INSTITUTE OF MACROMOLECULAR CHEMISTRY
ACADEMY OF SCIENCES OF THE CZECH REPUBLIC

**UNESCO/IUPAC Postgraduate Course in Polymer Science**

# List of papers

The following is the list of papers contributed by Course graduates and related to their work at the Institute in the frame of the UNESCO/IUPAC Postgraduate Course program and follow-up co-operation between the graduates and the Institute. The list includes papers published during the period September 1996 – December 2005.

Authors – Course graduates cited in the list:
**Andreeva** D. V., **Aldea** G., **Azanova** V. V., **Benedyk** N., **Blinova** N. V., **Bogdan** E., **Chaikivskyy** O., **Chekina** N., **Dolgoshey** V. B., **Dukh** O., **Duncianu** N. C., **Fedorova** S., **Fedorov** A., **Gantchev** B., **Gorbacheva** O., **Hitruc** G. E., **Jasinski** W., **Kassalainen** G., **Konyushenko** E. N., **Korostyatynets** V., **Koshets** I. A., **Lutecki** M., **Malinova** V., **Malinowska** A., **Mamytbekov** G., **Mancheva** I., **Maslyk-Walczak** M., **Mihailova** M., **Mitchenko** A., **Mokreva** P., **Munteanu** B., **Nedkov** T. E., **Petkova** G. A., **Pochekailov** S., **Rangelov** S., **Razina** A. B., **Rosova** E. Yu., **Sapurina** I., **Semenyuk** N., **Shapoval** P., **Solovyev** A., **Staneva** M., **Strachotová-Hausner** B., **Sulimenko** T., **Titkova** L., **Todorova** G., **Uchman M.**, **Zaporozhets** T., **Zhivkov** I., **Zintchenko** A.

The items are organized according to the names of the Course graduates in the alphabetical order.

**Original papers published in international journals (89):**

**Aldea G.**, Výprachtický D., Cimrová V.: **Modification of poly(styrene-*alt*-maleic anhydride) with 1,3,4-oxadiazole units for electroluminescent devices.** Macromol. Symp.212, 523-528 (2004)

**Andreeva D. V.**, Pientka Z., Brožová L., Bleha M., Polotskaya G. A. Elyashevich G. K.: **Effect of polymerization conditions of pyrrole on formation, structure and properties of high gas separation thin polypyrrole films.** Thin Solid Films 406, 54–63 (2002)

**Azanova V. V.,** Hradil J.: **Sorption properties of macroporous and hypercrosslinked copolymers.** React. Funct. Polym. 41, 163–175 (1999)

**Azanova V. V.**, Podlesnyuk V. V., Hradil J.: **Sorption of phenol by simple and modified 2,3-epoxypropyl methacrylate-vinylpyrrolidone copolymers.** Nauk. Zap., Kiiv. Derzh. Univ. 18, 35–39 (2000)

**Azanova V. V.**, Podlesnyuk V. V., Hradil J.: **Sorption of phenols derivatives on macroporous 2,3-epoxypropyl methacrylate-*N*-vinylpyrrolidone-ethylene dimethacrylate copolymers.** Nauk. Zap., Kiiv. Derzh. Univ. 18, 40–45 (2000)

Horák D., **Benedyk N**.:**Magnetic poly(glycidyl methacrylate) microspheres prepared by dispersion polymerization in the presence of electrostatically-stabilized ferrofluids.** J. Polym. Sci., Polym. Chem. Ed. 42, 5827-5837 (2004)

**Blinova N.V.**, **Sapurina I.**, Klimovič J., Stejskal J.
**The chemical and colloidal stability of polyaniline dispersions**
Polym. Degrad. Stab. 88, 428-434 (2005)

Horák D., **Chaikivskyy O.: Poly(2-hydroxyethyl methacrylate-*co*-*N,O*-dimethacryloylhydroxylamine) particles by dispersion polymerization.**
J. Polym. Sci., Part A: Polym. Chem. 40, 1625-1632 (2002)

Privalko V. P., **Dolgoshey V. B.**, Privalko E. G., Sikora A.
**Kinetics of nanocrystallization in regular alternating terpolymers of ethene and propene with carbon monoxide.** J. Macromol. Sci., Phys. B 42, 953-962 (2003)

Matějka L., **Dukh O.,** Kolařík J.: **Reinforcement of crosslinked rubbery epoxies by in-situ formed silica.** Polymer 41, 1449–1459 (2000)

Matějka L., **Dukh O.**, Brus J., Simonsick W. J. Jr., Meissner B.: **Cage-like structure formation during sol-gel polymerization of glycidyloxypropyltrimethoxysilane.** J. Non-Cryst. Solids 270, 34–47 (2000)

Matějka L., **Dukh O.**, Hlavatá D., Brus J., Simonsick W. J. Jr.: **Sol-gel polymerization of alky(trialkoxy)silanes – formation of cage-like silsesquioxane structures.** Polym. Prepr. (Am. Chem. Soc. Div. Polym. Chem.) 41(1), 502 (2000)

Matějka L., **Dukh O.: Organic-inorganic hybrid networks.** Macromol. Symp. 171, 181–188 (2001)

Matějka L., **Dukh O.**, Hlavatá D., Meissner B., Brus J.: **Cyclization and self-organization in polymerization of trialkoxysilanes.** Macromolecules 34, 6904–6914 (2001)

Matějka L., **Dukh O.**, Meissner B., Hlavatá D., Brus J., Strachota A.: **Block copolymer organic-inorganic networks. Formation and structure ordering.** Macromolecules 36, 7977-7985 (2003)

Matějka L., **Dukh O.**, Kamišová H., Hlavatá D., Špírková M., Brus J.: **Block-copolymer organic-inorganic networks. Structure, morphology and thermomechanical properties.** Polymer 45, 3267-3276 (2004)

**Fedorova S.**, Stejskal J.: **Surface and precipitation polymerization of aniline.** Langmuir 18, 5630-5632 (2002)

Stejskal J., Trchová M., **Fedorova S.**, **Sapurina I.**, Zemek J.: **Surface polymerization of aniline on silica gel.** Langmuir 19, 3013-3018 (2003)

Stejskal J., Omastová M., **Fedorova S.**, Prokeš J., Trchová M.: **Polyaniline and polypyrrole prepared in the presence of surfactants: a comparative conductivity study.** Polymer 44, 1353-1358 (2003)

Stejskal J., Trchová M., Ananieva I. A., Janča J., Prokeš J., **Fedorova S.**, **Sapurina I**.: **Poly(aniline-*co*-pyrrole): powders, films and colloids. Thermophoretic mobility of colloidal particles.** Synth. Met. 146, 29-36 (2004)

