

# List of publications and preprints

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## BOOK

Algebraic K-Theory, Progress in Math. Vol. 90, Birkhäuser, Boston, Inc. (1991)  
(book based on lectures at the Tata Institute in 1986-87). Second Edition: 1995.

## PAPERS

In all of the following papers with more than one author, the authors names appear on the paper in alphabetical order, unless mentioned otherwise.

1. *Vector bundles on the cone over a curve*, Comp. Math., 47(1982)249-269.
2. *Relative K-theory and vector bundles on certain singular varieties*, Invent. Math., 70(1982)1-12 (with K. R. Coombes).
3. *A remark on  $K_1$  of an algebraic surface*, Math. Ann., 265(1983)335-342 (with K. R. Coombes).
4. *Remarks on correspondences and algebraic cycles*, Amer. J. Math., 105(1983)1235-1253 (with S. Bloch).
5. *Zero cycles on certain singular elliptic surfaces*, Comp. Math., 52(1984)179-196 (with M. Levine).
6. *Zero cycles on a singular surface, I, II*, J. Reine Ang. Math., 359(1985)90-105 and 362(1985)4-27.
7. *Grothendieck groups of polynomial and Laurent polynomial rings*, Duke Math. J., 53(1986)595-633.
8. *Modules of finite length and Chow groups of surfaces with rational double points*, Ill. J. Math., 31(1986)36-61.
9. *Indecomposable projective modules on affine domains*, Comp. Math., 60(1986)115-132.
10. *Rational equivalence of zero cycles on normal varieties over  $\mathbf{C}$* , Proc. Symp. Pure Math., AMS, 46(1987)475-482.
11. *Zero cycles on a singular surface: an introduction*, in *Vector bundles on algebraic varieties*, Bombay Colloq. (1984)529-555.

12. *On etale coverings of the affine space*, Lect. Notes Math. 1008, Springer-Verlag (with T.Kambayashi).
13.  *$K_1$  of the cone over a curve*, J. Reine Ang. Math., 381(1987)37-50.
14. *Varieties in positive characteristic with trivial tangent bundle*, Comp. Math., 64(1987)191-212 (with V. B. Mehta; appendix with M. V. Nori).
15. *On a paper of S. T. Jensen*, unpublished preprint (with V. B. Mehta).
16. *Normality of Schubert varieties*, Amer. J. Math.,109(1987)987-989 (with V.B.Mehta).
17. *Indecomposable projective modules on affine domains, II*, J. Alg. 122(1989)439-446.
18. *Torsion 0-cycles on affine varieties in characteristic  $p$* , J. Alg. 120(1989)428-432.
19. *A note on Schubert varieties in  $G/P$* , Math. Ann. 284(1989)1-5 (with V. B. Mehta).
20. *Azumaya algebras with Involutions*, J. Alg. 130(1990)65-82 (with M. A. Knus and R. Parimala).
21. *Normal  $F$ -pure surface singularities*, J. Alg. 143(1991) 130-143 (with V. B. Mehta).
22. *Normal surface singularities of  $F$ -pure type*, J. Alg. 142(1991) 348-359.
23.  *$K$ -theory of Twisted Grassmanians*, K-Theory 3 (1989) 99-121 (with M. Levine and J. Weyman).
24. *Self maps of homogeneous spaces*, Invent. Math. 98(1989)425-444 (with K. H. Paranjape).
25. *Continuous self-maps of quadric hypersurfaces*, Proc. Indo-French Conf. on Geometry, S. Ramanan (ed.), NBHM Series, Hindustan Book Agency (1994) 135-148 (with K. H. Paranjape).
26. *Decomposition of the de Rham complex*, J. Indian Acad. Sci. (Math. Sci.). 100 (1990) 103-106.
27. *Gysin maps and cycle classes for Hodge cohomology*, J. Ind. Acad. Sci. (Math. Sci.) 103(1993)209-247.
28. *On the embedding dimension of an affine variety*, Math. Ann. 289(1991)125-132.
29. *A variant of Noether normalisation*, Rend. Sem. Mat. Univ. Torino, 48(1990) (with A. J. Parameswaran).
30. *Analogues of the Brauer group for algebras with involution*, Duke Math. J. 66(1992)207-237 (with R. Parimala).

