

## Publication Lists

1. Picard groups of some rings of invariants, *Journal of Algebra* 58 (1979), 455–461.
2. Projective modules over some polynomial rings, *Journal of Algebra* 59 (1979), 65–76.
3. Projective modules over some rings of invariants, *Chinese Journal of Mathematics* 8 (1980), 77–83.
4. A note on projective modules over Laurent polynomials, *Chinese Journal of Mathematics* 9 (1981), 75–79.
5. (with Shi-shyr Roan) A note on cancellation problem, *Chinese Journal of Mathematics* 11 (1983), 319–325.
6. Projective modules over polynomial rings, *Chinese Journal of Mathematics* 12 (1984), 71–76.
7.  $p$ -algebras of an algebraic function field over a perfect field, *Journal of Algebra* 103 (1986), 320–322.
8. The biregular cancellation problem, *Journal of Pure and Applied Algebra* 45 (1987), 241–253.
9. The cancellation problem, *Journal of Pure and Applied Algebra* 47 (1987), 165–171.
10. (with Huah Chu and Eng-Tjioe Tan) The corestriction of  $p$ -symbols, *Communications in Algebra* 16 (1988), 735–742.
11. Metacyclic  $p$ -algebras, *Proc. Amer. Math. Soc.* 104 (1988), 697–698.
12. (with Huah Chu and Eng-Tjioe Tan)  $PGL_n$ -actions on  $F_q(x_1, \dots, x_{n-1})$ , *Bull. Australian Math. Soc.* 39 (1989), 107–117.
13. Constructions of Brauer-Severi varieties and norm hypersurfaces, *Canadian Journal of Math.* 42 (1990), 230–238.
14. On Abhyankar-Moh's epimorphism theorem, *American J. Math.* 113 (1991), 399–421.

15. A note on the birational cancellation problem, *Journal of Pure and Applied Algebra* 71 (1992), 141–154.
16. (with Mowaffaq Hajja) Finite group actions on rational function fields, *Journal of Algebra* 149 (1992), 139–154.
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18. (with Mowaffaq Hajja and Jack Ohm) Function fields of conics as invariant subfields, *Journal of Algebra* 163 (1994), 383–403.
19. (with Mowaffaq Hajja) Three-dimensional purely monomial group actions, *Journal of Algebra* 170 (1994), 805–860.
20. Central graded division algebras, *Journal of Algebra* 174 (1995), 959–979.
21. (with Mowaffaq Hajja) Some actions of symmetric groups, *Journal of Algebra* 177 (1995), 511–535.
22. (with Shou-Jen Hu) Efficient generation of the ring of invariants, *Journal of Algebra* 180 (1996), 341–363.
23. Group actions of some subgroups of parabolic subgroups, *Journal of Algebra* 185 (1996), 175–183.
24. (with Mowaffaq Hajja) Twisted actions of symmetric groups, *Journal of Algebra* 188 (1997), 626–647.
25. Minimal polynomials over cyclotomic fields, *American Math. Monthly* 104 (1997), 258–260.
26. (with Hamza Ahmad and Mowaffaq Hajja) Negligibility of projective linear automorphisms, *Journal of Algebra* 199 (1998), 344–366.
27. Integral representations of cyclic groups of order  $P^2$ , *Journal of Algebra* 207 (1998), 82–126.
28. A note on cyclotomic polynomials, *Rocky Mountain Journal of Mathematics* 29 (1999), 893–907.