Koňák Č., **Gantchev B.**, Teodorescu M., Matyjaszewski K., Kopečková P., Kopeček J.: **Poly[*N*-(2-hydroxypropyl)methacrylamide-*block*-n-butyl acrylate] micelles in water/DMF mixed solvents.** Polymer 43, 3735-3741 (2002)

**Konyushenko E. N.**, Stejskal J., Šeděnková I., Trchová M., Sapurina I., Cieslar M., Prokeš J.: **Polyaniline nanotubes: conditions of formation.** Polym. Intern. 55, 31-39 (2006)

Hrubý M., **Korostyatynets V.**, Beneš M. J., Matějka Z.: **Bifunctional ion exchange resin with thiol and quaternary ammonium groups for the sorption of arsenate**. Collect. Czech. Chem. Commun. 68, 2159-2170 (2003)

Kroulík J., Čejka J., Böhm S., Šebek P., Nešpůrek S., **Koshets I. A.**, Sedmera P., Halada P., Havlíček V., Kratochvíl B., Kuthan J.
**Substituted 2,4,4,6-tetraphenyl-4*H*-selenopyrans: preparation, photocolouration and 4*H*-selenopyran ring geometry; an X-ray and DFT calculation study,** J. Chem. Soc., Perkin Trans. 2, 1909-1916 (2002)

Janus K., **Koshets I. A.**, Sworakowski J., Nešpůrek S.
**An approximate non-isothermal method to study kinetic processes controlled by a distribution of rate constants: the case of a photochromic azobenzene derivative dissolved in a polymer matrix.** J. Mater. Chem. 12, 1657-1663 (2002)

Bortchagovsky E. G., Kazantseva Z. I., **Koshets I. A.**, Nešpůrek S., Jastrabik L.
**Optical properties of double-layer structure phthalocyanine-tetracyanoquinodimethane.** Thin Solid Films 460, 269-273 (2004)

**Malinowska A.**, Vlček P., Kříž J., Toman L., Látalová P., Janata M., Masař B.: **ATRP of (meth)acrylates initiated with a bifunctional initiator bearing trichloromethyl functional groups and structural analysis of the formed polymer.** Polymer 46, 5-14 (2005)

**Mamytbekov G.,** Bouchal K., Ilavský M., Bekturov E. A.: **Phase transition in swollen gels. 23. Effect of the positive charge concentration on the collapse and mechanical behaviour of poly(1-vinyl-2-pyrrolidone) gels.** Polym. J. 30, 713–719 (1998)

**Mamytbekov G.**, Bouchal K., Sedláková Z., Ilavský M.: **Phase transition in swollen gels. 25. Effect of the anionic comonomer concentration on the first-order phase transition of poly(1-vinyl-2-pyrrolidone) hydrogels.** Eur. Polym. J. 35, 451–459 (1999)

**Mamytbekov G.**, Bouchal K., Ilavský M.: **Phase transition in swollen gels. 26. Effect of charge concentration on temperature dependence of swelling and mechanical behaviour of poly(*N*-vinylcaprolactam) gels.** Eur. Polym. J. 35, 1925–1933 (1999)

Ilavský M., **Mamytbekov G.**, Bouchal K., Hanyková L.: **Phase transition in swollen gels. 27. Effect of negative charge concentration on swelling and mechanical behaviour of poly(*N*-vinylcaprolactam) gels.** Polym. Bull. (Berlin) 43, 109–116 (1999)

Ilavský M., **Mamytbekov G.**, Sedláková Z., Bekturov E. A.: **Phase transition in swollen gels. 28. Swelling and mechanical behaviour of poly(1-vinyl-2-pyrrolidone-*co*-*N*-vinylcaprolactam) gels in water/acetone mixtures.** Polym. J. 33, 214–220 (2001)

Ilavský M., **Mamytbekov G.**, Sedláková Z., Hanyková L., Dušek K.: **Phase transition in swollen gels. 29. Temperature dependences of swelling and mechanical behaviour of poly(*N*-vinylcaprolactam-*co*-1-vinyl-2-pyrrolidone) gels in water.** Polym. Bull. (Berlin) 46, 99–106 (2001)

Ilavský M., **Mamytbekov G.**, Hanyková L., Dušek K.: **Phase transition in swollen gels. 31. Swelling and mechanical behaviour of interpenetrating networks composed of poly(1-vinyl-2-pyrrolidone) and polyacrylamide in water/acetone mixtures.** Eur. Polym. J. 38, 875-883 (2002)

**Mancheva I.**, **Zhivkov I.**, Nešpůrek S.
Kinetics of the photochromic reaction in a polymer containing azobenzene groups. J. Optoelectron. Adv. Mater. 7, 253-256 (2005)

Baldrian J., Horký M., Steinhart M., Sikora A., **Mihailova M.**, Amenitsch H., Bernstorff S., **Todorova G.: SAXS and DSC study of cocrystallization of low-molecular PEO fractions in polymer blends.** Fibres and Textiles Eastern Europe 11, 46-49 (2003)

Stejskal J., Špírková M., Riede A., Helmstedt M., **Mokreva P.,** Prokeš J.: **Polyaniline dispersions. 8. The control of particle morphology.** Polymer 40, 2487–2492 (1999)

Kelnar I., Kotek J., **Munteanu B.**, Fortelný I.: **Influence of properties and morphology of elastomeric phase on the behaviour of ternary reactive blends Nylon 6/rigid polymer/elastomer.** J. Appl. Polym. Sci., 89, 3647-3651 (2003)

Kelnar I., Kotek J., **Munteanu B.**, Kaprálková L.: **PBT blends with rigid polymer and elastomer inclusions: the effect of component type and reactivity on mechanical behavior.** Polym. Int. 53, 2066-2071 (2004)

Kelnar I., Kotek J., Kaprálková L., **Munteanu B.**: **Polyamide nanocomposites with improved toughness.** J. Appl. Polym. Sci. 96, 288-293 (2005)

Biler M., Zhivkov I., Rakušan J., Karásková M., **Pochekailov S.**, Wang G., Nešpůrek S.: **Soluble phthalocyanines - new materials for optoelectronics.** J. Optoelectron. Adv. Mater. 7, 1365-1370 (2005)

Munk P., **Rangelov S.**, Tuzar Z.: **Nanosize aggregates of block copolymers of styrene and hydrogenated butadiene in water.** Int. J. Polym. Anal. Charact. 4, 435–446 (1998)

**Rangelov S.,** Tuzar Z.: **Stabilization of hydrophobic micellar dispersions by ethylene oxide/propylene oxide block copolymers.** J. Mater. Sci. Lett. 18, 221–223 (1999)

**Razina A. B.**, Sedláková Z., Bouchal K., Tenkovcev A. B., Ilavský M.: **Liquid-crystalline polyesters with end nitroxyl radicals and their use in living free-radical polymezation** (in Russian). Vysokomol. Soedin. A 44, 1469-1477 (2002)

Demchenko Y. A., **Razina A. B.**, Sedláková Z., Sikora A., Baldrian J., Ilavský M.: **Dynamic mechanical and thermal Behavior of thermotropic polyesters based on 4,4′-alkane-1-ω-diylbis(4-hydroxybenzoic acid) and 4,4′-(pentane-1,5-diyloxy)dibenzoic acid.** Eur. Polym. J., 38, 2333-2341 (2002)

**Rosova E. Yu.**, Polotskaya G. A., Kozlov A. G., Elyashevich G. K., Bleha M., Kůdela V.: **Study of the poly(pyrrole) layers on microporous poly(ethylene) film substrate (in Russian).** Vysokomol. Soedin. 40, 914-920 (1998); Polym. Sci., Ser. A 40, 530–535 (1998) (Engl. Transl.)

