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Publication list

- [1] *Duality in stable shape theory*, Archiv der Mathematik **36** (1981), 327–341
- [2] *On almost rational co - H - spaces*, Proc. AMS **87** (1983), 164–168
- [3] with C. F. Bödigheimer, *A remark on the size of $\pi_q(S^n)$* , Manuscripta Mathematica **42** (1983), 79–83
- [4] *On the growth of homotopy groups*, Manuscripta Mathematica **56** (1986), 235–245
- [5] *Classification of p - local low dimensional spectra*, J.P.A.A. **45** (1987), 45–71
- [6] *Classifying spaces with injective mod - p cohomology*, Comm. Math. Helv. **64** (1989), 200–206
- [7] with J. Lannes and L. Schwartz, *Analytic functors, unstable algebras and cohomology of classifying spaces*, Contemp. Mathematics **96** (1989), 197–220
- [8] with L. Schwartz, *Indecomposable A - module summands in H^*V which are unstable algebras*, Math. Zeit. **205** (1990), 145–158
- [9] *Cohomological p - nilpotence criteria for compact Lie groups*, Astérisque **191** (1990), 211–220
- [10] *Finiteness properties of injective resolutions of certain unstable modules over the Steenrod algebra and applications*, Math. Ann. **291** (1991), 191–203
- [11] with J. Lannes and L. Schwartz, *The categories of unstable modules and unstable algebras over the Steenrod algebra modulo nilpotent objects*, American Journal of Math. **115** (1993), 1053–1106
- [12] with H. Mui, *Stable splittings for classifying spaces of alternating, special orthogonal and special unitary groups*, Contemp. Mathematics **146** (1993), 143–158
- [13] with C. Broto, *Some remarks on central elementary abelian p - subgroups and cohomology of classifying spaces*, Quarterly Journal of Mathematics **44** (1993), 155–163
- [14] with S. Priddy, *P - nilpotence, classifying space indecomposability and other properties of almost all finite groups*, Comm. Math. Helv. **69** (1994), 335–350
- [15] with J. Lannes and L. Schwartz, *Localizations of unstable A - modules and equivariant mod - p cohomology*, Math. Ann. **301** (1995), 23–68
- [16] with J. Carlson, *Depth and the cohomology of wreath products*, Manuscripta Mathematica **87** (1995), 145–151
- [17] with J. Carlson, *Cohomological detection and regular elements in group cohomology*, Proc. Amer. Math. Soc. **124** (1996), 665–670
- [18] *Commutative algebra of unstable K - modules, Lannes' T - functor and equivariant mod - p cohomology*, Journal für die reine und angewandte Mathematik **478** (1996), 189–215
- [19] *Centralizers of elementary abelian p - subgroups, the Borel construction of the singular locus and applications to the cohomology of discrete groups*, Topology **36** (1997), 271–286
- [20] *A variant of the proof of the Landweber Stong Conjecture*, in: Group Representations: Cohomology, Group Actions and Topology. Proceedings of Symposia in Pure Mathematics **63** (1998), 271–275
- [21] *Centralizers of elementary abelian p - subgroups and mod - p cohomology of profinite groups*, Duke Mathematical Journal **91** (1998), 561–585
- [22] *The cohomology of $SL(3, \mathbb{Z}[1/2])$* , K-Theory **16** (1999), 299–359

- [23] with H.-J. Baues, *The p -local decomposition problem*. Appendix of: *The homotopy classification of $(n - 1)$ -connected $(n + 4)$ -dimensional polyhedra with torsion free homology, $n \geq 5$* by H.-J. Baues and Yu.A. Drozd, *Expositiones Math.* **17** (1999), 161-180
- [24] with P. Goerss and M. Mahowald, *The homotopy of $L_2V(1)$ for the prime 3*, *Progress in Mathematics* **215** (2003), 125-151
- [25] with P. Goerss, M. Mahowald and C. Rezk, *A resolution of the $K(2)$ -local sphere at the prime 3*, *Annals of Mathematics* **162** (2005), 777-822
- [26] *On finite resolutions of $K(n)$ -local spheres*, in: *Elliptic Cohomology*, London Math. Soc. LNS **342** (2007), 122-169
- [27] with H. Glover, *On the mod- p cohomology of $Out(F_{2(p-1)})$* , *J.P.A.A.* **214** (2010), 822-836
- [28] with N. Karamanov and M. Mahowald, *The homotopy of the $K(2)$ -local Moore spectrum at the prime 3 revisited*, *Math. Zeit.* **275** (2013), 953-1004, DOI 10.1007/s00209-013-1167-4

Survey papers

- [29] with D. Puppe, *Algebraische Topologie*, in: *Ein Jahrhundert Mathematik 1890–1990*, Festschrift zum Jubiläum der DMV, *Dokumente zur Geschichte der Mathematik* **6**, Vieweg 1990, p. 673-716
- [30] *Unstable modules over the Steenrod algebra and cohomology of groups*, in: *Group Representations: Cohomology, Group Actions and Topology*. *Proceedings of Symposia in Pure Mathematics* **63** (1998), 277-300

Lecture Notes/Monographs

- [31a] *Cohomology of groups and unstable modules over the Steenrod algebra*, Notes of an advanced course on *Classifying Spaces and Cohomology of Groups* at CRM (Barcelona), 1998
- [31b] with W.G. Dwyer, *Homotopy Theoretic methods in Group Cohomology*, *Advanced Courses in Mathematics - CRM Barcelona*, Birkhäuser 2001

Preprints

- [32] with P. Goerss and M. Mahowald, *The rational homotopy of the $K(2)$ -local sphere and the chromatic splitting conjecture for the prime 3 and level 2*, available at arXiv:1210.7031
- [33] with P. Goerss, M. Mahowald and C. Rezk, *Picard groups for the prime 3 and chromatic level 2*, available at arXiv:1210.7033
- [34] with P. Goerss, *The Brown-Comenetz dual of the $K(2)$ -local sphere at the prime 3*, available at arXiv:1212.2836