29. (with Li Chiang and Huah Chu) Generation of invariants, *Journal of Algebra* 221 (1999), 232–241.
30. (with Shisun Ding and Eng-Tjioe Tan) Chiungtze C. Tsen (1898–1940) and Tsen’s theorems, *Rocky Mountain Journal of Mathematics* 29 (1999), 1237–1269.
31. Cubic fields and radical extensions, *Amer. Math. Monthly* 107 (2000), 254–256.
32. (with Hamza Ahmad and Mowaffaq Hajja) Rationality of some projective linear actions, *Journal of Algebra* 228 (2000), 643–658.
33. Almost Cohen-Macaulay modules, *Communications in Algebra* 29 (2001), 781–787.
34. (with Huah Chu) Rationality of  $p$ -group actions, *Journal of Algebra* 237 (2001), 673–690.
35. (with Huah Chu) Quartic fields and radical extensions, *Journal of Symbolic Computation* 34 (2002), 83–89.
36. Addendum to the article “Almost Cohen-Macaulay modules”, *Communications in Algebra* 30 (2002), 1049–1052.
37. Y. C. N. Cheng, T. P. Eagan, T. Chmielewski, J. Folck, M. C. Kang, T. K. Kidane, Sh. M. Shvartsman, and R. W. Brown, A degeneracy study in the circulant and bordered-circulant approach to birdcage and planar coils, *Magnetic Resonance Materials in Biology, Physics and Medicine*, 16 (2003), 103–111.
38. Rationality problem of  $GL_4$  group actions, *Advances in Mathematics* 181 (2004), 321–352.
39. (with Huah Chu and Shou-Jen Hu) Noether’s problem for dihedral 2-groups, *Commentarii Math. Helvetici* 79 (2004), 147–159.
40. A genus formula for some plane curves, *l’Enseignement Math.* 50 (2004), 139–146.
41. Some group actions on  $K(x_1, x_2, x_3)$ , *Israel Journal of Math.* 146 (2005), 77–92.
42. (with Huah Chu and Shou-Jen Hu) A variant of the Reynolds operator, *Proc. of Amer. Math. Soc.* 133 (2005), 2865–2871.

43. Noether's problem for dihedral 2-groups II, *Pacific Journal of Math.* 222 (2005), 301–316.
44. Noether's problem for metacyclic  $p$ -groups, *Advances in Math.* 203 (2006), 554–567.
45. Fixed fields of triangular matrix groups, *Journal of Algebra* 302 (2006), 845–847.
46. A central extension theorem for essential dimension, *Proc. of Amer. Math. Soc.* 136 (2008), 809-813.
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48. (with Huah Chu, Shou-Jen Hu and Jiping Zhang) Groups with essential dimension one, *Asian Journal of Mathematics* 12 (2008) 177-192.
49. (with Akinari Hoshi) A rationality problem of some Cremona transformation, *Proc. Japan Academy* 84, Ser. A (2008) 133-137.
50. (with Bernat Plans) Reduction theorems for Noether's problem, *Proc. of Amer. Math. Soc.* 137 (2009) 1867-1874.
51. Rationality problem for some meta-abelian groups, *Journal of Algebra* 322 (2009) 1214-1219.
52. Retract rationality and Noether's problem, *International Mathematics Research Notices* 15 (2009) 2760-2788.
53. (with Jianyi Shi, Jiping Zhang, Stephen S. T. Yau and Yung Yu) Some primitive linear groups of prime degree, *Journal of Math. Soc. Japan* 61 (2009) 1013-1070.
54. Bezout's theorem and ideals of terminal forms, *Expositiones Math.* 28 (2010) 265-268.
55. (with Huah Chu, Shou-Jen Hu and Boris E. Kunyavskii) Noether's problem and the unramified Brauer group for groups of order 64, *International Mathematics Research Notices* 12 (2010) 2329-2366.
56. (with Yuri G. Prokhorov) Rationality of three-dimensional quotients by monomial actions, *Journal of Algebra* 324 (2010) 2166-2197.

57. (with Akinari Hoshi) Twisted symmetric group actions, *Pacific Journal Math.* 248 (2010) 285-304.
58. Noether's problem for  $p$ -groups having a cyclic subgroup of index  $p^2$ , *Advances in Math.* 226 (2011) 218-234.
59. (with Huah Chu and Shou-Jen Hu) A note on projective normality, *Proc. of Amer. Math. Soc.* 139 (2011) 1989-1992.
60. Retract rational fields, *Journal of Algebra* 349 (2012) 22-37.
61. (with Jian Zhou) The rationality problem for finite subgroups of  $GL_4(Q)$ , *Journal of Algebra* 368 (2012) 53-69.
62. (with Jian Zhou) Noether's problem for  $\hat{S}_4$  and  $\hat{S}_5$ , *Pacific Journal Math.* 258 (2012) 349-368.
63. (with Ivo Michailov and Jian Zhou) Noether's problem for groups with a cyclic subgroup of index 4, *Transformation Groups* 17 (2012) 1037-1058.
64. (with Akinari Hoshi and Boris E. Kunyavskii) Noether's problem and unramified Brauer groups, to appear in "Asian Journal Math."
65. Frobenius groups and retract rationality, to appear in "Advances in Math."
66. Bogomolov multipliers and retract rationality for semi-direct products, to appear in "Journal of Algebra".

