

List of scientific publications – Jorick Sandor Vink

June 17, 2011

Refereed Journal articles:

1. The VLT-FLAMES Tarantula Survey. III. A very massive star in apparent isolation from the massive cluster R136
Bestenlehner, J.M., **Vink, J.S.**, Gräfener, G., et al.
2011, A&A 530, 14
2. The VLT-FLAMES Tarantula Survey. I. Introduction and observational overview
Evans, C.J., Taylor, W.D., Henault-Brunet, V., et al. (incl. **Vink, J.S.**)
2011, A&A 530, 108
3. T Tauri candidates and accretion rates using IPHAS: method and application to IC 1396
Barentsen, G., **Vink, J.S.**, Drew, J.E., et al.
2011, MNRAS 719
4. Predictions of the effect of clumping on the wind properties of O-type stars
Muijres, L.E., de Koter, A., **Vink, J.S.**, et al.
2011, A&A 526, 32
5. On the Maximum Mass of Stellar Black Holes
Belczynski, K., et al., (6 co-authors incl. **Vink, J.S.**)
2010, ApJ 714, 1217
6. The masses, and the mass discrepancy of O-type stars
Weidner, C., **Vink, J.S.**
2010, A&A 524, 98
7. The Massive Star-Forming Region Cygnus OB2. II. Integrated Stellar Properties and the Star Formation History
Wright, N.J., Drake, J.J., Drew, J.E., **Vink, J.S.**
2010, ApJ 713, 871
8. The nature of V39: an LBV candidate or LBV impostor in the very low metallicity galaxy IC 1613?
Herrero, A., Garcia, M., Uytterhoeven, K., Najarro, F., Lennon, D., **Vink, J.S.**, Castro, N.
2010, A&A 513, 70
9. The nature of B supergiants: clues from a steep drop in rotation rates at 22 000 K. The possibility of Bi-stability braking
Vink, J.S., Brott, I., Gräfener, G., Langer, N., de Koter, A., Lennon, D.J.
2010, A&A 512, 7
10. IPHAS and the symbiotic stars. II. New discoveries and a sample of the most common mimics
Corradi, R.L.M., Valentini, M., Munari, U., et al. (21 co-authors incl. **Vink, J.S.**)
2010, A&A 509A, 41

11. On the presence and absence of disks around O-type stars
Vink, J.S., Davies, B., Harries, T.J., Oudmaijer, R.D., Walborn, N.R.
2009, A&A 505, 743
12. Using population synthesis of massive stars to study the ISM near OB associations
Voss, R., Diehl, R., Hartmann, D.H., Cervino, M., **Vink, J.S.**, et al.
2009, A&A 504, 531
13. Sub-surface convection zones in hot massive stars and their observable consequences
Cantiello, M., Langer, N., Brott, I., de Koter, A., Shore, S.N., **Vink, J.S.**, et al.
2009, A&A 499, 279
14. An IPHAS-based search for accreting very low-mass objects using VO tools
Valdivielso, L. et al. (8 co-authors incl. **Vink, J.S.**)
2009, A&A 497, 973
15. A consistent solution for the velocity field and mass-loss rate of massive stars
Müller, P.E., & **Vink, J.S.**
2008, A&A 492, 493
16. Initial data release from the INT Photometric H Survey of the Northern Galactic Plane (IPHAS)
Gonzalez-Solares, E.A., et al., incl. **Vink, J.S.**
2008, MNRAS 388, 89
17. IPHAS discoveries of young stars towards Cyg OB2 and its southern periphery
Vink, J.S., Drew, J.E., Steeghs, et al.
2008, MNRAS 387, 308
18. SN 2005 gj: evidence for LBV supernovae progenitors?
Trundle, C., Kotak, R., **Vink, J.S.**, Meikle, W.P.S.
2008, A&A 483L, 47
19. Spectropolarimetry of the massive post-red supergiants IRC +10420 and HD 179821
Patel, M., Oudmaijer, R.D., **Vink, J.S.**, Bjorkman, J.E., Davies, B., Groenewegen, M.A.T., Miroshnichenko, A.S., Mottram, J.C. 2008, MNRAS 385, 967
20. On the evolution and fate of super-massive stars
Yungelson, L. R., van den Heuvel, E.P.J., **Vink, J.S.**, Portegies Zwart, S.F., de Koter, A.
2008, A&A 477, 223
21. Pair creation supernovae at low and high redshift
Langer, N., Norman, C.A., de Koter, A., **Vink, J.S.**, Cantiello, M., Yoon, S.-C.
2007, A&A 475L, 19
22. The empirical metallicity dependence of the mass-loss rate of O- and early B-type stars
Mokiem, M.R., de Koter, A., **Vink, J.S.**, et al.
2007, A&A 473, 603
23. Modelling the clumping-induced polarimetric variability of hot star winds
Davies, B., **Vink, J.S.**, Oudmaijer, R.D.
2007, A&A 469, 1045

