

V.A.Soloshonok

List of Publications

Research papers in professional journals (refereed):

1986 (3)

1 Soloshonok, V. A.; Gerus, I. I.; Yagupolskii,* Y. L. *N*-(Methoxycarbonyl)imine of Trifluoropyruvic Acid, *Zh. Org. Khim.* **1986**, 22, 1335-1337; *Chem. Abstr.*, 106: 195861u.

2 Yagupolskii, Y. L.; Soloshonok, V. A.; Kukhar,* V. P. Fluorine-Containing Amino Acids. I. An Efficient Synthesis of *D,L*- β,β,β -Trifluoroalanine, *Zh. Org. Khim.* **1986**, 22, 517-521; *Chem. Abstr.*, 105: 115390f.

3 Yagupolskii,* Y. L.; Soloshonok, V. A.; Gerus, I. I. Reactions of Methyl Perfluoromethacrylate with Silylated Amines, *Zh. Org. Khim.* **1986**, 22, 1828-1834; *Chem. Abstr.*, 106: 176475e.

1987 (3)

4 Soloshonok, V. A.; Gerus, I. I.; Yagupolskii, Y. L.; Kukhar,* V. P. α -Trifluoromethyl- α -Hydroxy Carboxylic Acids, *Zh. Org. Khim.* **1987**, 23, 1441-1447; *Chem. Abstr.*, 109: 6076v.

5 Soloshonok,* V. A.; Brovarets, V. S.; Yagupolskii, Y. L. Preparation of Fluorine-Containing Azolactones *via* Wittig Reaction, *Zh. Org. Khim.* **1987**, 23, 2475-2476; *Chem. Abstr.*, 109: 110292y.

6 Soloshonok,* V. A.; Gerus, I. I.; Yagupolskii, Y. L.; Kukhar, V. P. Fluorine-Containing Amino Acids. III. α -Trifluoromethyl- α -Amino Acids, *Zh. Org. Khim.* **1987**, 23, 2308-2313; *Chem. Abstr.*, 109: 55185p.

1988 (3)

7 Galushko,* S. V.; Shishkina, I. P.; Kobzev, S. P.; Soloshonok, V. A.; Yagupolskii, Y. L.; Kukhar, V. P. Determination of Enantiomeric Composition of α -Trifluoromethyl- α -Amino Acids by Ligand-Exchange Microcolumn Chromatography, *Zh. Anal. Khim.* **1988**, 43, 2067-2069; *Chem. Abstr.*, 110: 111035z.

8 Soloshonok,* V. A.; Gerus, I. I.; Yagupolskii, Y. L.; Kukhar, V. P. Azomethine-Azomethine Isomerization of Fluorinated *N*-Benzylimines, *Zh. Org. Khim.* **1988**, 24, 993-997; *Chem. Abstr.*, 110: 134824v.

9 Soloshonok,* V. A.; Yagupolskii, Y. L.; Kukhar, V. P. Fluorine-Containing Amino Acids. V. Imines of Trifluoropyruvic Acid in the Synthesis of *N*-Substituted Trifluoroalanines, *Zh. Org. Khim.* **1988**, 24, 1638-1644; *Chem. Abstr.*, 110: 154827b.

1989 (4)

10 Kobzev, S. V.; Soloshonok,* V. A.; Galushko,* S. V.; Yagupolskii, Y. L.; Kukhar, V. P. Fluorine-Containing Amino Acids. VI. Acid-Base Properties of α -Trifluoromethyl- α -Amino Acids, *Zh. Obshch. Khim.* **1989**, *59*, 909-912; *Chem. Abstr.*, *112*: 217474y.

11 Khotkevich,* A. B.; Soloshonok,* V. A.; Kukhar, V. P. Reaction of 3,7-Dimethylenebicyclo[3.3.1]nonane with Trifluoroacetic Anhydride, *Zh. Org. Khim.* **1989**, *25*, 2240-2241; *Chem. Abstr.*, *113*: 5758q.

12 Soloshonok,* V. A.; Khotkevich,* A. B.; Serguchev, Y. A. Reaction of 3,7-Dimethylenebicyclo[3.3.1]-nonane with Pyridinium Perfluorocarboxylates, *Zh. Org. Khim.* **1989**, *25*, 2242-2243; *Chem. Abstr.*, *113*: 5759q.

13 Soloshonok,* V. A.; Yagupolskii, Y. L.; Kukhar, V. P. Derivatives of α -Trifluoromethylmalic Acid and their Reactions, *Zh. Org. Khim.* **1989**, *25*, 2523-2527; *Chem. Abstr.*, *113*: 39904z.

1990 (10)

14 Butovich,* I. A.; Soloshonok, V. A.; Solodenko, V. A.; Kukhar, V. P. Activation of 5-Lipoxygenase by Lipophilic *n*-Alkyl-Containing Acids is an Allosteric Process, *Bioorg. Khim.* **1990**, *16*, 270-271; *Chem. Abstr.*, *112*: 194312c.

15 Pazenok, S. V.; Soloshonok,* V. A.; Yagupolskii, L. M. Reactions of Perfluoro-Carbonyl Compounds with 1,3,3-Trimethyl-2-Methylenindoline, *Khim. Geterotsikl. Soedin.* **1990**, *132*; *Chem. Abstr.*, *113*: 23607u.

16 Soloshonok,* V. A.; Kukhar, V. P. Reactions of Methyl Trifluoropyruvate and its *N*-(Methoxycarbonyl)imine with π -Rich Heterocycles and Dipolar Compounds, *Zh. Org. Khim.* **1990**, *26*, 419-425; *Chem. Abstr.*, *113*: 59045y.

17 Kukhar, V. P.; Soloshonok,* V. S.; Galushko, S. V.; Rozhenko, A. B. Asymmetric [1,3]-Proton Shift in Azomethines as a New Approach to the Synthesis of Optically Active α -Trifluoromethyl-Containing Amines and Amino Acids, *Dokl. Akad. Nauk SSSR* **1990**, *310*, 886-889; *Chem. Abstr.*, *113*: 78920w.

18 Khotkevich,* A. B.; Soloshonok, V. A.; Yagupolskii, Y. L. Kinetics and Mechanism of the Isomerization of *N*-(1-Methoxycarbonyl-2,2,2-Trifluoroethylidene)- α -Methylbenzylamine, *Zh. Obshch. Khim.* **1990**, *60*, 1005-1008; *Chem. Abstr.*, *113*: 171274y.

19 Galushko,* S. V.; Shishkina, I. P.; Soloshonok, V. A.; Kukhar, V. P. Ligand-Exchange Chromatography of α -Trifluoromethyl- α -Amino Acids on Chiral Sorbents, *J. Chromatogr.* **1990**, *511*, 115-121.

20 Soloshonok,* V. A.; Belokon,* Y. N.; Kukhar, V. P.; Chernoglazova, N. I.; Saporovskaya, M. B.; Bakhmutov, V. I.; Kolycheva, M. T.; Belikov, V. M. Asymmetric Synthesis of Organo-element Analogs of Natural Products. 2. Convenient Synthetic Approach to Enantiomerically Pure (*S*)-(-)-*o*, *m*, *p*-Fluorophenylalanines and their 2-Methyl Derivatives, *Izv. Akad. Nauk SSSR, Ser. Khim.* **1990**, 1630-1636; *Chem. Abstr.*, *114*: 7135d.

21 Markovskii, L. N.; Shermolovich,* Y. G.; Barashenkov, G. G.; Kukhar, V. P.; Soloshonok,* V. A.; Rozhenko, A. B. Esters of α -Amino- α -Aryl- β,β,β -Trifluoroethanephosphonic Acids, *Zh. Obshch. Khim.* **1990**, *60*, 2244-2247; *Chem. Abstr.*, *115*: 8935x.

22 Soloshonok,* V. A.; Rozhenko, A. B.; Butovich, I. A.; Kukhar, V. P. Reactions of Methyl Trifluoropyruvate with Terminal Olefins, *Zh. Org. Khim.* **1990**, *26*, 2051-2056; *Chem. Abstr.*, *115*: 158486r.

