

Refereed publications Selma E de Mink

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Publications Statistics

Total number of citations	2737
Total number of papers	103
Total number of refereed papers	58
Number of papers with more than 100 citations	7
Number of papers with more than 50 citations	16
Number of papers with more than 10 citations	43
Hirsch factor	26

Refereed Publications

2016 (13 refereed publications)

- (58) Bastian, Cabrera-Ziri, Niederhofer, **De Mink**, Georgy et al. and 4 further coauthors (2016), “A high fraction of Be stars in young massive clusters: evidence for a large population of near-critically rotating stars”, eprint arXiv:1611.06705, accepted for publication
- (57) Shenar, Richardson, Sablowski, Hainich, Sana et al. and 17 further coauthors incl. **De Mink** (2016), “The Tarantula Massive Binary Monitoring project: II. A first SB2 orbital and spectroscopic analysis for the Wolf-Rayet binary R145”, eprint arXiv:1610.07614, accepted for publication (1 citation)
- (56) Almeida, Sana, Taylor, Barbá, Bonanos et al. and 22 further coauthors incl. **De Mink** (2016), “The Tarantula Massive Binary Monitoring: I. Observational campaign and OB-type spectroscopic binaries”, eprint arXiv:1610.03500, accepted for publication
- (55) Grin, Ramirez-Agudelo, de Koter, Sana, Puls et al. and 17 further coauthors incl. **De Mink** (2016), “The VLT-FLAMES Tarantula Survey XXV. Surface nitrogen abundances of O-type giants and supergiants”, eprint arXiv:1609.00197, accepted for publication
- (54) **De Mink** & Mandel (2016), “The chemically homogeneous evolutionary channel for binary black hole mergers: rates and properties of gravitational-wave events detectable by advanced LIGO”, Monthly Notices of the Royal Astronomical Society, Volume 460, Issue 4, p.3545-3553, (17 citations)
- (53) Maccarone & **De Mink** (2016), “Large proper motion of the Thorne-Zytkow object candidate HV 2112 reveals its likely nature as foreground Galactic S-star”, Monthly Notices of the Royal Astronomical Society: Letters, Volume 458, Issue 1, p.L1-L5, (3 citations)
- (52) Mandel & **De Mink** (2016), “Merging binary black holes formed through chemically homogeneous evolution in short-period stellar binaries”, Monthly Notices of the Royal Astronomical Society, Volume 458, Issue 3, p.2634-2647, (41 citations)
- (51) Crowther, Caballero-Nieves, Bostroem, Maíz Apellániz, Schneider et al. and 15 further coauthors incl. **De Mink** (2016), “The R136 star cluster dissected with Hubble Space Telescope/STIS. I. Far-ultraviolet spectroscopic census and the origin of He II λ 1640 in young star clusters”, Monthly Notices of the Royal Astronomical Society, Volume 458, Issue 1, p.624-659, (6 citations)

- (50) Wofford, Charlot, Bruzual, Eldridge, Calzetti et al. and 11 further coauthors incl. **De Mink** (2016), “A comprehensive comparative test of seven widely used spectral synthesis models against multi-band photometry of young massive-star clusters”, *Monthly Notices of the Royal Astronomical Society*, Volume 457, Issue 4, p.4296-4322, (11 citations)
- (49) Van Dyk, **De Mink**, Zapartas (2016), “Constraints on the Binary Companion to the SN Ic 1994I Progenitor”, *The Astrophysical Journal*, Volume 818, Issue 1, article id. 75, 9 pp. (2016)., (3 citations)
- (48) Niederhofer, Bastian, Kozhurina-Platais, Hilker, **De Mink** et al. and 3 further coauthors (2016), “Controversial age spreads from the main sequence turn-off and red clump in intermediate-age clusters in the LMC”, *Astronomy & Astrophysics*, Volume 586, id.A148, 16 pp., (11 citations)
- (47) Margutti, Kamble, Milisavljevic, De Mink, Zapartas et al. and 17 further coauthors incl. **De Mink** (2016), “Ejection of the massive Hydrogen-rich envelope timed with the collapse of the stripped SN2014C”, eprint arXiv:1601.06806, accepted for publication (5 citations)
- (46) Sabbi, Lennon, Anderson, Cignoni, van der Marel et al. and 19 further coauthors incl. **De Mink** (2016), “Hubble Tarantula Treasury Project. III. Photometric Catalog and Resulting Constraints on the Progression of Star Formation in the 30 Doradus Region”, *The Astrophysical Journal Supplement Series*, Volume 222, Issue 1, article id. 11, 25 pp. (2016)., (3 citations)