Bleha M., Kůdela V., **Rosova E. Yu.,** Polotskaya G. A., Kozlov A. G., Elyashevich G. K.: **Synthesis and characterization of thin polypyrrole layers on polyethylene microporous films.** Eur. Polym. J. 35, 613–620 (1999)

Tishchenko G., **Rosova E. Yu.**, Elyashevich G. K., Bleha M.: **Porosity of microporous polyethylene membranes modified with polypyrrole and their diffusion permeability to low-molecular-weight substances.** Chem. Eng. J. 79, 211–217 (2000)

Tishchenko G., Bleha M., **Rosova E. Yu.**, Elyashevich G. K.: **Porosity and diffusion permeability of polyethylene membranes modified with polypyrrole** (in Russian). Vysokomol. Soedin. 42, 326–332 (2000), Polym. Sci. 42, 230–235 (2000) (Engl. Transl.)

Tishchenko G. A., Dybal J., Stejskal J., Kůdela V., Bleha M., **Rosova E. Yu.**, Elyashevich G. K.: **Electrical resistance and diffusion permeability of microporous polyethylene membranes modified with polypyrrole and polyaniline in solution of electrolytes.** J. Membr. Sci. 196, 279–287 (2002)

Elyashevich G. K., **Rosova E. Yu.**, Sidorovich A. V., Kuryndin I. S., Trchová M., Stejskal J.: **The effect of a polypyrrole coating on the thermal stability of microporous polyethylene membranes**. Eur. Polym. J. 39, 647-654 (2003)

Stejskal J., **Sapurina I.,** Trchová M., Prokeš J., Křivka I., Tobolková E.: **Solid-state protonation and electrical conductivity of polyaniline.** Macromolecules 31, 2218–2222 (1998)

Stejskal J., **Sapurina I.**, Prokeš J., Zemek J.: **In-situ polymerized polyaniline films.** Synth. Met. 105, 195–202 (1999)

Baldrian J., Steinhart M., Sikora A., Amenitsch H., Bernstorff S., **Staneva M.: Influence of symmetrical tri-block copolymers to the structure development in polymer blends.** Annual Report 2004, Austrian SAXS Beamline at ELETTRA, pp. 93-94 (2005)

Stejskal J., **Sulimenko T.**, Prokeš J., **Sapurina I.: Polyaniline dispersions 10. Coloured microparticles of variable density prepared using stabilizer mixtures.** Colloid Polym. Sci. 278, 654–658 (2000)

**Sapurina I.**, Mokeev M., Lavrentyev V., Zgonnik V., Trchová M., Hlavatá D., Stejskal J.: **Polyaniline complex with fullerene $C_{60}$.** Eur. Polym. J. 36, 2321–2326 (2000)

Stejskal J., Trchová M., Prokeš J., **Sapurina I.**: **Brominated polyaniline**. Chem. Mater. 13, 4083–4086 (2001)

**Sapurina I.**, Stejskal J., Tuzar Z.: **Polymerization of aniline in the presence of block copolymer micelles**. Colloids Surf. A 180, 193–198 (2001)

**Sapurina I.**, Riede I., Stejskal J.: ***In-situ* polymerized polyaniline films. 3. Film formation**. Synth. Met. 123, 503–507 (2001)

Trchová M., **Sapurina I.**, Hlavatá D., Prokeš J., Stejskal J.: **FTIR study of polyaniline-fullerene complex**. Synth. Met. 121, 1117–1118 (2001)

Stejskal J., Quadrat O., **Sapurina I.**, Zemek J., Drelinkiewicz A., Hasik M., Křivka I., Prokeš J.: **Polyaniline-coated silica gel**. Eur. Polym. J. 38, 631-637 (2002)

**Sapurina I.**, Osadchev A. Yu., Volchek B. Z., Trchová M., Riede A., Stejskal J.: ***In-situ* polymerized polyaniline films. 5. Brush-like chain ordering.** Synth. Met. 129, 29-37 (2002)

Stejskal J., **Sapurina I.**, Trchová M., Prokeš J.: **The protonation of polyaniline with 3-nitro-1,2,4-triazol-5-one (NTO).** Chem. Mater. 14, 3602-3606 (2002)

**Sapurina I.**, Gribanov A., Mokeev M., Zgonnik V., Trchová M., Stejskal J.: **Polyaniline composites with fullerene $C_{60}$.** Phys.Solid State 44, 574-575 (2002)

Riede A., Helmstedt M., **Sapurina I.**, Stejskal J.: ***In-situ* polymerized polyaniline films. 4. Film formation in dispersion polymerization of aniline**. J. Colloid Interface Sci. 248, 413-418 (2002)

**Sapurina I.**, Frolov V. I., Shabsels B. M., Stejskal J.: **Conducting composite of polyaniline and wood**. Zh. Prikl. Chim. 76, 863-867 (2003) (in Russian), Russ. J. Appl. Chem. 76, 835-839 (2003)

**Sapurina I.**, **Fedorova S.**, Stejskal J.: **Surface polymerization and precipitation polymerization of aniline in the presence of sodium tungstate**. Langmuir 19, 7413-7416 (2003)

Trchová M., **Sapurina I.**, Prokeš J., Stejskal J.: **FTIR spectroscopy of ordered polyaniline films**. Synth. Met. 135-136, 305-306 (2003)

Stejskal J., Hlavatá D., Holler P., Trchová M., Prokeš J., **Sapurina I.: Polyaniline prepared in the presence of various acids: a conductivity study**
Polym. Int. 53, 294-300 (2004)

Stejskal J., **Sapurina I.: On the origin of colloidal particles in the dispersion polymerization of aniline**. J. Colloid Interface Sci. 274, 489-495 (2004)

Kazantseva N., Vilčáková J., Křesálek V., Sáha P., **Sapurina I**., Stejskal J.: **Magnetic behaviour of composites containing polyaniline-coated mangasene-zinc ferrite**. J. Magn. Magn. Mater. 269, 30-37 (2004)