24. Constraining GRB progenitor models by probing Wolf-Rayet wind geometries in the Large Magellanic Cloud
Vink, J.S.
2007, A&A 469, 707
25. Testing the predicted mass-loss bi-stability jump at radio wavelengths
Benaglia, P., **Vink, J.S.**, Marti, J., Maiz Apellaniz, J., Koribalski, B., Crowther, P.A.
2007, A&A 467, 1265
26. On the difference between Herbig Ae and Herbig Be stars
Mottram, J.C., **Vink, J.S.**, Oudmaijer R.D., Patel M.
2007, MNRAS 377, 1363
27. The VLT-FLAMES Survey of massive stars: analyses of early type stars in the LMC
Mokiem, M.R., and 11 co-authors, incl. **Vink, J.S.**
2007, A&A 465, 1003
28. Luminous Blue Variables as the progenitors of supernovae with quasi-periodic radio modulations
Kotak, R., **Vink, J.S.**
2006, A&A 460L, 5
29. A polarimetric study of the B[e] star HD 45677
Patel, M., Oudmaijer, R.D., **Vink, J.S.**, Mottram, J.C., Davies, B.
2006, MNRAS 373, 1641
30. Implications of the metallicity dependence of Wolf-Rayet winds
Eldridge, J.J., **Vink, J.S.**
2006, A&A 452, 295
31. On the metallicity dependence of Wolf-Rayet winds
Vink, J.S., de Koter, A.
2005, A&A 442, 587
32. Asphericity and clumpiness in the winds of Luminous Blue Variables
Davies, B., Oudmaijer, R.D., **Vink, J.S.**
2005, A&A 439, 1107
33. On the origin of the X-ray emission towards the early Herbig Be star MWC 297
Vink, J.S., O'Neill, P.M., Els, S.G., Drew, J.E.
2005, A&A 438L, 21
34. Near-infrared line spectropolarimetry of hot massive stars
Oudmaijer, R.D., Drew, J.E., **Vink, J.S.**
2005, MNRAS 64, 725
35. Probing the circumstellar structures of T Tauri stars and their relationship to those of Herbig stars
Vink, J.S., Drew, J.E., Harries T.J., Oudmaijer, R.D., Unruh, Y.C.
2005, MNRAS 359, 1049
36. Polarimetric line profiles for scattering off rotating disks
Vink, J.S., Harries, T.J., Drew, J.E.
2005, A&A 430, 213

37. The INT Photometric H α Survey of the Northern Galactic Plane (IPHAS)
Drew, Janet E., and 25 coauthors, incl. **Vink, J.S.**
2005, MNRAS 362, 753
38. The missing Luminous Blue Variables and the bistability jump
Smith N., **Vink, J.S.**, de Koter, A.
2004, ApJ 615, 475
39. Resolved polarisation changes across H α
in the classical T Tauri star RY Tau
Vink, J.S., Drew, J.E., Harries, T.J., Oudmaijer R.D., Unruh Y.C.
2003, A&A 406, 703
40. Probing the circumstellar structure of Herbig Ae/Be stars
Vink, J.S., Drew, J.E., Harries, T.J., Oudmaijer R.D.
2002, MNRAS 337, 356
41. Predictions of variable mass loss for Luminous Blue Variables
Vink, J.S., & de Koter A.
2002, A&A, 393, 543
42. Hot Horizontal Branch stars: Predictions for mass loss.
Winds, rotation, and the low gravity problem.
Vink, J.S., & Cassisi S.
2002, A&A, 392, 553
43. Mass-loss predictions for O and B stars as a function of metallicity
Vink, J.S., de Koter, A., Lamers, H.J.G.L.M.
2001, A&A, 369, 574
44. New theoretical mass-loss rates of O and B stars
Vink, J.S., de Koter, A., Lamers, H.J.G.L.M.
2000, A&A, 362, 295
45. The radiation driven winds of rotating B[e] supergiants
Pelupessy, I., Lamers, H.J.G.L.M., **Vink, J.S.**
2000, A&A, 359, 695
46. On the nature of the bi-stability jump in the winds of early-type stars
Vink, J.S., de Koter, A., Lamers, H.J.G.L.M.
1999, A&A, 350, 181
47. Hot stellar population synthesis from the UV spectrum:
the globular cluster M79 (NGC 1904)
Vink, J.S., Heap, S.R., Sweigart, A., Hubeny, I., Lanz, T.
1999, A&A, 345, 109

