## Publications

(selected and ordered approximately chronologically by time of writing, not of publication)
[BS] The Fundamental Theorem of Vassiliev invariants, joint with D. Bar-Natan, "Geometry and Physics", Lecture Notes in Pure \& Appl. Math. 184, M. Dekker, New York, 1996, 101-134.
[St] Über Harrison-Kohomologie und die Drinfel'd-Vermutung, diploma thesis, Humboldt University, Berlin, 1995
[St2] Enumeration of chord diagrams and an upper bound for Vassiliev invariants, J. Of Knot Theory and Its Ram. 7(1) (1998), 93-114.
[St3] Stirling numbers, Eulerian idempotents and a diagram complex, J. Of Knot Theory and Its Ram. 7(2) (1998), 231-256.
[St4] A Survey on Vassiliev Invariants for knots, "Mathematics and Education in Mathematics", Proceedings of the XXVII. Spring Conference of the Union of Bulgarian Mathematicians, 1998, 37-47.
[St5] On enumeration of chord diagrams and asymptotics of Vassiliev invariants, Doctor thesis, Freie University Berlin, 1998.
[St6] Gauß sum invariants, Vassiliev invariants and braiding sequences, J. Of Knot Theory and Its Ram. 9(2) (2000), 221-269.
[St7] On finiteness of Vassiliev invariants and a proof of the Lin-Wang conjecture via braiding polynomials, J. Of Knot Theory and Its Ram. 10(5) (2001), special volume for the proceedings of the International Conference on Knot Theory "Knots in Hellas, 98", 769-780.
[St8] Vassiliev invariants on fibered and mutually obverse knots, J. Of Knot Theory and Its Ram. 8(4) (1999), 511-519.
[St9] The braid index and the growth of Vassiliev invariants, J. Of Knot Theory and Its Ram. 8(6) (1999), 799-813.
[St10] On the number of chord diagrams, Discr. Math. 218 (2000), 209-233.
[St11] Genera of knots and Vassiliev invariants, J. Of Knot Theory and Its Ram. 8(2) (1999), 253-259.
[St12] On some restrictions to the values of the Jones polynomial, Indiana Univ. Math. J. 54 (2) (2005), 557-574.
[St13] Positive knots, closed braids and the Jones polynomial, math/9805078, Ann. Scuola Norm. Sup. Pisa Cl. Sci. 2(2) (2003), 237-285.
[St14] Some minimal degree Vassiliev invariants not realizable by the HOMFLY and Kauffman polynomial, C. R. Acad. Bulgare Sci. 54(4) (2001), 9-14.
[St15] Mutant links distinguished by degree 3 Gauss sums, Proceedings of the International Conference on Knot Theory "Knots in Hellas, 98", Series on Knots and Everything 24, World Scientific, 2000.
[FS] New knot and link invariants, joint with T. Fiedler, Proceedings of the International Conference on Knot Theory "Knots in Hellas, 98", Series on Knots and Everything 24, World Scientific, 2000.
[St16] Gauss sums on almost positive knots, Compositio Mathematica 140(1) (2004), 228-254.
[St17] The granny and the square tangle and the unknotting number, Topol. Appl. 117 (2002), 59-75.
[St18] Knots of genus one, Proc. Amer. Math. Soc. 129(7) (2001), 2141-2156.
[St19] The Conway Vassiliev invariants on twist knots, Kobe J. Math. 16(2) (1999), 189-193.
[St20] Vassiliev invariants and rational knots of unknotting number one, math/9909050, Topology 42(1) (2003), 227-241.
[St21] The crossing number and maximal bridge length of a knot diagram, with an appendix by M. Kidwell, Pacific J. Math. 210(1) (2003), 189-199.
[St22] Polynomial values, the linking form and unknotting numbers, math. GT / 0405076 , Math. Res. Lett. 11(5-6) (2004), 755-769.
[St23] Determinants of Knots and Diophantine equations, accepted by Acta Arithmetica
[St24] Square numbers, spanning trees and invariants of achiral knots, math.GT/0003172, Comm. Anal. Geom. 13(3) (2005), 591-631.
[St25] The Jones polynomial, genus and weak genus of a knot, Ann. Fac. Sci. Toulouse VIII(4) (1999), 677-693.
[St26] On Unknotting Numbers and Knot Trivadjency, On unknotting numbers and knot trivadjacency. Math. Scand. 94(2) (2004), 227-248.
[St27] A property of the skein polynomial with an application to contact geometry, math.GT/0008126, to appear in Jour. Differential Geom.
[St28] On the unknotting number of minimal diagrams, Mathematics of Computation 72(244) (2003), 2043-2057.