**Sapurina I.**, Kazantseva N.E., Ryvkina N.G., Prokeš J., Sáha P., Stejskal J.: **Electromagnetic radiation shielding by composites of conducting polymers and wood.** J. Appl. Polym. Sci. 95, 807-814 (2005)

Horák D., **Semenyuk N.,** Lednický F.: **Effect of the reaction parameters on the particle size in the dispersion polymerization of 2-hydroxyethyl and glycidyl methacrylate in the presence of ferrofluid.** J. Polym. Sci., Part A: Polym. Chem. 41, 1848-1863 (2003)

**Semenyuk N.,** Horák D., Suberlyak O.: **Polymer dispersion of 2-hydroxyethyl methacrylate in the presence of ferrimagnets** (in Russian). Voprosy Khim. Khim. Tekhnol. 2, 81-84 (2003)

Horák D., **Shapoval P.**: **Reactive poly(glycidyl methacrylate) microspheres prepared by dispersion polymerization.** J. Polym. Sci., Part A: Polym. Chem. 38, 3855–3863 (2000)

**Solovyev A.,** Brynda E., Houska M., Bleha M., Shataeva L.: **Deposition of multilayered protein coating onto poly(ethylene terephthalate** (in Russian). Vysokomol. Soedin. 45, 1574-1579 (2003), Polym. Sci, Ser. B (Engl. Translation) 45, 267-271 (2003)

Prokeš J., Křivka I., **Sulimenko T.,** Stejskal J.: **Conductivity of polyaniline films during temperature cycling.** Synth. Met. 119, 479–480 (2001)

Stejskal J., **Sulimenko T.**, Prokeš J., **Sapurina I.**: **Polyaniline dispersions 10. Coloured microparticles of variable density prepared using stabilizer mixtures.** Colloid Polym. Sci. 278, 654–658 (2000)

**Sulimenko T.**, Stejskal J., Křivka I., Prokeš J.: **Conductivity of colloidal polyaniline dispersions.** Eur. Polym. J. 37, 219–226 (2001)

**Sulimenko T.**, Stejskal J., Prokeš J.: **Poly(phenylenediamine) dispersions.** J. Colloid Interface Sci. 236, 328–334 (2001)

Bradna P., Quadrat O., **Titkova L.,** Depuis D.: **The influence of multivalent cations on negative thixotropy in aqueous glycerol solutions of partially hydrolyzed polyacrylamide.** Acta Polym. 48, 446–449 (1997)

Quadrat O., Mrkvičková L., Walterová Z., **Titkova L.**, Bradna P., Šňupárek J.: **Structure and flow behaviour of crosslinked ethyl acrylate–methacrylic acid copolymer dispersion particles.** Colloid Polym. Sci. 276, 879–886 (1998)

**Zhivkov I.,** Nešpůrek S., Schauer F.: **Influence of oxygen on the parameters of a thin film copper phthalocyanine field effect transistor.** Adv. Mater. Opt. Electron. 9, 175–180 (1999)

**Zhivkov I.**, **Nedkov T. E.,** Nešpůrek S., Danev G., Schauer F.: **Space-charge effect in vacuum-evaporated phthalocyanine films.** Vacuum 58, 340-343 (2000)

Schauer F., **Zhivkov I.,** Nešpůrek S.: **Organic phthalocyanine films with high mobilities for efficient field-effect transistor switches.** J. Non-Cryst. Solids 266–269, 999–1003 (2000)

**Zhivkov I.**, Nešpůrek S., Sworakowski J.: **Trapping of charge carriers in organic molecular materials: Phthalocyanine thin films revisited.** Acta Phys. Pol. A 100, 215-228 (2001)

**Zhivkov I.**, Nešpůrek S., Sworakowski J.: **Determination of trap parameters from photocurrent decay measurements: Metal-free phthalocyanine films**. In: Photovoltaic and Photoactive Materials – Properties, Technology and Applications (Marshal, J. M., Dimova-Malinovska D., Eds), Kluwer Acad. Publ., Dordrecht 2002, pp. 293–296

**Zhivkov I.**, Danev G., Wang G., Nešpůrek S., Sworakowski J.: **Charge injection into poly[methyl(phenyl)silylene]**. J. Mater. Sci.-Mater. Electron. 14, 829-830 (2003)

**Zhivkov I.**, Danev G., Nešpůrek S., Sworakowski J.: **Density-of states function in metal-free phthalocyanine: effect of exposure to chlorodifluoromethane.** Macromol. Symp. 212, 515-521 (2004)

**Zhivkov I.,** Strijkova V., Spassova E., Danev G., Nešpůrek S., Iwamoto M.: **Space-charge effects in vacuum-deposited polyimide layers.** J. Optoelectron. Adv. Mater. 7, 245-248 (2005)

**Contributions at international conferences (99):**

**Aldea G.,** Výprachtický D., Cimrová V.: **New copolymers of poly(maleic anhydride-co-styrene) with 1,3,4-oxadiazole for electroluminescence.** 21st Discussion Conference 'Electrical and Related Properties of Polymers and Other Organic Solids, Prague 2002, Abstracts, P82

**Aldea G.,** Výprachtický D., Cimrová V.: **Synthesis of maleic anhydride with pendant oxadiazole moieties.** Conference 'Progress in the Science of Organic and Macromolecular Compounds', Iaşi 2002, Abstracts, p. 31

**Andreeva D. V.,** Polotskaya G. A., Gladchenko S. V., Elyashevich G. K., Brožová L., Pientka Z., Bleha M.: **Formation and structure of composite membrane with polypyrrole-poly(phenylene oxide) top layer.** 3rd International Symposium 'Molecular Mobility and Order in Polymer Systems', St. Petersburg 1999, Abstract P-109

**Andreeva D. V.**, Pientka Z., Brožová L., Bleha M., Polotskaya G. A., Elyashevich G. K.: **Preparation, morphology and gas transport properties of polypyrrole containing-membranes.** 14th International Congress of Chemical and Process Engineering 'Chisa', Prague 2000, Summaries P3.148, p. 274

Pientka Z., **Andreeva D. V.**, Brožová L.: **Membranes with polypyrrole for gas separation** (in Czech). 48th Conference of Chemical and Process Engineering 'Chisa', Srní 2001, Abstracts, p. 48

Šeděnková I., Trchová M., **Blinova N. V.**, Stejskal J.
**FTIR spectroscopy of polyaniline film formation**
40th IUPAC International Symposium on Macromolecules, World Polymer Congress MACRO, Paris 2004
full text: Conference Proceedings on CD 5.1.5, abstract: Abstract, p. 168

Šeděnková I., **Blinova N. V.**, Trchová M., Stejskal J., Omastová M.
**FTIR spectroscopic study of aniline and pyrrole polymerizations**
Slovak-Czech Conference 'Polymers', Smolenice 2004
Proceedings, pp. 132-135