2015 (17 refereed publications)

- (45) **De Mink** & Belczynski (2015), “Merger Rates of Double Neutron Stars and Stellar Origin Black Holes: The Impact of Initial Conditions on Binary Evolution Predictions”, *The Astrophysical Journal*, Volume 814, Issue 1, article id. 58, 13 pp. (2015)., (20 citations)
- (44) Almeida, Sana, **De Mink**, Trammer, Soszyński et al. and 13 further coauthors (2015), “Discovery of the Massive Overcontact Binary VFTS352: Evidence for Enhanced Internal Mixing”, *The Astrophysical Journal*, Volume 812, Issue 2, article id. 102, 9 pp. (2015)., (8 citations)
- (43) Calzetti, Johnson, Adamo, Gallagher, J. S., Andrews et al. and 41 further coauthors incl. **De Mink** (2015), “The Brightest Young Star Clusters in NGC 5253.”, *The Astrophysical Journal*, Volume 811, Issue 2, article id. 75, 26 pp. (2015)., (7 citations)
- (42) Grudzinska, Belczynski, Casares, **De Mink**, Ziolkowski et al. and 6 further coauthors (2015), “On the formation and evolution of the first Be star in a black hole binary MWC 656”, *Monthly Notices of the Royal Astronomical Society*, Volume 452, Issue 3, p.2773-2787, (6 citations)
- (41) Zeidler, Sabbi, Nota, Grebel, Tosi et al. and 5 further coauthors incl. **De Mink** (2015), “A High-resolution Multiband Survey of Westerlund 2 with the Hubble Space Telescope. I. Is the Massive Star Cluster Double?”, *The Astronomical Journal*, Volume 150, Issue 3, article id. 78, 23 pp. (2015)., (3 citations)
- (40) Trammer, Straal, Sanyal, Sana, de Koter et al. and 5 further coauthors incl. **De Mink** (2015), “Massive stars on the verge of exploding: the properties of oxygen sequence Wolf-Rayet stars”, *Astronomy & Astrophysics*, Volume 581, id.A110, 16 pp., (9 citations)
- (39) Szécsi, Langer, Yoon, Sanyal, **De Mink** et al. and 2 further coauthors (2015), “Low-metallicity massive single stars with rotation. Evolutionary models applicable to I Zwicky 18”, *Astronomy & Astrophysics*, Volume 581, id.A15, 35 pp., (21 citations)