Books & Monographs:

48. Mass loss from hot massive stars
Puls, J., **Vink, J.S.**, Najarro, F.
2009, *Astronomy & Astrophysics Review Series* 16, 209
49. Eta Carinae and the Luminous Blue Variables
Vink, J.S.
2009, in: "Eta Carinae and the supernova imposters", eds. Humphreys, R., & Davidson, K., Springer

Invited Reviews:

50. Mass loss and evolution of hot massive stars
Vink, J.S.
2009, in: IAU Symposium 252: "The Art of Modelling Stars in the 21st century", April 6-11, 2008, Sanya, China
51. Mass loss summary - a personal perspective
Vink, J.S.
2007, Invited summary in: "Mass loss from stars and the evolution of stellar clusters". Proc. of a workshop held in honour of H.J.G.L.M. Lamers, Lunteren, The Netherlands. Eds. A. de Koter, L. Smith and R. Waters (San Francisco: ASP), astro-ph/0701740
52. Massive star feedback - from the first stars to the present
Vink, J.S.
2006, IR, in: *Stellar Evolution at Low Metallicity: Mass-Loss, Explosions, Cosmology*"
Eds: H. Lamers, N. Langer, T. Nugis, ASP Conf Series, astro-ph/0511048

Other Refereed and unrefereed articles in Conference proceedings:

53. The VLT-FLAMES Tarantula Survey
Evans, C.J., et al., (30 co-authors incl. **Vink, J.S.**)
2010, IAUS 266, 35
54. An IPHAS-based search for accreting very low-mass objects using VO tools
Valdivielso, L., Martin, E.L., Bouy, H., et al., (9 co-authors incl. **Vink, J.S.**)
2009, mavo proc 175
55. On the origin of microturbulence in hot stars
Cantiello, M., Langer, N., Brott, I., de Koter, A., Shore, S. N., **Vink, J.S.**, Voegler, A., Yoon, S.-C.
2009, CoAst 158, 61
56. Can LBVs Be The Direct Progenitors of Core Collapse Supernovae?
Trundle, C., Kotak, R., **Vink, J.S.**, Meikle, W.P.S.
2009, AIPC 1111, 311
57. Mass loss and the evolution of massive stars
Vink, J.S.
2008, NewAR 52, 419

58. Radio study on the mass loss bi-stability jump
Benaglia, P., **Vink, J.S.**, Maiz Apellaniz, J., Marti, J., Koribalski, B., Crowther, P.A.
2008, RMxAC 33, 65
59. Using polarization to study the winds of massive stars
Davies, B., **Vink, J.S.**, Oudmaijer, R.D.
2008, ASPC 388, 71
60. Radio Evidence on the Mass Loss Bistability Jump
Benaglia, P., **Vink, J.S.**, Maiz Apellaniz, J., Marti, J., Koribalski, B., Crowther, P.A.
2008, ASPC 388, 141
61. Pre-supernova mass loss predictions for massive stars
Vink, J.S., de Koter, A., Kotak, R.
2008, ASPC 388, 47
62. Modelling the polarimetric variability of hot stars
Davies, B., **Vink, J.S.**, Oudmaijer, R.D.
2008, cihw.conf, 243
63. Advances in mass-loss predictions
Vink, J.S., Benaglia, P., Davies, B., de Koter, A., Oudmaijer, R. D.
2008, cihw.conf, 107
64. Constraints on wind clumping from the empirical mass-loss vs. metallicity relation for early-type stars
de Koter, A., **Vink, J.S.**, Muijres, L.
2008, cihw.conf, 47
65. Evolution of Massive Stars at Low Metallicity
Meynet, G., Walborn, N.R., Hunter, I., Martayan, C., van Marle, A.J., Marchenko, S., Vink, J.S., Limongi, M., Levesque, E.M., Modjaz, M.
2008, IAUS 250, 571
66. Mass-loss Predictions for Hot Stars
Vink, J.S.
2007, AIPC 948, 389
67. Mass loss from Luminous Blue Variables and Quasi-periodic Modulations of Radio Supernovae
Vink, J.S., Kotak, R.
2007, RMxAC 30, 17
68. The clumpiness of Luminous Blue Variable winds
Davies, B., Oudmaijer, R.D., **Vink, J.S.**
2006, in: "Stars with the B[e] phenomenon", astro-ph/0510481
69. Linear line polarimetry modelling of pre-main sequence stars
Vink, J.S., Drew, J.E., Harries, T.J., Oudmaijer R.D.
2005, ASPC 343, 232 (astro-ph/0406372)
70. Spectropolarimetry of young and evolved stars
Oudmaijer R.D., Davies B., **Vink, J.S.**, Drew, J.E.
2005, ASPC 343, 227

