

LIST OF PUBLICATIONS

Józef H. Przytycki

Books

1. *Topology of 3-dimensional manifolds*, (with W.Jakobsche), Warsaw University Press, (1987), in Polish.
2. *Knots: a combinatorial approach to knot theory*, Script, Warsaw, August 1995, 240+ XLVII-Ipp., (in Polish, English translation (extended) in preparation; to be published by Cambridge University Press).
3. 8 volumes for which I have been an editor (see *Editing*).

Books in preparation

1. **KNOTS:** From combinatorics of knot diagrams to the combinatorial topology based on knots, Cambridge University Press, accepted for publication, to appear 2007, pp. 650.
Chapter V, e-print: <http://arxiv.org/abs/math.GT/0601227>
Chapter IX, e-print: <http://arxiv.org/abs/math.GT/0602264>
Chapter X, e-print: <http://arxiv.org/abs/math.GT/0512630>
2. *Algebraic topology based on knots*, Series on Knots and Everything - Vol. 18, World Scientific, in preparation.

Editing

1. Co-editor (with V.F.R.Jones, J.Kania-Bartoszyńska, V.Tuarev and P.Traczyk), Banach Center Publications, Vol. 42, "Knot Theory", 1998, 463 pages.
2. Co-editor (with V.F.R.Jones, C.Gordon, L.Kauffman and S.Lambropoulou), Proceedings of International Conference "Knots in Hellas 98", Volume 1. In the Series on Knots and Everything, Vol. 24, 2000, 600 pp.
3. Co-editor (with V.F.R.Jones, C.Gordon, L.Kauffman and S.Lambropoulou), Proceedings of International Conference "Knots in Hellas 98", Volume 2. In: JKTR 10(2), March 2001, 175 pages.
4. Co-editor (with V.F.R.Jones, C.Gordon, L.Kauffman and S.Lambropoulou), Proceedings of International Conference "Knots in Hellas 98", Volume 3, In: JKTR 10(5), August 2001, 170 pages.
5. Co-editor (with V.F.R.Jones, V. Turaev, B.Wajnryb), Proceedings of International Conference "Knots in Poland 2003", Volume 1, Fundamenta Mathematicae, 184, 353p. December 2004.
6. Co-editor (with V.F.R.Jones, V. Turaev, B.Wajnryb), Proceedings of International Conference "Knots in Poland 2003", Volume 2, Fundamenta Mathematicae, 188, 340p. December 2005.

7. Co-editor (with V.F.R.Jones, V. Turaev, B.Wajnryb), Proceedings of International Conference “Knots in Poland 2003”, Volume 3, Fundamenta Mathematicae, 190, 300p. June 2006.
8. Co-editor (with Sofia Lambropoulou), Proceedings of International Conference Knots in Washington XX; 60th birthday of Louis H. Kauffman; to be published in *Jour. Knot Theory Ram.*, in preparation (3 volumes predicted, about 150 pages each).

Papers published or accepted for publication

1. Some remarks on actions of Z_n -groups on 3-manifolds, *Bull. Ac. Pol. Scie. Ser. Math. Astr. Phys* XXVI (7) 1978, 625 - 633.
2. Free actions of Z_n on handlebodies and surfaces, *Bull. Ac. Pol. Scie. Ser. Math. Astr. Phys.*, XXVI (7)1978, 617-624.
3. A unique decomposition theorem for 3-manifolds with boundary, *Bull. Ac. Pol.: Math.*, XXVII (2) 1979, 209-215.
4. Z_n -actions on some 2- and 3-manifolds, Geometric Topology, Proc. Int. Conf. Warszawa 1978, 353-359 (1980).
5. Z_n actions on 3-manifolds, *Colloq. Math.* 47, 1982,199-219.
6. Actions of Z_n on some surface-bundles over S^1 , *Colloq. Math.* 47, 1982, 221-239.
7. Cyclic actions on S^2 and P^2 -bundles over S^1 , *Colloq. Math.* 47, 1982, 241-254.
8. Incompressibility of surfaces after Dehn surgery, *Michigan Math. J.* 30, 1983, 289-308.
9. Nonorientable,incompressible surfaces of genus 3 in $M_{\phi(\lambda/\mu)}$ manifolds, *Collectanea Math* XXXIV (1), 1983 ,37-79.
10. Incompressibility of surfaces with four boundary components after Dehn surgery, *Demonstratio Math.* XVII (1), 1984, 119-126.
11. Incompressible surfaces in the exterior of a closed 3 braid. I. Surfaces with horizontal boundary components (with M.Lozano), *Math. Proc. Cambridge Phil. Soc.*, 98, 1985, 275-299.
12. n -relator 3-manifolds with incompressible boundary, in: *Low-dimensional topology and Kleinian groups*, edited by D.B.A. Epstein, London Math. Soc. LNS 112 ,1986, 273-285.
13. Hyperbolic structures on Dehn fillings of some punctured-torus bundles over S^1 (with S.Betley and T.Żukowski), *Kobe J. Math.*, 3(2), 1986, 117-147.
14. Invariants of links of Conway type (with P.Traczyk), *Kobe J.Math.*, 4, 1987, 115-139.
15. Conway algebras and skein equivalence of links (with P.Traczyk), *Proc. Amer. Math. Soc.*, 100(4), 1987, 744-748.