- (38) Dunstall, Dufton, Sana, Evans, Howarth et al. and 5 further coauthors incl. **De Mink** (2015), “[The VLT-FLAMES Tarantula Survey. XXII. Multiplicity properties of the B-type stars](#)”, *Astronomy & Astrophysics*, Volume 580, id.A93, 10 pp., (11 citations)
- (37) Ramírez-Agudelo, Sana, **De Mink**, Hénault-Brunet, de Koter et al. and 7 further coauthors (2015), “[The VLT-FLAMES Tarantula Survey. XXI. Stellar spin rates of O-type spectroscopic binaries](#)”, *Astronomy & Astrophysics*, Volume 580, id.A92, 17 pp., (10 citations)
- (36) Correnti, Goudfrooij, Puzia, **De Mink** (2015), “[New constraints on the star formation history of the star cluster NGC 1856](#)”, *Monthly Notices of the Royal Astronomical Society*, Volume 450, Issue 3, p.3054-3068, (14 citations)
- (35) Clark, Bartlett, Broos, Townsley, Taylor et al. and 10 further coauthors incl. **De Mink** (2015), “[The VLT-FLAMES Tarantula survey. XX. The nature of the X-ray bright emission-line star VFTS 399](#)”, *Astronomy & Astrophysics*, Volume 579, id.A131, 12 pp., (3 citations)
- (34) Van Dyk, Lee, Anderson, Andrews, Calzetti et al. and 7 further coauthors incl. **De Mink** (2015), “[LEGUS Discovery of a Light Echo Around Supernova 2012aw](#)”, *The Astrophysical Journal*, Volume 806, Issue 2, article id. 195, 9 pp. (2015)., (3 citations)
- (33) Schneider, Izzard, Langer, **De Mink** (2015), “[Evolution of Mass Functions of Coeval Stars through Wind Mass Loss and Binary Interactions](#)”, *The Astrophysical Journal*, Volume 805, Issue 1, article id. 20, 20 pp. (2015)., (8 citations)
- (32) McEvoy, Dufton, Evans, Kalari, Markova et al. and 17 further coauthors incl. **De Mink** (2015), “[The VLT-FLAMES Tarantula Survey. XIX. B-type supergiants: Atmospheric parameters and nitrogen abundances to investigate the role of binarity and the width of the main sequence](#)”, *Astronomy & Astrophysics*, Volume 575, id.A70, 20 pp., (14 citations)
- (31) Calzetti, Lee, Sabbi, Adamo, Smith et al. and 43 further coauthors incl. **De Mink** (2015), “[Legacy Extragalactic UV Survey \(LEGUS\) With the Hubble Space Telescope. I. Survey Description](#)”, *The Astronomical Journal*, Volume 149, Issue 2, article id. 51, 25 pp. (2015)., (23 citations)
- (30) Evans, Kennedy, Dufton, Howarth, Walborn et al. and 12 further coauthors incl. **De Mink** (2015), “[The VLT-FLAMES Tarantula Survey. XVIII. Classifications and radial velocities of the B-type stars](#)”, *Astronomy & Astrophysics*, Volume 574, id.A13, 40 pp., (9 citations)
- (29) Köhler, Langer, de Koter, **De Mink**, Crowther et al. and 6 further coauthors (2015), “[The evolution of rotating very massive stars with LMC composition](#)”, *Astronomy & Astrophysics*, Volume 573, id.A71, 23 pp., (32 citations)

2014 (2 refereed publications)

- (28) **De Mink**, Sana, Langer, Izzard, Schneider (2014), “[The Incidence of Stellar Mergers and Mass Gainers among Massive Stars](#)”, *The Astrophysical Journal*, Volume 782, Issue 1, article id. 7, 8 pp. (2014)., (72 citations)
- (27) Schneider, Izzard, **De Mink**, Langer, Stolte et al. and 5 further coauthors (2014), “[Ages of Young Star Clusters, Massive Blue Stragglers, and the Upper Mass Limit of Stars: Analyzing Age-dependent Stellar Mass Functions](#)”, *The Astrophysical Journal*, Volume 780, Issue 2, article id. 117, 16 pp. (2014)., (52 citations)

2013 (9 refereed publications)