71. Linear Spectropolarimetry of Young and Other Emission Line Stars
Drew J.E., **Vink J.S.**, Harries T.J., Kurosawa R., Oudmaijer R.D.
2005, in: ESO Workshop on High Resolution Infrared Spectroscopy,
eds. H. Kaufl, R. Siebenmorgen & A. Moorwood, Springer-Verlag series, hris conf, 214
72. Mass loss predictions for Subdwarf B stars
Vink, J.S.
2004, Ap&SS, 291, 239 (astro-ph/0309011)
73. Probing the circumstellar structure of Pre-Main Sequence Stars
Vink, J.S., Drew, J.E., Harries, T.J., Oudmaijer R.D.
2003, in: Open Issues in Local Star Formation and Early Stellar Evolution,
eds. J. Gregorio-Hetem & J. Lepine, ASSL 299, 169
74. The winds of Luminous Blue Variables and the mass of AG Car
Vink, J.S., & de Koter, A.
2003, in: A Massive Star Odyssey, from Main Sequence to Supernova,
eds., K.A. van der Hucht, A. Herrero & C. Esteban, IAUS 212, 259
75. Mass-loss predictions and stellar masses of early-type stars
de Koter, A., & **Vink, J.S.**
2003, in: A Massive Star Odyssey, from Main Sequence to Supernova,
eds., K.A. van der Hucht, A. Herrero & C. Esteban, IAUS 212, 164
76. Do Herbig Ae/Be stars have discs?
Vink, J.S., Drew, J.E., Harries, T.J., Oudmaijer R.D.
2003, in: Galactic Star Formation Across the Stellar Mass Spectrum,
eds. J. de Buizer & N.S. van der Blik, ASP Conf. Ser., Vol. 287, 319
77. Mass loss predictions for Hot Horizontal Branch Stars
Cassisi, S., & **Vink, J.S.**
2003, in: New Horizons in Globular Cluster Astronomy,
eds. G. Piotto, G. Meylan, G. Djorgovski, & M RIELLO, ASP Conf. Ser., Vol. 296
78. Are all young stars disc accretors?
Vink, J.S., Drew, J.E., Harries, T.J., Oudmaijer R.D.
2002, in: The earliest Phases of Massive Star Formation,
ed. P. Crowther, ASP Conf. Ser., Vol. 267, 439
79. The bi-stability jump of radiation driven winds
Vink, J.S., de Koter, A., Lamers, H.J.G.L.M.
2000, in: Thermal and Ionization Aspects of Flows from Hot Stars:
Observations and Theory, ASP Conf. Ser., Vol. 204, 427
80. The ionization of hot star winds
de Koter, A., **Vink, J.S.**, Lamers, H.J.G.L.M.
2000, in: Thermal and Ionization Aspects of Flows from Hot Stars:
Observation and Theory, ASP Conf. Ser., Vol. 204, 135
81. The dependence of mass loss on the stellar parameters
Lamers, H.J.G.L.M., Nugis, T., **Vink, J.S.**, de Koter, A.
2000, in: Thermal and Ionization Aspects of Flows from Hot Stars:
Observations and Theory, ASP Conf. Ser., Vol. 204, 395

82. Disks formed by Rotation Induced Bi-stability
Lamers, H.J.G.L.M., **Vink, J.S.**, de Koter, A., Cassinelli, J.P.
1999, in: Variable and non-spherical stellar winds in luminous hot stars,
IAU colloquium 169, Lecture Notes in Physics, p. 159
83. Spectroscopic Dating of Very Massive Stars
de Koter, A., **Vink, J.S.**, Lamers, H.J.G.L.M.
1999, in: Spectrophotometric Dating of Stars and Galaxies,
eds. I. Hubeny, S.R. Heap, R. Cornett, ASP Conf. Ser., Vol. 192, 32

Other Articles/Popular:

84. The VLT-FLAMES Survey of Massive Stars Evans, C., et al., incl. **Vink, J.S.**
2008, Msng 131, 25
85. Searching for discs with the AAT
Oudmaijer R.D., **Vink, J.S.**, Davies B.
2004, AAO Newsletter, 104,3
86. Zware sterren vallen af (IN DUTCH) – Heavy Stars lose weight
Vink, J.S., & Lamers, H.J.G.L.M.
2001, Oct, Zenit