16. t_k moves on links, *Contemporary Math.* Vol. 78, Braids - Proceedings of the Santa Cruz conference on Artin's braid groups (July 1986), 1988, 615-656 .
17. Plans' theorem for links: An application of t_k moves, *Canad. Math. Bull.* 31(3), 1988 325-327.
18. t_k -equivalence of links and Conway formulas for the Jones-Conway and Kauffman polynomials, *Bull. Polish Acad. Sci. Math.*, 36(11-12), 1988, 675-680.
19. On spines of knots spaces (with W.J.R.Mitchell and D.Repovs), *Bull. Ac. Pol.: Math.*, 37, 1989, 563 - 566.
20. Knot polynomials and generalized mutation (with R.P.Anstee and D.Rolfesen) *Topology and its appl.*, 32, 1989, 237-249. e-print: <http://front.math.ucdavis.edu/math.GT/0405382>
21. An invariant of dichromatic links (with J.Hoste), *Proc. Amer. Math. Soc.*, 105(4) 1989, 1003-1007.
22. On Murasugi's and Traczyk's criteria for periodic links, *Math. Ann.*, 283, 1989, 465 - 478.
23. Equivalence of cables of mutants of knots, *Canadian Journal Math.*, XLI(2), 1989, 250-273.
24. The Skein polynomial of a planar star product of two links (with K.Murasugi), *Math. Proc. Cambridge Phil. Soc.*, 106, 1989, 273-276.
25. Positive knots have negative signature, *Bull. Ac. Pol. Math.* 37, 1989, 559-562.
26. On lower bound for short noncontractible cycles in embedded graphs (with T.Przytycka), *SIAM J. Discr. Math.* 3(2), 1990, 281-293.
27. t_3, \bar{t}_4 moves conjecture for oriented links with matched diagrams, *Math. Proc. Cambridge Phil. Soc.*, 108, 1990, 55-61.
28. Homotopy skein modules of oriented 3-manifolds (with J.Hoste), *Math. Proc. Cambridge Phil. Soc.*, (1990) 108, 475-488.
29. Skein modules of 3-manifolds, *Bull. Ac. Pol.: Math.*; 39(1-2), 1991, 91-100.
30. A survey of skein modules of 3-manifolds (with J.Hoste); in *Knots 90*, Proceedings of the International Conference on Knot Theory and Related Topics, Osaka (Japan), August 15-19, 1990), Editor A. Kawauchi, Walter de Gruyter 1992, 363-379.
31. Skein module of links in a handlebody, *Topology 90*, Proc. of the Research Semester in Low Dimensional Topology at OSU, Editors: B.Apanasov, W.D.Neumann, A.W.Reid, L.Siebenmann, De Gruyter Verlag, 1992; 315-342.
32. Quantum group of links in a handlebody *Contemporary Math: Deformation Theory and Quantum Groups with Applications to Mathematical Physics*, M.Gerstenhaber and J.D.Stasheff, Editors, Volume 134, 1992, 235-245.
33. Surface triangulations with long noncontractible cycles, (with T.Przytycka); in "Graph Structure Theory", *Contemporary Mathematics* 147, 1993, 303-340.