**Bogdan E., Jasinski W., Maslyk-Walczak M.**, Špírková M., Kadlec P., Lednický F., Hlavatá D., Matějka L.: **Synthesis and intercrosslinking of functional organosilicon microgel particles.** 20th Discussion Conference 'Scattering Methods for the Investigation of Polymers', Prague 2001, Programme Booklet, Abstract P35

**Bogdan E.**, Voit B., Dušek K., Dušková M.: **Novel hyperbranched polymers for polyurethane coatings their preparation and crosslinking with isocyanates.** 5th International Polymer Seminar, Gliwice 2003, Abstracts, p. 31

**Chekina N**., Horák D.
**Magnetic poly(glycidyl methacrylate) microspheres prepared by emulsion polymerization.** 11th International Conference on Polymers and Organic Chemistry, Prague 2004, Conference CD, P77

Sikora A., **Dolgoshey V. B.,** Baldrian J., Kratochvíl J.: **Study of poly(ethylene oxide) melting by temperature-modulated DSC** (in Czech). Seminar on Calorimetry, Seč near Chrudim 2002, Proceedings, pp. 33-36

Sikora A., **Dolgoshey V. B.,** Baldrian J., Kratochvíl J.: **Non-linear behaviour of PEO during crystallization and melting.** 4th Czech-Korean Joint Symposium on Macromolecular Chemistry, Prague 2002, Proceedings, p. 25

**Dukh O.**, Matějka L., Meissner B.: **Organic-inorganic networks from precursors of various architecture.** 14th Polymer Networks Group International Conference **'**Polymer Networks 98**'**, Trondheim 1998, Abstract P39

**Dukh O.**, Matějka L., Špírková M.: **Mechanical properties of hydrophilic gels based on 2-hydroxyethyl methacrylate and tetraethoxysilane.** 18th Discussion Conference P. M. M. 'Mechanical Behaviour of Polymeric Materials', Prague 1998, Abstract PC32

**Dukh O.**, Matějka L., Špírková M.: **Mechanical properties of organic-inorganic hybrid systems.** 18th Discussion Conference P. M. M. 'Mechanical Behaviour of Polymeric Materials', Prague 1998, Abstract PC34

**Dukh O.**, Matějka L., Brus J., Simonsick W. J., Meissner B.: **Formation of polyhedral cyclics in sol-gel polymerization of trialkoxysilanes.** 39th Microsymposium 'Advances in Polymerization Methods: Controlled Synthesis of Functionalized Polymers', Prague 1999, Abstract P61

Matějka L., **Dukh O.**, Hlavatá D., Brus J., Simonsick W. J. Jr.: **Sol-gel polymerization of alkyl(trialkoxy)silanes: Formation of cagelike silsesquioxane structures.** 219th ACS National Meeting, Organic-Inorganic Hybrid Polymers, Division of Polymer Chemistry, San Francisco 2000, Abstr. Pap. Am. Chem. Soc. 219, U356-U357 (2000)

**Dukh O.**, Matějka L.: **Cyclization and structure evolution in polymerization of trialkoxysilanes.** 15th Polymer Networks Group Meeting, Cracow 2000, Abstract P-7

Matějka L., **Dukh O.**: **Organic-inorganic hybrid networks.** 15th Polymer Networks Group Meeting, Cracow 2000, Abstract IL-12

Melissari S., Pissis P., Kanapitsas A., **Dukh O.**, Matějka L.: **Dielectric studies of molecular mobility and phase morphology in epoxy - silica hybrid nanocomposites.** 4th International Discussion Meeting on Relaxations in Complex Systems, Heraklion 2001, http://www.edu.uch.gr/~rizos/

**Duncianu C. N.,** Kelnar I., Kaprálková L.: **Effect of matrix modification on the behaviour of PA6-based nanocomposite.** 23rd Discussion Conference, Current and Future Trends in Polymeric Materials, Prague 2005, Abstracts, PC78

Beneš M. J., **Fedorov A., Azanova V. V., Kassalainen G.**, Přádová O.: **Adsorbents of phenols with potential hydrogen bond participation.** 8th International Conference on Polymer Based Technology, Ma'ale Hachamisha 1998. Abstracts, p. 111

Osadchev A., **Fedorova S.,** Geller N., Skorokhodov S., Stejskal J.: **The synthesis of polysiloxyarylenazomethines and the influence of intermolecular donor-acceptor interactions on their supermolecular structure.** 39th Micro-symposium 'Advances in Polymerization Methods: Controlled Synthesis of Functionalized Polymers', Prague 1999, Abstract P13

**Fedorova S., Sapurina I**., Stejskal J.: **Polyaniline nanofilms produced by surface polymerization of aniline.** 21st Discussion Conference 'Electrical and Related Properties of Polymers and Other Organic Solids, Prague 2002, Abstracts, P60

Baldrian P., Beneš M. J., **Gorbacheva** O., Hrubý M., Merhautová V., Cajthaml T., Gabriel J., Nerud F., Stopka J. :**Oxidation of polycyclic aromatic hydrocarbons by hydrogen peroxide catalyzed by zirconia and hydroxylapatite/supported copper(II).** 5th World Congress on Oxidation Catalysis, Sapporo 2005, Abstracts, P3-077

Koňák Č., **Gantchev B.,** Teodorescu S. M., Matyjaszewski K., Kopečková P., Kopeček J.: **Micelles of poly[*N*-(2-hydroxypropyl)methacrylamide-*block*-butyl acrylate] in water/dimethylformamide mixed solvents.** 40th Microsymposium 'Polymers in Medicine', Prague 2000, Abstract P4

Beneš M. J., **Gorbacheva O.**, Hrubý M., Baldrian P., Merhautová V., Cajthaml T. **Heterogeneous catalyst of Fenton reaction for degradation of organic pollutants.** 11th International Conference on Polymers and Organic Chemistry, Prague 2004, Conference CD, P07

Dušková-Smrčková M., Dušek K., Vlasák P., **Hitruc G. E.**
**Polymer film formation by two simultaneous processes: solvent evaporation and crosslinking**
13th International Materials Research Congress 'New Trends in Polymer Chemistry and Characterization', Cancún, 2004, Abstracts Book, p. 33

**Konyushenko E.**, Stejskal J., Šeděnková I., Trchová M., **Sapurina I.**: **Polyaniline nanotubes.** 5th International Symposium 'Molecular Mobility and Order in Polymer Systems', St. Petersburg 2005, Abstracts, P-062, Conference CD

Šeděnková I., Trchová M., **Konyushenko E. N.**, Stejskal J., **Sapurina I. FTIR spectroscopic study of ordered polyaniline film formation.** 5th International Symposium 'Molecular Mobility and Order in Polymer Systems', St. Petersburg 2005, Abstracts, P-165, Conference CD