23 Kukhar, V. P.; Yagupolskii, Y. L.; Soloshonok, V. S. β -Fluorine-Containing Amino Acids, *Russ. Chem. Reviews* **1990**, *59*, 89-102; *Chem. Abstr.*, *113*: 59792q.

1991 (8)

24 Butovich,* I. A.; Soloshonok, V. A.; Kukhar, V. P. The Unusual Action of (*R,S*)-2-Hydroxy-2-Trifluoromethyl-trans-*n*-octadec-4-enoic Acid on 5-Lipoxygenase from Potato Tubers, *Eur. J. Biochem.* **1991**, *199*, 153-155.

25 Soloshonok,* V. A.; Khotkevich, A. B.; Krasutskii, P. A. 3,7-Dimethylenebicyclo[3.3.1]nonane in the Ene Reactions, *Zh. Org. Khim.* **1991**, *27*, 746-749; *Chem. Abstr.*, *115*: 158568u.

26 Basyuk,* V. A.; Chuiko, A. A.; Soloshonok,* V. A.; Kukhar, V. P. Immobilization of α -Trifluoromethyl- α -Amino Acids on the Surface of γ -Aminopropylated Silica, *Zh. Obshch. Khim.* **1991**, *61*, 571-574; *Chem. Abstr.*, *115*: 136695f.

27 Soloshonok,* V. A.; Kukhar, V. P.; Galushko, S. V.; Kolycheva, M. T.; Rozhenko, A. B.; Belokon,* Y. N. Asymmetric Synthesis of Organoelement Analogs of Natural Products. 3. A General Method for Diastereo- and Enantioselective Synthesis of Fluorine-Containing (2*R*,3*S*)- β -Phenylserines, *Izv. Akad. Nauk SSSR, Ser. Khim.* **1991**, 1166-1175; *Chem. Abstr.*, *115*: 136682z.

28 Basyuk,* V. A.; Gromovoi, T. Y.; Chuiko, A. A.; Soloshonok, V. A.; Kukhar, V. P. Cyclodimerization of Gaseous α -Amino Acids in the Presence of a Silica, *Dokl. Akad. Nauk SSSR* **1991**, *318*, 905-906; *Chem. Abstr.*, *115*: 183858w.

29 Soloshonok,* V. A.; Kukhar, V. P.; Batsanov, A. S.; Galakhov, M. A.; Belokon,* Y. N.; Struchkov, Y. T. Asymmetric Synthesis of Organoelement Analogs of Natural Products. 4. Diastereo- and Enantioselective Synthesis of (2*S*,3*S*)-4,4,4-

Trifluorothreonine and (2*S*,3*S*)- β -Perfluoroalkylserines, *Izv. Akad. Nauk SSSR, Ser. Khim.* **1991**, 1548-1554; *Chem. Abstr.*, *115*: 256590q.

30 Soloshonok,* V. A.; Kukhar, V. P.; Galushko, S. V.; Rozhenko, A. B.; Kuzmina, N. A.; Kolycheva, M. T.; Belokon,* Y. N. Asymmetric Synthesis of Organoelement Analogs of Natural Products. 5. Diastereo- and Enantioselective Synthesis of Fluorine-Substituted (2*S*,3*R*)- and (2*R*,3*R*)- β -Phenylserines, *Izv. Akad. Nauk SSSR, Ser. Khim.* **1991**, 1906-1913; *Chem. Abstr.*, *116*: 21426x.

31 Kukhar V. P.; Soloshonok,* V. A.; Aliphatic Fluorine-Containing Amino Acids, *Russ. Chem. Reviews* **1991**, *60*, 850-864; *Chem. Abstr.*, *115*: 208467h.

1992 (8)

32 Soloshonok,* V. A.; Svistunova, N. Y.; Kukhar, V. P.; Gudima, A. O.; Kuzmina, N. A.; Belokon,* Y. N.; Asymmetric Synthesis of Organoelement Analogs of Natural Products. 7. (2*R*,3*S*)-2-Amino-3-Hydroxy-5-Phosphonovaleric Acids, *Izv. Akad. Nauk SSSR, Ser. Khim.* **1992**, 1172-1175; *Chem. Abstr.*, *118*: 169180z.

33 Soloshonok,* V. A.; Svistunova, N. Y.; Kukhar, V. P.; Solodenko, V. A.; Kuzmina, N. A.; Rozhenko, A. B.; Galushko, S. V.; Shishkina, I. P.; Gudima, A. O.; Belokon,* Y. N. Asymmetric Synthesis of Organoelement Analogs of Natural Products. 6. (*S*)- α -Amino- ω -Phosphonocarboxylic Acids, *Izv. Akad. Nauk SSSR, Ser. Khim.* **1992**, 397-402; *Chem. Abstr.*, *118*: 255271m.

34 Soloshonok,* V. A.; Svistunova, N. Y.; Kukhar, V. P.; Kuzmina, N. A.; Belokon,* Y. N. Asymmetric Synthesis of Organoelement Analogs of Natural Products. 8. Reactions of Pentafluorobenzaldehyde with Nickel(II) Complex of Schiff Base Between Glycine and (*S*)-2-[*N*-(Benzylpropyl)amino]benzophenone, *Izv. Akad. Nauk SSSR, Ser. Khim.* **1992**, 687-693; *Chem. Abstr.*, *117*: 212905h.

35 Basyuk,* V. A.; Gromovoi, T. Y.; Chuiko, A. A.; Soloshonok, V. A.; Kukhar, V. P. A Novel Approach to the Synthesis of Symmetric Optically Active 2,5-Dioxopiperazines, *Synthesis* **1992**, 449-451.

36 Yurchenko, A. G.; Fedorenko,* T. V.; Tikhonov, V. P.; Soloshonok,* V. A.; Kukhar, V. P. 2,2,2-Trifluoro-1-(1-Adamantyl)ethylamine Hydrochloride, *J. Fluorine Chem.* **1992**, *56*, 315-319.

37 Soloshonok,* V. A.; Kukhar, V. P.; Pustovit, Y.; Nazaretyan, V. A New and Convenient Synthesis of *S*-Trifluoromethyl-Containing Amino Acids, *SYNLETT* **1992**, 657-658.

38 Soloshonok,* V. A.; Belokon,* Y. N.; Kuzmina, N. A.; Maleev, V. I.; Svistunova, N. Y.; Solodenko, V. A.; Kukhar, V. P. Asymmetric Synthesis of Phosphorus Analogs of Dicarboxylic α -Amino Acids, *J. Chem. Soc., Perkin Trans. I* **1992**, 1525-1529.

39 Galushko,* S. V.; Shishkina, I. P.; Soloshonok, V. A. High-Performance Ligand-Exchange Chromatography of Some Amino Acids Containing Two Chiral Centers, *J. Chromatogr.* **1992**, *592*, 345-348.

1993 (10)

40 Soloshonok,* V. A.; Svedas, V. K.; Kukhar, V. P.; Kirilenko, A. G.; Rybakova, A. V.; Solodenko, V. A.; Fokina, N. A.; Kogut, O. V.; Galaev, I. Y.; Kozlova, E. V.; Shishkina, I. P.; Galushko, S. V. An Enzymatic Entry to Enantiopure β -Amino Acids, *SYNLETT* **1993**, 339-341.

41 Kukhar, V. P.; Belokon, Y. N.; Svistunova,* N. Y.; Soloshonok,* V. A.; Rozhenko, A. B.; Kuzmina, N. A. Asymmetric Synthesis of Organoelement Analogs of Natural Products. Part 12. General Method for the Asymmetric Synthesis of Fluorine-Containing Phenylalanines and α -Methylphenylalanines via Alkylation of the Chiral Nickel(II) Schiff's Base Complexes of Glycine and Alanine, *Synthesis* **1993**, 117-121.

