List of Publications of Prof.V.I.Lozinsky

A). BOOKS, REVIEWS, THESES, POPULAR SCIENTIFIC PAPERS

1. ***V.I.Lozinsky****, S.V.Rogozhin.* Chemospecific (covalent) chromatography of biopolymers. Uspekhi khimii **49** (5) 879-902 (1980) /in Russian/; [*Russian Chemical Reviews* ***49*** *(6) 460-472 (1980)* /in English/].

2. ***V.I.Lozinsky***. Chemosorbents with activated disulphide groups for separation, purification and investigation of proteins. PhD thesis, INEOS AN USSR, 1982, 233p /in Russian/.

3. *S.D.Varfolomeev, E.I.Rainina,* ***V.I.Lozinsky****, S.B.Kalyuzhnyi, A.P.Sinitsyn, T.A.Makhlis, G.P.Bachurina, I.G.Bokova, O.A.Sklyankina, E.V.Agafonov.* Application of poly(vinyl alcohol) cryogel for immobilization of mesophilic and thermophilic microorganisms. In: Physiology of Immobilized Cells, Ed. by J.A.M.de Bont, J.Visser, B.Mattiasson, J.Tramper, Wageningen, 1989, p.325-330.

4. *A.P.Sinitsyn, E.I.Rainina,* ***V.I.Lozinsky****, S.D.Spasov.* Immobilized Microbial Cells. Sofia. St.Okhridsky University. 1991. 288 p.; 2-nd Edition - Moscow, M.V.Lomonosov Moscow State University. 1994 /in Russian/.

5. ***V.I.Lozinkii***. Polymer Networks: Synthesis, Structure, and Properties (Networks-91) (a brief review on the Conference "Networks'91", Moscow) // Mendeleev Commun. (1) R3-R4 (1992).

6. *S.D.Varfolomeev, E.I.Rainina,* ***V.I.Lozinsky****.* Cryoimmobilized enzymes and cells in organic synthesis. Pure & Appl. Chem. **64** (8) 1193-1196 (1992).

7. ***V.I.Lozinsky****, A.V.Vakula, A.L.Zubov.* Application of poly(vinyl alcohol) cryogels in biotechnology. IV. Literature data overview. Biotekhnologiya (4) 5-14 (1992) /in Russian/ [*Soviet Biotechnology (4) 1-11 (1992)* /in English/].

8. ***V.I.Lozinsky***. Cryogels on the basis of natural and synthetic polymers: preparation, properties and application. D.Sc. (Full Professor) thesis, INEOS RAS, 1994, 682p.

9. ***V.I.Lozinsky***. Does your cat revel in “Wiskas”?. Chemistry and Life (10) 52-56 (1995) /in Russian/.

10. ***V.I.Lozinsky****, F.M.Plieva.* Cell entrapment within PVA-cryogel carriers: state of the art and potentials. Proc. Internat. Workshop "Bioencapsulation V", H.Dautzenberg and D.Poncelet eds., Potsdam, 1996, T3/1-10.

11. ***V.I.Lozinsky****, A.L.Zubov.* Basic physicochemical properties of poly(vinyl alcohol) cryogels determining their feasibility as carriers for cell immobilization. Proc. Internat. Workshop "Bioencapsulation VI", F.Godia and D.Poncelet eds., Barcelona, 1997, T1.7/1-4.

12. ***V.I.Lozinsky***. Cryotropic gelation of poly(vinyl alcohol). Uspekhi khimii **67** (7) 641-655 (1998) /in Russian/ [*Russian Chemical Reviews* ***67*** *(7) 573-586 (1998)* /in English/].

13. ***V.I.Lozinsky****, F.M.Plieva.* Poly(vinyl alcohol) cryogels employed as matrices for cell

immobilization. 3. Overview of recent research and developments. Enzyme Microb. Technol. **23** (3/4) 227-242 (1998).

14. ***V.I.Lozinsky***. Laboratory for Cryochemistry of Biopolymers. In: A.N.Nesmeyanov Institute of Organoelement Compounds. History and Contemporaneity. Moscow, Nauka, 1999, pp.361-367 /in Russian/.

15. ***V.I.Lozinsky***, *F.M.Plieva, I.Yu.Galaev, B.Mattiasson.* The potential of polymeric cryogels in bioseparation. Bioseparation **10** (4-5) 163-188 (2001).

16. ***V.I.Lozinsky***. Cryogels on the basis of natural and synthetic polymers: Preparation, properties and areas of implementation. Uspekhi khimii **71** (6) 559-585 (2002) /in Russian/ [*Russian Chemical Reviews* ***71*** *(6) 489-511 (2002)* /in English/].

17. ***V.I.Lozinsky***. Preparation and application of PVA cryogels. Proc. 1st Internat. Seminar "Preparation and Application of Advanced Poly(vinyl alcohol)", Kyongsan (S.Korea), 2003, pp.38-51.

18. ***V.I.Lozinsky***, *R.V.Ivanov*. Polymer synthesis in moderately frozen solutions of monomers. In: Synthesis and modification of polymers, Yu.B.Monakov ed., Moscow, Khimiya, 2003, pp.68-86 /in Russian/.

19. ***V.I.Lozinsky***, *I.Yu.Galaev, F.M.Plieva, I.N.Savina, H.Jungvid, B.Mattiasson*. Polymeric cryogels as promising materials of biotechnological interest. Trends in Biotechnol. **21** (10) 445-451 (2003).

20. ***V.I.Lozinsky***. What new opportunities the use of diverse polymeric cryogels opens for the immobilization of molecules and cells. Hemijska Industrija (Chemical Industry, Belgrade) **58** (6a) 111-115 (2004).

21. *D.Thomas, J.-M.Laval,* ***V.I.Lozinsky***, *J.C.Philp.* Enzyme technology. // Chapter 7 in: Concepts in Biotechnology, 2nd edition, Eds. D.Balasubramanian, C.F.A.Bryce, K.Dharmalingam, J.A.Green, K.Jayaraman, pub. Sangam Books Ltd, London, 2004, pp.114-134.

22. ***V.I.Lozinsky***. The approaches to chemical synthesis of protein-like copolymers. // Adv. Polym. Sci. **196** 87-127 (2006).

23. ***V.I.Lozinsky.*** New generation of macroporous and supermacroporous materials of biotechnological interest – polymeric cryogels. // Izvest. RAN, Ser. Khim. (5) 996-1013 (2008) /in Russian/ [*Russ. Chem. Bull.* ***57*** *(5) 1015-1032 (2008)* /in English/].

24. *I.M.Okapkin,* ***V.I.Lozinsky***, *V.V.Vasilevskaya, A.R.Khokhlov*. Surface nanoreactors for efficient catalysis of hydrolytic reactions. // Chapter 6 in: "Bionanoreactor Engineering for Life Sciences and Medicine", Eds. A.Ostafin, K.Landfester, Artech House, Boston-London, 2009, pp.187-208.

B). RESEARCH PAPERS

1. *Ts.A.Egorov, M.I.Shakhparonov, Yu.A.Davidovich,* ***V.I.Lozinsky***, *B.Yu.Zaslavsky, S.V. Rogozhin.* Preparation of insoluble carrier with activated SH-group and its application in the

protein chemistry. Bioorgan. Khim. **3** (8) 1111-1116 (1977) /in Russian/.

2. ***V.I.Lozinsky****, Yu.A.Davidovich, B.Yu.Zaslavsky, Ts.A.Egorov, S.V.Rogozhin.* Removal of surface-active agents from proteins by their reversible immobilization on an insoluble carrier. Biokhimiya **43** (2) 257-259 (1978) /in Russian/.

3. ***V.I.Lozinsky****, I.G.Tsoy, Yu.A.Davidovich, S.V.Rogozhin.* Synthesis and study of properties of macroporous silicas with activated thiol-group for covalent chromatography of proteins and peptides. Izvest. AN SSSR, Ser. Khim. (6) 1358-1364 (1979) /in Russian/ [*Bull. Acad. Sci. USSR, Div. Chem. Sci.* ***28*** *(6) 1271-1277 (1979)* /in English/].

4. ***V.I.Lozinsky****, S.V.Rogozhin.* Thiol-containing derivatives of macroporous silica. 2. Using of compounds with protected thiol-group in synthesis of the chemosorbents. Izvest. AN SSSR, Ser. Khim. (2) 417-421 (1981) /in Russian/ [*Bull. Acad. Sci. USSR, Div. Chem. Sci.* ***30*** *(2) 332-337 (1981)* /in English/].

5. ***V.I.Lozinsky****, S.V.Rogozhin.* Thiol-containing derivatives of macroporous silica. 3. Synthesis of chemosorbents on the basis of macroporous silica with grafted polymer layer. Izvest. AN SSSR, Ser. Khim. (8) 1879-1884 (1981) /in Russian/ [*Bull. Acad. Sci. USSR, Div. Chem. Sci.* ***30*** *(8) 1547-1551 (1981)* /in English/].

6. *E.S.Vainerman,* ***V.I.Lozinsky****, S.V.Rogozhin.* Study of cryostructurization of polymer systems. I. Structure formation in solutions of thiol-containing polymers under freezing-thawing. Colloid & Polymer Sci. **259** (12) 1198-1201 (1981).

7. ***V.I.Lozinsky****, E.S.Vainerman, S.V.Rogozhin.* Study of cryostructurization of polymer systems. II. The influence of freezing of reacting mass on the properties of products in the preparation of covalently cross-linked gels. Colloid & Polymer Sci. **260** (8) 776-780 (1982).

8. *S.V.Rogozhin, E.S.Vainerman,* ***V.I.Lozinsky****.* The formation of spatial cross-linked polymeric structures under freezing of a reacting system. Doklady Akademii nauk SSSR **263** (1) 115-118 (1982) /in Russian/.

9. ***V.I.Lozinsky****, M.N.Korneeva, E.S.Vainerman, S.V.Rogozhin.* Structure formation during the freezing of the polymerizing system consisting of vinyl and divinyl monomers. Doklady Akademii nauk SSSR **270** (1) 101-104 (1983) /in Russian/.

10. *S.V.Rogozhin,* ***V.I.Lozinsky****, E.S.Vainerman, V.V.Korshak.* The influence of the freezing of polymerising monomer solutions on the molecular weights of the polymers obtained. Doklady Akademii nauk SSSR **273** (5) 1140-1143 (1983) /in Russian/.

11. ***V.I.Lozinsky****, E.S.Vainerman, G.F.Korotaeva, S.V.Rogozhin.* Study of cryostructurization of polymer systems. III. Cryostructurization in organic media. Colloid & Polymer Sci. **262** (8) 617-622 (1984).

12. ***V.I.Lozinsky****, E.S.Vainerman, E.F.Titova, E.M.Belavtseva, S.V.Rogozhin.* Study of cryostructurization of polymer systems. IV. Cryostructurization of the system: solvent - vinyl monomer - divinyl monomer - initiator of polymerization. Colloid & Polymer Sci. **262** (10) 769-774 (1984).

13. *E.M.Belavtseva, E.F.Titova,* ***V.I.Lozinsky****, E.S.Vainerman, S.V.Rogozhin.* Study of cryostructurization of polymer systems. V. Electron microscopic studies of cross-linked polyacrylamide cryogels. Colloid & Polymer Sci. **262** (10) 775-779 (1984).

14. *S.V.Rogozhin,* ***V.I.Lozinsky****, E.S.Vainerman, L.V.Domotenko, A.M.Mamtsis, S.A. Ivanova, M.I.Shtil'man, V.V.Korshak.* Non-covalent cryostructurization in polymer systems. Doklady Akademii nauk SSSR **278** (1) 129-133 (1984) /in Russian/.

15. ***V.I.Lozinsky****, E.S.Vainerman, S.A.Ivanova, E.F.Titova, M.I.Shtil'man, E.M.Belavtseva, S.V.Rogozhin.* Study of cryostructurization of polymer systems. VI. The influence of the process temperature on the dynamics of formation and structure of cross-linked polyacrylamide cryogels. Acta Polymerica **37** (3) 142-146 (1986).

16. ***V.I.Lozinsky****, E.S.Vainerman, L.V.Domotenko, A.M.Mamtsis, E.F.Titova, E.M. Belavtseva, S.V.Rogozhin.* Study of cryostructurization of polymer systems. VII. Structure formation under freezing of poly(vinyl alcohol) aqueous solutions. Colloid & Polymer Sci. **264** (1) 19-24 (1986).

17. ***V.I.Lozinsky****, L.V.Domotenko, E.S.Vainerman, A.M.Mamtsis, S.V.Rogozhin.* On the possibility of mechanodestruction of poly(vinyl alcohol) molecules under moderate freezing of its concentrated water solutions. Polymer Bulletin **15** (4) 333-340 (1986).

18. *R.Zh.Manolov,* ***V.I.Lozinsky****, I.M.Tavobilov, E.S.Vainerman, S.I.Bezborodova, S.V. Rogozhin, A.M.Bezborodov.* Ribonuclease biosynthesis by *Aspergillus clavatus* fungus cells imm-obilized into poly(vinyl alcohol) cryogel. Biotechnology & Bioindustry (Bulgaria) **2** (2) 3-5 (1987) /in Russian/.

19. *L.V.Domotenko,* ***V.I.Lozinsky****, E.S.Vainerman, S.V.Rogozhin.* The influence of freezing and thawing conditions of poly(vinyl alcohol) aqueous solutions on the properties of cryogels which are formed as a result. Vysokomolekul. soed. **30A** (8) 1661-1666 (1988) /in Russian/ [*Polymer Sci. USSR* ***30A*** *(8) 1758-1764 (1988)* /in English/].