**Konyushenko E. N.**, Stejskal J., Trchová M., Prokeš J., Hwang J. Y., Chen K. H.: **Multi-wall carbon nanotubes modified with a conducting polymer, polyaniline.** 23rd Discussion Conference on Current and Future Trends in Polymeric Materials, Prague 2005, Abstracts, PC19

Šeděnková I., Trchová M., **Konyushenko E. N.**, Stejskal J.: **The influence of acidity on the polyaniline film formation: FTIR spectroscopic study.** 23rd Discussion Conference on Current and Future Trends in Polymeric Materials, Prague 2005, Abstracts, PC18

Stejskal J., **Konyushenko E. N.**, Trchová M.: **Polyaniline nanotubes: the conditions of formation.** 40th IUPAC Congress on Innovation in Chemistry, Beijing 2005, Abstracts, p. 540

Šeděnková I., Trchová M., **Konyushenko E. N.,** Stejskal J.: **The influence of acidity on the polyaniline film formation.** 57th Congress of Chemical Societies, Tatranské Matliare 2005, ChemZi 1, 241 (2005)

**Konyushenko E. N.,** Stejskal J., Šeděnková I.: **Polyaniline nanotubes.** European Materials Research Society Spring Meeting 'E-MRS', Strasbourg 2005, Abstracts, I/PIII.50

Špitálsky Z., Matějka L., Šlouf M., **Konyushenko E. N.**, Kovářová J.: **Properties of epoxy resins filled with modified carbon nanotubes.** 3rd Nanofun-Poly Workshop, Prague 2005, Abstracts, p. 61

**Lutecki M.**, Matějka L.
Thermo-sensitive organic-inorganic hybrid systems
43rd Microsymposium 'Polymer Biomaterials: Biomimetic and Bioanalogous Systems', Prague 2004
Abstracts, PC72
Machová L., **Malinova V.**, Nováková K., Láznícek M., Koňák Č., Rypáček F.: Micelles of biodegradable block copolymers: Synthesis, characterization and radiolabelling for biodistribution studies (in Czech). Polymers, Prague 2002, Programme Booklet Abstract P08

Machová L., **Malinova V.**, Nováková K., Lázníček M., Koňák Č. Rypáček F. Biodegradable block-copolymer micelles:Synthesis, characterization and radiolabeling for biodistribution studies
9th International Symposium on Biomedical Science and Technology 'BIOMED', Antalya 2002, Abstract Book, P-36, p. 71

Ilavský M., Řeřichová M., **Mamytbekov G.**, Sedláková Z.: **Preparation of responsive hydrogels using irradiation.** 13th Radiochemical Conference, Mariánské Lázně 1998, Book of Abstracts

Ilavský M., **Mamytbekov G.**, Bouchal K.: **Collapse in charged poly(1-vinyl-2-pyrrolidone) gels.** 14th Polymer Networks Group International Conference 'Polymer Networks 98', Trondheim 1998, Abstract P73

**Mamytbekov G.**, Řeřichová M., Bouchal K., Sedláková Z., Ilavský M.: **Structure and mechanical behaviour of charged vinyllactam hydrogels prepared by irradiation.** 18th Discussion Conference P. M. M. 'Mechanical Behaviour of Polymeric Materials', Prague 1998, Abstract PC50

Ilavský M., **Mamytbekov G.**, Sedláková Z., Dušek K.: **Phase transition in responsive hydrogels.** 38th Macromolecular IUPAC Symposium, Warsaw 2000, Book of Abstracts, Vol. 3, p. 1036

Sedláková Z., **Mamytbekov G.**, Ilavský M., Dušek K.: **Phase transition in charged poly(*N*-vinyllactam) hydrogels.** 15th Polymer Networks Group Meeting, Cracow 2000, Abstract P-19

Baldrian J., Horký M., Steinhart M., Sikora A., **Mihailova M.,** Amenitsch H., Bernstorff S.: **Cocrystallization behaviour of low-molecular-weight PEO fractions in polymer blends.** Colloquium of Crystallographic Society 'Structure', Bedřichov 2001, Mater. Struct. 8, 67 (2001)

Baldrian J., Horký M., Steinhart M., Sikora A., **Mihailova M.**, Amenitsch H., Bernstorff S.: **SAXS and DSC study of cocrystallization of low-molecular-weight PEO fractions in polymer blends.** 5th International Conference on X-Ray Investigation of Polymer Structure, Bielsko-Biala 2001, Abstracts, L3

Hradil J., **Mitchenko A.,** Krystl V., Bernauer B., Brožová L., Pientka Z., Kočiřík M.: **Heterogeneous membranes for separation of small molecules.** 9th International Conference on Polymer Based Technology, Tianjin 2000, Abstracts, p. 17

Kelnar I., **Munteanu B.**, Fortelný I.: **Influence of structure and functionality of styrene-based elastomer on the behavior of ternary blend with PA6 matrix.** 7th European Symposium 'Polymer Blends', Lyon 2002, Abstracts E4

Kelnar I., Kotek J., **Munteanu B.** and Fortelný I.: **Ternary reactive blend of poly(butylene terephthalate; synergistic effect of finely dispersed rigid polymer and elastomer.** World Polymer Congress, 39th International Symposium on Macromolecules, Beijing 2002, Preprints 2, p. 548

**Nedkov T. E.**, Lednický F., Horák Z.: **Behaviour of PE/PP blends at low temperature cutting by means of SEM.** 18th Discussion Conference P. M. M. 'Mechanical Behaviour of Polymeric Materials', Prague 1998, Abstract PC77

Christova D., **Nedkov T. E.**, Lednický F.: **Morphology and mechanical properties of structural foamed LDPE/PP blends.** 18th Discussion Conference P. M. M. 'Mechanical Behaviour of Polymeric Materials', Prague 1998, Abstract PC79

Brynda E., **Petkova G. A.,** Houska M., Škvor J.: **Biorecognition surfaces prepared using layer by layer deposition of proteins.** Conference Nanotechnology in BioDiagnostics and Analytics, Grenoble 2005, Abstracts, p. 32

**Razina A. B.,** Demchenko E. A., Sedláková Z., Bouchal K., Sikora A., Srnová I., Ilavský M.: **Dynamic mechanical and thermal behaviour of liquid-crystalline polyesters.** 19th Discussion Conference 'Rheology of Polymer Systems', Prague 1999, Abstract P13

Nedbal J., Demchenko E. A., **Razina A. B.**, Sedláková Z., Ilavský M.: **Thermal, dielectric and dynamic mechanical behaviour of liquid-crystalline polyesters.** 14th Bratislava International Conference on Modified Polymers, Bratislava 2000, Proceedings P15, pp. 104–105

