

List of Papers of R. V. Gurjar

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List of Published papers

- (1) (With J. Becker) Curves with large tangent space. *Tran. Amer. Math. Soc.* Volume 242, 1978.
- (2) Affine varieties dominated by \mathbf{C}^2 . *Comment. Math. Helvetici.* 55, 1980.
- (3) Topology of affine varieties dominated by an affine space. *Inventiones Math.* 59, 1980.
- (4) Affine varieties dominated by \mathbf{C}^n . *Math. Ann.* 258, 1982.
- (5) (With A. R. Shastri) Covering spaces of an elliptic surface. *Compositio Math.* 54, 1985.
- (6) (With A. R. Shastri) The fundamental group at infinity of an affine surface. *Comment. Math. Helvetici.* 59, 1984.
- (7) (With A. R. Shastri) A topological characterization of \mathbf{C}^2/G . *Journal of Math. Kyoto Univ.* Vol. 25. no. 4, 1985.
- (8) (With A. R. Shastri) On the rationality of complex homology 2-cells, part I, *J. Math. Soc. Japan.* Vol. 41, no. 1, 1989.
- (9) (With A.R. Shastri) On the rationality of complex homology 2-cells, part II, *J. Math. Soc. Japan,* Vol. 41, no. 2, 1989.
- (10) (With M. Miyanishi) Affine surfaces with $\bar{\kappa} \leq 1$. *Algebraic Geometry and Commutative Algebra.* In Honour of M. Nagata. Kinokuniya Publishers, 1988.
- (11) Remarks on the topology of surface singularities and applications. (With an appendix by K.Paranjape). *Proc. Indo-French Conference on Geometry.* National Board for Higher Mathematics. Hindustan Book Agency.
- (12) Graded subrings of $\mathbf{C}[X, Y]$. *Proc. Indian Acad. Sci.* Vol. 99, 1989.
- (13) On a conjecture of C. T. C. Wall. *Journal of Math. Kyoto Univ.* Vol. 31, 1991.
- (14) (With R. R. Simha) Some results on the topology of varieties dominated by \mathbf{C}^n . *Math. Zeitschrift.* Band 211, Heft 2, 1992.

- (15) (With M. Miyanishi) Affine lines on logarithmic \mathbf{Q} -homology planes. *Math. Ann.* 294, 1992.
- (16) (With D. -Q. Zhang) π_1 of smooth points of a log del Pezzo surface is finite : I. *J. Math. Sci. Univ. of Tokyo.* Vol.1, no.1, 1995.
- (17) (With D. -Q. Zhang) π_1 of smooth points of a log del Pezzo surface is finite : II. *J. Math. Sci. Univ. Tokyo,* Vol. 2, no.1, 1995.
- (18) (With A. J. Parameswaran) Affine lines on \mathbf{Q} -homology planes. *J. Math. Kyoto Univ.* Vol. 35, no. 1, 1995.
- (19) (With A. J. Parameswaran) On the Euler characteristic of Open Surfaces. *Compositio Math.* Vol. 99, no. 3, 1995.
- (20) (With D. -Q. Zhang) On the fundamental group of some open rational surfaces. *Math. Annalen,* Vol. 374, 1996.
- (21) (With M.Miyanishi) On contractible curves in \mathbf{C}^2 . *Tohoku Journal of Math.* Vol.48, 1996.
- (22) (With Z.-Q.Zhang) Normal projective surfaces with trivial bicanonical divisors. *Journal of Algebra,* Vol. 186, no. 3, 1996.
- (23) A New Proof Of Suzuki's Formula. *Proc. Indian Acad. Sci. (Math. Sci.),* Vol. 107, No. 3, 1997.
- (24) A Hyperplane Section Theorem for Milnor Numbers. *Math. Ann.,* Band 309, Heft. 2, 1997.
- (25) (With C.R. Pradeep and A.R. Shastri) On the rationality of \mathbf{Q} -homology planes, II. *Osaka Journal of Math.,* Vol. 34, no. 3, 1997.
- (26) (With C.R. Pradeep) \mathbf{Q} -homology planes are rational-III, *Osaka Journal of Mathematics,* Vol. 36, 1999, 259-335.
- (27) (With M. Miyanishi) On a Generalization of the Jacobian Conjecture, *J. reine angew. Math.* Vol. 516, 1999, 115-132.
- (28) A New Proof of the Abhyankar-Moh-Suzuki Theorem, *Transformation Groups,* Vol. 7, No. 1, 2002, 61-66.
- (29) A Topological Proof of Cancellation Theorem for \mathbf{C}^2 (With an appendix in collaboration with C.R. Pradeep), *Math. Zeitschrift,* Vol. 240, 2002, 83-94.
- (30) On Gorenstein Surfaces dominated by \mathbf{P}^2 (with C.R. Pradeep and D.-Q. Zhang), *Nagoya J. Math.* Vol. 168, 2002, 41-63.
- (31) On ramification of self-maps of \mathbf{P}^2 , *Journal of Algebra,* Vol. 259 (2003), 191-200.
- (32) Two remarks on topology of projective surfaces, *Math. Annalen* (To appear).

Unpublished work

- (1) A formula for the inverse of n power series in n variables with non-vanishing Jacobian determinant. (An exposition of this appears in the article by Bass-Connell-Wright on the Jacobian Problem, Bulletin A.M.S., Vol. 7, 1982, 287-330.)
- (2) A proof of the Zariski-Lipman conjecture for hypersurfaces (Preprint 1975).

Recent Preprints

- (1) (With M. Miyanishi) Automorphisms of affine surfaces with \mathbf{A}^1 -fibrations. Preprint, November 2002.
- (2) (With M. Miyanishi) A simplified proof of Kaliman's theorem on G_a actions on \mathbf{C}^3 . Preprint, December 2003.