20. *K.A.Lusta, N.G.Starostina, N.B.Gorkina, B.A.Fikhte,* ***V.I.Lozinsky****, E.S.Vainerman, S.V. Rogozhin.* Immobilization of *E.coli* cells into macroporous cryogels on the poly(acrylamide) basis. Prikladnaya biokhimiya i mikrobiologiya **24** (4) 504-513 (1988) /in Russian/ [*Appl. Biochem. Microbiol.* ***24*** *(4) 498-504 (1988)* /in English/].

21. *R.Zh.Manolov, I.M.Tavobilov,* ***V.I.Lozinsky****, E.S.Vainerman, E.F.Titova, E.M. Belavtseva, S.I.Bezborodova, S.V.Rogozhin, A.M.Bezborodov.* A study of *Aspergillus clavatus* immobilized cells producing ribonuclease. Prikladnaya biokhimiya i mikrobiologiya **24** (4) 514-519 (1988) /in Russian/ [*Appl. Biochem. Microbiol.* ***24*** *(4) 427-431 (1988)* /in English/].

22. *O.I.Slabova, D.I.Nikitin,* ***V.I.Lozinsky****, V.K.Kulakova, E.S.Vainerman, S.V.Rogozhin.* Hydrogen oxidation by olygotrophic bacterial cells immobilized into silica gel and cryo-silica gel. Mikrobiologiya **57** (6) 940-944 (1988) /in Russian/ [*Microbiology* ***57*** *(6) 749-753 (1988)* /in English/].

23. ***V.I.Lozinsky****, N.G.Faleev, A.L.Zubov, S.B.Ruvinov, T.A.Antonova, E.S.Vainerman, V.M. Belikov, S.V.Rogozhin.* Use of PVA-cryogel entrapped *Citrobacter intermedius* cells for continuous production of 3-fluoro-L-tyrosine. Biotechnol. Lett. **11** (1) 43-48 (1989).

24. ***V.I.Lozinsky****, S.A.Morozova, E.S.Vainerman, E.F.Titova, M.I.Shtil'man, E.M.Belavtseva, S.V.Rogozhin.* Study of cryostructurization of polymer systems. VIII. Characteristics features of the formation of cross-linked poly(acrylamide) cryogels under different thermal conditions. Acta Polymerica **40** (1) 8-15 (1989).

25. ***V.I.Lozinsky****, T.O.Golovina, E.S.Vainerman, S.V.Rogozhin.* Variation of the amount of the titrated SH-groups in thiol-derivative of poly(acrylamide) in the course of freezing of its aqueous solutions. Vysokomolekul. soed. **31A** (2) 334-338 (1989) /in Russian/ [*Polymer Sci. USSR **31A** (2) 367-372 (1989)* /in English/].

26. *S.V.Rogozhin,* ***V.I.Lozinsky****, E.S.Vainerman, A.M.Mamtsis, D.I.Nikitin, A.S.Savvichev.* Acceleration of a reaction of radical polymerization in the presence of microorganisms. Izv. AN SSSR, Ser. Biol. (4) 502-506 (1989) /in Russian/.

27. ***V.I.Lozinsky****, E.S.Vainerman, L.V.Domotenko, A.L.Blumenfel'd, V.V.Rogov, E.N. Barkovskaya, E.I.Fedin, S.V.Rogozhin.* Characteristic features of the freezing of concentrated aqueous poly(vinyl alcohol) solutions: their relation to the properties of hydrogels obtained after thawing. Kolloidnyi zhurnal. **51** (4) 685-690 (1989) /in Russian/ [*Colloid J. USSR **51** (4) 592-596 (1989)* /in English/].

28. ***V.I.Lozinsky****, L.V.Domotenko, E.S.Vainerman, S.V.Rogozhin.* Some thermomechanical properties of poly(vinyl alcohol) cryogels. Vysokomolekul. soed. **31A** (9) 1805-1809 (1989) /in Russian/ [*Polymer Sci. USSR **31A** (9) 1983-1988 (1989)* /in English/].

29. *L.V.Belousova,* ***V.I.Lozinsky****, E.S.Vainerman, S.V.Rogozhin, S.N.Egorov, M.S.Egorov.* Acid phosphatase secretion by *Saccharomyces cerevisiae* cells entrapped into poly(vinyl alcohol) cryogels. In: Enzymes of Microorganisms Ed. by V.G.Debabov et al., Moscow, 1989, Part II, p.224-232 /in Russian/.

30. *D.G.Gusev,* ***V.I.Lozinsky****, E.S.Vainerman, V.I.Bakhmutov.* Study of the frozen water-poly(vinyl alcohol) system by ^{2}H and ^{13}C NMR spectroscopy. Magn. Res. in Chem. **28** (7) 651-655 (1990).

31. ***V.I.Lozinsky****, E.S.Vainerman, A.L.Zubov, V.K.Kulakova, S.V.Rogozhin.* Application of poly(vinyl alcohol) cryogels in biotechnology. II. Variation of rheological properties of the gel matrix as a result of yeast cells entrapment. Biotekhnologiya (5) 32-35 (1990) /in Russian/ [*Soviet Biotechnology (5) 43-46 (1990)* /in English/].

32. *G.P.Alebian, E.N.Arzumanov, M.V.Mkrtchian, P.V.Tozalakian,* ***V.I.Lozinsky****, E.S. Vainerman, S.V.Rogozhin.* Kinetic aspects of L-aspartate-β-decarboxylase functioning in free and immobilized *Alcaligenes faecalis* cells in the course of L-aspartic acid transformation to L-alanin. Biotekhnologiya (6) 29-32 (1990) /in Russian/ [*Soviet Biotechnology (6) 36-40 (1990)* /in English/].

33. *A.L.Zubov,* ***V.I.Lozinsky****, E.S.Vainerman, S.V.Rogozhin.* Application of poly(vinyl alcohol) cryogels in biotechnology. III. Osmotic properties of the cryogels in media of various composition. In: Enzymes of Microorganisms and Degradation of Biopolymers Ed. by V.G.Debabov, Moscow, 1990, p.111-121 /in Russian/.

34. *O.I.Slabova, D.I.Nikitin,* ***V.I.Lozinsky****, E.S.Vainerman, S.V.Rogozhin.* Some features of gas exchange in hydrogen bacteria immobilized into usual and cryogels of cross-linked poly(acrylamide). Mikrobiologiya **60** (1) 23-27 (1991) /in Russian/ [*Microbiology* ***60*** *(1) 14-18 (1991)* /in English/].

35. *O.I.Mikhalev, M.Serpinski,* ***V.I.Lozinsky****, P.V.Kapanin, I.I.Chkeidze, M.V.Alfimov.* Method for determination of liquid microphase volume: application to the investigation of frozen H_2O-poly(vinyl alcohol) system. Cryo-Letters **12** (4) 197-206 (1991).

36. *S.Velizarov, E.I.Rainina,* ***V.I.Lozinsky****, A.L.Zubov, A.P.Sinitsyn, S.D.Varfolomeev.* L-Lysine production by *Corynebacterium glutamicum* cells entrapped in PVA-cryogel. Biotechnol. Lett. **14** (4) 291-296 (1992).

37. ***V.I.Lozinsky****, A.I.Zubov, V.K.Kulakova, E.F.Titova, S.V.Rogozhin.* Study of cryostructurization of polymer systems. IX. Poly(vinyl alcohol) cryogels filled with particles of cross-linked dextran gel. J. Appl. Polym. Sci. **44** (8) 1423-1435 (1992).

38. *A.L.Simonian, E.I.Rainina,* ***V.I.Lozinsky****, I.E.Badalian, G.A.Khachatrian, S.Sh.Tatikian, T.A.Makhlis, S.D.Varfolomeev.* A biosensor for L-proline determination by use of immobilized microbial cells. Appl. Biochem. Biotechnol. **36** (3) 199-210 (1992).

39. *O.A.Nikitina, S.S.Zatsepin, S.V.Kalyuzhnyi, E.I.Rainina, S.D.Varfolomeev, A.L.Zubov,* ***V.I.Lozinsky****.* Production of hydrogen by thermophylic anaerobic bacterium *Clostridium thermosaccharolyticum* immobilized into polyvinyl alcohol cryogel. Mikrobiologiya **62** (3) 477-488 (1993) /in Russian/ [*Microbiology* ***62*** *(3) 296-301 (1993)* /in English/].

40. *D.G.Gusev,* ***V.I.Lozinsky****, V.I.Bakhmutov.* Study of cryostructurization of polymer systems. X. ^{1}H- and ^{2}H-NMR studies of the formation of crosslinked polyacrylamide cryogels. Eur. Polym. J. **29** (1) 49-56 (1993).

41. *S.D.Varfolomeev, E.I.Rainina,* ***V.I.Lozinsky****.* Cryoimmobilized enzymes and cells in organic synthesis. Indian J. Chem. Section B, **32** (1) 202-204 (1993).

42. *E.I.Rainina, M.A.Pusheva, A.M.Ryabokon', N.P.Bolotina,* ***V.I.Lozinsky****, S.D. Varfolomeev.* Microbial cells immobilized in poly(vinyl alcohol) cryogels: biocatalytic reduction of CO_2 by the thermophilic homoacetogenic bacterium *Acetogenium kivuii*. Biotechnol. Appl. Biochem. **14** (2) 321-329 (1994).

43. *V.V.Fokina, A.Yu.Arinbasarova, A.L.Zubov,* ***V.I.Lozinsky****, K.A.Koshcheenko.* Dehydrogenation of sterol substrates by bacterial cells *Arthrobacter globiformis* 193 entrapped into poly(vinyl alcohol) cryogels. Prikladnaya Biokhimiya i Microbiologiya **31** (2) 212-217 (1995) /in Russian/ [*Appl. Biochem. Microbiol.* ***31*** *(2) 184-189 (1995)* /in English/].

44. ***V.I.Lozinsky****, F.M.Plieva, A.L.Zubov.* Application of poly(vinyl alcohol) in biotechnology. V. Supermacroporous carriers for the immobilization of molecules. Biotekhnologiya (1-2) 32-37 (1995) /in Russian/ [*Russian Biotechnology (2) 1-9 (1995)* /in English/].

45. ***V.I.Lozinsky****, E.V.Solodova, A.L.Zubov, I.A.Simenel.* Study of cryostructuration of polymer systems. XI. The formation of PVA cryogels by freezing-thawing the polymer aqueous solutions containing additives of some polyols. J. Appl. Polym. Sci. **58** (2) 171-178 (1995).

46. ***V.I.Lozinsky****, L.V.Domotenko, A.L.Zubov, I.A.Simenel.* Study of cryostructuration of polymer systems. XII. Poly(vinyl alcohol) cryogels: influence of low-molecular electrolytes. J. Appl. Polym. Sci. **61** (11) 1991-1998 (1996).

47. ***V.I.Lozinsky****, A.L.Zubov, E.F.Titova.* Swelling behaviour of poly(vinyl alcohol) cryogels employed as matrices for cell immobilization. Enzyme Microb. Technol. **18** (8) 561-569 (1996).

48. *V.Fokina, N.Susina, A.Arinbasarova, A.Zubov,* ***V.Lozinsky****, K.Koshcheenko.* Immobilization of *Arthrobacter globiformis* 193 cells into PVA cryogel. Dehydrogenation of steroid substrates. In: Immobilized Cells: Basics and Applications. R.H.Wijffels, R.M.Buitelaar, C. Bucke, J.Tramper, eds., Elsevier Sci. B.V., Amsterdam e.a., 1996, pp.90-97.

49. *A.M.Ryabokon', M.V.Kevbrina, M.A.Pusheva, A.L.Zubov,* ***V.I.Lozinsky****, E.A.Rainina.* Ecologically pure process of acetate synthesis on diverse gaseous substrates by homoacetogenic bacteria entrapped in poly(vinyl alcohol) cryogel. In: Immobilized Cells: Basics and Applications, R.H.Wijffels, R.M.Buitelaar, C.Bucke, J.Tramper, eds., Elsevier Sci. B.V., Amsterdam e.a., 1996, pp.106-111.

50. ***V.I.Lozinsky****, A.L.Zubov, T.A.Makhlis.* Entrapment of *Zymomonas mobilis* cells into PVA-cryogel carrier in the presence of polyol cryoprotectants. In: Immobilized Cells: Basics and Applications, R.H.Wijffels, R.M.Buitelaar, C.Bucke, J.Tramper, eds., Elsevier Sci. B.V., Amsterdam e.a., 1996, pp.112-117.

51. ***V.I.Lozinsky****, A.S.Savvichev, B.L.Tumansky, D.I.Nikitin.* Some microorganisms during their entrapment in PAAG act as "Biological accelerators" in how they affect the gel-formation rate. In: Immobilized Cells: Basics and Applications, R.H.Wijffels, R.M.Buitelaar, C.Bucke, J.Tramper, eds., Elsevier Sci. B.V., Amsterdam e.a., 1996, pp.118-125.

52. ***V.I.Lozinsky****, A.L.Zubov, E.I.Titova.* Poly(vinyl alcohol) cryogels which are used as matrices for cell immobilization. 2. Entrapped cells resemble porous fillers in their effects on the properties of PVA-cryogel carrier. Enzyme Microb. Technol. **20** (3) 182-190 (1997).