42 Soloshonok,* V. A.; Galaev, I. Y.; Svedas, V. K.; Kozlova, E. V.; Kotik, N. V.; Shishkina, I. P.; Galushko, S. V.; Rozhenko, A. B.; Kukhar, V. P. Homochiral organoelement analogs of Natural Products. 10. Preparative Biocatalytic Methods for Preparation of (*L*)- and (*D*)-Phenylglycines, *Bioorgan. Khim.* **1993**, *19*, 467-473.

43 Kukhar, V. P.; Soloshonok,* V. A.; Svedas, V. K.; Kotik, N. V.; Galaev, I. Y.; Kirilenko, A. G.; Kozlova, E. V. Homochiral organoelement analogs of Natural Products. 11. 3-Amino-4,4,4-Trifluorobutanoic Acid: Synthesis, Enzymatic Resolution, and Determination of the Absolute Configuration of the Enantiomers, *Bioorgan. Khim.* **1993**, *19*, 474-477.

44 Soloshonok,* V. A.; Svedas, V. K.; Kukhar, V. P.; Galaev, I. Y.; Kozlova, E. V.; Svistunova, N. Y. Homochiral organoelement analogs of Natural Products. 14. Biocatalytic Method for Preparation of Homochiral Fluorine-Containing (*R*)- and (*S*)-Phenylalanines and (*2S,3R*)-, (*2R,3S*)-Phenylserines, *Bioorgan. Khim.* **1993**, *19*, 478-484.

45 Kukhar, V. P.; Svistunova, N. Y.; Solodenko, V. A.; Soloshonok,* V. A. Asymmetric Synthesis of Fluorine and Phosphorus-Containing Amino Acids, *Russ. Chem. Reviews* **1993**, *62*, 261-278.

46 Soloshonok,* V. A.; Kirilenko, A. G.; Kukhar, V. P.; Resnati, G. Transamination of Fluorinated β -Keto Carboxylic Esters. A Biomimetic Approach to β -Polyfluoroalkyl- β -Amino Acids, *Tetrahedron Lett.* **1993**, *34*, 3621-3624.

47 Bravo,* P.; Frigerio, M.; Soloshonok, V. A.; Viani, F. Optically Pure and Fluoro Substituted Carboacyclic Nucleoside Analogues, *Tetrahedron Lett.* **1993**, *34*, 7771-7772.

48 Soloshonok,* V. A.; Svistunova, N. Y.; Kukhar, V. P.; Kuzmina, N. A.; Popov, V. I.; Belokon, Y. N. Asymmetric Synthesis of Organoelement Analogs of Natural

Products. 17. Fluorine-Containing Esters of (*S*)-Homocysteic Acid, *Izv. Akad. Nauk SSSR, Ser. Khim.* **1993**, 786-790.

49 Soloshonok,* V. A.; Kukhar, V. P.; Galushko, S. V.; Svistunova, N. Y.; Avilov, D. V.; Kuzmina, N. A.; Raevski, N. I.; Struchkov, Y. T.; Pisarevsky, A. P.; Belokon,* Y. N. General Method for the Synthesis of Enantiomerically Pure β -Hydroxy- α -Amino Acids, Containing Fluorine Atoms in the Side Chains. Case of Stereochemical Distinction Between Methyl and Trifluoromethyl Groups. X-Ray Crystal and Molecular Structure of the Nickel(II) Complex of (*2S,3S*)-2-(Trifluoromethyl)threonine, *J. Chem. Soc. Perkin Trans I* **1993**, 3143-3155.

1994 (13)

50 Kukhar, V. P.; Soloshonok,* V. A.; Solodenko, V. A. Asymmetric Synthesis of Phosphorus Analogs of Amino Acids, *Phosphorus, Sulfur, and Silicon* **1994**, 92, 239-264.

51 Kukhar, V. P.; Luik, A. I.; Soloshonok,* V. A.; Svistunova, N. Y.; Skryma,* R. N.; Rybalchenko, V. V.; Belokon, Y. N.; Kuzmina, N. A.; Asymmetric Synthesis of Organoelement Analogs of Natural Products. 16. Asymmetric Synthesis and Investigation into Specific Bioactivity of (*2R,3S*)- and (*2S,3R*)-2-Amino-3-Hydroxy-4-Phosphonobutanoic Acids, *Khim. Pharm. Zh.* **1994**, 27(9), 35-37.

52 Soloshonok,* V. A.; Hayashi* T.; Ishikawa, K.; Nagashima, N. Highly Diastereoselective Aldol Reaction of Fluoroalkyl Aryl Ketones with Methyl Isocyanacetate Catalyzed by Silver(I)/Triethylamine, *Tetrahedron Letters* **1994**, 35, 1055-1058.

53 Soloshonok, V. A.; Hayashi,* T. Gold(I)-Catalyzed Asymmetric Aldol Reaction of Methyl Isocyanacetate with Fluorinated Benzaldehydes, *Tetrahedron Letters* **1994**, 35, 2713-2716.

54 Soloshonok,* V. A.; Kirilenko, A. G.; Kukhar, V. P.; Resnati, G. A Practical Rout to Fluoroalkyl- and Fluoroarylamines by Base-Catalyzed [1,3]-Proton Shift Reaction, *Tetrahedron Letters* **1994**, 35, 3119-3122.

55 Soloshonok,* V. A.; Kirilenko, A. G.; Galushko, S. V.; Kukhar, V. P. Catalytic Asymmetric Synthesis of β -Fluoroalkyl- β -Amino Acids *via* Biomimetic [1,3]-Proton Shift Reaction, *Tetrahedron Letters* **1994**, 35, 5063-5064.

56 Soloshonok, V. A.; Hayashi,* T. Gold(I)-Catalyzed Asymmetric Aldol Reaction of Fluorinated Benzaldehydes with α -Isocyanacetamide, *Tetrahedron: Asymmetry* **1994**, 5, 1091-1094.

57 Soloshonok,* V. A.; Kirilenko, A. G.; Fokina, N. A.; Shishkina, I. P.; Galushko, S. V.; Kukhar, V. P.; Svedas, V. K.; Kozlova, E. V. Biocatalytic Resolution of β -Fluoroalkyl- β -Amino Acids, *Tetrahedron: Asymmetry* **1994**, 5, 1119-1126.

58 Bravo,* P.; Farina, A.; Frigerio, M.; Valdo Meille, S.; Viani, F.; Soloshonok,* V. A. New Fluorinated Chiral Synthons, *Tetrahedron: Asymmetry* **1994**, *5*, 987-1004.

59 Bravo,* P.; Frigerio, M.; Fronza, G.; Soloshonok,* V. A.; Viani, F.; Cavicchio, G.; Fabrizi, G.; Lamba, D. Stereoselective Oxirane Formation by Reaction of Diazomethane on 1-Fluoro-3-[(4-Methylphenyl)sulfinyl]-3-Phenylpropan-2-One, *Can. J. Chem.* **1994**, *72*, 1769-1779.

60 Galushko,* S. V.; Shishkina, I. P.; Soloshonok, V. A. Ligand-Exchange High-Performance Ligand Chromatography of Fluorine-Containing Phenylglycine and Phenylalanine, *J. Chromatogr.* **1994**, *661*, 51-54.

61 Soloshonok,* V. A.; Kirilenko, A. G.; Fokina, N. A.; Galushko, S. V.; Kukhar, V. P.; Svedas, V. K.; Resnati, G. Chemo-Enzymatic Approach to the Synthesis of Each of the Four Isomers of α -Alkyl- β -Fluoroalkyl-Substituted β -Amino Acids, *Tetrahedron: Asymmetry* **1994**, *5*, 1225-1228.

62 Bravo,* P.; Capelli, S.; Meille, S. V.; Viani, F.; Zanda, M.; Kukhar, V. P.; Soloshonok,* V. A. Synthesis of Optically Pure (*R*)- and (*S*)- α -Trifluoromethyl-Alanine, *Tetrahedron: Asymmetry* **1994**, *5*, 2009-2018.