Demchenko E. A., **Razina A. B.**, Sedláková Z., Sikora A., Ilavský M.: **Dynamic mechanical and thermal behaviour of liquid crystalline polyesters.** 9th Annual Conference of Doctoral Students 'WDS 2000', Prague 2000, Proceedings, pp. 389–395

Sedláková Z., Studenovský M., **Razina A. B.**, Ilavský M.: **Synthesis and thermal behaviour of liquid crystalline hybrid copolymers.** 13th Yugoslavian Symposium on Chemistry and Technology of Macromolecules 'YU MAKRO', Zlatibor 2001, Abstracts, p. 140

Sedláková Z., Bouchal K., **Razina A. B.**, Ilavský M., Michalcová J.: **Synthesis and characterization of nitroxide-terminated liquid-crystalline hybrid polyesters.** Congress 'Polymers in the Third Millennium', Montpellier 2001, Poster Abstracts, B22

**Rosova E. Yu.**, Kozlov A. G., Polotskaya G. A., Elyashevich G. K., Bleha M., Kůdela V.: **Properties of polypyrrole layers on the surface of polyethylene microporous membranes.** 17th Discussion Conference 'Surface and Interfacial Phenomena in Macromolecular Systems', Prague 1997, Abstracts, P44

Bleha M., **Rosova E. Yu.**, Polotskaya G. A., Elyashevich G. K.: **Electrochemical properties of polypyrrole–polyethylene composite as anion-exchange membrane.** 13th International Congress of Chemical and Process Engineering 'CHISA 98', Prague 1998, Summaries, p. 52, CD-ROM D8.7

Tishchenko G., **Rosova E. Yu.**, Elyashevich G. K., Bleha M.: **Porosity of microporous polyethylene membranes modified with polypyrrole and their diffusion permeability to low-molecular-weight substances.** 13th International Congress of Chemical and Process Engineering 'CHISA 98', Prague 1998, Summaries, p. 40, CD-ROM D7.2

Kudasheva O. V., Karpov E. A., Lavrentyev V. K., **Rosova E. Yu.**, Lednický F., Elyashevich G. K.: **Structure and mechanical properties of highly oriented polyethylene samples formed by two different techniques.** 18th Discussion Conference P. M. M. 'Mechanical Behaviour of Polymeric Materials', Prague 1998, Abstract PC4

Kůdela V., Tishchenko G., Dybal J., **Rosova E. Yu.**, Elyashevich G. K., Bleha M.: **Effect of conformation of polypyrrole and polyaniline within porous polymeric membranes on their electric conductivity and diffusive permeability.** 4th International Symposium 'Euro-Membrane 99', Leuven 1999, Book of Abstracts, Vol. 2, pp. 319–320

Kůdela V., Tishchenko G., Dybal J., **Rosova E. Yu.**, Elyashevich G. K., Bleha M.: **Influence of pH of solutions on porous membranes with polypyrrole and polyaniline.** 3rd International Symposium 'Molecular Mobility and Order in Polymer Systems', St. Petersburg 1999, Abstract P-113

Elyashevich G. K., **Rosova E. Yu.**, Tishchenko G. A., Bleha M.: **Transport and sorption properties of microporous polyethylene films and composite membranes.** 41st Microsymposium 'Polymer Membranes', Prague 2001, Programme Booklet, Abstract SL19

Tishchenko G., Kůdela V., **Rosova E. Yu.**, Elyashevich G. K., Sato T., Bleha M.: **Conductivity and diffusion permeability of membranes with incorporated polypyrrole.** 4th International Symposium 'Molecular Order and Mobility in Polymer Systems', St. Petersburg 2002, Book of Abstracts, P-170

Elyashevich G. K., **Rosova E. Yu.**, Sidorovich A. V., Kuryndin I. S., Trchová M., Stejskal J.: **Properties of composites containing nanotubules of polypyrrole inside polyethylene porous matrix.** EPF Europolymer Congress, Stockholm 2003. Book of Abstracts, unpaged

**Sapurina I.**, Stejskal J., Kompan M. :**Conducting polymer based materials for the fuel cell applications.** 9th International Seminar onAlternative Energy Sources and Problems of Energy Storage. St. Petersburg 2005, Abstracts, p. 39

Stejskal J., **Sapurina I.**, Prokeš J.: ***In-situ*** **polymerized polyaniline films.** 3rd International Symposium 'Molecular Mobility and Order in Polymer Systems', St. Petersburg 1999, Abstract P-082

**Sapurina I.**, Stejskal J., Tuzar Z.: **Polymerization of aniline in the presence of block copolymer micelles.** 3rd International Symposium 'Molecular Mobility and Order in Polymer Systems', St. Petersburg 1999, Abstract P-133

**Sapurina I.**, Stejskal J., Tuzar Z.: **Dynamic light scattering from polyaniline particles stabilized by a diblock copolymer.** Conference 'LS 99 Data Evaluation in Light Scattering of Polymers', Bad Schandau 1999, Proceedings, P21

Trchová M., **Sapurina I.**, Hlavatá D., Prokeš J., Stejskal J.: **FTIR study of polyaniline-fullerene complex.** International Conference on Science and Technology of Synthetic Metals, Gastein 2000, Book of Abstracts, p. 190

**Sapurina I.,** Gribanov A., Mokeev M., Zgonnik V., Trchová M., Stejskal J.: **Polyaniline composites with fullerene $C_{60}$: Preparation and properties.** 5th Biennial International Workshop in Russia 'IWFAC', St. Petersburg 2001 Abstracts, P111

Trchová M., Stejskal J., Prokeš J., **Sapurina I.**: **Brominated polyaniline: FTIR study**. 9th Days of Conductive Polymers, Angers 2001, Abstracts, P3-16

Trchová M., **Sapurina I.**, Stejskal J.: **FTIR spectroscopic study of the protonation of conducting polymer with energetic compound.** 5th Seminar 'New Trends in Research of Energetic Materials', Pardubice 2002, Proceedings, pp. 339-347

**Sapurina I.**, Trchová M., Prokeš J., Stejskal J.: **Synthesis of ordered conducting polyaniline nanolayers.** 4th International Symposium 'Molecular Order and Mobility in Polymer Systems', St. Petersburg 2002, Book of Abstracts, P-122

Trchová M., **Sapurina I.**, Prokeš J., Stejskal J.: **FTIR spectroscopy of ordered polyaniline films.** International Conference on Science and Technology of Synthetic Metals, Shanghai 2002, Book of Abstracts, p. 231

Trchová M., **Sapurina I.**, Prokeš J., Stejskal J.:**FTIR spectroscopy of the protonation of polyaniline with an explosive.** 21st Discussion Conference 'Electrical and Related Properties of Polymers and Other Organic Solids, Prague 2002, Abstracts, P59

Trchová M., **Sapurina I.,** Stejskal J.: **FTIR spectroscopy of ordered polyaniline films**. 10th Polymer Conductor Days, Dourdan 2003, Abstracts, A4-25