53. *N.R.Konstantinova,* ***V.I.Lozinsky****.* Cryotropic gelation of ovalbumin solutions. Food Hydrocolloids **11** (2) 113-123 (1997).

54. *L.Brovko, N.Romanova, T.Makhlis, A.Zubov,* ***V.Lozinsky****, N.Ugarova.* Bioluminescence as indicator of cells' viability of immobilized *E.coli* cells carrying firefly lucefirase gene. Proc. Internat. Workshop "Bioencapsulation VI", F.Godia and D.Poncelet eds., Barcelona, 1997, T3.4/1-4.

55. *N.Barron, S.Gough, A.L.Zubov,* ***V.I.Lozinsky****, A.P.McHale.* Ethanol production at 45^{o}C by *Klyuveromyces marxianus* IMB3 immobilized in calcium alginate and polyvinyl alcohol (PVA) cryogel. Proc. Internat. Workshop "Bioencapsulation VI", F.Godia and D.Poncelet eds., Barcelona, 1997, T6.5/1-4.

56. *E.Rainina, T.Makhlis, G.Bachurina, E.Efremenko,* ***V.Lozinsky****. Zymomonas mobilis* cells entrapped into poly(vinyl alcohol) cryogel as the biocatalyst for ethanol production from carbohydrate-containing wastes. Proc. Internat. Workshop "Bioencapsulation VI", F.Godia and D.Poncelet eds., Barcelona, 1997, P30/1-4.

57. ***V.I.Lozinsky****, E.V.Kalinina, V.Ya.Grinberg, N.V.Grinberg, V.A.Chupov, N.A.Plate.* Thermoresponsive cryogels based on cross-linked poly(N,N-diethylacrylamide). Vysokomolekul. soed. **39A** (12) 1972-1978 (1997) /in Russian/ [*Polym. Sci.* ***39A*** *(12) 1300-1305 (1997)* /in English/].

58. ***V.I.Lozinsky***. Cryotropic gelation as an approach to the preparation of supermacroporous hydrogels. Proc. 216-th Ann. ACS Meeting, Div. of Polymeric Materials: Science and Engineering, ACS, Boston, **79**, p.238 (1998).

59. *F.M.Plieva, E.I.Isaeva,* ***V.I.Lozinsky***. Application of poly(vinyl alcohol) cryogels in biotechnology. V. Bioaffinity sorbents on the basis of supermacroporous carrier for the manipulation with virus particles. Biotekhnologiya (5) 32-37 (1998) /in Russian/ [*Russian Biotechnology (10) 12-17 (1998)* /in Russian/].

60. *S.Gough, N.Barron, A.L.Zubov,* ***V.I.Lozinsky****, A.P.McHale.* Production of ethanol from molasses at 45^{o}C using *Kluyveromyces marxianus* IMB3 immobilized in calcium alginate gels and poly(vinyl alcohol) cryogel. Bioprocess Eng. **19** (2) 87-90 (1998).

61. ***V.I.Lozinsky****, F.M.Plieva, A.L.Zubov.* New possibilities for the implementation of PVA-cryogel carriers: Supermacroporous supports of immobilized macromolecules. Proc. Internat. Workshop "Bioencapsulation VIII", Trondheim, 1999, O5/1-5.

62. *L.G.Damshkaln, I.A.Simenel,* ***V.I.Lozinsky***. Study of cryostructuration of polymer systems. XV. Freeze-thaw-induced formation of cryoprecipitate matter from the low-concentrated aqueous solutions of poly(vinyl alcohol). J. Appl. Polym. Sci. **74** (8) 1978-1986 (1999).

63. ***V.I.Lozinsky****, T.O.Golovina, D.G.Gusev.* Study of cryostructuration of polymer systems. XIII. Some characteristic features of the behaviour of macromolecular thiols in frozen aqueous solutions. Polymer **41** (1) 35-47 (2000).

64. *E.A.Podorozhko, E.A.Kurskaya, V.K.Kulakova,* ***V.I.Lozinsky***. Cryotropic structuring of aqueous dispersions of fibrous collagen: The influence of the initial pH values. Food Hydrocolloids **14** (2) 111-120 (2000).

65. *Yu.N.Belokon', K.A.Kochetkov, F.M.Plieva, N.S.Ikonnikov, V.I.Maleev, V.S.Parmar, R. Kumar,* ***V.I.Lozinsky***. Enantioselective hydrolysis of a Schiff's base of D,L-phenylalanine ethyl ester in water-poor media through the reaction catalyzed with α-chymotrypsin immobilyzed in hydrophilic macroporous gel support. Appl. Biochem. Biotechnol. **88** (1-3) 97-106 (2000).

66. ***V.I.Lozinsky****, A.L.Zubov, I.N.Savina, F.M.Plieva.* Study of cryostructuration of polymer systems. XIV. Poly(vinyl alcohol) cryogels: Apparent yield of the freeze-thaw-induced gelation of concentrated aqueous solutions of the polymer. J. Appl. Polym. Sci. **77** (8) 1822-1831 (2000).

67. ***V.I.Lozinsky****, L.G.Damshkaln, C.R.T.Brown, I.T.Norton.* Study of cryostructuration of polymer systems. XVI. Freeze-thaw-induced effects in the low-concentration systems amylopectin - water. J. Appl. Polym. Sci. **75** (14) 1740-1748 (2000).

68. ***V.I.Lozinsky****, L.G.Damshkaln.* Study of cryostructuration of polymer systems. XVII. Poly(vinyl alcohol) cryogels: dynamics of the cryotropic gel-formation. J. Appl. Polym. Sci. **77**

(9) 2017-2023 (2000).

69. ***V.I.Lozinsky****, I.A.Simenel, E.A.Kurskaya, V.K.Kulakova, I.Yu.Galaev, B.Mattiasson, V.Ya.Grinberg, N.V.Grinberg, A.R.Khokhlov.* Synthesis of N-vinylcaprolactam polymers in water-containing media. Polymer **41** (17) 6507-6518 (2000).

70. ***V.I.Lozinsky****, L.G.Damshkaln, C.R.T.Brown, I.T.Norton.* Study of cryostructuration of polymer systems. XVIII. Freeze-thaw-influence on water-solubilized artificial mixtures of amylopectin and amylose. J. Appl. Polym. Sci. **78** (2) 371-381 (2000).

71. ***V.I.Lozinsky****, L.G.Damshkaln, C.R.T.Brown, I.T.Norton.* Study of cryostructuring of polymer systems. XIX. On the nature of intermolecular links in the cryogels of locust bean gum. Polymer International **49** (11) 1434-1443 (2000).

72. *F.M.Plieva, K.A.Kochetkov, I.Singh, V.S.Parmar, Yu.N.Belokon',* ***V.I.Lozinsky****.* Immobilization of hog pancreas lipase in macroporous PVA-cryogel carrier for the biocatalysis in water-poor media. Biotechnol. Lett. **22** (7) 551-554 (2000).

73. *V.I.Lozinsky, I.A.Simenel, E.A.Kurskaya, V.K.Kulakova, V.Ya.Grinberg, A.S.Dubovik, I.Yu.Galaev, B.Mattiasson, A.R.Khokhlov.* Synthesis and properties of the "protein-like" copolymer. Doklady Akademii Nauk **375** (5) 637-640 (2000) /in Russian/ [*Doklady Chemistry* ***375*** *(4-6) 273-276 (2000)* /in English/].

74. *A.V.Bacheva, F.M.Plieva, E.N.Lysogorskaya, I.Yu.Filippova,* ***V.I.Lozinsky****.* Peptide synthesis in organic media with subtilisin 72 immobilized on poly(vinyl alcohol)-cryogel carrier. Bioorg. Med. Chem. Lett. **11** (8) 1005-1008 (2001).

75. *N.N.Martinenko, A.L.Zubov, I.M.Gracheva, N.G.Sarishwili, G.I.El-Registan,* ***V.I. Lozinsky****.* The production of sparkling wines by "Champenoise" method with using PVA-cryogel entrapped yeast cells and the new approach to the problem of cell leakage from the carrier. Proc. Internat. Workshop "Bioencapsulation XI", Warshaw, 2001, P-XIII (1-4).

76. *E.Efremenko, E.Rainina,* ***V.Lozinsky****, T.Makhlis, S.Varfolomeyev.* "Immobilized combined microbial preparation for organophosphates degradation" Proc. Internat. Workshop "Bioencapsulation XI", Warshaw, 2001, S.III-3 (1-5).

77. ***V.I.Lozinsky****, L.G.Damshkaln.* Study of cryostructuration of polymer systems. XX. Foamed poly(vinyl alcohol) cryogels. J. Appl. Polym. Sci. **82** (7) 1609-1619 (2001).

78. ***V.I.Lozinsky****, R.V.Ivanov, E.V.Kalinina, G.I.Timofeeva, A.R.Khokhlov.* Redox-initiated radical polymerization of acrylamide in moderately frozen water solutions. Macromol. Rapid Commun. **22** (18) 1441-1446 (2001).

79. *I.Yu.Filippova, A.V.Bacheva, O.V.Baibak, F.M.Plieva, E.N.Lysogorskaya, E.S.Oksenoit,* ***V.I.Lozinsky****.* Biocatalysts for peptide synthesis in organic media – proteinases immobilized on poly(vinyl alcohol)-cryogel. Izvest. RAN, Ser. Khim. (10) 1811-1816 (2001) /in Russian/ [*Russian Chemical Bulletin* ***50*** *(10) 1896-1901 (2001)* /in English/].

80. ***V.I.Lozinsky****, I.N.Savina.* Study of cryostructuration of polymer systems. XXII. Poly (vinyl alcohol) composite cryogels filled with dispersed particles of various hydrophilicity / hydro-

phobicity. Kolloidn. Zhurn. **64** (3) 372-380 (2002) /in Russian/; [*Colloid Journal* ***64*** *(3) 336-343 (2002)* /in English/].

81. *P.-O.Wahlund, I.Yu.Galaev, S.A.Kazakov,* ***V.I.Lozinsky****, B.Mattiasson.* "Protein-like" copolymers. Effect of polymer architecture on the performance in bioseparation process. Macromol. Biosci. **2** (1) 33-42 (2002).

82. ***V.I.Lozinsky****, L.G.Damshkaln, C.R.T.Brown, I.T.Norton.* Study of cryostructuration of polymer systems. XXI. Cryotropic gel-formation of the water-maltodextrin systems. J. Appl. Polym. Sci. **83** (8) 1658-1667 (2002).

83. *E.Efremenko,* ***V.Lozinsky****, V.Sergeeva, F.Plieva, T.Makhlis, G.Kazankov, A.Gladilin, S. Varfolomeyev.* Additives of polybrene improve the stability of organophosphate hydrolase immobilized in poly(vinyl) alcohol cryogel carrier. J. Biochem. Biophys. Meth. **51** (2) 195-201 (2002).

84. ***V.I.Lozinsky****, E.V.Kalinina, O.I.Putilina, V.K.Kulakova, E.A.Kurskaya, A.S.Dubovik, V.Ya.Grinberg*. The influence of phase state of the reacting system on the properties of poly(N-isopropylacrylamide) at polymer synthesis in aqueous medium. Vysokomolekul. soed. **44A** (11) 1906-1914 (2002) [*Polymer Sci. Ser.A.* ***44*** *(11) 1122-1128 (2002)* /in English/].

85. *P.Arvidsson, F.M.Plieva, I.N.Savina,* ***V.I.Lozinsky****, S.Fexby, L.Bulow, I.Yu.Galaev, B. Mattiasson.* Chromatography of microbial cells using continuous supermacroporous affinity and ion exchange columns. J. Chromatogr. A **977** (1) 27-38 (2002).

86. *A.V.Bacheva, O.V.Baibak, A.V.Belyaeva, E.N.Lysogorskaya, E.S.Oksenoit* ***V.I.Lozinsky****, I.Yu.Filippova*. Native and modified subtilisin 72 as a catalyst for peptide synthesis in media with a low water content. Bioorgan. Khim. **29** (5) 551-558 (2003) /in Russian/ [*Russian J. Bioorgan. Chem.* ***29*** *(5) 502-508 (2003)* /in English/].

87. *A.V.Bacheva, O.V.Baibak, A.V.Belyaeva, E.S.Oksenoit, T.I.Velichko, E.N.Lysogorskaya, A.K.Gladilin,* ***V.I.Lozinsky****, I.Yu.Filippova*. Activity and stability of native and modified subtilisin in different media. Biokhimiya **68** (11) 1567-1574 (2003) /in Russian/ [*Biochemistry (Moscow)* ***68*** *(11) 1261-1266 (2003)* /in English/].

88. *P.Arvidsson, F.M.Plieva,* ***V.I.Lozinsky****, I.Yu.Galaev, B.Mattiasson*. Direct chromatographic capture of enzyme from crude homogenate using immobilized metal affinity chromatography on a continuous supermacroporous adsorbent. J. Chromatogr. A **986** (2) 275-290 (2003).

89. ***V.I.Lozinsky****, I.A.Simenel, V.K.Kulakova, E.A.Kurskaya, T.A.Babushkina, T.P.Klimova, T.V.Burova, A.S.Dubovik, V.Ya.Grinberg, I.Yu.Galaev, B.Mattiasson, A.R.Khokhlov.* Synthesis and studies of N-vinylcaprolactam/N-vinylimidazole copolymers that exhibit the "proteinlike" behaviour in aqueous media. Macromolecules **36** (19) 7308-7323 (2003).