34. Subexponentially computable truncations of Jones-type polynomials, (with T.Przytycka), in “Graph Structure Theory”, *Contemporary Mathematics* 147, 1993, 63-108.
35. Elementary conjectures in classical knot theory, in *Quantum Topology*, Ed. L.J.Kauffman, R.A.Baadhio, Series on Knots and Everything - Vol.3, World Scientific, 1993, 292-320.
36. The $(2, \infty)$ -skein module of lens spaces; a generalization of the Jones polynomial (with J. Hoste), *Journal of Knot Theory and Its Ramifications*, 2(3), 1993, 321-333.
37. An index of a graph with applications to knot theory (with K.Murasugi); *Memoirs of the American Math. Soc.*, Vol. 106, Number 508, November 1993, 101 pages.
38. Vassiliev-Gusarov skein modules of 3-manifolds and criteria for periodicity of knots, *Low-Dimensional Topology*, Knoxville, 1992 ed.: Klaus Johannson International Press Co., Cambridge, MA 02238, 1994, 143-162.
39. A note on the Lickorish-Millett-Turaev formula for the Kauffman polynomial, *Proc. Amer. Math. Soc.*, 121(2), 1994, 645-647.
40. The skein module of genus 1 Whitehead type manifolds (with J.Hoste), *Journal of Knot Theory and Its Ramifications*, 4(3), 1995, 411-427.
41. The Kauffman bracket skein module of $S^1 \times S^2$ (with J.Hoste), *Math. Z.*, 220(1), 1995, 63-73.
42. Search for different links with the same Jones' type polynomials: Ideas from graph theory and statistical mechanics, *Panoramas of Mathematics*, Banach Center Publications, Vol. 34, Warszawa 1995, 121-148. e-print: <http://front.math.ucdavis.edu/math.GT/0405447>
43. An elementary proof of the Traczyk-Yokota criteria for periodic knots, *Proc. Amer. Math. Soc.*, 123 (1995), 1607-1611.
44. A simple construction of high representativity triangulations, (with T.Przytycka); *Discrete Mathematics*, 173, 1997, 209-228.
45. Index of graphs and non-amphicheirality of alternating knots (with K.Murasugi), *Progress in knot theory and related topics*, *Travaux en Cours*, 56, Hermann, Paris, 1997; 20-28.
46. Algebraic topology based on knots: an introduction, *Knots 96*, Proceedings of the Fifth International Research Institute of MSJ, edited by Shin'ichi Suzuki, World Scientific Publishing Co., 1997, 279-297.
47. Tangle surgeries which preserve Jones-type polynomials (with J.Hoste), *International Journal of Mathematics*, 8 (1997), 1015-1027.
48. A q-analogue of the first homology group of a 3-manifold, *Contemporary Mathematics* 214, Perspectives on Quantization (Proceedings of the joint AMS-IMS-SIAM conference on Quantization, Mount Holyoke College, 1996); Ed. L.A.Coburn, M.A.Rieffel, AMS 1998, 135-144.
49. 3-coloring and other elementary invariants of knots, *Banach Center Publications*, Vol. 42, *Knot Theory*, 1998, 275-295.