#### Book Chapter

1. (with Shou-Jen Hu) Noether's problem for some  $p$ -groups, in "Cohomological and geometric approaches to rationality problems", edited by F. Bogomolov and Y. Tschinkel, *Progress in Math.* vol. 282, Birkhauser, Boston, 2010.

#### Conference Papers

1. Azumaya  $p$ -algebras, in “Proceedings KIT Mathematics Workshop: Algebra and Topology, 1986” edited by J. K. Koo and D. Y. Suh, Korea Institute of Technology Mathematics Research Center, 1987, Taejon.
2. Constructions of Brauer-Severi varieties and norm hypersurfaces, in “Proceedings of Algebraic Geometry Seminar, Singapore, 1987” edited by M. Nagata and T. A. Peng, World Scientific, 1988, Singapore.
3. Metacyclic algebras, in “Proceedings of the First International Symposium on Algebraic Structures and Number Theory, Hong Kong, 1988” edited by S. P. Lam and K. P. Shum, World Scientific, 1990, Singapore.
4. Abhyankar-Moh’s epimorphism theorem, in “Proceedings of Commutative Algebra and Combinatorics, Nagoya, 1990” edited by N. Iwahori, H. Matsumura, M. Nagata, H. Narushima, R. Stanley and K. Watanabe, Nagoya University, 1990, Nagoya.
5. Finite group actions on rational function fields, in “Proceedings of the International Conference of Commutative Algebra, Vechta, 1994” edited by W. Bruns, J. Herzog, M. Hochster and U. Vetter, Vechtaer Universitätsschriften, Vechta, Germany, 1994.
6. Multiplicative actions of finite groups, in “Proceedings of the Summer School on Commutative Algebra”, Edited by J. Elias, J. M. Giral, R. M. Miró-Roig and S. Zarzuela, Bellaterra, Spain, 1996.
7. Integral representations of some  $p$ -groups, in “Algebra and Number Theory, Fes, 1997”, edited by M. Boulagouaz and J. P. Tignol, Marcel Dekker.
8. The rationality problem of finite group actions, in “Proceedings of ICCM, Beijing, 1998”, AMS/IP Studies in Advanced Mathematics vol.20, 2001.
9. Introduction to Noether’s problem for dihedral groups, Algebra Colloquium 11 (2004), 71–78 (The special issue of the “Proceedings of the ICM Satellite Conference on Algebra, 2002, Suzhou”).
10. Introduction to algebraic geometry codes, in “Recent trends in coding theory and its applications”, edited by Wen-ching Li, AMS/IP Studies in Advanced Math. vol.41, 2007.

11. Some rationality problems revisited, in “Proceedings of the 4th International Congress of Chinese Mathematicians, Hangzhou 2007”, edited by Lizhen Ji, Kefeng Liu, Lo Yang and Shing-Tung Yau, Higher Education Press (Beijing) and International Press (Somerville), 2007.
12. (with Huah Chu and Shou-Jen Hu) A rationality problem of certain  $A_4$  action, in “Recent development in algebras and related areas : Proceeding of the conference dedicated to Prof. Zhexian Wan, 2007 ”, Higher Education Press (Beijing) and International Press (Somerville), 2009.
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### Books

1. (Editors, with Ko-Wei Lhi) “Algebra, analysis and geometry: Proc. Symp. in Honor of Chen-Jung Hsu and Kung-Sing Shih”, World Scientific, 1989, Singapore.
2. (Editor) “Algebra and Geometry, National Taiwan University, Taipei, December 26–30, 1995”, International Press, Cambridge, MA, 1998.
3. 微積分入門, 故鄉出版社, 1982。
4. 幾個有名的數學問題, 中央研究院數學所, 1985。
5. 近世代數, 聯經出版社, 1988。