

List of Publications

Louis Halle Rowen

Books - author

1. Polynomial Identities in Ring Theory, Academic Press (Pure and Applied Math. Series), 384 pp., March, 1980.
2. Ring Theory (2 volumes), Academic Press (Pure and Applied Math. Series 127 and 128), 1988. (Revised student edition 1991)
3. Algebra - Groups, Rings, and Fields, 239 pp. AK Peters, 1994.
4. (with A. Belov) Polynomial Identities- A combinatoric approach, 378 pages, AK Peters, 2005. Second edition, renamed Computational Aspects of Polynomial Identities, with Y. Karasik, CRC Press, 2015.
5. Graduate algebra: Commutative view. Graduate Studies in Mathematics, 73. American Mathematical Society, Providence, RI, 2006. xviii+438 pp. ISBN: 0-8218-0570-3
6. Graduate algebra: Noncommutative view. Graduate Studies in Mathematics, 91. American Mathematical Society, Providence, RI, 2008. xxi+648 pp.

Books - editor

- Ring Theory 1989 (in honor of S.A. Amitsur), IMCP Vol. 1, Weizmann Press, 1989.
- Proceedings of Miskolc Ring Theory Conference (In conjunction with the European Mathematical Union Meeting, 1996), appeared as special issue of the Journal of Pure and Applied Algebra
- (with A. Mann, A. Regev, D. Saltman and L. Small) Collected papers of S.A. Amitsur, Amer. Math. Soc. 2001.
- (with S. Montgomery and H.J. Schneider) Special issue of Comm. in Algebra in honor of Miriam Cohen, 2011.

Book Reviews

- Polynomial identity rings (book by V. Drensky and E. Formanek) Bull. Amer. Math. Soc. 43 (2006), 259-267.

Research articles (in refereed publications)

1. Some results on the center of a ring with polynomial identity, *Bull. Amer. Math. Soc.* 79 (1973), 219-223.
2. On classical quotients of polynomial identity rings with involution, *Proc. Amer. Math. Soc.* 40 (1973), 23-29.
3. Maximal quotients of semiprime PI-algebras, *Trans. Amer. Math. Soc.* 196 (1974), 127- 135.
4. A subdirect decomposition of semiprime rings and its application to maximal quotient rings, *Proc. Amer. Math. Soc.* 46 (1974), 176-180.
5. (with J. Fisher), An embedding of semiprime PI-rings, *Pacif. Journal of Math.* 52 (1974), 369-375.
6. Universal PI-algebras and algebras of generic matrices, *Israel J. Mathematics* 18 (1974), 65- 74.
7. On rings with central polynomials, *J. Algebra* 31 (1974), 393-426.
8. Standard polynomials in matrix algebras, *Trans. Amer. Math. Soc.* 196 (1974), 252-283.
9. Structure of rings with involution applied to generalized polynomial identities, *Canad. J. Math.* 27 (1975), 573-584.
10. Identities in algebras with involution, *Israel J. Math.* 20 (1975), 70-95.
11. Generalized polynomial identities, *J. Algebra* 34 (1975), 458-480.
12. Generalized polynomial identities II, *J. Algebra* 38 (1976), 380-392.
13. Monomial conditions on rings, *Israel J. Math.* 23 (1976) 19-30.
14. Generalized polynomial identities III, *J. Algebra* 47 (1977), 305-314.
15. Monomial conditions on prime rings, *Israel J. Math.* 27 (1977), 131-150. Correction *ibid.* 30 (1978), 192.
16. Classes of rings torsion free over the center. *Pacific Journal of Math.* 69 (1977), 527-534.
17. Nonassociative rings satisfying a normal polynomial identity, *J. Algebra* 49 (1977), 104- 111.