50. Skein algebra of a group (with A.S.Sikora), Banach Center Publications, Vol. 42, *Knot Theory*, 1998, 297-306.
51. Lissajous knots and billiard knots (with V.F.R.Jones), Banach Center Publications, Vol. 42, *Knot Theory*, 1998, 145-163.
52. Symmetric knots and billiard knots, Chapter 20 of the book *Ideal Knots*, Vol. 19 in Series on Knots and Everything, Ed. A.Stasiak, V.Katrich, L.Kauffman, World Scientific, 1999, 374-414. e-print: <http://front.math.ucdavis.edu/math.GT/0405151>
53. Fundamentals of Kauffman bracket skein modules, *Kobe Math. J.*, 16(1), 1999, 45-66. e-print: <http://front.math.ucdavis.edu/math.GT/9809113>
54. Multiplicative structure of Kauffman bracket skein module quantizations (with D.Bullock), *Proc. Amer. Math. Soc.*, 128(3), 2000, 923–931. e-print: <http://front.math.ucdavis.edu/math.QA/9902>
55. On Skein Algebras and $Sl_2(C)$ -Character Varieties, (with A.S.Sikora), *Topology*, 39(1), 2000, 115-148; e-print: <http://front.math.ucdavis.edu/q-alg/9705011>
56. Estimating the Size of Skein Homologies (with J.Kania-Bartoszyńska and A.S.Sikora), Knots in Hellas' 98; The Proceedings of the International Conference on Knot Theory and its Ramifications; Volume 1. In the Series on Knots and Everything, Vol. 24, September 2000, pp. 138-142.
57. The Kauffman bracket skein module of a connected sum of 3-manifolds, *Manuscripta Math.*, 101(2), 2000, 199–207.
58. Polygon dissections and Euler, Fuss, Kirkman and Cayley numbers (with A.S.Sikora), *Journal of Combinatorial Theory - series A*, 92, 2000, 68-76.
59. Homotopy and q-homotopy skein modules of 3-manifolds: an example in Algebra Situs; In: *Knots, Braids, and Mapping Class Groups: Papers dedicated to Professor Joan Birman*, Ed. J. Gilman, W. Menasco, and X.-S. Lin, International Press., AMS/IP Series on Advanced Mathematics, Vol 24, Co., Cambridge, MA, 2001, 143-170.
60. Kanenobu-Miyazawa conjecture and the Vassiliev-Gusarov skein modules based on mixed crossings (with K.Taniyama), *Proc. Amer. Math. Soc.*, 129(9), 2001, 2799-2802.
61. The fourth skein module and the Montesinos-Nakanishi conjecture for 3-algebraic links (with T.Tsukamoto), *J. Knot Theory Ramifications*, 10(7), 2001, 959–982.
62. Surgeries on periodic links and homology of periodic 3-manifolds (with M.Sokolov), *Math. Proc. Cambridge Phil. Soc.*, 131(2) 2001, 295-307.
63. Topological Insights from the Chinese Rings (with A.S.Sikora), *Proc. Amer. Math. Soc.*, 130(3), 2002, 893–902.
64. The topological interpretation of the core group of a surface in S^4 (with W. Rosicki), *Canad. Math. Bull.*, 45(1), 2002, pp. 131-137

65. Burnside obstructions to the Montesinos-Nakanishi 3-move conjecture, (with M.K. Dąbkowski), *Geometry and Topology*, 6, June, 2002, 355-360;
e-print: <http://front.math.ucdavis.edu/math.GT/0205040>
66. 3-manifold invariants and periodicity of homology spheres, (with P.Gilmer and J.Kania-Bartoszyńska), *Algebraic and Geometric Topology* 2, 2002, 825-842;
e-print: <http://xxx.lanl.gov/abs/math.GT/9807011>
67. Skein module deformations of elementary moves on links; *Geometry and Topology Monographs Volume 4: Invariants of knots and 3-manifolds (Kyoto 2001)*, 2002 (published November 2003), 313-335. <http://www.maths.warwick.ac.uk/gt/GTMon4/paper21.abs.html>
68. Skein modules; Section 4 in “Problems and invariants of knots and 3-manifolds”, *Geometry and Topology Monographs Volume 4: Invariants of knots and 3-manifolds (Kyoto 2001)*, 2002 (published June 1, 2004), 73-82.
69. Symmetry of links and classification of lens spaces (with A.Yasuhara), *Geometriae Dedicata*, April 2003, Volume 98, Issue 1, 57-61.
70. SU_n -quantum invariants for periodic links (with A.S.Sikora), the AMS volume on *Diagrammatic Morphisms and Applications*, *Contemporary Mathematics*, 318, 199-205, 2003.
71. Branched covers of tangles in three-balls (with M.Ishiwata and A.Yasuhara), *Canad. Math. Bull.*, 46(3), 2003, 356–364.
72. Kauffman-Harary Conjecture holds for Montesinos knots, (with M.M.Asaeda and A.S.Sikora), *J. Knot Theory Ramifications*, 13(4), June, 2004, 467-477.
e-print: <http://front.math.ucdavis.edu/math.GT/0305415>
73. Linking numbers in rational homology 3-spheres, cyclic branched covers and infinite cyclic covers (with A.Yasuhara), *Trans. Amer. Math. Soc.*, 356 (9), 2004, 3669-3685.
Published electronically (posted January 16, 2004) : <http://www.ams.org/tran/0000-000-00/S0002-9947-04-03423-3/home.html> e-print: <http://front.math.ucdavis.edu/math.GT/0111203>
74. From 3-moves to Lagrangian tangles and cubic skein modules, *Advances in Topological Quantum Field Theory*, Proceedings of the NATO ARW on New Techniques in Topological Quantum Field Theory, Kananaskis Village, Canada from 22 to 26 August 2001; John M. Bryden (ed), October 2004, 71-125;
e-print: <http://front.math.ucdavis.edu/math.GT/0405248>
75. Categorification of the Kauffman bracket skein module of I -bundles over surfaces, (with M.M.Asaeda and A.S.Sikora), *Algebraic & Geometric Topology (AGT)*, 4, 2004, 1177-1210.
e-print: <http://front.math.ucdavis.edu/math.QA/0403527>
76. Unexpected connection between Burnside groups and Knot Theory, (with M.K. Dąbkowski), *Proc. Nat. Acad. Science*, 101(50), December, 2004, 17357-17360;
e-print: <http://front.math.ucdavis.edu/math.GT/0309140>