90. *I.Kh.Nagaev, E.V.Kalinina,* ***V.I.Lozinsky****, M.I.Shtil'man*. Polymerization of N-isopropylacrylamide in aqueous medium. Adv. Chem. & Chem. Technol. **17** (6) 51-55 (2003) /in Russian/.

91. *N.N.Martynenko, I.M.Gracheva, N.G.Sarishvili, A.L.Zubov, G.I.El-Registan,* ***V.I. Lozinsky****.* Immobilization of Champagne yeasts by the entrapment in cryogel of polyvinyl alcohol:

means of prevention of cell release from the carrier matrix. Prikladnaya Biokhimaiya i Mikrobiologiya **40** (2) 186-193 (2004) /in Russian/ [Applied Biochemistry and Microbiology **40** (2) 158-164 (2004) /in English/].

92. *I.N.Savina,* ***V.I.Lozinsky****.* Study of cryostructuration of polymer systems. XXIII. Poly(vinyl alcohol) composite cryogels filled with dispersed particles that contain ionogenic groups. Kolloidn. Zhurn. **66** (3) 388-395 (2004) /in Russian/ [*Colloid J.* ***66*** *(3) 343-349 (2004)* /in English/].

93. *E.N.Efremenko, O.V.Spiricheva, D.V.Veremeenko,* ***V.I.Lozinsky****.* New approaches to the production of lactic acid: Immobilized biocatalyst based ob fungus cells *Rhizopus oryzae* entrapped in PVA cryogel. Hemijska Industrija (Chemical Industry, Belgrade) **58** (6a) 116-117 (2004).

94. *C.J.Cunningham, I.B.Ivshina,* ***V.I.Lozinsky****, M.S.Kuyukina, J.C.Philp.* Bioremediation of diesel-contaminated soil by microorganisms immobilised in polyvinyl alcohol. International Biodeterioration and Biodegradation **54** (2-3) 167-174 (2004).

95. *E.Efremenko, O.Spiricheva, D.Veremeenko,* ***V.Lozinsky****.* Immobilized fungi in the simultaneous processes of production and isolation of lactic acid. Proc. Internat. Workshop "Bioencapsulation XII", J.L.Pedraz, G.Olive and D.Poncelet eds., Vitoria, Spain, 2004, p.117-120.

96. *I.Kh.Nagaev, E.V.Kalinina,* ***V.I.Lozinsky****, M.I.Shtil'man.* Polymerization of N-isopropylacrylamide in aqueous medium at temperatures above and below LCST. Adv. Chem. & Chem. Technol. **18** (3) 69-71 (2004) /in Russian/.

96. *E.A.Markvicheva,* ***V.I.Lozinsky****, F.M.Plieva, K.A.Kochetkov, L.D.Rumsh, V.P.Zubov, J. Maity, R.Kumar, V.Parmar, Yu.N.Belokon.* Gel-immobilized enzymes as promising biocatalysts: results from Indo-Russian collaborative studies. Pure and Appl. Chem. **77** (1) 227-236 (2005).

97. *K.Bloch,* ***V.I.Lozinsky****, I.Yu.Galaev, K.Yavriyanz, M.Vorobeychik, D.Azarov, L.G.Damshkaln, B.Mattiasson, P.Vardi.* Functional activity of insulinoma cells (INS-1E) and pancreatic islets cultured in agarose cryogel sponges. J. Biomed. Mater. Res. **75A** (4) 802-809 (2005).

98. *T.V.Burova, N.V.Grinberg, V.Ya.Grinberg, E.V.Kalinina,* ***V.I.Lozinsky****, V.O.Aseyev, S. Holappa, H.Tenhu, A.R.Khokhlov.* Unusual conformational behavior of complexes of poly(*N*-isopropylacrylamide) with poly(methacrylic acid). Macromolecules **38** (4) 1292-1299 (2005).

99. *A.V.Bacheva, A.V.Belyaeva, E.N.Lysogorskaya, E.S.Oksenoit,* ***V.I.Lozinsky****, I.Yu. Filippova.* Biocatalytic properties of native and immobilized subtilisin 72 in aqueous-organic and low water media. J. Mol. Catal., B. Enzymatic. **32** (5-6) 253-260 (2005).

100. *R.V.Ivanov, T.A.Babushkina,* ***V.I.Lozinsky****.* Specifics of acrylamide cryopolymerisation at temperatures above and below the eutectic point of the frozen reaction system. Vysokomolekul. soed. **47A** (8) 1418-1428 (2005) /in Russian/ [*Polymer Science* ***47A*** *(8) 791-799 (2005)* /in English/].

101. *E.N.Savina, A.Hanora, F.M.Plieva, I.Yu.Galaev, B.Mattiasson,* ***V.I.Lozinsky****.* Study of cryostructuration of polymer systems. XXIV. Poly(vinyl alcohol) cryogels filled with particles of strong anion-exchanger: properties of the composite materials and potential application. J. Appl.

Polym. Sci. **95** (3) 529-538 (2005).

102. ***V.I.Lozinsky****, L.G.Damshkaln, I.N.Kurochkin, I.I.Kurochkin*. Study of cryostructuration of polymer systems. XXV. Influence of surfactants on the properties and structure of gas-filled (foamed) poly(vinyl alcohol) cryogels. Kolloind. Zhurn. **67** (5) 649-662 (2005) /in Russian/ [*Colloid Journal* ***67*** *(5) 589-601 (2005)* /in English/].

103. *A.V.Belyaeva, A.V.Bacheva, E.S.Oksenoit, E.N.Lysogorskaya,* ***V.I.Lozinsky****, I.Yu. Filippova*. Peptide synthesis in organic media with the use of subtilisin 72 immobilised on a poly(vinyl alcohol) cryogel. Bioorgan. Khim. **31** (6) 586-592 (2005) /in Russian/ [*Russian J. Bioorgan. Chem.* ***31*** *(6) 529-534 (2005)* /in English/].

104. ***V.I.Lozinsky****, I.A.Simenel, V.G.Semenova, L.E.Belyakova, V.V.Il'in, V.Ya.Grinberg, A.S. Dubovik, A.R.Khokhlov*. Properties of the protein-like copolymers of N-vinylcaprolactam and N-vinylimidazole in aqueous solutions. Vysokomolekul. soed. **48A** (4) 673-683 (2006) /in Russian/ [*Polymer Science Ser.A,* ***48*** *(4) 435-443 (2006)* /in English/].

105. *E.N.Efremenko, O.V.Spiricheva, D.V.Veremeenko, A.V.Baibak,* ***V.I.Lozinsky****.* L(+)-Lactic acid production using PVA-cryogel-entrapped *Rhizopus oryzae* fungal cells. J. Chem. Technol. Biotechnol. **81** (4) 519-522 (2006).

106. *E.Efremenko, O.Spiricheva, S.Varfolomeyev,* ***V.Lozinsky****. Rhizopus oryzae* fungus cells producing L(+)-lactic acid: kinetic and metabolic parameters of free and PVA-cryogel-entrapped mycelium. Appl. Microbiol. Biotechnol. **72** (3) 480-485 (2006).

107. *M.S.Kuyukina, I.B.Ivshina, A.Yu.Gavrin, E.A.Podorozhko,* ***V.I.Lozinsky****, C.E.Jeffree, J.C.Philp*. Immobilization of hydrocarbon-oxidizing bacteria in poly(vinyl alcohol) cryogels hydrophobized using a biosurfactant. J. Microbiol. Meth. **65** (3) 596-603 (2006).

108. ***V.I.Lozinsky****, I.A.Simenel, A.R.Khokhlov.* Catalytic properties of N-vinylcaprolactam/N-vinylimidazole "protein-like" copolymer in the reaction of ester substrate hydrolysis. Doklady Akademii Nauk **410** (4) 487-490 (2006) /in Russian/ [*Doklady Chemistry* ***410****, Part 2, 170-173 (2006)* /in English/].

109. *R.V.Ivanov,* ***V.I.Lozinsky****.* Influence of thermal pre-history of moderately frozen reaction system on the results of acrylamide cryopolymerisation. Vysokomolekul. soed. **48A** (12) 2092-2101 (2006) /in Russian/ [*Polymer Science Ser.A,* ***48*** *(12) 1232-1239 (2006)* /in English/].

110. *I.V.Bakeeva, E.P.Presnyak, M.B.Kuzimenkova, I.V.Morozova,* ***V.I.Lozinsky****, V.P.Zubov*. Macroporous hybrid cryogels. Proc. Internat. Conf. "Science and Education – 2006", Murmansk, Russian Federation, pp.377-380 (2006) /in Russian/.

111. *A.F.Vanin, N.A.Sanina, V.A.Serezhenkov, D.Sh.Burbaev,* ***V.I.Lozinsky****, S.M.Aldoshin*. Dinitrosyl-iron complexes with thiol-containing ligands: Spatial and electronic structures. Nitric Oxide: Biol. & Chem. **16** (1) 82-93 (2007).

112. *O.V.Sen'ko, O.V.Spiricheva,* ***V.I.Lozinsky****, E.Efremenko*. Immobilized biocatalyst for the remediation of fat-containing waste waters of food industry plants. Kataliz v promyshlennosti (Catalysis in Industry) (1) 55-61 (2007) /in Russian/.

113. ***V.I.Lozinsky****, I.V.Bakeeva, E.P.Presnyak, L.G.Damshkaln, V.P.Zubov.* Study of cryostructuring of polymer systems. XXVI. Heterophase organic-inorganic cryogels prepared via freezing-thawing of aqueous solutions of poly(vinyl alcohol) with added tetramethoxysilane. J. Appl. Polym. Sci. **105** (5) 2689-2702 (2007).

114. *I.Lyagin, R.Ivanov,* ***V.Lozinsky****, E.Efremenko.* Design of immobilized biocatalysts for degradation of neurotoxic organophosphorous compounds. Proc. Internat. Workshop "Bioencapsulation XV", Vienna (Austria), 2007, P2-13(1-4).

115. *O.Spiricheva, O.Senko, I.Lyagin,* ***V.Lozinsky****, S.Varfolomeev, E.Efremenko.* Lactic acid production by immobilized fungus cells *Rhizopus oryzae* scaled up to the comlex experimental system. // Proc. Internat. Workshop "Bioencapsulation XV", Vienna (Austria), 2007, P3-04(1-4).

116. *R.V.Ivanov,* ***V.I.Lozinsky****, S.K.Noh, S.S.Han, W.S.Lyoo*. Preparation and characterization of polyacrylamide cryogels produced from a high-molecular weight precursor. I. Influence of the reaction temperature and concentration of the cross-linking agent. // J. Appl. Polym. Sci. **106** (3) 1470-1475 (2007).

117. ***V.I.Lozinsky****, L.G.Damshkaln, B.L.Shaskol'skii, T.A.Babushkina, I.N.Kurochkin, I.I. Kurochkin.* Study of cryostructuring of polymer systems. XXVII. Physicochemical properties of poly(vinyl alcohol) cryogels and features of their macroporous morphology. Kolloind. Zhurn. **69** (6) 798-816 (2007) /in Russian/ [*Colloid Journal* ***69*** *(6) 747-764 (2007)* /in English/].

118. *Yu.A.Petrenko, A.Yu.Petrenko,* ***V.I.Lozinsky****, I.V.Gurin, N.A.Gorokhova, N.A.Volkova, B.P.Sandomirskii*. Culturing of stromal cells-precursors in the 3D carriers. Transplantologiya (Kyev) **9** (1) 221-223 (2007) /in Russian/.

119. *R.V.Ivanov,* ***V.I.Lozinsky****, S.K.Noh, Y.R.Lee, S.S.Han, W.S.Lyoo.* Preparation and characterization of polyacrylamide cryogels produced from a high-molecular-weight precursor. II. The influence of the molecular weight of the polymeric precursor. J. Appl. Polym. Sci. **107** (1) 382-390 (2008).

120. *E.A.Podorozhko,* ***V.I.Lozinsky****, I.B.Ivshina, M.S.Kuyukina, A.B.Krivorutchko, J.C. Philp, C.J.Cunningham.* Hydrophobised sawdust as a carrier for immobilisation of the hydrocarbon-oxidising bacterium *Rhodococcus rubber*. Bioresource Technology **99** (6) 2001-2008 (2008).

121. ***V.I.Lozinsky****, L.G.Damshkaln, I.N.Kurochkin, I.I.Kurochkin.* Study of cryostructuring of polymer systems. XXVIII. Physicochemical and morphological properties of poly(vinyl alcohol) cryogels formed via multiple freezing-thawing technique. Kolloind. Zhurn. **70** (2) 212-222 (2008) /in Russian/ [*Colloid Journal* ***70*** *(2) 189-198 (2008)* /in English/].

122. *G.A.Komarova, S.G.Starodubtsev,* ***V.I.Lozinsky****, E.V.Kalinina, K.Landfester, A.R. Khokhlov.* Intelligent gels and cryogels with entrapped emulsions. Langmuir **24** (9) 4467-4469 (2008).

123. *E.N.Lysogorskaya, T.V.Roslyakova, A.V.Belyaeva, A.V.Bacheva,* ***V.I.Lozinsky****, I.Yu. Filippova.* Preparation and catalytic properties of trypsin immobilized on cryogels of poly(vinyl alcohol). Prikladnaya Biokhimiya i Mkrobiologiya **44** (3) 270-275 (2008) /in Russian/ [*Appl. Biochem. Microbiol.* ***44*** *(3) 241-246 (2008)* /in English/].