18. The theory of generalized polynomial identities, Proc. Ohio University Ring Theory Conference, Marcel Dekker (1977), 15-61.
19. Central simple algebras with involution, Bull. Amer. Math. Soc. 83 (1977), 1031-1032.
20. A short proof of the Chevalley-Jacobson Density Theorem, MAA Monthly 85 (1978), 185- 186.
21. Central simple algebras, Israel J. Math. 29 (1978), 285-301.
22. (with U. Schild) A scalar expression for matrices with symplectic involution, Mathematics of Computation 32 (1978), 607-613.
23. Polynomial identities of nonassociative rings, Ill. Journal Math. 22 (1978), 342-378.
24. Polynomial identities of nonassociative rings II, Ill. Journal Math. 22 (1978), 521-540.
25. Polynomial identities of nonassociative rings III, Ill. Journal Math. 23 (1979), 15-35.
26. (with S.A. Amitsur and J.P. Tignol) Division algebras of degree 4 and 8 with involution, Bull. Amer. Math. Soc. 1 (1979), 133-148.
27. (with S.A. Amitsur and J.P. Tignol) Division algebras of degree 4 and 8 with involution, Israel J. Math 33 (1979), 133-148.
28. Invariant subgroups of rings with involution, Comm. in Alg. 7 (1979), 2007-2025.
29. Central polynomials for special Jordan rings without nilpotent elements, and an analogue of Kaplansky's theorem, J. Algebra 63 (1980), 41-55.
30. Central simple algebras with involution viewed through centralizers, J. Algebra 63 (1980), 41-55.
31. Division algebra counterexamples of degree 8, Israel J. Math. 38 (1981), 51-57.
32. (with D. Saltman) Dihedral algebras are cyclic, Proc. Amer. Math. Soc. 84 (1982), 162- 164.
33. Cyclic division algebras, Israel J. Math. 41 (1982), 213-234. Correction *ibid.* 43 (1982), 277-280.

34. A simple proof of Kostant's Theorem, with an analog for the symplectic involution, *Contemporary Math.* 13 (1982), 207-215.
35. Division algebras of exponent 2 and characteristic 2, *J. Algebra* 9 (1983), 71-83.
36. (with M. Cohen) Group graded rings, *Comm. Alg.* 11 (1983), 1253-1270.
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38. Finitely presented modules over semiperfect rings, *Proc. Amer. Math. Soc.* 97(1986), pp.1-7.
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44. (with D. Saltman) Prime to p extensions of division algebras, *Israel J. of Mathematics* 78 (1992), 197-207.
45. Polynomials over Division Rings, and their applications in RING THEORY (S.K. Jain, S. Tariq Rizi ed.), World Scientific (1993), 287-302.
46. (with S.A. Amitsur) Elements of reduced trace 0, *Israel J. of Mathematics* 87 (1994), 161-179.
47. (with D. Haile) Factorizations of Polynomials, *Algebra Colloquium* 2 (1995), 145-156.
48. Azumaya algebras with Involution, Polarizations, Linear Generalized Identities, *J. Algebra* 178 (1995), 430-443.

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50. Elements in division algebras of degree 3 and 4, *Contemporary Math.* 184 (1995), 405-410.
51. (with S.K. Jain and S. Lopez) Superfluous Covers, *Comm. in Algebra*, 23 (6)(1995), 1663-1677.
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74. (with A. Belov and U. Vishne) Structure of Zariski-closed algebras. Trans. Amer. Math. Soc. 362 (2010), no. 9, 4695–4734.
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86. (with A. Kanel-Belov and S. Malev) The images of non-commutative polynomials evaluated on 2×2 matrices. *Proc. Amer. Math. Soc.* 140 (2012), no. 2, 465–47.
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132. (with A. Kanel-Belov, S. Malev, R. Yavich) Evaluations of noncommutative polynomials on algebras: Methods and problems, and the L'vov-Kaplansky Conjecture, SIGMA Symmetry Integrability Geom. Methods Appl. 16 (2020), Paper No. 071, 61 pp.
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Submitted for publication

- (with A. Kanel-Belov and U. Vishne) Representability of affine algebras over an arbitrary field, arXiv 1805.04450.
- (with Y. Segev) Primitive axial algebras are of Jordan type, preprint (2021).

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- (with B. Greenfeld and L. Small) Optimal representability results for PI-algebras
- (with A. Kanel-Belov, S. Malev, C. Pines) The images of multilinear and semi-homogeneous polynomials on the algebra of octonions <https://arxiv.org/abs/2204.07139>

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- (with A. Kanel-Belov and U. Vishne) Specht's problem for associative affine algebras with involution over commutative Noetherian rings.
- Hypergroups in universal algebra, arXiv 1604.03415.
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Review articles

- (with A. Kanel-Belov) *PI-Algebras*, in book: The Concise Handbook of Algebra, ed. Mikhalev, A. Vasilevich, P. Gunter, Kluwer Academic Pub (2002) 284–288
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