77. Khovanov homology: torsion and thickness (with M.M.Asaeda), *Advances in Topological Quantum Field Theory*, Proceedings of the NATO ARW on New Techniques in Topological Quantum Field Theory, Kananaskis Village, Canada from 22 to 26 August 2001; J.M.Bryden (ed), 2004, 135-166,
e-print: <http://front.math.ucdavis.edu/math.GT/0402402>
78. Non-left-orderable 3-manifold groups (with M.K.Dąbkowski and A.A.Togha), *Canadian Math. Bull.*, 48(1), 2005, 32-40.
e-print: <http://front.math.ucdavis.edu/math.GT/0302098>
79. Rotation and signature invariants (with M. Dąbkowski, M.Ishiwata and A.Yasuhara), *Fundamenta Mathematicae*, 184, 79-97, 2004.
e-print: <http://front.math.ucdavis.edu/math.GT/0407183>
80. 3-manifolds, tangles and persistent invariants (with D.S.Silver and Susan G.Williams), *Math. Proc. Cambridge Phil. Soc.*, 139, 2005, 291-306;
e-print: <http://front.math.ucdavis.edu/math.GT/0405465>
81. L. Helme-Guizon, J. H. Przytycki, Y. Rong, Torsion in Graph Homology, *Fundamenta Mathematicae*, 190; June 2006, to appear
e-print: <http://arxiv.org/abs/math.GT/0507245>
82. When the theories meet: Khovanov homology as Hochschild homology of links,
e-print: [arXiv:math.GT/0509334](http://arxiv.org/abs/math.GT/0509334)
83. Burnside Kei (with M.Niebrzydowski), *Fundamenta Mathematicae*, 190, 2006, to appear.
e-print: <http://front.math.ucdavis.edu/math.GT/0601004>
84. A categorification of the skein module of tangles (with. M.M.Asaeda and A.S.Sikora), to appear in JAMI Proceedings
e-print <http://front.math.ucdavis.edu/math.QA/0410238>
85. Nonorientable, incompressible surfaces in punctured-torus bundles over S^1 , *Fundamenta Mathematicae*, to appear.

Preprints and Work in progress

1. On the first group of the chromatic cohomology of graphs, (with M.D.Pabiniak and R.Sazdanovic), in preparation.
2. Three talks in Cuautitlan under the general title: Topologia algebraica basada sobre nudos, Proceedings of the First International Workshop on "Graphs – Operads – Logic, Cuautitlan, Mexico, March 12-16, 2001, to appear 2006 (in Spanish). Publicaciones Preliminares (Preprint) 717, Instituto de Matemáticas Universidad Nacional Autónoma de México, Fecha de recibido: 7 de mayo de 2002; Presentado por Micho Durdevich.
(e-print: <http://front.math.ucdavis.edu/math.GT/0109029>)
3. Symplectic structure on Colorings, Lagrangian tangles and Tits buildings, (with J.Dymara and T.Januszkiewicz) preprint, May 2001.