- (26) Bastian, Lamers, **De Mink**, Longmore, Goodwin et al. and 1 further coauthors (2013), “Early disc accretion as the origin of abundance anomalies in globular clusters”, *Monthly Notices of the Royal Astronomical Society*, Volume 436, Issue 3, p.2398-2411, (114 citations)
- (25) Ramírez-Agudelo, Simón-Díaz, Sana, de Koter, Sabín-Sanjulían et al. and 13 further coauthors incl. **De Mink** (2013), “The VLT-FLAMES Tarantula Survey. XII. Rotational velocities of the single O-type stars”, *Astronomy & Astrophysics*, Volume 560, id.A29, 16 pp., (60 citations)
- (24) Tramper, Gräfener, Hartoog, Sana, de Koter et al. and 6 further coauthors incl. **De Mink** (2013), “On the nature of WO stars: a quantitative analysis of the WO3 star DR1 in IC 1613”, *Astronomy & Astrophysics*, Volume 559, id.A72, 12 pp., (11 citations)
- (23) Sabbi, Anderson, Lennon, van der Marel, Aloisi et al. and 16 further coauthors incl. **De Mink** (2013), “Hubble Tarantula Treasury Project: Unraveling Tarantula’s Web. I. Observational Overview and First Results”, *The Astronomical Journal*, Volume 146, Issue 3, article id. 53, 14 pp. (2013)., (20 citations)
- (22) Abate, Pols, Izzard, Mohamed, **De Mink** (2013), “Wind Roche-lobe overflow: Application to carbon-enhanced metal-poor stars”, *Astronomy & Astrophysics*, Volume 552, id.A26, 12 pp., (45 citations)
- (21) **De Mink**, Langer, Izzard, Sana, de Koter (2013), “The Rotation Rates of Massive Stars: The Role of Binary Interaction through Tides, Mass Transfer, and Mergers”, *The Astrophysical Journal*, Volume 764, Issue 2, article id. 166, 17 pp. (2013)., (120 citations)
- (20) Dufton, Langer, Dunstall, Evans, Brott et al. and 10 further coauthors incl. **De Mink** (2013), “The VLT-FLAMES Tarantula Survey. X. Evidence for a bimodal distribution of rotational velocities for the single early B-type stars”, *Astronomy & Astrophysics*, Volume 550, id.A109, 12 pp., (34 citations)
- (19) Sana, de Koter, **De Mink**, Dunstall, Evans et al. and 12 further coauthors (2013), “The VLT-FLAMES Tarantula Survey. VIII. Multiplicity properties of the O-type star population”, *Astronomy & Astrophysics*, Volume 550, id.A107, 22 pp., (120 citations)
- (18) Grunhut, Wade, Leutenegger, Petit, Rauw et al. and 11 further coauthors incl. **De Mink** (2013), “Discovery of a magnetic field in the rapidly rotating O-type secondary of the colliding-wind binary HD 47129 (Plaskett’s star)”, *Monthly Notices of the Royal Astronomical Society*, Volume 428, Issue 2, p.1686-1695, (31 citations)

2012 (3 refereed publications)

- (17) Sabbi, Lennon, Gieles, **De Mink**, Walborn et al. and 5 further coauthors (2012), “A Double Cluster at the Core of 30 Doradus”, *The Astrophysical Journal Letters*, Volume 754, Issue 2, article id. L37, 6 pp. (2012)., (33 citations)
- (16) Sana, **De Mink**, de Koter, Langer, Evans et al. and 5 further coauthors (2012), “Binary Interaction Dominates the Evolution of Massive Stars”, *Science*, Volume 337, Issue 6093, pp. 444- (2012)., (348 citations)
- (15) Platais, Melo, Quinn, Clem, **De Mink** et al. and 4 further coauthors (2012), “The Effects of Differential Reddening and Stellar Rotation on the Appearance of Multiple Populations in Star Clusters: The Case of Trumpler 20”, *The Astrophysical Journal Letters*, Volume 751, Issue 1, article id. L8, 6 pp. (2012)., (21 citations)

2011 (7 refereed publications)