124. ***V.I.Lozinsky****, L.G.Damshkaln, K.O.Bloch, P.Vardi, N.V.Grinberg, T.V.Burova, V.Ya. Grinberg.* Cryostructuring of polymer systems. XXIX. Preparation and characterization of supermacroporous (spongy) agarose-based cryogels used as three-dimentional scaffolds for culturing insulin-producing cell aggregates. J. Appl. Polym. Sci. **108** (5) 3046-3062 (2008).

125. *E.I.Veliev, S.V.Kotov, V.K.Shishlo, V.A.Serezhenkov,* ***V.I.Lozinsky****, A.F.Vanin.* Beneficial effect of dinitrosyl iron complexes with thiol-containing ligands on the rat penile cavernous bodies. Biofizika **53** (2) 326-335 (2008) /in Russian/ [*Biophysics **53** (2) 153-157 (2008) /in English/*].

126. *O.M.Anikina, E.N.Lysogorskaya, E.S.Oksenoit,* ***V.I.Lozinsky****, I.Yu.Filippova.* Subtilysin Carlsberg in complex with sodium dodecyl sulfate is an effective catalysts for the solid phase segment coupling of peptides on poly(vinyl alcohol) cryogel. Bioorganicheskaya khimiya **34** (3) 365-370 (2008) /in Russian/ [*Russ. J. Bioorgan. Chem. Russ. **34** (3) 329-333 (2008) /in English/*].

127. *E.Efremenko, O.Sen'ko, D.Zubaerova, E.Podorozhko,* ***V.Lozinsky****.* New biocatalyst with multiple enzymatic activities for treatment of complex food wastewaters. Food Technol. Biotechnol. **46** (2) 208-212 (2008).

128. *A.V.Belyaeva, Yu.A.Smirnova, E.N.Lysogorskaya, E.S.Oksenoit, A.V.Timofeeva,* ***V.I. Lozinsky****, I.Yu.Filippova.* Biocatalytic properties of thermolysin immobilized on poly(vinyl alcohol) cryogel. Bioorganicheskaya khimiya **34** (4) 487-494 (2008) /in Russian/ [*Russ. J. Bioorgan. Chem. **34** (4) 435-441 (2008) /in English/*].

129. *Yu.A.Petrenko, A.Yu.Petrenko, L.G.Damshkaln, N.A.Volkova,* ***V.I.Lozinsky****.* Growth and adipogenic differentiation of mesenchimal stromal bone marrow cells during culturing in 3D macroporous agarose cryogel sponges. Kletochnye Tekhnologii v Biologii I Meditsine (3) 141-144 (2008) /in Russian/ [*Bulletin of Experimental Biology and Medicine **146** (1) 129-132 (2008) /in English/*].

130. *A.Y.Petrenko, Y.A.Petrenko, A.I.Pravduk, L.G.Damshkaln,* ***V.I.Lozinsky****.* Growth and adipogenic differentiation of human mesenchymal stem cells in alginate microbeads and macroporous agarose sponges. Int. J. Artif. Organs **31** (7) 640 (2008).

131. *Yu.A.Petrenko, N.A.Volkova, E.P.Zhulikova, L.G.Damshkaln,* ***V.I.Lozinsky****, A.Yu.Petrenko.* Choice of conditions for human bone marrow stromal cells seeding into polymer macroporous sponges. Biopolmery i Kletka (Kiev) **24** (5) 399-406 (2008) /in Russian/ *[Biopolymers and Cell **24** (5) 399-405 (2008) /in English/]*.

132. *B.L.Shaskol'skiy, M.S.Fogorasi, M.D.Stanescu,* ***V.I.Lozinsky****.* Implementation of poly(vinyl alcohol) cryogels in biotechnology. VII. Composite immobilized biocatalysts containing particles of enzyme preparation entrapped in the matrix of poly(vinyl alcohol) cryogel. Biotekhnologiya (1) (2009) 71-82 /in Russian/.

133. *M.D.Stanescu, M.Fogorasi, M.Dochia, S.Mihuta,* ***V.I.Lozinsky****.* Biotechnology for textile waste valorization. Revista de Chimie **60** (1) 59-62 (2009).

134. *M.S.Kuyukina, I.B.Ivshina, M.K.Serebrennikova, A.V.Krivorutchko, E.A.Podorozhko,*

R.V.Ivanov, ***V.I.Lozinsky***. Petroleum-contaminated water treatment in a fluidized-bed bioreactor with immobilized *Rhodococcus* cells. International Biodeterioration & Biodegradation **63** (4) 427-432 (2009).

135. *L.A.Wasserman, V.G.Vasil'ev, M.V.Motyakin, W.Blaszchak, J.Fornal, L.G.Damshkaln,* ***V.I.Lozinsky****, V.P.Yuryev*. Influence of gluten and gums additives, as well as of the cryogenic treatment, on physicomechanical properties, morphology and local mobility of water in complex gels of wheat starch. Starch/Stärke **61** (7) 377-388 (2009).

136. *A.Y.Petrenko, Y.A.Petrenko, A.I.Pravduk, R.V.Ivanov*, ***V.I.Lozinsky***. Proliferation and differentiation of marrow derived mesenchymal stromal cells within alginate microbeads and cryogel sponges. Int. J. Artif. Organs **32** (7) 418 (2009).

137. *V.G.Evtyugin, A.B.Margulis, L.G.Damshkaln,* ***V.I.Lozinsky****, A.I.Kolpakov, O.N.Il'in-skaya*. Sorption of microorganisms by wide-porous agarose cryogels containing grafted aliphatic chains of different lengths. Mikrobiologiya **78** (5) 667-673 (2009) /in Russian/ [*Microbiology* ***78*** *(5) 603-608 (2009)* /in English/].

138. *M.S.Kuyukina, E.V.Rubtsova, I.B.Ivshina, R.V.Ivanov*, ***V.I.Lozinsky***. Selective adsorption of hydrocarbon-oxidizing *Rhodococcus* cells in a column with hydrophobized poly(acrylamide) cryogel. J. Microbiol. Meth. **79** (1) 76-81 (2009).

139. *I.Lyagin, R.Ivanov,* ***V.Lozinsky****, E.Efremenko, S.Varfolomeev*. Increase in stability of organophosphorous hydrolase by immobilization technique. // Proc. Internat. Workshop "Bioencapsulation XVII", Groningen (Netherlands), 2009, P26, pp.146-147.

140. *K.Bloch, A.Vanichkin, L.G.Damshkaln,* ***V.I.Lozinsky****, P.Vardi*. Vascularization of wide pore agarose-gelatin cryogel scaffolds implanted subcutaneously in diabetic and non diabetic mice. Acta Biomaterialia **6** (3) 1200-1205 (2010).

141. *M.D.Stanescu, M.Fogorasi, S.Gavrilas, B.L.Shaskolskiy*, ***V.I.Lozinsky***. New potential biocatalysts by laccase immobilization in PVA cryogel type carrier. Appl. Biochem. Biotechnol. **160** (4) 1947-1954 (2010).

142. *T.V.Burova, N.V.Grinberg,* ***V.I.Lozinsky****, S.P.Moiseeva, G.P.Kotel'nikov, V.Ya. Grinberg, A.R.Khokhlov*. Energetics of the binding of Cu(II) ions by thermosensitive copolymers of N-vinylcaprolactam and N-vinylimidazole in different conformational states of the macromolecules. Vysokomolekul. soed. **52** (4) 554-560 (2010) /in Russian/ [*Polymer Sci.* ***52A*** *(4) 356-361 (2010)* /in English/].

143. *E.A.Podorozhko, A.A.Korlyukov,* ***V.I.Lozinsky***. Cryostructuring of polymer systems. XXX. Poly(vinyl alcohol)-based composite cryogels filled with small disperse oil droplets: A gel system capable of mechanically-induced releasing of the lipophilic constituents. J. Appl. Polym. Sci. **117** (3) 1332-1349 (2010).

144. *V.V.Nikonorov, R.V.Ivanov, N.R.Kil'deeva, L.N.Bulatnikova,* ***V.I.Lozinsky***. Synthesis and characteristics of chitosan cryogels crosslinked by glutaric aldehyde. Vysokomolekul. soed. **52A** (8) 1436-1443 (2010) /in Russian/ [*Polymer Sci.* ***52A*** *(8) 828-834 (2010)* /in English/].

145. *V.V.Nikonorov, I.E.Veleshko, A.N.Veleshko, E.V.Rumyantseva,* ***V.I.Lozinsky****, R.V.*

Ivanov, S.N.Mikhailov, N.R.Kil'deeva. Preparation of chitosan-based chemical hydrogels and their application for uranium sorption. Proc. X[th] International Conference "Modern Perspectives in Chitin and Chitosan Studies", NNSU Publ., Nizhny Novgorod, Russian Federation, 2010, pp.45-49 /in Russian/.

146. *M.M.Vorob'ev, T.V.Burova, N.V.Grinberg, A.S.Dubovik, N.G.Faleev,* ***V.I.Lozinsky***. Hydration characterization of N-vinylcaprolactam polymers by absorption millimeter-wave measurements. // Colloid & Polymer Sci. **288** (14-15) 1457-1463 (2010).

147. *Yu.A.Petrenko, R.V.Ivanov,* ***V.I.Lozinsky****, A.Yu.Petrenko*. Comparison of the methods for seeding human mesenchimal stem cells to macroporous alginate cryogel carriers. Kletochnye Tekhnologii v Biologii i Meditsine (2) 225-228 (2010) /in Russian/ [*Bulletin of Experimental Biology and Medicine* ***150*** *(4) 543-546 (2011)* /in English/].

148. *V.G.Evtugyn, A.B.Margulis, O.V.Bushmanova, E.V.Nikitina, A.I.Kolpakov, L.G.Damshkaln,* ***V.I.Lozinsky****, O.N.Ilinskaya*. Hydrophobized derivatives of wide-porous poly(vinyl alcohol) cryogel: New possibilities of biotechnological implementation. Herald of the Kazan Technological University (9) 89-96 (2010) /in Russian/.

149. *I.E.Veleshko, V.V.Nikonorov, A.N.Veleshko, E.V.Rumyantseva, S.N.Mikhailov,* ***V.I. Lozinsky****, R.V.Ivanov, L.S.Gal'braikh, N.R.Kil'deeva*. Sorption of Eu(III) ions from their solutions by covalently cross-linked chitosan cryogels. Khimicheskie volokna (6) 22-26 (2010) /in Russian/ [*Fibre Chemistry* ***42*** *(6) 364-369 (2011)*].

150. *T.V.Burova, N.V.Grinberg, E.V.Kalinina, R.V.Ivanov,* ***V.I.Lozinsky****, C.Alvarez-Lorenzo, V.Y.Grinberg*. Thermoresponsive copolymer cryogel possessing molecular memory: synthesis, energetics of collapse and interaction with ligands. Macromol. Chem. Phys. **212** (1) 72-80 (2011).

151. *M.S.Kuyukina, E.V.Rubtsova, I.B.Ivshina, R.V.Ivanov,* ***V.I.Lozinsky***. Adsorption immobilization of rhodococci cells in hydrophobized derivatives of wide-porous poly(acrylamide) cryogel. Prikl. biokhim. mikrobiol. **47** (2) 176-182 (2011) /in Russian/. [*Appl. Biochem. Microbiol.* ***47*** *(2) 158-164 (2011)* /in English/]

152. ***V.I.Lozinsky****, N.G.Sakhno, L.G.Damshkaln, I.V.Bakeeva, V.P.Zubov, I.N.Kurochkin, I.I. Kurochkin*. Study of cryostructuring of polymer systems. XXXI. Influence of the additives of alkaline metals chlorides on physicochemical properties and morphology of poly(vinyl alcohol) cryogels. Kolloind. zhurn. **73** (2) 225-234 (2011) /in Russian/ [*Colloid J.* ***73*** *(2) 234-243 (2011)* /in English/].

153. *N.V.Carpova-Rodina, V.A.Andryushina, V.V.Yaderetz, A.V.Druzhinina, T.S.Stytsenko, B.L.Shaskol'skiy,* ***V.I.Lozinsky****, Luu Duc Huy, N.E.Voishvillo*. Transformation of Δ^4-3-ketosteroids by free and immobilized cells of *Rhodococcus erythropolis* actinobacterium. Prikl. biokhim. mikrobiol. **47** (4) 429-435 (2011) /in Russian/ [*Appl. Biochem. Microbiol.* ***47*** *(4) 386-392 (2011)* /in English/].

154. *N.R.Kildeeva, I.E.Veleshko, L.V.Vladimirov, P.A.Perminov, L.M.Simanenkova,* ***V.I. Lozinsky****, S.N.Mikhailov*. New materials on the basis of of the chitisan modified with aldehydes. // In: Adv. Chitin Sci., Eds. V.Varlamov, S.Bratskaya, I.Yakovleva, S.Senel. St.-Petersburg, European Chitin Society, vol. **XIII**, 138-143 (2011).

155. *Yu.A.Petrenko, R.V.Ivanov, A.Yu.Petrenko,* ***V.I.Lozinsky***. Coupling of gelatin to inner surfaces of pore walls in spongy alginate-based scaffolds facilitates the adhesion, growth and differentiation of human bone marrow mesenchymal stromal cells. // J. Mater. Sci., Mater. in Med. **22** (6) 1529-1540 (2011).