31. *K-theory of singular varieties*, Current Science 59(1990)312-314.
32. *Diophantine Equations*, Current Science 59 (1990) 589-594 (expository article).
33. *The work of S. Mori*, Current Science 59 (1990) 1292-1296 (expository article).
34. *Unirationality of the general Complete Intersection of sufficiently small multidegree (after Morin and Predonzan)*, in 'Flips and Abundance for Algebraic Threefolds', J. Kollár (ed.), Asterique 211 (1992) 241-248 (with K.H.Paranjape).
35. *Chern classes of vector bundles with holomorphic connections on a complete smooth complex variety*, J. Diff. Geom. 36(1992)257-267 (with H. Esnault).
36. *Projective algebraic varieties*, Current Science 63 (1992) 222-228 (expository article).
37. *The Weil conjectures*, Current Science 63 (1992) 239-246 (expository article).
38. *A variant of the Noether-Lefschetz theorem: some new examples of unique factorisation domains*, J. Alg. Geom. 3(1994)81-115 (with A. J. Parameswaran).
39. *Hodge type of projective varieties of low degree*, Math. Annalen 293(1992)1-6 (with H. Esnault, M. V. Nori).
40. *On a problem of Zariski on dimensions of linear systems*, Ann. Math. 137(1993)531-559 (with S. D. Cutkosky).
41. *On the Neron-Severi group of a singular variety*, J. Reine Ang. Math. 435(1993)65-82, Appendix *The Neron-Severi group and the Mixed Hodge structure on  $H^2$* , J. Reine Ang. Math. 450(1994)37-42 (both with L. Barbieri-Viale).
42. *Periodicity of the fixed locus of multiples of a divisor on a surface*, Duke Math. J. 72(1993)641-647 (with S. D. Cutkosky).
43. *Decomposability of Chow groups implies Decomposability of cohomology*, Asterique 218(1993)227-241 (with H. Esnault and E. Viehweg).
44. *The invariance of Hilbert functions of quotients under small perturbations*, J. Algebra 186 (1996) 1-19 (with Vijaylaxmi Trivedi).
45. *Algebraic Cycles*, in *Current Trends in Mathematics and Physics: A tribute to Harish Chandra*, S. D. Adhikari ed., Narosa Publishing House (1995)71-86 (with K. H. Paranjape) (expository article).
46. *Bloch's Conjecture Reformulated*, C.R. Acad. Sci. Paris t. 321(1995)211-214.

