, A&A, 604, A123  
*“Chemical abundances of fast-rotating massive stars II. Interpretation and comparison with evolutionary models”*
- Gaia Collaboration 2017, A&A, 605, A79  
*“Gaia Data Release 1. Testing the parallaxes with local Cepheids and RR Lyrae stars”*
- Miglio et al. 2017, AN, 338, 644  
*“PLATO as it is: a legacy mission for Galactic archaeology”*
- **Morel**, 2018, A&A, 615, A172  
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- Gaia Collaboration 2018, A&A, 616, A1  
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- Gaia Collaboration 2018, A&A, 616, A14  
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- Smiljanic et al. 2018, A&A, 617, A4  
“*The Gaia-ESO Survey: properties of newly discovered Li-rich giants*”
- Katz et al. 2019, A&A, A&A, 622, A205  
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- Gaia Collaboration 2019, A&A, 623, A110  
“*Gaia Data Release 2. Variable stars in the colour-absolute magnitude diagram*”
- Moździerski et al. 2019, A&A, 632, A95  
“*Ensemble asteroseismology of pulsating B-type stars in NGC 6910*”
- Chaplin, Serenelli, Miglio, **Morel** et al. 2020, Nature Astronomy, 4, 382  
“*Age dating of an early Milky Way merger via asteroseismology of the naked-eye star  $\nu$  Indi*”
- Wang, **Morel**, Quanz, Mojzsis et al. 2020, A&A, 644, A19  
“*Europium as a lodestar: diagnosis of radiogenic heat production in terrestrial exoplanets - spectroscopic determination of Eu abundances in  $\alpha$  Centauri AB*”
- **Morel** et al. 2021, A&A, 646, A78  
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- Gaia Collaboration 2021, A&A, 649, A1  
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- Castro et al. 2021, MNRAS, 505, 2151  
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- Gent et al. 2022, A&A, 658, A147  
“*The SAPP pipeline for the determination of stellar abundances and atmospheric parameters of stars in the core program of the PLATO mission*”
- Wang et al. 2022, ApJ, 927, 134  
“*A Model Earth-sized Planet in the Habitable Zone of Centauri A/B*”
- Acuña, Lopez, **Morel** et al. 2022, A&A, 660, A102  
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- Blomme et al. 2022, A&A, 661, A120  
“*The Gaia-ESO Survey: The analysis of the hot-star spectra*”

- **Morel** et al. 2022, A&A, 665, A108  
*“The Gaia-ESO survey: A spectroscopic study of the young open cluster NGC 3293”*
- Gilmore et al. 2022, A&A, 666, A120  
*“The Gaia-ESO Public Spectroscopic Survey: Motivation, implementation, GIRAFFE data processing, analysis, and final data products”*
- Randich et al. 2022, A&A, 666, A121  
*“The Gaia-ESO Public Spectroscopic Survey: Implementation, data products, open cluster survey, science, and legacy”*
- Boulkaboul, Damerdj, **Morel**, et al. 2022, MNRAS, 517, 1849  
*“Analysis of Gaia radial-velocity standards: stability and new substellar companion candidates”*
- Morello et al. 2022, RNAAS, 6, 248  
*“First Release of PLATO Consortium Stellar Limb-darkening Coefficients”*
- Gaia Collaboration 2022, A&A, 667, A148  
*“Gaia Early Data Release 3: The celestial reference frame (Gaia-CRF3)”*
- Gaia Collaboration 2023, A&A, 674, A1  
*“Gaia Data Release 3: Summary of the content and survey properties”*
- Gaia Collaboration 2023, A&A, 616, A33  
*“Gaia Data Release 3: The Galaxy in your preferred colours: Synthetic photometry from Gaia low-resolution spectra”*
- Gaia Collaboration 2023, A&A, 674, A34  
*“Gaia Data Release 3: Stellar multiplicity, a teaser for the hidden treasure”*
- Gaia Collaboration 2023, A&A, 674, A35  
*“Gaia Data Release 3: Reflectance spectra of Solar System small bodies”*
- Gaia Collaboration 2023, A&A, 674, A36  
*“Gaia Data Release 3: Pulsations in main sequence OBAF-type stars”*
- Gaia Collaboration 2023, A&A, 616, A37  
*“Gaia Data Release 3: Mapping the asymmetric disc of the Milky Way”*
- Gaia Collaboration 2023, A&A, 674, A38  
*“Gaia Data Release 3: Chemical cartography of the Milky Way”*
- Gaia Collaboration 2023, A&A, 674, A39  
*“Gaia Data Release 3: A Golden Sample of Astrophysical Parameters”*
- Gaia Collaboration 2023, A&A, 674, A40  
*“Gaia Data Release 3: Exploring and mapping the diffuse interstellar band at 862 nm”*
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- Hourihane et al. 2023, A&A, 676, A129  
*“The Gaia-ESO Survey: Homogenisation of stellar parameters and elemental abundances”*
- Coelho, Miglio, **Morel**, et al. 2023, MNRAS, in press  
*“Seismic and spectroscopic analysis of 9 bright red giants observed by Kepler”*