156. *V.V.Nikonorov, R.V.Ivanov, N.R.Kil'deeva,* ***V.I.Lozinsky***. Effect of polymer precursor molecular mass on the formation and properties of covalently crosslinked chitosan cryogels. Vysokomolekul. soed. **53A** (12) 2067-2076 (2011) /in Russian/ [*Polymer Sci.* ***53A*** *(12) 1150-1158 (2011)* /in English/].

157. *M.D.Stanescu, A.Stanislav, R.V.Ivanov, A.Hirtopeanu,* ***V.I.Lozinsky***. Immobilized laccase on a new cryogel carrier and kinetics of two anthraquinone derivatives oxidation. Appl. Biochem. Biotechnol. **165** (7-8) 1789-1798 (2011).

158. *N.R.Kil'deeva, I.E.Veleshko, L.V.Vladimirov, V.V.Nikonorov,* ***V.I.Lozinsky****, R.V.Ivanov, P.A.Perminov, S.N.Mikhailov*. Modification of chitosan cryogels by pyridoxal phosphate to improve sorption capability. // Khimicheskie volokna (6) 29-34 (2011) /in Russian/ [*Fibre Chemistry* ***43*** *(6) 426-432 (2012)* /in English/].

159. *E.A.Podorozhko, T.V.Vorontsova,* ***V.I.Lozinsky***. Study of cryostructuring of polymer systems. XXXII. Morphology and physico-chemical properties of composite poly(vinyl alcohol) cryogels filled with microdroplets of hydrophobic liquid. Kolloind. zhurn. **74** (1) 115-126 (2012) /in Russian/ [*Colloid J.* ***74*** *(1) 110-120(2012) /in English/*].

160. *M.D.Stanescu, S.Gavrilas, R.Ludwig, D.Haltrich,* ***V.I.Lozinsky***. Preparation of immobilized *Trametes pubensces* laccase on a cryogel-type polymeric carrier and application of the biocatalyst to apple juice phenolic compounds oxidation // Eur. Food Res. Technol. **234** (4) 655-662 (2012).

161. ***V.I.Lozinsky****, L.G.Damshkaln, I.N.Kurochkin, I.I.Kurochkin.* Study of cryostructuring of polymer systems. XXXIII. Effect of rate of chilling aqueous poly(vinyl alcohol) solutions during their freezing on physicochemical properties and porous structure of resulting cryogels. Kolloind. zhurn. **74** (3) 343-352 (2012) /in Russian/ [*Colloid J.* ***74*** *(3) 319-327(2012) /in English/*].

162. *O.E.Zaborina, M.I.Buzin,* ***V.I.Lozinsky***. // Cryopolymerization of N,N-dimethylacrylamide in moderately frozen formamide. // Vysokomolekul. soed. **54B** (6) 915-923 (2012) /in Russian/ [*Polym. Sci.* ***54B*** *(5-6) 354-361(2012) /in English/*].

163. ***V.I.Lozinsky****, L.G.Damshkaln, M.G.Ezernitskaya, Y.K.Glotova, Y.A.Antonov.* Cryostructuring of polymer systems. 35. Wide pore poly(vinyl alcohol) cryogels prepared using a combination of liquid-liquid phase separation and cryotropic gel-formation processes. // Soft Matter **8** (32) 8493-8504 (2012).

164. *E.A.Podorozhko, E.A.D'yakonova, O.Yu.Kolosova, L.F.Klabukova,* ***V.I.Lozinsky***. Study of cryostructuring of polymer systems. XXXIV. Composite poly(vinyl alcohol) cryogels filled with microparticles of polymeric dispersion // Kolloidn. zhurn. **74** (6) 744-753 (2012) /in Russian/ [*Colloid J.* ***74*** *(6) 711-719 (2012)* /in English/].

165. *G.A.Komarova, S.G.Starodubtsev,* ***V.I.Lozinsky****, I.R.Nasimova, A.R.Khokhlov*. Intelligent gels and cryogels with embedded emulsions of various oils // J. Appl. Polym. Sci. **127** (4) 2703-2709 (2013).

166. *I.B.Ivshina, M.S.Kuyukina, A.V.Krivoruchko, O.B.Naimark, O.A.Plekhov, E.A. Podorozhko,* ***V.I.Lozinsky***. Biosurfactant-enhanced immobilization of hydrocarbon-oxidizing *Rhodococcus ruber* on sawdust. // Appl. Microbiol. Biotechnol. **97** (12) 5315-5327 (2013).

167. ***V.I.Lozinsky****, L.G.Damshkaln, I.N.Kurochkin, I.I.Kurochkin*. Cryostructuring of polymeric systems. 36. Poly(vinyl alcohol) cryogels prepared from solutions of the polymer in water/low-molecular alcohol mixtures // Colloids and Surfaces, Physicochemical Aspects (2013) – submitted.

C). PATENTS

1. *V.P.Chernyshev,* ***V.I.Lozinsky****, E.I.Filippovich, R.P.Evstigneeva.* Method for the copolymer preparation. SU Pat. No. 342,865 (1970).

2. ***V.I.Lozinsky****, B.Yu.Zaslavsky, Yu.A.Davidovich, S.V.Rogozhin.* Method for the isolation of protein substances from solutions. SU Pat. No. 533,631 (1975).

3. ***V.I.Lozinsky****, B.Yu.Zaslavsky, Yu.A.Davidovich, S.V.Rogozhin.* Modified macroporous silica as an carrier for disulphide-exchange covalent chromatography and method for the preparation of this carrier. SU Pat. No. 540,870 (1975).

4. *A.V.Il'ina,* ***V.I.Lozinsky****, Yu.A.Davidovich, S.V.Rogozhin.* Macroporous silica modified by polymers as a carrier for disulphide-exchange covalent chromatography of proteins and method for the preparation of this carrier. SU Pat. No. 687,081 (1977).

5. ***V.I.Lozinsky****, V.P.Varlamov, S.V.Rogozhin.* Method for the preparation of thiol-containing sorbents. SU Pat. No. 771,106 (1978).

6. ***V.I.Lozinsky****, A.I.Gamzazade, S.V.Rogozhin, V.A.Davankov, M.P.Tsyurupa.* Cross-linked gels on the basis of chitosan. SU Pat. No. 827,492 (1978).

7. ***V.I.Lozinsky****, E.S.Vainerman, S.V.Rogozhin.* Method for the preparation of macroporous polymer materials. SU Pat. No. 1,008,214 (1982).

8. *S.V.Rogozhin,* ***V.I.Lozinsky****, S.S.Fokina, L.I.Oreshchenko, A.I.Gamzazade, V.A. Tsyryapkin,* Method for the isolation of chitin from hydrobionts. SU Pat. No. 1,022,463 (1983).

9. ***V.I.Lozinsky****, T.O.Golovina, E.S.Vainerman, S.V.Rogozhin.* Nitrophenylsulphenyl-derivative of cross-linked agarose as an chemosorbent for studying the protein-protein interactions and method for the preparation of the chemosorbent. SU Pat. No. 1,028,679 (1983).

10. *E.S.Vainerman,* ***V.I.Lozinsky****, S.V.Rogozhin, L.P.Raskina, L.A.Shapiro, V.S.Yakubovich, V.Yu.Bronshtein.* Method for the preparation of porous alginate material. SU Pat. No. 1,171,474 (1983).

11. *E.S.Vainerman,* ***V.I.Lozinsky****, S.V.Rogozhin, L.P.Raskina, L.A.Shapiro, V.S.Yakubovich,*

M.B.Shenker, A.L.Komissarova, V.D.Potapov, V.M.Gudochkova, N.M.Atyasova, G.A.Ivanova. Method for the preparation of porous material possessing the wound-healing ability. SU Pat. No. 1,171,476 (1983).

12. *V.I.Duda, V.I.Krivenko, S.V.Rogozhin,* ***V.I.Lozinsky****, A.M.Mamtsis, E.S.Vainerman, L.V. Domotenko, M.I.Shtil'man, S.A.Ivanova.* Method for the preparation of solid nutritional medium for the culturing of microorganisms. SU Pat. No. 1,213,069 (1983).

13. *N.G.Faleev,* ***V.I.Lozinsky****, M.S.Sadovnikova, E.S.Vainerman, S.B.Ruvinov, R.M.Safiullin, V.M.Belikov, S.V.Rogozhin.* Method for the preparation of the fluorine-derivatives of L-tyrosine. SU Pat. No. 1,351,971 (1986).

14. *S.V.Rogozhin,* ***V.I.Lozinsky****, V.K.Kulakova, E.S.Vainerman, A.I.Gamzazade, V.M.Bykova, S.V.Nemtsev, E.I.Lobova.* Method for the preparation of chitosan. SU Pat. No. 1,363,831 (1986).

15. *E.I.Rainina,* ***V.I.Lozinsky****, I.A.Galkina, S.A.Morozova, E.S.Vainerman, A.P.Sinitsyn, M.I. Shtil'man, S.V.Rogozhin.* Method for the preparation of immobilized yeast cells, which are used for ethanol production. SU Pat. No. 1,387,412 (1986).

16. ***V.I.Lozinsky****, E.S.Vainerman, S.V.Rogozhin.* Method for the obtaining of immobilized cells. SU Pat. No. 1,400,071 (1986).

17. *I.M.Tavobilov,* ***V.I.Lozinsky****, R.G.Manolov, E.S.Vainerman, S.I.Bezborodova, S.V. Rogozhin, A.M.Bezborodov.* Method for the culturing of mycelium fungi capable of producing ribonucleases. SU Pat. No. 1,405,310 (1986).

18. *S.V.Rogozhin, B.B.Egorov, N.A.Shubina,* ***V.I.Lozinsky****, L.M.Kramar, E.S.Vainerman, A.F.Vasil'chenko, A.M.Mamtsis, O.P.Buadze.* Method for the preparation of micro-carriers for the culturing anchorage-dependent cells - "Cytogel". SU Pat. No. 1,412,294 (1986).

19. *I.V.Alexandrova, E.S.Vainerman, L.V.Domotenko, A.E.Epifanov, N.P.Kruglova,* ***V.I. Lozinsky****, A.M.Mamtsis, O.M.Morozova, V.V.Nikolaeva, S.V.Rogozhin, A.P.Chulanova.* Method for the culturing of isolated tissues and cells of plants capable to produce the biologically active substances. SU Pat. No. 1,438,236 (1986).

20. *S.V.Rogozhin, S.N.Egorov,* ***V.I.Lozinsky****, L.V.Gavrilenko, E.S.Vainerman, I.N.Semenova.* Method for the production of acid phosphatase by the yeast *Saccharomyces cerevisiae*. SU Pat. No. 1,505,972 (1986).

21. *M.I.Shtil'man, L.A.Denisova, G.Yu.Ostaeva, IA.Donetsky, V.V.Kondaryuk, O.A. Pchelintseva,* ***V.I.Lozinsky****, E.S.Vainerman, S.V.Rogozhin.* Polymeric reagent for the covalent immobilization of serum albumin. SU Pat. No. 1,531,440 (1987).

22. *E.N.Arzumanov, G.P.Alebian, P.V.Tozalakian,* ***V.I.Lozinsky****, E.S.Vainerman, S.V.Rogozhin, M.I.Shtil'man.* Method for the preparation of L-aspartic acid. SU Pat. No. 1,559,716 (1988).

23. *E.N.Arzumanov, G.P.Alebian, P.V.Tozalakian, M.V.Mkrtchian,* ***V.I.Lozinsky****, E.S. Vainerman, S.V.Rogozhin.* Method for the preparation of L-alanine. SU Pat. No. 1,559,719 (1988).

24. *V.I.Rainina,* ***V.I.Lozinsky****, G.P.Bachurina, T.A.Makhlis, A.P.Sinitsyn, E.S.Vainerman, A.M.Morozov, A.B.Badalov, A.A.Kleysov, S.V.Rogozhin.* Method for the production of ethanol. SU Pat. No. 1,589,627 (1986).

25. *S.V.Rogozhin, E.S.Vainerman, N.M.Pichugin, Yu.K.Kirilenko,* ***V.I.Lozinsky****, A.M. Kosolapov, T.V.Gnezdilova, S.D.Chumakov, R.K.Aboyants, L.P.Istranov.* Method for the preparation of collagen material. SU Pat. No. 1,603,723 (1988).

26. *S.V.Rogozhin, V.G.Cheverev, E.S.Vainerman,* ***V.I.Lozinsky****, V.E.Gagarin, V.V.Torbin, E.N.Barkovskaya, V.I.Panchenko, V.V.Rogov.* Method for the preparation of an artificial ice. SU Pat. No. 1,649,219 (1989).

27. *S.V.Rogozhin, N.M.Pichugin, E.S.Vainerman, T.V.Gnezdilova, Yu.K.Kirilenko,* ***V.I. Lozinsky****, S.D.Chumakov.* Method for the preparation of collagen material. SU Pat. No. 1,653,318 (1988).

28. *S.V.Rogozhin, N.M.Pichugin, E.S.Vainerman, T.V.Gnezdilova, Yu.K.Kirilenko,* ***V.I. Lozinsky****, S.D.Chumakov.* Method for the preparation of collagen-containing material. SU Pat. No. 1,678,021 (1988).

29. ***V.I.Lozinsky****, E.S.Vainerman, S.V.Rogozhin, E.N.Barkovskaya, B.N.Razbegin, A.A. Chapaev, R.V.Maksimyak.* Method for the fixation of a thawed ground. SU Pat. No. 1,705,500 (1990).

30. ***V.I.Lozinsky****, T.V.Gnezdilova, E.S.Vainerman, S.V.Rogozhin.* Method for the preparation of collagen-containing material. SU Pat. No. 1,769,539 (1989).