1995 (3)

63 Bravo,* P.; Viani, F.; Zanda, M.; Soloshonok, V. Synthesis of Enantiomerically Pure (*R*)- and (*S*)- α -Trifluoromethylserine, *Gazz. Chim. Ital.* **1995**, *125*, 149-150.

64 Soloshonok,* V. A.; Fokina, N. A.; Rybakova, A. V.; Shishkina, I. P.; Galushko, S. V.; Sorochinsky, A. E.; Kukhar, V. P.; Savchenko, M. V.; Svedas,* V. K. Biocatalytic Approach to Enantiomerically Pure β -Amino Acids, *Tetrahedron: Asymmetry* **1995**, *6*, 1601 - 1610.

65 Soloshonok,* V. A.; Avilov, D. V.; Kukhar, V. P.; Tararov, V. I.; Saveleva, T. F.; Churkina, T. D.; Ikonnikov, N. S.; Kochetkov, K. A.; Orlova, S. A.; Pysarevsky, A. P.; Struchkov, Y. T.; Raevsky, N. I.; Belokon,* Y. N. Asymmetric Aldol Reactions of Chiral Ni(II)-Complex of Glycine with Aldehydes. Stereodivergent Synthesis of *syn*-(2*S*)- and *syn*-(2*R*)- β -Alkylserines, *Tetrahedron: Asymmetry* **1995**, *6*, 1741-1756.

1996 (12)

66 Soloshonok,* V. A.; Kacharov, A. D.; Hayashi,* T. Gold(I)-Catalyzed Asymmetric Aldol Reactions of Isocyanoacetic Acid Derivatives with Fluoroaryl Aldehydes, *Tetrahedron* **1996**, *52*, 245 - 254.

67 Soloshonok,* V. A.; Kukhar, V.P. Biomimetic Base-Catalyzed [1,3]-Proton Shift Reaction. A Practical Synthesis of β -Fluoroalkyl- β -Amino Acids, *Tetrahedron* **1996**, *52*, 6953-6964.

68 Soloshonok,* V. A.; Avilov, D. V.; Kukhar', V. P. Highly Diastereoselective Asymmetric Aldol Reactions of Chiral Ni(II)-Complex of Glycine with Trifluoromethyl Ketones, *Tetrahedron: Asymmetry* **1996**, *7*, 1547-1550.

69 Hayashi,* T.; Kishi, E.; Soloshonok, V. A.; Uozumi, Y. Erythro-Selective Aldol-Type Reaction of *N*-Sulfonylaldimines with Methyl Isocynoacetate Catalyzed by Gold(I), *Tetrahedron Letters* **1996**, *37*, 4969-4972.

70 Ono,* T.; Soloshonok, V. A.; Fukaya, H.; Nishida, M.; Abe, T. Fluorine-Containing Biochemical Probes for ¹⁹F-NMR Imaging: Part I. Synthesis of 3,5-bis(Hexafluoro-2-hydroxy-2-propyl)- and 3,5-bis(Hexafluoro-2-methoxy-2-propyl)benzene Derivatives Having a C_{2v}-Symmetry, *Reports of the National Industrial Research Institute of Nagoya* **1996**, *45*, 315-320.

71 Bravo,* P.; Viani, F.; Zanda, M.; Kukhar, V. P.; Soloshonok, V. A.; Fokina, N. A.; Shishkin, O. V.; Struchkov, Y. T. Synthesis of Both Enantiomers of α -Trifluoromethyl-Butyrine and α -Trifluoromethyl-Phenylalanine, *Gazz. Chim. Ital.* **1996**, *126*, 645-652.

72 Favretto, D.; Traldi,* P.; Resnati, G.; Soloshonok, V. A.; Fast Atom Bombardment Mass Spectrometry in the Characterization of Some Fluorinated β -Hydroxy- α -Amino Acids, *J. Fluor. Chemistry* **1996**, *80*, 41-45.

73 Ono, T.; Kukhar V. P.; Soloshonok,* V. A. Biomimetic Reductive Amination of Fluoro-Aldehydes and Ketones via [1,3]-Proton Shift Reaction: Scope and Limitations, *J. Org. Chem.* **1996**, *61*, 6563-6569.

74 Soloshonok,* V. A.; Avilov,* D. V.; Kukhar, V. P. Asymmetric Aldol Reactions of Trifluoromethyl Ketones with a Chiral Ni(II) Complex of Glycine: Stereocontrolling Effect of the Trifluoromethyl Group, *Tetrahedron* **1996**, *52*, 12433-12442.

75 Soloshonok* V. A.; Ono, T. The Effect of Substituents on the Feasibility of [1,3]-Proton Shift Reaction: New Synthetic Opportunities, *SYNLETT*, **1996**, 919-921.

76 Soloshonok,* V. A.; Kacharov, A .D.; Avilov, D. V.; Hayashi,* T. Transition Metal-Catalyzed Diastereoselective Aldol Reactions of Prochiral Ketones with Methyl Isocynoacetate, *Tetrahedron Letters* **1996**, *37*, 7845-7848.

77 Soloshonok,* V. A.; Ono, T. The Effect of Substituents on the Feasibility of Azomethine-Azomethine Isomerization: New Synthetic Opportunities for Biomimetic Transamination, *Tetrahedron* **1996**, *52*, 14701-14712.

1997 (9)

78 Soloshonok,* V. A.; Ono, T. Highly Enantioselective Transfer of Chirality from a Less to a More Conformationally Unstable Stereogenic Center. A Practical Asymmetric Synthesis of Perfluoroalkyl Amines, *J. Org. Chem.* **1997**, *62*, 3030-3031.

79 Bravo,* P.; Farina, A.; Kukhar, V. P.; Markovsky, A. L.; Meille, S. V.; Soloshonok,* V. A.; Sorochinsky, A. E.; Viani, F.; Zanda* M.; Zappala, C. Stereoselective Additions of α -Lithiated Alkyl *p*-Tolylsulfoxides to *N*-PMP Fluoroalkyl Aldimines. An Efficient Approach to Enantiomerically Pure Fluoro-Amino Compounds, *J. Org. Chem.* **1997**, *62*, 3424-3425.

80 Soloshonok,* V. A.; Kacharov, A. D.; Avilov, D. V.; Ishikawa, K.; Nagashima N.; Hayashi*, T. Transition Metal/Base-Catalyzed Aldol Reactions of Methyl α -Isocyanoacetate with Prochiral Ketones, a Straightforward Approach to Stereochemically Defined β,β -Disubstituted- β -Hydroxy- α -Amino Acids. Scope and Limitations, *J. Org. Chem.* **1997**, *62*, 3470-3479.

81 Sorochinsky,* A. E.; Petrenko, A. A.; Soloshonok,* V. A.; Resnati, G. Regioselective Oxyfunctionalization of Bridgehead Adamantane Derivatives, *Tetrahedron* **1997**, *53*, 5995-6000.

82 Soloshonok,* V. A.; Avilov, D. V.; Kukhar', V. P.; Meervelt, L. V.; Mischenko, N. Highly Diastereoselective aza-Aldol Reactions of a Chiral Ni(II) Complex of Glycine with Imines. An Efficient Asymmetric Approach to 3-Perfluoroalkyl-2,3-Diamino Acids, *Tetrahedron Letters* **1997**, *38*, 4671-4674.

83 Soloshonok,* V. A.; Kukhar', V. P. Biomimetic Transamination of α -Keto Perfluorocarboxylic Esters. An Efficient Preparative Synthesis of β,β,β -Trifluoroalanine, *Tetrahedron* **1997**, *53*, 8307-8314.

84 Soloshonok,* V. A.; Avilov, D. V.; Kukhar', V. P.; Meervelt, L. V.; Mischenko, N. An Efficient Asymmetric Synthesis of (2*S*,3*S*)-3-Trifluoromethylpyroglutamic Acid, *Tetrahedron Letters* **1997**, *38*, 4903-4904.