- (14) Dufton, Dunstall, Evans, Brott, Cantiello et al. and 10 further coauthors incl. **De Mink** (2011), “[The VLT-FLAMES Tarantula Survey: The Fastest Rotating O-type Star and Shortest Period LMC Pulsar—Remnants of a Supernova Disrupted Binary?](#)”, *The Astrophysical Journal Letters*, Volume 743, Issue 1, article id. L22, 6 pp. (2011)., (31 citations)
- (13) Larsen, **De Mink**, Eldridge, Langer, Bastian et al. and 4 further coauthors (2011), “[Resolved photometry of extragalactic young massive star clusters](#)”, *Astronomy & Astrophysics*, Volume 532, id.A147, 16 pp., (40 citations)
- (12) Taylor, Evans, Sana, Walborn, **De Mink** et al. and 20 further coauthors (2011), “[The VLT-FLAMES Tarantula Survey. II. R139 revealed as a massive binary system](#)”, *Astronomy & Astrophysics*, Volume 530, id.L10, 5 pp., (25 citations)
- (11) Brott, Evans, Hunter, de Koter, Langer et al. and 7 further coauthors incl. **De Mink** (2011), “[Rotating massive main-sequence stars. II. Simulating a population of LMC early B-type stars as a test of rotational mixing](#)”, *Astronomy & Astrophysics*, Volume 530, id.A116, 17 pp., (94 citations)
- (10) Brott, **De Mink**, Cantiello, Langer, de Koter et al. and 4 further coauthors (2011), “[Rotating massive main-sequence stars. I. Grids of evolutionary models and isochrones](#)”, *Astronomy & Astrophysics*, Volume 530, id.A115, 20 pp., (270 citations)
- (9) Evans, Taylor, Hénault-Brunet, Sana, de Koter et al. and 37 further coauthors incl. **De Mink** (2011), “[The VLT-FLAMES Tarantula Survey. I. Introduction and observational overview](#)”, *Astronomy & Astrophysics*, Volume 530, id.A108, 53 pp., (135 citations)
- (8) Claeys, **De Mink**, Pols, Eldridge, Baes (2011), “[Binary progenitor models of type IIb supernovae](#)”, *Astronomy & Astrophysics*, Volume 528, id.A131, 17 pp., (41 citations)

2009 (5 refereed publications)

- (7) **De Mink**, Pols, Langer, Izzard (2009), “[Massive binaries as the source of abundance anomalies in globular clusters](#)”, *Astronomy and Astrophysics*, Volume 507, Issue 1, 2009, pp.L1-L4, (198 citations)
- (6) Lugaro, Campbell, **De Mink** (2009), “[The Mystery of CEMPs+r Stars and the Dual Core-Flash Neutron Superburst](#)”, *Publications of the Astronomical Society of Australia*, Volume 26, Issue 3, pp. 322-326., (15 citations)
- (5) Bastian & **De Mink** (2009), “[The effect of stellar rotation on colour-magnitude diagrams: on the apparent presence of multiple populations in intermediate age stellar clusters](#)”, *Monthly Notices of the Royal Astronomical Society: Letters*, Volume 398, Issue 1, pp. L11-L15., (78 citations)
- (4) Glebbeek, Gaburov, **De Mink**, Pols, Portegies Zwart (2009), “[The evolution of runaway stellar collision products](#)”, *Astronomy and Astrophysics*, Volume 497, Issue 1, 2009, pp.255-264, (79 citations)
- (3) **De Mink**, Cantiello, Langer, Pols, Brott et al. and 1 further coauthors (2009), “[Rotational mixing in massive binaries. Detached short-period systems](#)”, *Astronomy and Astrophysics*, Volume 497, Issue 1, 2009, pp.243-253, (93 citations)

2008 (1 refereed publication)

- (2) Lugaro, **De Mink**, Izzard, Campbell, Karakas et al. and 6 further coauthors (2008), "[Fluorine in carbon-enhanced metal-poor stars: a binary scenario](#)", *Astronomy and Astrophysics*, Volume 484, Issue 3, 2008, pp.L27-L30, (27 citations)

2007 (1 refereed publication)

- (1) **De Mink**, Pols, Hilditch (2007), "[Efficiency of mass transfer in massive close binaries. Tests from double-lined eclipsing binaries in the SMC](#)", *Astronomy and Astrophysics*, Volume 467, Issue 3, June I 2007, pp.1181-1196, (55 citations)