31. ***V.I.Lozinsky****, A.L.Zubov.* Device for the formation of spherical granules on the basis of aqueous systems. Russ. Pat. No. 2,036,095 (1992).

32. ***V.I.Lozinsky****, T.V.Gnezdilova.* Method for the preparation of fungous collagen-containing material. Russ. Pat. No. 2,053,796 (1992).

33. *A.L.Zubov,* ***V.I.Lozinsky****.* Method for the preparation of granulated artificial bait. Russ. Pat. No. 2,054,254 (1992).

34. ***V.I.Lozinsky****, A.L.Zubov.* Method for the preparation of poly(vinyl alcohol) cryogels. Russ. Pat. No. 2,070,901 (1992).

35. *O.I.Mikhalev, A.N.Petrov, T.V.Genzdilova,* ***V.I.Lozinsky****, M.V.Alfimov.* Method for the preparation of collagen-containing material. Russ. Pat. No. 2,008,362 (1992).

36. ***V.I.Lozinsky****, I.A.Simenel, A.V.Chebyshev.* Method for the production of porous polymeric materials. Russ. Pat. No. 2,035,476 (1994).

37. ***V.I.Lozinsky****, N.R.Konstantinova, N.I.Solov'eva.* Method for the preparation of porous protein gel. Russ. Pat. No. 2,058,083 (1994).

38. *I.I.Korolenko,* ***V.I.Lozinsky****, A.V.Sobolev, A.V.Fesenko, A.V.Chebyshev, K.K.Chuiko, A.V.*

Shumilkin. Method for the determination of toxic substances in gaseous mixtures. Russ. Pat. No. 2,066,449 (1994).

39. ***V.I.Lozinsky****, A.L.Zubov.* Method for the preparation of macroporous polymeric material. Russ. Pat. No. 2,078,099 (1994).

40. *M.A.Pusheva, A.N.Ryabokon', E.I.Rainina, E.I.Detkova, A.L.Zubov,* ***V.I.Lozinsky****, S.D. Varfolomeev, G.A.Zavarzin.* Microbial method for the preparation of acetate. Russ. Pat. No. 2,080,388 (1994).

41. ***V.I.Lozinsky****, A.L.Zubov.* Set-up for the formation of granules. Russ. Pat. No. 2,104,866 (1996).

42. *E.V.Kalinina, N.N.Semenova, S.V.Rogozhin,* ***V.I.Lozinsky****.* Method for the preparation of porous-fibrous material. Russ. Pat. No. 2,116,350 (1995).

43. *E.A.Podorozhko, V.K.Kulakova, E.I.Kurskaya,* ***V.I.Lozinsky****.* Method for the obtaining of porous collagen-containing material. Russ. Pat. No. 2,116,801 (1995).

44. *E.A.Podorozhko, L.M.Andreeva, E.A.Kurskaya,* ***V.I.Lozinsky****.* Method for the preparation of porous protein texturate. Russ. Pat. No. 2,118,495 (1997).

45. ***V.I.Lozinsky****, F.M.Plieva, E.I.Isaeva, A.L.Zubov.* Method for the concentrating of viruses. Russ. Pat. No. 2,130,069 (1997).

46. ***V.I.Lozinsky****, R.V.Ivanov, E.V.Kalinina.* Method for the preparation of polyacrylamide. Russ. Pat. No. 2,196,780 (2001).

47. ***V.I.Lozinsky****, I.N.Savina, V.A.Davankov.* The composition for the preparation of poly(vinyl alcohol) cryogel and the method for the cryogel producing. Russ. Pat. No. 2,190,644 (2001).

48. *B.Mattiasson, I.Galaev,* ***V.Lozinsky****, F.Plieva.* Macroporous gel, its preparation and use. Swedish Pat. No. 165854 (2001); WO 2003/041830.

49. *B.Mattiasson, I.Galaev,* ***V.Lozinsky****, F.Plieva.* Separation medium, its preparation and its use. Swedish Pat. No. 165872 (2001); WO 2003/031014.

50. ***V.I.Lozinsky****, L.G.Damshkaln, F.M.Plieva, I.Yu.Galaev, B.Mattiasson.* The polymeric composition for the preparation of macroporous agarose gel and the method for the gel producing. Russ. Pat. No. 2,220,987 (2001).

51. ***V.I.Lozinsky****, L.G.Damshkaln, N.V.Reznikova.* Biocatalyst and its preparation method. Russ. Pat. No. 2,233,327 (2002).

52. *E.N.Efremenko, O.V.Spiricheva, S.D.Varfolomeev, S.P.Sineoky, A.V.Baibak,* ***V.I. Lozinsky****.* Immobilized biocatalyst, its preparation method and method for production of lactic acid with the use of this biocatalyst. Russ. Pat. No. 2,253,677 (2002).

53. *N.N.Martynenko, I.M.Gracheva, G.I.El-Registan, A.L.Zubov,* ***V.I.Lozinsky****.* Method of

the preparation of biocatalyst for production of alcohol-containing sparking drinks. Russ. Pat. No. 2,239,658 (2003).

54. ***V.I.Lozinsky***, *L.G.Damshkaln.* Polymeric composition for the preparation of poly(vinyl alcohol) cryogel. Russ. Pat. No. 2,252,945 (2003).

55. *A.F.Vanin,* ***V.I.Lozinsky***, *V.I.Kapel'ko*. Polymeric composition for the preparation of stabilized form of dinitrozyl iron complex and method for the preparation of aforementioned form of the complex. Russ. Pat. No. 2,291,880 (2005).

56. *E.A.Podorozhko, M.S.Kuyukina, I.B.Ivshina, J.C.Philp,* ***V.I.Lozinsky***. Composition for the preparation of carrier of immobilized microorganisms capable of destructing of hydrocarbons and the method for the carrier preparation. Russ. Pat. No. 2,298,033 (2005).

57. *E.N.Efremenko, O.V.Sen'ko, O.V.Spiricheva, S.D.Varfolomeev,* ***V.I.Lozinsky***. Immobilized biocatalyst for the bioremediation of fat-containing waste waters and its preparation method. Russ. Pat. No. 2,315,102 (2006).

58. ***V.I.Lozinsky***, *E.A.Podorozhko.* Composition for the preparation of oil-filled cryogel of poly(vinyl alcohol), the method for the preparation of this cryogel and the oil-filled cryogel itself. Russ. Pat. No. 2,326,908 (2006).

59. *G.V.Kotel'nikov, S.P.Moiseeva, V.Ya.Grinberg, T.V.Burova,* ***V.I.Lozinsky***, *A.R.Khokhlov.* Capillary differential titration calorimeter. Russ. Pat. No. 2,335,743 (2007).

60. *G.V.Kotel'nikov, S.P.Moiseeva, V.Ya.Grinberg, T.V.Burova,* ***V.I.Lozinsky***, *A.R.Khokhlov.* Capillary compensated differential titration calorimeter. Russ. Pat. No. 2,335,744 (2007).

61. ***V.I.Lozinsky***, *R.V.Ivanov, D.V.Kravchenko, A.A.Ivaschenko*. Composition for making dosage form with prolonged effect and method of making said form. Russ. Pat. No. 2,363,451 (2007).

62. ***V.I.Lozinsky***, *R.V.Ivanov, Ya.V.Lavrovsky, A.A.Ivaschenko*. Parenteral preparation and method for making thereof. Russ. Pat. No. 2,367,472 (2008).

63. *M.M.Shmarov, I.L.Tutykhina, D.Yu.Logunov, E.A.Tokarskaya, B.S.Naroditsky, L.G.Damshkaln, R.V.Ivanov,* ***V.I.Lozinsky***. Method of virus replication. Russ. Pat. No. 2,381,272 (2008).

64. *E.N.Efremenko, O.V.Sen'ko, O.V.Spiricheva, S.D.Varfolomeev, B.L.Shaskol'skiy,* ***V.I. Lozinsky***. Immobilized biocatalyst for microbiological production of pectinases. Russ. Pat. No. 2,383,618 (2008).

65. *E.N.Efremenko, N.V.Zav'yalova, I.V.Lyagin, O.V.Sen'ko, D.A.Gudkov, A.V.Aksenov, N.A. Steranov, M.S.Sirotkina, O.V.Spiricheva, R.V.Ivanov,* ***V.I.Lozinsky***, *S.D.Varfolomeev, V.B. Kondrat'ev, V.I.Kholstov*. Method for the biodestruction of organophosphate compounds in the composition of reaction masses formed as a result of chemical extermination of the Vx-type substances. Russ. Pat. No. 2,408,724 (2009).

66. *R.V.Ivanov,* ***V.I.Lozinsky***, *K.V.Balakin, S.O.Bachurin*. Pharmaceutical composition based on hydrogenated pyrido(4,3-b)indole for treatment of neurodegenerative diseases, method

for preparation of the composition and pharmacological dosage form on the basis of this composition. Russ. Pat. No. 2,428,185 (2009).

67. ***V.I.Lozinsky****, O.E.Zaborina.* Process for the preparation of cross-linked hydrophilic polymer exhibiting superabsorbent properties. Russ. Pat. No. 2,467,017 (2011).

68. *D.R.Yarullina, L.G.Damshkaln, R.O.Mikheeva, O.N.Il'inskaya,* ***V.I.Lozinsky***. Complex probiotic preparation and the process of its creation. Positive decision from 13.03.2013 on the Russ. Patent Appl. No. 2012-129621 (2012).

69. *V.A.Andryushina, A.N.Ryabev, A.V.Druzhinina, E.A.Podorozhko, N.V.Karpova, T.S. Stytsenko, V.V.Yaderets,* ***V.I.Lozinsky***. Immobilized biocatalyst for microbial biotransforming of steroid compounds. Russ. Pat. Appl. No. 2013124087 (035534) from 27.05.2013 – submitted.

D). REPORTS AT THE CONFERENCES

1. "Methods for Preparation and Analysis of Biochemical Substances" (Riga, USSR; 1977).

2. "Molecular Liquid Chromatography" (Dzerzhinsk, USSR; 1979).

3. "Methods for Preparation and Analysis of Biochemical Substances" (Riga, USSR; 1979).

4. "Polymers-80" (Varna, Bulgaria; 1980).

5. "Chemistry of Low Temperatures" (Moscow, USSR; 1982).

6. "Methods for Preparation and Analysis of Biochemical Substances" (Riga, USSR; 1982).

7. "Physical Chemistry of Structured Food Proteins" (Tallinn, USSR; 1983).

8. "Enzyme Engineering" (Kiev, USSR; 1983).

9. "Scanning Electron Microscopy" (Zvenigorod, USSR; 1984).

10. "Theory and Applied Problems of Cryobiology" (Kharkov, USSR; 1984).

11. "Processes of Gel-Formation in Polymer Systems" (Saratov, USSR; 1985).

12. "High Molecular Weight Compounds" (Alma-Ata, USSR; 1985).

13. "Chemistry of Low Temperatures" (Moscow, USSR; 1985).

14. "Enzyme Engineering" (Kobuleti, USSR; 1985).

15. "Biosynthesis of Enzymes by Microorganisms" (Kobuleti, USSR; 1986).

16. "Inter-Biotech" (Varna, Bulgaria; 1986).

17. "Biosynthesis of Secondary Metabolites" (Puschino, USSR; 1987).

18. "IUPAC Macromolecular Symposium MACRO'87" (Merseburg, GDR; 1987).

19. "Synthesis, Structure and Properties of Polymeric Networks" (Zvenigorod, USSR; 1988).

20. "Amino acids" (Yerevan, USSR; 1988).

21. "Actual Problems of Development the Medico-Biotechnological Preparations" (Makhachkala, USSR; 1988).

22. "Chemistry of Low Temperatures" (Moscow, USSR; 1988).

23. "Biosynthesis of Enzymes by Microorganisms" (Tashkent, USSR; 1988).

24. "Non-Traditional Methods of Polymer Synthesis" (Alma-Ata, USSR; 1990).

25. "Bioanalytical Methods" (Prague, ČSSR; 1990).

26. "Networks-91" (Moscow, USSR; 1991).

27. The 15th International Congress on Biochemistry (Jerusalem, Israel; 1991).

28. The 15th International Specialized Symposium on Yeasts (Riga, Lithuania; 1991).

29. "Chemistry of Low Temperatures" (Moscow, USSR; 1991).

30. "Enzyme Engineering" (Moscow, USSR; 1991).

31. "Enzyme Engineering" (Kaunas, USSR; 1988; Moscow, USSR; 1991).

32. "Advances of Modern Cryobiology" (Kharkov, Ukraine; 1992).

33. The 29th Annual Meeting Society of Cryobiology (Ithaha, USA; 1992).

34. "International Symposium on Biosensors" (Moscow, Russian Federation, 1992).

35. The 82rd Events of European Federation of Biotechnologists "BIOBALT'92" (Tallinn, Estonia, 1992).

36. The 8th International Symposium on Yeasts (Atlanta, USA, 1992).

37. The 6th European Congress on Biotechnology (Florence, Italy, 1993).

38. "Food Macromolecules and Colloids" (Dijon, France, 1994).

39. The 35th IUPAC Symposium on Macromolecules "MACRO'94" (Akron, USA, 1994).

40. "Low Temperature Chemistry" (Moscow, Russian Federation, 1994).

41. "Food Hydrocolloids" (Columbus, USA, 1994).