85 Soloshonok,* V. A.; Ono T.; Soloshonok, I. V. Enantioselective Biomimetic Transamination of β -Keto Carboxylic Acid Derivatives. An Efficient Asymmetric Synthesis of β -Fluoroalkyl- β -Amino Acids, *J. Org. Chem.* **1997**, *62*, 7538-7539.

86 Arnone, A.; Bravo,* P.; Frigerio, M.; Meille, S. V.; Romita, V.; Viani, F.; Zappala, C.; Soloshonok,* V. A.; Shishkin, O. V.; Struchkov, Y. T. Reactions of α -Substituted β -Keto- γ -Fluoro Sulfoxides with Diazomethane. A General Approach to Enantiomerically Pure α -Fluoromethyl- α',α' -Alkyl/Alkenyl-Sulfinylmethyl Oxiranes, *Gazz. Chim. Ital.* **1997**, *127*, 819-826.

1998 (4)

87 Soloshonok,* V. A.; Soloshonok, I. V.; Kukhar, V. P.; Svedas*, V. K. Biomimetic Transamination of α -Alkyl- β -keto Carboxylic Esters. Chemo-Enzymatic

Approach to the Stereochemically Defined α -Alkyl- β -Fluoroalkyl- β -Amino Acids, *J. Org. Chem.* **1998**, *63*, 1878-1884.

88 Arnone, A.; Bravo,* P.; Frigerio, M.; Viani, F.; Soloshonok,* V. A. Synthesis and Reactivity of Enantiomerically Pure 2-Fluoromethyl-2-(1'-*p*-Tolylsulfinyl)alkyl Oxiranes, *Tetrahedron* **1998**, *54*, 11825-11840.

89 Arnone, A.; Bravo,* P.; Frigerio, M.; Viani, F.; Soloshonok,* V. A. Highly Diastereoselective Methylene Transfer from Diazomethane to the Carbonyl of β -Keto Sulfoxides. A General Approach to Synthetically Versatile Fluorine-Containing Chiral Building Blocks, *Tetrahedron* **1998**, *54*, 11841-11860.

90 Bravo,* P.; Guidetti, M.; Viani, F.; Zanda,* M.; Markovsky, A. L.; Sorochinsky, A. E.; Soloshonok I. V.; Soloshonok,* V. A. Chiral Sulfoxide Controlled Asymmetric Additions to C,N Double Bond. An Efficient Approach to Stereochemically Defined α -Fluoroalkyl Amino Compounds, *Tetrahedron* **1998**, *54*, 12789-12806.

1999 (4)

91 Bravo,* P.; Capelli, S.; Guidetti, M.; Meille, S. V.; Viani, F.; Zanda,* M.; Markovsky, A. L.; Sorochinsky, A. E.; Soloshonok,* V. A. Asymmetric Synthesis of α -Arylglycinols *via* Additions of Lithium *p*-Tolyl Methyl Sulfoxide to *N*-(PMP)aryldimines Followed by "Non Oxidative" Pummerer Reaction, *Tetrahedron* **1999**, *55*, 3025-3040.

92 Soloshonok,* V. A.; Cai, C.; Hruba,* V. J.; Meervelt, L. V.; Mischenko, N. Stereochemically Defined *C*-Substituted Glutamic Acids and their Derivatives. 1. An Efficient Asymmetric Synthesis of (2*S*,3*S*)-3-Methyl- and -3-Trifluoromethylpyroglutamic Acids, *Tetrahedron* **1999**, *55*, 12031-12044.

93 Soloshonok,* V. A.; Cai, C.; Hruba,* V. J.; Meervelt, L. V. Asymmetric Synthesis of Novel Highly Sterically Constrained (2*S*,3*S*)-3-Methyl-3-Trifluoromethyl- and (2*S*,3*S*,4*R*)-3-Trifluoromethyl-4-Methylpyroglutamic Acids, *Tetrahedron* **1999**, *55*, 12045-12058.

94 Soloshonok,* V. A.; Cai, C.; Hruba,* V. J. Asymmetric Michael Addition Reactions of Chiral Ni(II) Complex of Glycine with *N*-(Enoyl)oxazolidinones: Improved Reactivity and Stereochemical Outcome, *Tetrahedron: Asymmetry*, **1999**, *10*, 4265-4269.

2000 (9)

95 Soloshonok,* V. A.; Cai, C.; Hruba,* V. J. Toward Design of a Practical Methodology for Stereocontrolled Synthesis of χ -Constrained Pyroglutamic Acids and Related Compounds. Virtually Complete Control of Simple Diastereoselectivity in the Michael Addition Reactions of Glycine Ni(II) Complexes with *N*-(Enoyl)oxazolidinones, *Tetrahedron Lett.* **2000**, *41*, 135-139.

96 Ishii, A.; Soloshonok, V. A.; Mikami,* K. Asymmetric Catalysis of the Friedel-Crafts reaction with Fluoral by Chiral Binaphthol-Derived Titanium Catalysts through Asymmetric Activation, *J. Org. Chem.* **2000**, *65*, 1597-1599.

97 Soloshonok,* V. A.; Cai, C.; Hruby,* V. J. (*S*)- or (*R*)-*N*-(*E*-enoyl)-4-phenyl-1,3-oxazolidin-2-ones: Ideal Michael Acceptors to Afford a Virtually Complete Control of Simple and Face Diastereoselectivity in Addition Reactions with Glycine Derivatives. *Org. Letters* **2000**, *2*, 747-750.

98 Qiu, W.; Soloshonok,* V. A.; Cai, C.; Tang, X.; Hruby,* V. J. Convenient, Large-Scale Asymmetric Synthesis of Enantiomerically Pure *trans*-Cinnamylglycine and - α -Alanine. *Tetrahedron* **2000**, *56*, 2577-2582.

99 Basiuk,* V. A.; Meervelt, L. V.; Soloshonok, V. A.; Basiuk, E. V. 2,2,5,5,8,8-Hexamethyl-2,3,5,6,7,8-hexahydroimidazo[1,2- α]pyrazine-3,6-dione: A Bicyclic Product of α -aminoisobutyric Acid Condensation, *Acta Cryst. C* **2000**, *56*, 598-599.

100 Soloshonok,* V. A.; Cai, C.; Hruby,* V. J. A Practical Asymmetric Synthesis of Enantiomerically Pure 3-Substituted Pyroglutamic Acids and Related Compounds, *Angew. Chem. In. Ed. Engl.* **2000**, *39*, 2172-2175.

101 Tang, X.; Soloshonok,* V. A.; Hruby,* V. J. Convenient Asymmetric Synthesis of Enantiomerically Pure 2',6'-Dimethyltyrosine (DMT) via Alkylation of Chiral Nucleophilic Glycine Equivalent, *Tetrahedron: Asymmetry* **2000**, *11*, 2917-2925.

102 Soloshonok,* V. A.; Cai, C.; Hruby,* V. J.; Meervelt, L. V.; Yamazaki, T. Rational Design of Highly Diastereoselective, Organic Base-Catalyzed, Room Temperature Michael Addition Reactions, *J. Org. Chem.* **2000**, *65*, 6688-6696.

103 Soloshonok,* V. A.; Cai, C.; Hruby,* V. J. A Unique Case of Face Diastereoselectivity in the Michael Addition Reactions Between Ni(II)-Complexes of Glycine and Chiral 3-(*E*-enoyl)-1,3-oxazolidin-2-ones, *Tetrahedron Lett.* **2000**, *41*, 9645-9649.

2001 (4)

104 Qiu, W.; Gu, X.; Soloshonok, V. A.; Carducci, M. D.; Hruby,* V. J. Stereoselective Synthesis of Conformationally Constrained Reverse Turn Dipeptide Mimetics, *Tetrahedron Lett.* **2001**, *42*, 145-148.

105 Soloshonok,* V. A.; Tang, X.; Hruby,* V. J.; Meervelt, L. V. Asymmetric Synthesis of α,β -Dialkyl- α -Phenylalanines via Direct Alkylation of Chiral Alanine Derivative with Racemic α -Alkylbenzylbromides. A Case of High Enantiomer Differentiation at Room Temperature, *Org. Letters* **2001**, *3*, 341-343.