[St29] Branched cover homology and Q evaluations, Osaka J. Math. 39(1) (2002), 13-21.
[St30] Rational knots and a theorem of Kanenobu, Exper. Math. 9(3) (2000), 473-478.
[St31] Fibonacci numbers and the 'fibered' Bleiler conjecture, Int. Math. Res. Notices 23 (2000), 1207-1212.
[St32] The signature of 2-almost positive knots, J. Of Knot Theory and Its Ram. 9(6) (2000), 813-845.
[St33] Some examples related to 4-genera, unknotting numbers, and knot polynomials, Jour. London Math. Soc. 63(2) (2001), 487-500.
[St34] On the coefficients of the link polynomials, Manuscr. Math. 110(2) (2003), 203-236.
[St35] Some inequalities between knot invariants, Internat. J. Math. 13(4) (2002), 373-393.
[St36] On the crossing number of positive knots and braids and braid index criteria of Jones and Morton-WilliamsFranks, Trans. Amer. Math. Soc. 354(10) (2002), 3927-3954.
[St37] Some applications of Tristram-Levine signatures, Adv. Math. 194(2) (2005), 463-484.
[KS] Examples Relating to the Crossing Number, Writhe, and Maximal Bridge Length of Knot Diagrams, joint with M. Kidwell, Mich. Math. J. 51(1) (2003), 3-12.
[STV] The canonical genus of a classical and virtual knot, joint with V. Tchernov and A. Vdovina, Geometriae Dedicata 95(1) (2002), 215-225.
[St38] On the number of links and link polynomials, Quart. J. Math. Oxford 55(1) (2004), 87-98.
[St39] The skein polynomial of closed 3-braids, J. Reine Angew. Math. 564 (2003), 167-180.
[HS] Examples of knots without minimal string Bennequin surfaces, joint with M. Hirasawa, Asian Journal Math. 7(3) (2003), 435-446.
[St40] On the Polyak-Viro Vassiliev invariant of degree 4, Canad. Math. Bull. 49(4) (2006), 609-623.
[SV] Counting alternating knots by genus, joint with A. Vdovina, Math. Ann. 333 (2005), 1-27.
[St41] Graphs, determinants of knots and hyperbolic volume, accepted by Pacific J. Math.
[St42] On polynomials and surfaces of variously positive links, Jour. Europ. Math. Soc. 7(4) (2005), 477-509.
[MS] The Alexander polynomial of planar even valence graphs, joint with K. Murasugi, Adv. Appl. Math. 31(2) (2003), 440-462.
[St43] Newton-like polynomials of links, Enseign. Math. (2) 51(3-4) (2005), 211-230.
[SSW] Euclidean Mahler measure and twisted links, joint with D. S. Silver and S. G. Williams, Algebr. Geom. Topol. 6 (2006), 581-602.
[St44] Hard to identify (non-)mutations, Math. Proc. Cambridge Philos. Soc. 141(2) (2006), 281-285.
[St45] Square numbers and polynomial invariants of achiral knots, Math. Z. 255(4) (2007), 703-719.
[St46] Genus generators and the positivity of the signature, Algebr. Geom. Topol. 6 (2006), 2351-2393.
[St47] On cabled knots and Vassiliev invariants (not) contained in knot polynomials, to appear in Canad. J. Math.
[St48] Some examples related to knot sliceness, to appear in J. Pure Applied Algebra
[St49] Generating functions, Fibonacci numbers, and rational knots, J. Algebra 310(2) (2007), 491-525.
[St50] Bennequin's inequality and the positivity of the signature, accepted by Trans. Amer. Math. Soc.
[St51] 5-moves and Montesinos links, accepted by J. Math. Soc. Japan
[St52] Tait's conjectures and odd crossing number amphicheiral knots, accepted by Bull. Amer. Math. Soc.

Partial contributions to the following papers and monographs:
[Fi] Th. Fiedler, Gauss Diagram Invariants for Knots and Links, Kluwer Academic Publishers, Mathematics and Its Applications Vol 532 (2001).
[Fi2] $\qquad$ , Gauss diagram invariants for knots which are not closed braids, Math. Proc. Cambridge Philos. Soc. 135(2) (2003), 335-348.
[Mo] H. R. Morton (ed.), Problems, Ser. Knots Everything 24 (Knots in Hellas '98, Delphi), World Sci. Publishing 2000, 547-559.
[Oh] T. Ohtsuki (ed.), Problems on invariants of knots and 3-manifolds, Geometry and Topology Monographs 4 (2002) (Invariants of knots and 3-manifolds, Kyoto 2001), 377-572.
[Za] D. Zagier, Vassiliev invariants and a strange identity related to the Dedekind eta-function, Topology 40(5) (2001), 945-960.

