

List of scientific publications – Jorick Sandor Vink

April 2, 2007

Refereed Journal articles:

1. 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, accepted, astro-ph/0703577
2. On the difference between Herbig Ae and Herbig Be stars
Mottram, J.C., **Vink, J.S.**, Oudmaijer R.D., Patel M.
2007, MNRAS, in press, astro-ph/0703143
3. 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
4. Luminous Blue Variables as the progenitors of
supernovae with quasi-periodic radio modulations
Kotak, R., **Vink, J.S.**
2006, A&A 460L, 5
5. 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
6. Implications of the metallicity dependence of Wolf-Rayet winds
Eldridge, J.J., **Vink, J.S.**
2006, A&A 452, 295
7. On the metallicity dependence of Wolf-Rayet winds
Vink, J.S., de Koter, A.
2005, A&A 442, 587
8. Asphericity and clumpiness in the winds of Luminous Blue Variables
Davies, B., Oudmaijer, R.D., **Vink, J.S.**
2005, A&A 439, 1107
9. 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
10. Near-infrared line spectropolarimetry of hot massive stars
Oudmaijer, R.D., Drew, J.E., **Vink, J.S.**
2005, MNRAS 64, 725
11. 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

12. Polarimetric line profiles for scattering off rotating disks
Vink, J.S., Harries, T.J., Drew, J.E.
2005, A&A 430, 213
13. 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
14. The missing Luminous Blue Variables and the bistability jump
Smith N., **Vink, J.S.**, de Koter, A.
2004, ApJ 615, 475
15. 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
16. 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
17. Predictions of variable mass loss for Luminous Blue Variables
Vink, J.S., & de Koter A.
2002, A&A, 393, 543
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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

Submitted journal articles (preprints available upon request):

24. 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.**, Puls, J.
2007, A&A, submitted

Invited Reviews:

25. 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
26. 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:

27. Pre-supernova mass loss predictions for massive stars
Vink, J.S., de Koter, A., Kotak, R.
2007, in the proceedings of "Mass loss from stars and the evolution of stellar clusters", astro-ph/0611749
28. Using polarization to study the winds of massive stars
Davies, B., **Vink, J.S.**, Oudmaijer, R.D.
2007, in: Mass loss from stars and the evolution of stellar clusters, astro-ph/0609368
29. Radio evidence on the mass loss bi-stability jump
Benaglia, P., **Vink, J.S.**, Marti, J., Maiz-Apellaniz, J., Koribalski, B., Johnston S.
2006, in: Mass loss from stars and the evolution of stellar clusters, astro-ph/0608435
30. 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
31. 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)
32. Spectropolarimetry of young and evolved stars
Oudmaijer R.D., Davies B., **Vink, J.S.**, Drew, J.E.
2005, ASPC 343, 227
33. 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

34. Mass loss predictions for Subdwarf B stars
Vink, J.S.
2004, *Ap&SS*, 291, 239 (astro-ph/0309011)
35. 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
36. 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
37. 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
38. 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
39. 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
40. 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
41. 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
42. 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
43. 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
44. 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

45. 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:

46. Searching for discs with the AAT
Oudmaijer R.D., **Vink, J.S.**, Davies B.
2004, AAO Newsletter, 104,3
47. Zware sterren vallen af (IN DUTCH) – Heavy Stars lose weight
Vink, J.S., & Lamers, H.J.G.L.M.
2001, Oct, Zenit