106 Cai, C.; Soloshonok,* V. A.; Hruby,* V. J. Michael Addition Reactions Between Chiral Ni(II) Complex of Glycine and 3-(*trans*-enoyl)oxazolidin-2-ones. A Case

of Electron Donor-Acceptor Attractive Interactions-Controlled Face Diastereoselectivity, *J. Org. Chem.* **2001**, *66*, 1339-1350.

107 Soloshonok,* V. A.; Tang, X.; Hruby,* V. J. Large-Scale Asymmetric Synthesis of Novel Sterically Constrained 2',6'-Dimethyl- and $\alpha,2',6'$ -Trimethyltyrosine and -phenylalanine Derivatives *via* Alkylation of Chiral Equivalents of Nucleophilic Glycine and Alanine, *Tetrahedron* **2001**, *57*, 6375-6382.

2002 (4)

108 Soloshonok,* V. A. Highly Diastereoselective Michael Addition Reactions between Nucleophilic Glycine Equivalents and β -substituted- α,β -Unsaturated Carboxylic acid Derivatives; a General Approach to the Stereochemically Defined and Sterically χ -Constrained α -Amino Acids, *Current Organic Chemistry* **2002**, *6*, 341-364.

109 Soloshonok,* V. A.; Ohkura, H.; Sorochinsky, A.; Voloshin N.; Markovsky, A.; Belik, M.; Yamazaki, T. Convenient, Large-scale Asymmetric Synthesis of β -Aryl-Substituted α,α -Difluoro- β -Amino Acids, *Tetrahedron Lett.* **2002**, *43*, 5445-5448.

110 Soloshonok,* V. A.; Ohkura, H.; Uneyama, K. Reducing Reagent-Free, Biomimetic Reductive Amination of Perfluorocarboxylic Acids to α,α -Dihydroperfluoroamines, *Tetrahedron Lett.* **2002**, *43*, 5449-5452.

111 Soloshonok,* V. A.; Ueki, H.; Jiang, C.; Cai, C. Hruby,* V. J. A Convenient, Room Temperature-Organic Base Protocol for Preparing Chiral *N*-(Enoyl)-1,3-oxazolidine-2-ones, *Helv. Chim. Acta* **2002**, *85*, 3616-3623.

2003 (10)

112 Ellis, T. K.; Martin, C. H.; Ueki, H.; Soloshonok,* V. A. Efficient, Practical Synthesis of Symmetrically α,α -Disubstituted α -Amino Acids, *Tetrahedron Lett.* **2003**, *44*, 1063-1066.

113 Ohkura, H.; Berbasov, D. O.; Soloshonok,* V. A. Simple and Highly Diastereoselective Synthesis of Trifluoromethyl-Containing Myosmines *via* Reaction Between 2-(Aminomethyl)pyridine and 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione, *Tetrahedron Lett.* **2003**, *44*, 2417-2420.

114 Ohkura, H.; Berbasov, D. O.; Soloshonok,* V. A. Chemo- and Regioselectivity in the Reactions between Highly Electrophilic Fluorine Containing Dicarboxyl Compounds and Amines. Improved Synthesis of the Corresponding Imines/Enamines, *Tetrahedron* **2003**, *59*, 1647-1656.

115 Ueki, H.; Ellis, T. K.; Martin, C. H.; Soloshonok,* V. A. Efficient Large-Scale Synthesis of Picolinic Acid Derived Ni(II)-Complexes of Glycine, *Eur. J. Org. Chem.* **2003**, 1954-1957.

116 Ellis, T. K.; Hochla, V. M.; Soloshonok,* V. A. Efficient Synthesis of 2-Aminoindane-2-Carboxylic Acid via Dialkylation of Nucleophilic Glycine Equivalent, *J. Org. Chem.* **2003**, *68*, 4973-4976.

117 Ellis, T. K.; Martin, C. H.; Tsai, G. M.; Ueki, H.; Soloshonok,* V. A. Efficient Synthesis of Sterically Constrained Symmetrically α,α -Disubstituted α -Amino Acids under Operationally Convenient Conditions, *J. Org. Chem.* **2003**, *68*, 6208-6214.

118 Berbasov, D. O.; Soloshonok,* V. A. Chemoselectivity in the Reactions between Ethyl 4,4,4-Trifluoro-3-oxobutanoate and Anilines. Improved Synthesis of 2-Trifluoromethyl-4- and 4-Trifluoromethyl-2-quinolinones, *SYNTHESIS*, **2003**, 2005-2010.

119 Ueki, H.; Ellis, T. K.; Martin, C. H.; Bolene, S. B.; Boettiger, T. U.; Soloshonok,* V. A. Improved Synthesis of Proline Derived Ni(II)-Complexes of Glycine, a Versatile Chiral Equivalents of Nucleophilic Glycine for General Asymmetric Synthesis of α -Amino Acids, *J. Org. Chem.* **2003**, *68*, 7104-7107.

120 Ueki, H.; Ellis, T. K.; Khan M. A.; Soloshonok* V. A. Highly Diastereoselective Synthesis of New, Carbostyryl-Based Type of Conformationally-Constrained β -Phenylserines, *Tetrahedron* **2003**, *59*, 7301-7306.

121 Sorochinsky, A.; Voloshin, N.; Markovsky, A.; Belik, M.; Yasuda, N.; Uekusa, H.; Ono, T.; Berbasov, D. O.; Soloshonok,* V. A. Convenient Asymmetric Synthesis of β -Substituted α,α -Difluoro- β -Amino Acids via Reformatsky Reaction between Davis' *N*-Sulfinylimines and Ethyl Bromodifluoroacetate, *J. Org. Chem.* **2003**, *68*, 7448-7454.

2004 (7)

122 Berbasov, D. O.; Ojemaye, I. D.; Soloshonok* V. A. Synthesis of Highly 1,3-Proton-Shift-Transferable *N*-Benzyl Imines of Trifluoroacetophenone under the "Low-Basicity" Reaction Conditions, *J. Fluor. Chem.* **2004**, *125*, 603-607.

123 Taylor, S. M.; Yamada, T.; Ueki, H.; Soloshonok* V. A. Asymmetric Synthesis of Enantiomerically Pure 4-Aminoglutamic Acids via Methylenedimerization of Chiral Glycine Equivalents with Dichloromethane under Operationally Convenient Conditions, *Tetrahedron Lett.* **2004**, *45*, 9159-9162.

124 Cai, M.; Cai, C. Mayorov, A. V.; Xiong, C.; Cabello, C. M.; Soloshonok, V. A.; Swift, J. R. Trivedi, D.; Hruby,* V. J. Biological and conformational study of β -substituted prolines in MT-II template: steric effects leading to human MC5 receptor selectivity, *J. Peptide Research*, **2004**, *63*, 116-131.

125 Soloshonok,* V. A.; Ueki, H.; Tiwari, R.; Cai, C.; Hruby, V. J. Virtually Complete Control of Simple and Face Diastereoselectivity in the Michael Addition Reactions between Achiral Equivalents of a Nucleophilic Glycine and (*S*)- or (*R*)-3-(*E*-Enoyl)-4-phenyl-1,3-oxazolidin-2-ones: Practical Method for Preparation of β -Substituted Pyroglutamic Acids and Prolines, *J. Org. Chem.* **2004**, *69*, 4984-4990.

126 Soloshonok,* V. A.; Berbasov, D. O. Synthesis of Fluorine-Containing Compounds under Operationally Convenient Conditions, *J. Fluor. Chem.* **2004**, *125*, 1757-1763.

127 Cai, C.; Yamada, T.; Tiwari, R.; Hruby, V. J.; Soloshonok, V. A. Application of (*S*)- and (*R*)-Methyl Pyroglutamates as Inexpensive, Yet Highly Efficient Chiral Auxiliaries in the Asymmetric Michael Addition Reactions, *Tetrahedron Lett.* **2004**, *45*, 6855-6858.