47. *A finiteness theorem for Hilbert functions of complete intersection local rings*, Math. Zeitschrift 225 (1997) 543-558 (with Vijaylaxmi Trivedi).
48. *On the Hilbert function of a Cohen-Macaulay local ring*, J. Alg. Geom. 6 (4) (1997) 733-751 (with Vijaylaxmi Trivedi).
49. *Roitman's theorem for singular projective varieties*, Compositio Math. 119 (1999) 217-242 (with Jishnu Biswas).
50. *The Chow ring of a singular surface*, Proc. Ind. Acad. Sci. (Math. Sci.) 108 (1998) 227-249 (with Jishnu Biswas).
51. *Riemann Surfaces*, in *Analysis, Geometry and Probability*, ed. R. Bhatia, TRIM Series No. 10, Hindustan Book Agency (1996) (expository article; with R. R. Simha).
52. *A characterization of rational singularities*, Asian J. Math. 1 (2) (1997) 249-271 (with V. B. Mehta).
53. *The universal regular quotient of the Chow group of points on projective varieties*, Inventiones Math. 135 (1999) 595-664 (with H. Esnault and E. Viehweg).
54. *Zero cycles on singular varieties*, in *The Arithmetic and Geometry of Algebraic Cycles*, ed. B. B. Gordon *et al.*, NATO Science Series Vol. C 548, Kluwer (2000).
55. *A Lefschetz (1,1) theorem for normal projective varieties*, Duke Math. J. 101 (2000) 427-458 (with Jishnu Biswas).
56. *Albanese and Picard 1-Motives*, Mémoires de la Société Mathématique de France, Vol. 87 (2001) vi+104 pp. (with L. Barbieri-Viale; announcement of results in C.R. Acad. Sci. Paris 326 (1998) 1397-1401).
57. *The Weil Conjectures*, Resonance (J. of Sci. Education), Ind. Acad. Sci., 4(5) (1999) 71-77 (with Kapil Paranjape; expository article).
58. *Some remarks on Chow Varieties*, J. Pure Appl. Alg. 166 (2002) 67-81 (jointly with J. Elizondo).
59. *Zero cycles and K-theory on normal surfaces*, Annals of Math. 156 (2002) 155-195 (with Amalendu Krishna).
60. *Enriched Hodge Structures*, in *Proc. Internat. Colloq. on Algebra, Arithmetic and Geometry, Mumbai 2000*, Tata Inst. of Fund. Res. Studies in Math. Vol. 16 (2002) 171-184 (joint with S. Bloch).
61. *Modules of finite length and finite projective dimension*, Invent. Math. 151 (2003) 1-27 (joint with P. C. Roberts).
62. *Some geometric methods in commutative algebra*, in *Computational Commutative algebra and Combinatorics*, Advanced Studies in Pure Math. (Math. Soc. Japan) Vol. 33 (2002) 231-276.

63. *A generalized Serre Problem*, J. Algebra 278 (2004) 621-627.
64. *The Grothendieck-Lefschetz theorem for normal projective varieties*, J. Alg. Geom. 15 (2006) 563-590 (with G. V. Ravindra).
65. *The Noether-Lefschetz theorem for the divisor class group*, (Special issue hon. Paul Roberts) J. Alg. 322 (9) 3373-3391 (with G. V. Ravindra).
66. *Diagonal subschemes and vector bundles*, Pure and Applied Math. Quarterly 4(4) (Special Issue in hon. J.-P. Serre, Part 1 of 2) (2008) 1233-1278 (with P. Pragacz and Vishwambhar Pati; here the names appear in the order Pragacz, Srinivas, Pati, since Pati was co-opted later as author).
67. *Annihilators of local cohomology in Characteristic Zero*, Illinois J. Math. Vol. 51, No. 1 (2007) 237-254. (joint with Paul Roberts and Anurag Singh).
68. *Algebraic mixed Hodge substructures of  $H^2$* , Math. Zeitschrift 261 (2009) 261-276 (joint with L. Barbieri-Vaile and A. Rosenschon).
69. *Algebraic cycles on products of elliptic curves over  $p$ -adic fields*, Math. Annalen 339 (2007) 241-249 (joint with A. Rosenschon).
70. *A vanishing theorem for oriented intersection multiplicities*, Math. Res. Lett. 15 (3) (2008) 447-458 (joint with J. Fasel).
71. *A topological property of quasi-reductive group schemes*, Algebra and Number Theory Vol. 2 No. 2 (2008) 121-134 (joint with N. Fakhruddin).
72. *Some applications of algebraic cycles to affine algebraic geometry in Algebraic cycles, sheaves, shtukas, and moduli*, 185215, Impanga lecture notes. Edited by Piotr Pragacz. Trends in Math., Birkhuser, Basel, 2008.
73. *Finite Schur filtration dimension for modules over an algebra with Schur filtration*, Transformation Groups 14 (3) (2009) 695-711 (joint with W. van der Kallen).
74. *A local ring such that the map between Grothendieck group with rational coefficients induced by completion is not injective*, Special Vol. honouring M. Hochster, Michigan Math. J. 57 (2008) (joint with K. Kurano).
75. *Chow-Witt Groups and Grothendieck-Witt Groups of regular schemes*, Adv. Math. 221 (2009) 302-329 (joint with J. Fasel).
76. *Zero cycles on singular affine varieties*, in *Cycles, Motives and Shimura Varieties (Mumbai, 2008)*, Tata Institute of Fundamental Research Studies No. 21, TIFR (2010) 243-262 (joint with A. Krishna).
77. *The Griffiths group of the generic abelian 3-fold*, to appear in *Cycles, Motives and Shimura Varieties, Mumbai (2008)*, Tata Institute of Fundamental Research Studies No. 21, TIFR (2010) 449-467 (joint with A. Rosenschon).