## PUBLICATIONS IN CONFERENCE PROCEEDINGS (WITH AND WITHOUT PEER REVIEW):

- **Morel**, St-Louis, & Marchenko 1996, in 33rd Liège International Astrophysical Colloquium: “WR Stars in the Framework of Stellar Evolution”, 271  
*“The photosphere-wind connection in Wolf-Rayet stars: simultaneous photometry and spectroscopy of EZ CMa”*
- Marchenko, Moffat, Eversberg, Hill, Tovmassian, **Morel**, Antokhin, & Seggewiss 1996, in 33rd Liège International Astrophysical Colloquium: “WR Stars in the framework of stellar evolution”, 265  
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- **Morel**, Marchenko, Eenens, Moffat, Koenigsberger, Eversberg, Tovmassian, Hill, Cardona, & St-Louis 1998, in “Cyclical Variability in Stellar Winds”, ESO Astrophysics Symposia, 109  
*“Confirmation of a 2.3 day periodicity in the Wolf-Rayet star WR 134: a twin of EZ CMa?”*
- **Morel**, Marchenko, Eenens, Moffat, Koenigsberger, Antokhin, Eversberg, Tovmassian, Hill, Cardona, & St-Louis 1999, Ap&SS, 260, 173  
*“Cyclical spectral and photometric variations of the apparently single Wolf-Rayet star WR 134”*
- St-Louis, Gervais, **Morel**, & Doyon 1999, in Proc. IAU Symp. 193: “Wolf-Rayet Phenomena in Massive Stars and Starburst Galaxies”, ASP Conf. Series, 193, 392  
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*“Large-scale wind structures in OB supergiants: a search for rotationally modulated H $\alpha$  variability”*
- **Morel**, Micela, Favata, Katz, & Pillitteri 2003, in Proc. IAU Symp. 219: “Stars as suns: activity, evolution, and planets”, ASP Conf. Series, 146  
*“The photospheric abundances of active binaries: first results”*
- **Morel**, Marchenko, Pati, Kuppuswamy, Carini, Wood, & Zimmerman 2005, in Proc. IAU Symp. 215: “Stellar Rotation”, ASP Conf. Series, 45  
*“A search for rotationally-modulated H $\alpha$  variability in OB supergiants”*
- **Morel**, Micela, & Favata 2005, in “Cool Stars, Stellar Systems and the Sun – 13th Cambridge workshop”, SP-560, 829  
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- Affer, Micela, **Morel**, Sanz-Forcada, & Favata 2005, in "Chemical Abundances and Mixing in Stars in the Milky Way and its Satellites", ESO Astrophysics Symposia, 31  
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- **Morel**, Micela, & Favata 2005, Ap&SS, 304, 185  
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- **Morel** & Grosdidier 2005, Ap&SS, 304, 295  
*"X1908+075: a late O-type supergiant with a neutron star companion"*
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