128 Uytterhoeven, K.; Soloshonok, V. A.; van Meervelt, L. Crystal structure of {(*S*)-*N*-[2-(*N*-benzylpropyl)aminobenzophenone]-[(2*S*,3*R*)-3-*N*-[(4-methoxycarbonyl)-phenylamine]-3-phenylpropanoic acid-*O,N,N',N''*] }nickel(II), Ni(C₄₂H₃₈N₄O₅), *Z. Kristallogr. NCS*, **2004**, *219*, 453-454.

2005 (4)

129 Soloshonok,* V. A.; Ueki, H.; Ellis, T. K. New Generation of Nucleophilic Glycine Equivalents, *Tetrahedron Lett.* **2005**, *46*, 941-944.

130 Soloshonok,* V. A.; Ueki, H.; Ellis, T. K.; Yamada, T.; Ohfuné, Y. Application of Modular Nucleophilic Glycine Equivalents for Truly Practical Asymmetric Synthesis of β -Substituted Pyroglutamic Acids, *Tetrahedron Lett.* **2005**, *46*, 1107-1110.

131 Moore, J. L.; Taylor, S. M.; Soloshonok,* V. A. An Efficient and Operationally Convenient General Synthesis of Tertiary Amines by Direct Alkylation of Secondary Amines with Alkyl Halides in the Presence of Hunig's Base, *ARKIVOC* **2005**, (vi), 287-292.

132 Soloshonok,* V. A.; Cai, C.; Yamada, T.; Ueki, H.; Ohfuné, Y.; Hruby, V. J. Michael Addition Reactions Between Chiral Equivalents of a Nucleophilic Glycine and (*S*)- or (*R*)-3-(*E*-Enoyl)-4-phenyl-1,3-oxazolidin-2-ones as a General Method for Efficient Preparation of β -Substituted Pyroglutamic Acids. Case of Topographically Controlled Stereoselectivity, *J. Am. Chem. Soc.* **2005**, *127*, 15296-15303.

2006 (19)

133 Soloshonok,* V. A. Remarkable Amplification of Self-Disproportionation of Enantiomers on Achiral-Phase Chromatography Columns, *Angew. Chem. In. Ed. Engl.* **2006**, *45*, 766-769. (Highlighted in Editors' Choice of the recent literature: Yeston, J. S. *Science* 6 January 2006 311: 16-17.

134 Soloshonok,* V. A.; Ellis, T. K. Design and Synthesis of a New Generation of "NH" Ni(II) Complexes of Glycine Schiff Bases and Their Unprecedented C-H vs. N-H Chemoselectivity in the Alkyl Halide Alkylations and Michael addition Reactions, *Synlett* **2006**, 533-538.

135 Soloshonok,* V. A.; Berbasov, D. O. Self-Disproportionation of Enantiomers of (*R*)-Ethyl 3-(3,5-Dinitrobenzamido)-4,4,4-trifluorobutanoate on Achiral Silica Gel Stationary Phase, *J. Fluor. Chem.* **2006**, *127*, 597-603.

136 Soloshonok,* V. A.; Ohkura, H.; Yasumoto, M. Unusual Condensation of 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione with (*R*)-Phenylglycinol, *Mendeleev Commun.* **2006**, 165-167. (Invited paper)

137 Soloshonok,* V. A.; Ohkura, H.; Yasumoto, M. Novel Sequence of Two Base-Catalyzed 1,3 Proton Shifts and [1,2] Wittig Rearrangement in the Synthesis of 2,4-bis-(Trifluoromethyl)-phenylpyridine, *J. Fluor. Chem.* **2006**, *127*, 708-711.

138 Soloshonok,* V. A.; Yamada, T.; Ueki, H.; Moore, A. M.; Cook, T. K.; Arbogast, K. L.; Soloshonok, A. V.; Martin, C. H.; Ohfuné, Y. Operationally Convenient, Efficient Asymmetric Synthesis of Enantiomerically Pure 4-Aminoglutamic Acids via Direct Methylenedimerization of Chiral Glycine Equivalents with Dichloromethane, *Tetrahedron* **2006**, *62*, 6412-6419.

139 Soloshonok,* V. A., Yasumoto, M. Simple and Convenient Synthesis of 3,5-bis-(Trifluoromethyl)benzylamine via 1,3-Proton Shift Reaction, *J. Fluor. Chem.* **2006**, *127*, 889-893.

140 Soloshonok,* V. A.; Ohkura, H.; Yasumoto, M. Operationally Convenient Asymmetric Synthesis of (*S*)- and (*R*)-3-Amino-4,4,4-trifluorobutanoic Acid. Part I: Enantioselective Biomimetic Transamination of Isopropyl 4,4,4-Trifluoro-3-oxobutanoate, *J. Fluor. Chem.* **2006**, *127*, 924-929.

141 Soloshonok,* V. A.; Ohkura, H.; Yasumoto, M. Operationally Convenient Asymmetric Synthesis of (*S*)- and (*R*)-3-Amino-4,4,4-trifluorobutanoic Acid. Part II: Enantioselective Biomimetic Transamination of 4,4,4-Trifluoro-3-oxo-*N*-[(*R*)-1-phenylethyl]butanamide, *J. Fluor. Chem.* **2006**, *127*, 930-935.

142 Soloshonok,* V. A.; Berbasov, D. O. Self-Disproportionation of Enantiomers on Achiral Phase Chromatography. One More Example of Fluorine's Magic Powers, *Chimica Oggi/Chemistry Today*, **2006**, *24*, (# 3), 44-47.

143 Ellis, T. K.; Ueki, H.; Yamada, T.; Ohfuné, Y.; Soloshonok,* V. A. The Design, Synthesis and Evaluation of a New Generation of Modular Nucleophilic Glycine Equivalents for the Efficient Synthesis of Sterically Constrained α -Amino Acids, *J. Org. Chem.* **2006**, *71*, XXX-XXX. (accepted for publication)

144 Yasumoto, M.; Ueki, H.; Soloshonok,* V. A. Unprecedented Case of Base-Free, Thermal 1,3-Proton Shift Reaction and its Application for Operationally Convenient and Improved Synthesis of α -Trifluoromethylbenzylamine, submitted.

145 Soloshonok,* V. A.; Yasumoto, M. Catalytic Asymmetric Synthesis of α -(Trifluoromethyl)benzylamine via Cinchonidine Derived Base-Catalyzed Biomimetic 1,3-Proton Shift Reaction, **2006**, submitted.

146 Yamada, T.; Okada, T.; Sakaguchi, K.; Ohfuné,* Y.; Ueki, H.; Soloshonok,* V. A. Efficient Asymmetric Synthesis of Novel 4-Substituted and Configurationally Stable Analogs of Thalidomide, **2006**, submitted.

147 Soloshonok,* V. A.; Ueki, H.; Yasumoto, M. Phenomenon of Optical Self-Purification of Chiral Non-Racemic Compounds, **2006**, submitted.

148 Soloshonok,* V. A.; Ueki, H. The Design, Synthesis and Characterization of Binuclear Ni(II) Complexes with Inherent Helical Chirality, **2006**, in preparation..

149 Soloshonok,* V. A.; Ueki, H. Design and Proof of Principle for Chiroptical Molecular Switches via Formation and Cleavage of Metal-Ligand Coordination Bonds, **2006**, in preparation.

150 Soloshonok,* V. A.; Ellis, T. K. Synthesis of Constrained α -Amino Acids, *Chem. Soc. Reviews*. **2006**, in preparation.

151 Ueki, H.; Berbasov, D. O.; Nagy, P.; Soloshonok,* V. A. Kinetics and Mechanism of Triethylamine-Catalyzed 1,3-Proton Shift Reaction. Optimized and Substantially Improved Reaction Conditions for Biomimetic Reductive Amination of Fluorine-Containing Carbonyl Compounds., **2006**, in preparation.