**Sapurina I.**, Stejskal J., Trchová M., Prokeš J.: **'Green' composites based on conducting polymers and wood sawdust.** 18th Bratislava International Conference on Modified Polymers ModPol, Stará Lesná 2003, Proceedings, P 26, p. 76

Stejskal J., **Sapurina I.**, Trchová M., Omastová M.: **The modification of surfaces with a conducting polymer overlayer.** 18th Bratislava International Conference on Modified Polymers ModPol, Stará Lesná 2003, Proceedings, P 62, p. 112

Kazantseva N. E., Bezpyatych Yu. I., **Sapurina I.**, Stejskal J., Sáha P.: **Interfacial processes in ferrite/polyaniline heterostructures (in Russian).** International Conference 'Polymaterials-2003', Moscow 2003, Proceedings, pp. 162-164

Kazantseva N. E., Bezpyatych Yu. I., **Sapurina I.**, Stejskal J., Sáha P.: **Magnetic properties of polymeric composite materials filled with MnZn ferrite coated with polyaniline (in Russian)**. 12th International Conference on Spin-Electronics and Gyrovector Electrodynamics, Moscow 2003, Proceedings, pp. 399-409

**Semenyuk N.,** Horák D.: **Effect of the solvent system in dispersion polymerization on properties of methacrylate-based magnetic microspheres.** 4th International Conference on Polymer-Solvent Complexes and Intercalates, Prague 2002, Abstracts P4

**Shapoval P**., Horák D.: **Reactive poly(glycidyl methacrylate) microspheres by dispersion polymerization.** 39th Microsymposium 'Advances in Polymerization Methods: Controlled Synthesis of Functionalized Polymers', Prague 1999, Abstract P55

**Solovyev A.,** Brynda E., Houska M., Bleha M.: **Composite porous poly(ethylene terephalate)/albumin networks membranes.** 4th International Symposium 'Molecular Order and Mobility in Polymer Systems', St. Petersburg 2002, Book of Abstracts, P-172

Baldrian J., Steinhart M., Amenitsch H., Bernstorf S., **Staneva M.**: **Disorder – order – crystalllization phenomena in block-copolymer blends,** WAM III Conference on Nanostructured Advanced Materials, Stellenbosch 2005, Abstracts, poster No 2

Prokeš J., Křivka I., **Sulimenko T.**, Stejskal J.: **Conductivity of polyaniline during temperature cycling.** International Conference on Science and Technology of Synthetic Metals, Gastein 2000, Book of Abstracts, p. 158

Baldrian J., Steinhart M., Sikora A., Amenitsch H., Bernstorff S., **Todorova G.:_ Real-time SAXS and DSC study of structure development in crystalline polymer blends.** 12th International Conference on Small-Angle Scattering, Venice 2002, Conference Book, p. 139

Baldrian J., Steinhart M., Sikora A., **Todorova G.,** Amenitsch H.: **Cocrystallization behaviour of low-molecular-weight PEO fractions in polymer blends.** 4th Czech-Korean Joint Symposium on Macromolecular Chemistry, Prague 2002, Proceedings, p. 22

Baldrian J., Steinhart M., Sikora A., **Todorova G.**: **Development of cocrystalline structures in polymer blends.** 19th Annual Meeting of Polymer Processing Society, Melbourne 2003, Abstracts, p. 12

Baldrian J., Steinhart M., Sikora A., **Todorova G.,** Kriechbaum M., Amenitsch H., Bernstorff S.: **Real-time real-time study of cocrystalline structure development in polymer blends.** International Conference on Materials for Advanced Technologies, Singapore 2003, Abstracts, p. 445

**Uchman M., Strachotová-Hausner B.,** Matějka L.
**Organic-inorganic hydrogels with thermoresponsive properties**
44th Microsymposium on Polymer Gels and Networks, Prague 2005, Abstracts, P78

Kubies D., **Zaporozhets T.,** Puffr R., Kotek J., Baldrian J., Kovářová J., Rypáček F.: **Biodegradable polyester nanocomposites: Preparation and mechanical properties.** 42nd Microsymposium 'Degradation, Stabilization, and Recycling of Polymers', Prague 2003, Abstracts, P12

**Zintchenko A.**, Koňák Č.
**Conjugates of polyelectrolyte complexes with surfactants and phospholipids as new carriers for drug delivery**
43rd Microsymposium 'Polymer Biomaterials: Biomimetic and Bioanalogous Systems', Prague 2004, Abstracts, PC71

**Zhivkov I.**, Nešpůrek S., Schauer F.: **Gas sensing properties of thin copper phthalocyanine films detected by field effect.** 8th International Conference 'Electrical and Related Properties of Organic Solids', Szklarska Poreba 1999, Book of Abstracts, p. 148

Schauer F., **Zhivkov I.**, Nešpůrek S.: **Organic phthalocyanine films with high mobilities for efficient field effect transistors switches.** International Conference on Amorphous and Microcrystalline Semiconductors, Snowbird 1999, Book of Abstracts

**Zhivkov I.**, **Nedkov T. E.**, Nešpůrek S., Danev G., Schauer F.: **Space charge effects in phthalocyanine films.** 11th International School on Vacuum, Electron and Ion Technologies, Varna 1999, Abstracts, p. 38

Schauer F., Nešpůrek S., **Zhivkov I**.: **Temperature dependence of field effect in organic transistors made on ordered phthalocyanines.** European Conference on Molecular Electronics, Rolduc 2001, Abstracts, p. 156

**Zhivkov I.**, Danev G., Nešpůrek S., Sworakowski J.: **Effect of adsorbed chlorodifluoromethane on the density-of-states in metal-free phthalocyanine.** 21st Discussion Conference 'Electrical and Related Properties of Polymers and Other Organic Solids, Prague 2002, Abstracts, P81

**Patents (1):**

Horák D., **Shapoval P.**, Beneš M. J.
**Reactive monodisperse microparticles of the methacrylate type and method of their production**

**Annual reports (2):**

Baldrian J., Horký M., Steinhart M., Amenitsch H., Bernstorff S., **Todorova G.**
**Cocrystallization of PEO-*b*-PPO-*b*-PEO/PEO blends during cooling and heating**
Annual Report 2001, Austrian SAXS Beamline at ELETTRA, pp. 102-103 (2002)
SAXS and DSC study of cocrystallization of low-molecular PEO fractions in polymer blends, SPIE Proceedings

Baldrian J., Steinhart M., Sikora A., **Todorova G.,** Kriechbaum M., Amenitsch H., Bernstorff S., **Cocrystallization dynamics in lamellar systems of PEO/PEO and PEO/PEO-*b*-PPO-*b*-PEO blends**
Annual Report 2002, Austrian SAXS Beamline at ELETTRA, pp. 95-96 (2003)