4. Khovanov homology: reduced, co-reduced and unreduced, in preparation.
5. 5-move and (2,2)-move equivalence for 3-braids and small links. (with M. K. Dąbkowski and M. Ishiwata), in preparation.
6. Every link can be reduced by (2,2)- and $(\sigma_1\sigma_2)^6$ -moves (with T.Tsukamoto), in preparation.
7. F.Jaeger, J.H.Przytycki, A non-commutative version of the Goeritz matrix of a link, in preparation (preliminary version, August 1995).
8. Dichromatic modules of graphs, preprint 1993 (part of this paper is in Chapter V of my book: e-print: <http://arxiv.org/abs/math.GT/0601227>).
9. Applications of Burnside groups in Knot theory, (with M. Dąbkowski), in preparation.
10. Incompressible surfaces in the exterior of a closed 3 braid. II.Surfaces with vertical boundary components (with M.Lozano); in preparation.
11. Almost positive links have negative signature (with K.Taniyama); preprint, 1991.
12. The spectral parameter 3-string tangle, in preparation.
13. Hecke algebra approach to skein modules of lens spaces (with S.Lambropoulou); in preparation.
14. Solution to Kauffman-Harary conjecture (with M.M.Asaeda, W.Menasco, A.S.Sikora), in preparation.
15. Skein algebras of surfaces, (with A.S.Sikora), in preparation.
16. Torsion in skein modules, in preparation.

Publications in Educational Journals

1. 3-rozmaitości według Thurstona (3-manifolds according to Thurston), *Delta*, Warsaw, May 1984, 7-9, in Polish.
2. Węzły i sploty (Knots and links), *Delta*, Warsaw, January 1985, 2-5, in Polish.
3. Knots and links, revisited, (with J.Kania-Bartoszyńska) *Delta*, Warsaw, June 1985, 10-12, in Polish (expository article on generalizations of the Jones polynomial).
4. Podział świątecznej pomarańczy (Division of a Christmas orange), *Delta* 9, September 1999, Warsaw, p.9-11; in Polish.
5. Podział czekolady (Division of a chocolate), *Delta* 4, April, 2000, Warsaw, p.8-9; in Polish.
6. Jak odróżnić węzły; in Polish (How to distinguish knots), *Delta* 4, April, 2002, p.8-9.
7. Czy coś zostało dla nas? – 10 elementarnych zawęzłych problemów (Is there anything left for us? – 10 elementary knotted problems), *Delta* 5, May, 2002, p.V-VIII.
8. Kolorowanie splotów (Coloring of knots),*Delta* 7, July 2003, 8-10.

9. Knotaton – czyli wyszcigi węzłów (Knotathon – race of knots), preprint, 2000.
10. Hipoteza Montesinosa-Nakanishiego rozstrzygnięta po 20 latach, (Montesinose-Nakanishi conjecture solved after 20 years), in preparation.

Publications on History of Mathematics

1. History of the knot theory from Vandermonde to Jones, *Aportaciones Matemáticas Comunicaciones*, 11 (1992), 173-185.
2. 200 years of knot theory, *Wiadomości Matematyczne*, XXXI, 1995, 1-30; in Polish. Extended review in *Math. Reviews*: 98g:57001.
3. Classical roots of Knot Theory, *Chaos, Solitons and Fractals*, Vol. 9 (No. 4-5), 1998, 531-545.
4. The interrelation of the Development of Mathematical Topology in Japan, Poland and USA: Notes to the early history of the Knot theory in Japan, *Annals of the Institute for Comparative Studies of Culture, TWCU*, Vol. 63, 2002, 61-86.
<http://front.math.ucdavis.edu/math.HO/0108072>
5. Dvisti rokiv teorii vuzliv (in Ukrainian), translation of the Polish article “Dwieście lat teorii węzłów” (200 years of knot theory), preprint 2005.

Other 20 selected professional publications, including Encyclopaedia of Mathematics entries.