42. The 7th European Congress on Biotechnology (Nice, France, 1995).

43. "Nano-Structures and Self-Assembles in Polymer Systems" (St.Petersburg-Moscow, Russian Federation, 1995).

44. "Food Freezing" (York, Great Britain, 1995).

45. "High-Swelling Gels" (Prague, The Czech Republic, 1995).

46. "Biocatalysis'95" (Suzdal, Russian Federation, 1995).

47. "Europhysical Conference on Gels" (Balatonszeplak, Hungary, 1995).

48. "Immobilized Cells" (Noordwijkerhout, The Netherlands, 1995).

49. "Low Temperature Chemistry" (Kansas City, USA, 1996).

50. "Polymer Networks'96" (Doorn, The Netherlands, 1996).

51. "Bioencapsulation V" (Potsdam, Germany, 1996).

52. "Bioencapsulation VI" (Barcelona, Spain, 1997).

53. "Perspectives in Interfacial Areas of Chemistry and Biology" (Dehli, India, 1998).

54. "Biocatalysis'98" (Puschino, Russian Federation, 1998).

55. "Polymer Networks 98" (Trondheim, Norway, 1998).

56. "Biomedical Application of Water-Soluble Polymers and Hydrogels" (Boston, USA, 1998).

57. "Colloid Chemistry and Physical-Chemical Mechanics" (Moscow, Russian Federation, 1998).

58. "Bioencapsulation VIII" (Trondheim, Norway, 1999).

59. "Enzymes in Heteroatom Chemistry. Green Solutions for Chemical Problems" (Berg en Dal near Nijmegen, The Netherlands, 1999).

60. "Chemistry and Biotechnology of Food Substances" (Moscow, Russian Federation, 1999).

61. "Trends in Chemical Sciences" (Delhi, India, 2000).

62. "Trends in Medical Chemistry and Biocatalysis" (Delhi, India, 2000).

63. "Biocatalysis-2000" (Moscow, Russian Federation, 2000).

64. The 26th European Peptide Symposium (Montpellier, France, 2000).

65. "Enzymology, Molecular Biology and Biogeochemistry of Thermophiles" (Petropavlovsk-Kamchatsky, Russian Federation, 2000).

66. "Bioencapsulation XI" (Warshaw, Poland, 2001).

67. "BioTrans 2001" (Darmstadt, Germany, 2001).

68. "Peptido- and proteino-mimetics" (Spa, Belgium, 2001).

69. "Starch and Starch Containing Origins – Structure, Properties and New Technologies" (Moscow, Russian Federation, 2001).

70. "Catalysis and Fine Chemicals" (Tokyo, Japan, 2001).

71. "Biocatalysis 2002" (Moscow, Russian Federation, 2002).

72. "Current Problems of the Chemistry of High-Molecular-Weight Compounds: High Efficient and Egologically Safety Processes for the Synthesis of Natural and Synthetic Polymers, As Well As of Materials on Their Basis" (Ulan-Ude, Russian Federation, 2002).

73. "Biocat 2002" (Hamburg, Germany, 2002).

74. "From Basic Science to New Technologies. Chemistry and Biotechnology of Biologically Active Substances, Foodstuffs and Additives. Ecologically-Friendly Technologies" (Tver, Russian Federation, 2002).

75. The 12th International Biodeterioration and Biodegradation Symposium "Biosorption and Bioremediation III" (Prague, Czech Republic, 2002).

76. The 1st International Biotechnological Congress "Biotechnology – State of the Art and Trends of Development" (Moscow, Russian Federation, 2002).

77. The 10th All-Russian Conference "Structure and Dynamics of Molecular Systems" (Yalchik, Russian Federation; 2003).

78. Russian Symposium on Chemistry and Biology of Peptides (Moscow, Russian Federation; 2003).

79. The 3rd International Symposium on Separations in BioSciences "SBS 2003 – 100 Years of Chromatography" (Moscow, Russian Federation, 2003).

80. The 1st International Seminar "Preparation and Application of Advanced Poly(vinyl alcohol)" (Kyongsan, S.Korea, 2003).

81. The 12th International Conference on Biopartitioning and Purification (Vancouver, Can-

ada, 2003).

82. The 2nd European Bioremediation Conference (Chania, Crete, Greece, 2003).

83. The 2nd International Congress "Biotechnology: State of the Art and Prospects of Development" (Moscow, Russian Federation, 2003).

84. The 3rd Russian Kargin Conference "Polymers-2004" (Moscow, 2004).

85. All-Russian Conference "Biotechnology of Microbes" (Moscow, 2004).

86. The 3rd Russian Kargin Conference "Polymers-2004" (Moscow, Russian Federation, 2004).

87. "Modern Trends in Organoelement and Polymer Chemistry" (Moscow, Russian Federation, 2004).

88. "Application of Immobilisation/Bioencapsulation in Medicine, Pharmacy, Food Technology and Biotechnology" (Belgrade, Serbia & Montenegro, 2004).

89. World Polymer Congress "MACRO 2004" (Paris, France, 2004).

90. The 10th International Symposium on Microbial Ecology (ISME-10) Microbial Planet: Sub-Surface to Space. (Cancun, Mexico, 2004).

91. International Workshop "Bioencapsulation XII" (Vitoria, Spain, 2004).

92. The 3rd Internatinal and 28th European Peptide Symposium (Prague, Czech Republic, 2004).

93. The 2nd Russian Symposium on Chemistry and Biology of Peptides (St.Petersburg, 2005).

94. Small Polymer Congress (Moscow, Russian Federation, 2005).

95. The 3rd International Congress "Biotechnology: State of the Art and Prospects of Development" (Moscow, Russian Federation, 2005).

96. The 1st International Symposium "Preparation of Functional Polymer Gels" (Kyongsan, S.Korea, 2005).

97. "European Polymer Congress – 2005" (Moscow, Russian Federation, 2005).

98. The 6th International Conference "Environmental Pollution" (Perm-Kazan, Russian Federation, 2005).

99. The 28th European Peptide Symposium (Tel-Aviv, Israel, 2005).

100. The 2nd International Conference "Microbial Diversity: Current Situation, Conservation Strategy and Biotechnological Potentialities" (Perm-Kazan-Perm, Russian Federation,

2005).

101. The 2nd FEMS Congress of European Microbiologists (Madrid, Spain, 2006).

102. The 2nd International Congress on Bioprocesses in Food Industries (Patras, Greece, 2006).

103. International Conference "Science & Education – 2006" (Murmansk, Russian Federation, 2006).

104. The 6th International Conference on Low Temperature Chemistry (Chernogolovka, Russian Federation, 2006).

105. International Conference "29th European Peptide Symposium" (Gdansk, Poland, 2006).

106. International Symposium "Polyelectrolytes 2006" (Dresden, Germany, 2006).

107. International Conference "Fundamental and Applied Problems of Modern Chemistry in Investigations of Young Scientists" (Astrakhan', Russian Federation, 2006).

108. International Conference "Microbial Biotechnologies" (Odessa, Ukraine, 2006).

109. International Conference "Genetics of Microorganisms and Biotechnology" (Moscow-Puschino, Russian Federation, 2006).

110. The 4th All-Russian Kargin's Conference "Polymer Science for the 21st Century" (Moscow, Russian Federation, 2007).

111. The 4th International Congress "Biotechnology: State of the Art and Prospects of Development" (Moscow, Russian Federation, 2007).

112. International Scientific-Practical Interdisciplinary Workshop "New Technology in Medicine and Experimental Biology" (Pattaya-Bangkok, Thailand, 2007).

113. The 15th International Conference on Starch (Moscow, Russia, 2007).

114. "European Polymer Congress – 2007" (Portoroz, Slovenia, 2007).

115. International Workshop "Bioencapsulation XV" (Vienna, Austria, 2007).

116. International Conference "New Technologies in Biology and Medicine" (Rostov-on-Don, Russian Federation, 2007).

117. International Conference "New Information Technology in Medicine, Pharmacology, Biology and Ecology (Gurzuf, Ukraine, 2007).

118. The 18th Mendeleev's Congress on General and Applied Chemistry (Moscow, Russian Federation, 2007).

119. The 13th European Congress on Biotechnology (Barcelona, Spain, 2007).

120. The 2nd Ukrainian Congress for Cell Biology (Kyiv, Ukraine, 2007).

121. All-Russian Conference "Fundamental Sciences for Novel Drugs" (Moscow, Russian Federation, 2008).

122. All-Russian Conference "Food and Marine Biotechnology" (Svetlogorsk, Russian Federation, 2008).

123. The 14th International Starch Convention Cracow-Moscow (Cracow, Poland, 2008).

124. The 3rd International Conference on Colloid Chemistry and Physicochemical Mechanics (Moscow, Russian Federation, 2008).

125. International Conference "Innovative Technologies in Transplantation of Organs, Tissues and Cells" (Samara, Russian Federation, 2008).

126. The 35th Annual ESAO Congress (Geneva, Switzerland, 2008).

127. The 6th International Conference "Current State and Prospects of Microbiology and Biotechnology Development (Minsk, Republic Belorus', 2008).

128. The 3rd International Conference "Microbial Diversity: Current Situation, Conservation Strategy and Biotechnological Potential" (Perm' – N.Novgorod, Russian Federation, 2008).

129. The 9th International Conference"Modern Perspectives in Chitin and Chitosan Studies" (Stavropol, Russian Federation, 2008).

130. The 2nd EuCheMS Chemistry Congress (Torino, Italy, 2008).

131. The 14th International Symposium on Biodeterioration and Biodegradation (Messina, Italy, 2008).

132. "Novel Cryobiotechnologies for Solving the Fundamental and Applied Tasks of Medicine" (Kharkov, Ukraine, 2008).

133. The 8th Annual International Youth Conference "Biochemical Physics" (Moscow, Russian Federation, 2008).

134. The 2nd International Conference "Biocatalysis in Non-Conventional Media" (Moscow, Russian Federation, 2008).

135. The 4th Congress of the Russian Society of Biochemists and Molecular Biologists (Novosibirsk, Russian Federation, 2008).

136. The 12th International Puschino School "Biology – Science of the XXI Century" (Puschino, Russian Federation, 2008).

137. The 4th All-Russian Conference "Physical Chemistry of Polymer Processing" (Ivanovo,

Russian Federation, 2009).

138. All-Russian Symposium "Culturing Cells as the Basis of Cell Technologies" (St.-Petersburg, Russian Federation, 2009).

139. The 14th International Conference "Microbial Enzymes in Biotechnology and Medicine" (Kazan, Russian Federation, 2009).

140. The 17th International Starch Convention (Moscow, Russian Federation, 2009).

141. The 9th International Adenovirus Meeting (Dobogókö, Hungary, 2009).

142. The 4th World Congress on Regenerative Medicine "Current Regenerative Medicine 2009" (Bangkok, Thailand, 2009).

143. The 16th All-Russian Conference "Structure and Dynamics of Molecular Systems" (Yoshkar-Ola, Russian Federation, 2009).

144. The 16th Romanian International Conference on Chemistry and Chemical Engineering (Sinaia, Romania, 2009).

145. International Workshop "Bioencapsulation XVII" (Groningen, Netherlands, 2009).

146. "COST 928" 3rd Annual Meeting (Krakow, Poland, 2009).

147. International Conference "Biocatalysis-2009: Fundamentals & Applications" (Arkhangelsk, Russian Federation, 2009).

148. The 14th European Congress on Biotechnology (Barcelona, Spain, 2009).

149. The 9th International Conference of the European Chitin Society (Venice, Italy, 2009).

150. The 4th All-Russian Symposium "Actual Problems of Tissue and Cell Transplantology" (St.-Petersburg, Russian Federation, 2010).

151. The 4th All-Russian Kargin's Conference "Polymers–2010" (Moscow, Russian Federation, 2010).

152. The 5th All-Russian Congress of Transplantologists (Moscow, Russian Federation, 2010).

153. The Moscow International Scientific and Practical Conference "Biotechnology: Ecology of Big Cities" (Moscow, Russian Federation, 2010).

154. The 10th International Conference "Modern Perspectives in Chitin and Chitosan Studies" (Nizhny Novgorod, Russian Federation, 2010).

155. The 8th International Conference on Low Temperature Chemistry (Yerevan, Armenia, 2010).

156. The 7th International Conference of the Chemical Societies of the South-Eastern European Countries "Chemistry – Beauty and Application" (Bucharest, Romania, 2010).

157. International Conference "Genetic and Regenerative Medicine: Problems and Prospects" (Kiev, Ukraine, 2010).

158. The 10th International Conference of the European Chitin Society (St.-Petersburg, Russian Federation, 2011).

159. International Conference on Chemical Technology "ChT'12" (Moscow, Russian Federation, 2012).

160. 14th Young Scientists Conference on Chemistry (Rostock, Germany, 2012).

161. All-Russian Conference "Actual Problems of Polymer and Biopolymer Physics" (Moscow, Russian Federation, 2012).

162. Xth International Congress of Young Chemists 'YoungChem 2012' (Gdansk, Poland, 2012).

163. International Conference "Actual Problems of Cryobiology and Cryomedicine" (Kharkov, Ukraine, 2012).

164. IVth International Conference of the D.I.Mendeleev Russian Chemical Society "Chemical Technology and Biotechnology of New Materials and Products" (Moscow, Russian Federation, 2012).

165. VIIth International Congress "Biotechnology: State of the Art and prospects of development" (Moscow, Russian Federation, 2013).

166. IVth International Conference on Colloid Chemistry and Physicochemical Mechanics (Moscow, Russian Federation, 2013).