Chapters in books:

1 Kukhar, V. P.; Resnati, G.; Soloshonok, V. A. "Asymmetric Synthesis of Fluorine-Containing Amino Acids" in Fluorine-Containing Amino Acids. Synthesis and Properties, Kukhar, V. P.; Soloshonok, V. A. Eds., John Wiley & Sons Ltd., **1994**; Chapter 5, pp 221-242.

2 Soloshonok, V. A. "Practical Synthesis of Enantiopure Fluoro-Amino Acids of Biological Interest by Asymmetric Aldol Reactions" in Biomedical Frontiers of Fluorine Chemistry, Ojima, I.; McCarthy, J. R.; Welch, J. T. Eds., ACS Books, American Chemical Society, Washington, D.C., **1996**; Chapter 2, pp 26-41.

3 Soloshonok, V. A. "Biocatalytic Entry to Enantiomerically Pure β -Amino Acids" in Enantioselective Synthesis of β -Amino Acids, Juaristi, E. Ed., VCH Publishers, INC., N.Y., **1997**; Chapter 21, pp 443-464.

4 Soloshonok, V. A. "Asymmetric Aldol Reactions of Fluoro-Carbonyl Compounds" in Enantiocontrolled Synthesis of Fluoro-Organic Compounds: Stereochemical Challenges and Biomedical Targets, Soloshonok, V. A. Ed., John Wiley & Sons Ltd., **1999**; Chapter 7, pp 229-262.

5 Soloshonok, V. A. "Biomimetic Reducing Agent-Free Reductive Amination of Fluoro-Carbonyl Compounds. Practical Asymmetric Synthesis of Enantiopure Fluoro-Amines and Amino Acids" in Asymmetric Fluoro-Organic Chemistry: Synthesis, Applications, and Future Directions, Ramachandran, P. V. Ed., ACS Books, American Chemical Society, Washington, D.C., **1999**; Chapter 6, 74-83.

6 Soloshonk, V. A.; Cai, C.; Hruby, V. J. "Practical Asymmetric Synthesis of β -Substituted Glutamic Acids" in *Peptides for the New Millennium*, Fields, G. B.; Tam, J. P.; Barany, G. Eds., Kluwer Academic Publishers, Dordrecht/Boston/London, **2000**, 62-63.

7 Hruby, V. J.; Qiu, W.; Okayama, T.; Soloshonok, V. A. "Design of Non-Peptides from Peptide Ligands for Peptide receptors" in *G Protein Pathways, Part A: Receptors* (Vol. 343 of *Methods in Enzymology*), Iyengar, R.; Hildebrandt, J. D. Eds., Academic Press, 343: **2001**, 91-123.

8 Fustero, S.; Sanz-Cervera, J. F.; Soloshonok, V. A. "Stereoselective Synthesis of Fluorine-Containing β -Amino Acids" in *Enantioselective Synthesis of β -Amino Acids, Second Edition*. Juaristi, E. C.; Soloshonok, V. A. Eds., Wiley-VCH Ltd., **2005**.

9 Soloshonok, V. A.; Berbasov, D. O. "Enzymatic Resolutions of β -Amino Acids" in *Enantioselective Synthesis of β -Amino Acids, Second Edition*. Juaristi, E. C.; Soloshonok, V. A. Eds., Wiley-VCH Ltd., **2005**.

Patents:

1 V.P. Kukhar, Y.L. Yagupolskii, V.A. Soloshonok, and I.I. Gerus, Methyl Ester of *N*-(Benzylidene)-3,3,3-Trifluoroalanine as Starting Material for Preparation of 3,3,3-Trifluoroalanine Chlorohydrate, U.S.S.R. Patent 4112861, June 18, 1986, assigned to the Institute of Organic Chemistry of the Ukrainian Academy of Sciences.

2 A.K. Khomenko, B.Y. Semenii, N.Y. Gridina, V.A. Shlayhovenko, V.G. Pinchuk, G.F. Solodushenko, Y.L. Yagupolskii, V.P. Kukhar, V.A. Soloshonok, Method for inhibition of proliferation of microbial and non-differential mammalian cells, U.S.S.R. Patent 1271066, June 18, 1986, assigned to the Institute of Organic Chemistry of the Ukrainian Academy of Sciences.

3 V.P. Kukhar, Y.L. Yagupolskii, V.A. Soloshonok, and I.I. Gerus, Ethyl Ester of *N*-(Benzylidene)- β -Trifluoromethyl- β -Alanine as Starting Material for Preparation of *b*-Trifluoromethyl- β -Alanine Chlorohydrate, U.S.S.R. Patent 4151320, November 26, 1986, assigned to the Institute of Organic Chemistry of the Ukrainian Academy of Sciences.

4 T. Ono, V.A. Soloshonok, H. Fukaya, M. Nishida, and T. Abe, Novel fluorine-containing compounds for ^{19}F -NMR imaging, Japan Patent 9-227464, 1997, assigned to the National Industrial Research Institute of Nagoya.

5 V.A. Soloshonok, T. Ono, and T. Abe, Preparation of fluorine-containing primary amines, Japan Patent 10-130176, 1998, assigned to the National Industrial Research Institute of Nagoya.

6 V.A. Soloshonok, T. Ono, and T. Abe, Method for Preparing Enantiomerically Pure Fluorine-Containing Amines, Japan Patent 10-130179, 1998, assigned to the National Industrial Research Institute of Nagoya.

7 V.A. Soloshonok, T. Ono, and T. Abe, Asymmetric Fluorine-Containing Primary Amines and their Preparation, United States Patent # 5,939,588 (Aug. 17, 1999), assigned to the National Industrial Research Institute of Nagoya.

Edited books and journals.

1. "Fluorine-Containing Amino Acids. Synthesis and Properties", Kukhar, V. P.; Soloshonok, V. A. Eds., John Wiley & Sons Ltd., 1994.
2. "Enantiocontrolled Synthesis of Fluoro-Organic Compounds", Tetrahedron Asymmetry -Special Issue, Guest Editors: T. Hayashi and V. A. Soloshonok, *Tetrahedron: Asymmetry* **1994**, 5, N 6.
3. "Fluoroorganic Chemistry: Synthetic Challenges and Biomedical Rewards", Tetrahedron Symposia-in-Print, # 58; Guest Editors: Resnati, G. and Soloshonok, V. A. *Tetrahedron* **1996**, 52, No 1.
4. "Enantiocontrolled Synthesis of Fluoro-Organic Compounds: Stereochemical Challenges and Biomedical Targets", Soloshonok, V. A. Ed., John Wiley & Sons Ltd., 1999.
5. "Asymmetric Synthesis of Novel Sterically Constrained Amino Acids", Tetrahedron Symposia-in-Print; # 88; Guest Editors: Hruby, V. J. and Soloshonok, V. A. *Tetrahedron* **2001**, 57, No 30.
6. "Fluorinated Synthons", Journal of Fluorine Chemistry - Special Issue, Guest Editors: V. A. Soloshonok and V. A. Petrov, *J. Fluor. Chem.* **2004**, 125, issue 4, pp 487-645.
7. "Enantioselective Synthesis of β -Amino Acids", Juaristi, E, C.; Soloshonok, V. A. Eds., Wiley-VCH Ltd., 2005.
8. "Fluorine-Containing Synthons", ACS Symposium Series #911; Soloshonok, V. A. Ed., Oxford University Press, 2005.
9. "Current Frontiers of Fluoroorganic Chemistry and Recent Advances in Fluorous Chemistry", Journal of Fluorine Chemistry - Special Issue, Guest Editors: D. P. Curran, K. Mikami and V. A. Soloshonok *J. Fluor. Chem.* **2006**, 127, issues 4-5, pp. 456-656.
10. "Current Fluoroorganic Chemistry. New Synthetic Directions, Technologies, Materials and Biological Applications" ACS Symposium Series #949; Soloshonok, V. A.; Mikami, K.; Yamazaki, T.; Welch, J. T., and Honek, J. Eds., Oxford University Press, 2006.