- (1) Rational moves and tangle embeddings: $(2, 2)$ -moves as a case study (with Mieczysław K. Dąbkowski and Makiko Ishiwata), *Proceedings of the Conference Topology of Knot VII* (held at TWCU, December 23-26), February, 2005, 37-46, in Japanese;
e-print (in English): <http://arxiv.org/abs/math.GT/0501539>
- (2) The Kauffman bracket skein algebra of a surface times the interval has no zero divisors. *Proceedings of the 46th Japan Topology Symposium at Hokkaido University* (July 26–29, 1999), pp.52-61.
- (3) Little and Haseman – early American tabulators of knots. *Abstracts AMS*, 20(4), 1999.
- (4) The fourth skein module and Montesinos Nakanishi-Conjecture for 3-algebraic links (with T.Tsukamoto), *Proceedings of the Conference “Topology of Knots”*, TWCU, Tokyo, February, 2000, p. 55-59.
5. Are the Reshetikhin-Turaev-Whitten invariants determining the holonomy map of a hyperbolic 3-manifold? *Abstracts AMS*, 21(2), 2000.
6. Articles for *Encyclopaedia of Mathematics*, Supplement II. Ed. M.Hazewinkel; Kluwer Academic Publishers, 2000:

- (i) Algebra Situs, p. 24.
 - (ii) Algebraic Topology Based on Knots, p.26.
 - (iii) Kauffman polynomial, pp. 289-290.
7. Symplectic structure on Colorings and Lagrangian tangles, *Abstracts AMS*, 21(4), December, 2000, p.545.
 9. Problem 10846, *The American Mathematical Monthly*, 108(1), January 2001, p.77, (solutions in 109(1), 2002, 79-80).
 10. Symplectic form on t -colorings of tangles. *Abstracts AMS*, 22(2), 2001, p. 383.
 11. Lagrangian approximation of Fox p -colorings of tangles; Fox approximation of rational $\frac{p}{q}$ -moves, *Abstracts AMS*, 22(3), 2001.
 12. *Encyclopaedia of Mathematics*, Supplement III. Ed. M.Hazewinkel; Kluwer Academic Publishers, 2002; 25 articles; in particular:
 - (i) Alexander-Conway polynomial, p.29.
 - (ii) Alexander theorem on braids, p.29.
 - (iii) Brandt-Lickorish-Millett-Ho polynomial, p.82.
 - (iv) Conway algebra, pp.112-113.
 - (v) Conway skein equivalence, p.113.
 - (vi) Conway skein triple, p.113.
 - (vii) Drinfeld-Turaev quantization, pp.133-134.
 - (viii) Fox n -coloring, p.162.
 - (ix) Homotopy polynomial, p.194.
 - (x) Jaeger Composition Product, p.217.
 - (xi) Jones-Conway polynomial, pp.219-221.
 - (xii) Jones unknotting conjecture, pp.221-222.
 - (xiii) Kauffman bracket polynomial, pp.226-227.
 - (xiv) Listing polynomials, pp.240-241.
 - (xv) Markov's braid theorem, p.251.
 - (xvi) Milnor's unknotting conjecture, p.261.
 - (xvii) Montesinos-Nakanishi conjecture, pp.264-265.
 - (xviii) Positive link, p.308.
 - (xix) Reidemeister Theorem, pp.327-328.
 - (xx) Rotor, pp.337-338.
 - (xxi) Skein Module, pp.368-369.

13. Polynomial time complexity algorithm for computing coefficients of the Jones-Conway (Homflypt) and Kauffman polynomials of links, *Abstracts AMS*, 23(1), 2002, p.147.
14. Branched covers of tangles in three-balls (with M.Ishiwata and A.Yasuhara), in Japanese, Proceedings of the conference dedicated to S.Suzuki and T.Kobayashi on their 60th birthday, Tokyo, 2002, 157-164.
15. Symmetry of links and classification of lens spaces (with A.Yasuhara), in Japanese, Proceedings of the conference dedicated to S.Suzuki and T.Kobayashi on their 60th birthday, Tokyo, 2002, 165-169,
16. Number theoretical criterion for invariance of Fox p -colorings under n -rotation. *Abstracts AMS*, 24(1), 2003.
17. Derived group of a link group: three applications (with M. Dąbkowski), *Abstracts AMS*, 24(2), 2003.
18. Khovanov homology of links in I -bundles over surfaces (with M.M.Asaeda and A.S.Sikora), Report No. 46/2003, Mathematisches Forschungsinstitut Oberwolfach, p. 4.
19. Rotation and signature invariants (with M. Dąbkowski, M. Ishiwata and A.Yasuhara), e-abstract (July 2004):
<http://www.math.kobe-u.ac.jp/HOME/nakanisi/KOOKseminarINT/ishiwata>
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