78. *Zero cycles and complete intersection points on affine varieties*, in *Perspectives in mathematical sciences II, Pure mathematics*. Ed. N. S. Narasimha Sastry *et al*, World Scientific Publ. (2009) 173-184.
79. *K-theory and the endirched Tits Building*, Documenta Math. - Extra Suslin Volume (2010) 459-513 (joint with M. V. Nori).
80. *Ordinary varieties and the comparison between multiplier ideals and test ideals*, Nagoya Math. J. 204 (2011) 125-157 (joint with Mircea Mustața).
81. *Algebraic versus topological entropy for surfaces over finite fields*, Osaka Journal of Mathematics 50(3)(2013) 827-846 (joint with H. Esnault).
82. *Abelian varieties and theta functions associated to compact Riemannian manifolds; constructions inspired by superstring theory*, Journal de Mathématiques Pures et Appliquées (9) 98 (2012) No. 5, 542-573 (joint with S. Müller-Stach, C. Peters).
83. *Algebraic cycles on singular varieties*, in *Proceedings Internat. Congress Math. Vol. II*, Hindustan Book Agency (2010) 603-623.
84. *An example concerning specialization of torsion subgroups of Chow groups*, in *Regulators*, Ed. Burgos Gil *et al.*, Contemporary Math. 571, Amer. Math. Soc. (2012) 249-254 (joint with A. Rosenschon).
85. *The holonomy rank problem*, J. Differential Geom. 97 (2014), no. 1, 1135 (joint with S. Bloch, An Huang, B. Lian and S.-T. Yau).
86. *The Tate conjecture for K3 surfaces – a survey of some recent progress*, Acta Math. Vietnam 39 (2014), no. 1, 69-85.
87. *Étale motivic cohomology and algebraic cycles*, J. Inst. Math. Jussieu 15(3) (2016) 511-537 (joint with A. Rosenschon).
88. *Simply connected varieties in characteristic  $p$* , Compositio Math. 152(2) (2016) 255-287 (joint with H. Esnault; appendix by J.-B. Bost).
89. *Nilpotence of Frobenius action on local cohomology and the Hodge filtration*, Advances in Math. 305 (2017) 456-478 (joint with S. Takagi).
90. *Torsion in the Lichtenbaum Chow groups of arithmetic schemes*, Mathematical Research Letters 22 (5) (2015) 1491-1507 (joint with A. Rosenschon).
91. *A Relative Version of Gieseker’s Problem on Stratifications in Characteristic  $p > 0$* , Int. Math. Res. Notices (2019) no. 18, 5635-5648 (joint with H. Esnault).
92. *On the cohomology classes of divisors on some normal projective varieties*, appendix to *On topological invariants of algebraic threefolds with ( $\mathbb{Q}$ -factorial) singularities* (A. Grassi and T. Weigand), arXiv:1804.02424
93. *A Note on Fierce Ramification*, J. Algebra 528 (2019) 250-259 (joint with H. Esnault, L. Kindler).

94. *Bounding Ramification by curves and covers*, Proc. Symp. Pure Math. 104, Amer. Math. Soc. (2021) 31-43 (joint with H. Esnault).
95. *Finite presentation of the tame fundamental group*, arXiv:2102.13424, to appear in Selecta Math. (joint with H. Esnault and M. Shusterman).
96. *Euler characteristics of homogeneous and weighted-homogeneous hypersurfaces*, arXiv:2101.00482 (joint with M. Levine and S. Pepin Lehalleur).
97. *An obstruction to lifting to characteristic 0*, arXiv:2106.08381 (joint with H. Esnault and J. Stix).