**Приложение: публикации в периодических изданиях за 1998 - 2013 гг.**

1. A. Drljaca, C.D. Hubbard, R. van Eldik, T. Asano, M.V. Basilevsky, W.J. le Noble.

Activation and reaction volume in solution.

Chem. Reviews, 1998, V. 96, P. 2167-2289.

2. M.V.Basilevsky, D.F.Parsons, M.V,Vener.

Advanced dielectric continuum model for treating solvation effects. Time-correlation functions. The local approximation.

J. Chem. Phys., 108, (1998) 1103.

3. M.V. Basilevsky, D.F. Parsons.

Non-local continuum solvation model with exponential kernels.

Journal Chem. Physics, 108 (1998) 9113.

4. M.V. Basilevsky, D.F. Parsons.

Non-local continuum solvation model with oscillating kernels. A non-rigid cavity model.

Journal Chem. Physics, 108 (1998) 9123.

5. M.V.Basilevsky, I.V. Rostov, M.D. Newton.

A two-dimensional Born-Oppenheimer treatment of intramolecular electron transfer reactions.

J. Electroanal. Chemistry, 450 (1998) 69-82.

6. M.V.Basilevsky, I.V.Rostov, M.D.Newton.

A frequency-resolved cavity model (FRCM) for treating equilibrium and nonequilibrium solvation energies.

Chem. Phys. 232 (1998) 189-199.

7. M.D.Newton, M.V.Basilevsky, I.V.Rostov.

A frequency-resolved cavity model (FRCM) for treating equilibrium and nonequilibrium solvation energies. 2. Evaluation of Solvent Reorganization Energies.

Chem. Phys. 232 (1998) 201-210.

8. M.V.Basilevsky, A.V.Soudackov, A.I. Voronin.

Non-equilibrium interlevel transitions in condensed phase far away from the avoided crossing region.

Chem. Phys, 235 (1998) 281-296

9. D.F.Parsons, M.V.Vener, M.V. Basilevsky.

Advanced continuum level approach for treating time correlation functions. The role of solute shape and solvent structure.

J. Phys.Chem. A, 103 (1999) 1171-1178.

10. В.А. Тихомиров, А.В.Судаков, М.В.Базилевский, Л.И.Трахтенберг.

Поверхности потенциальной энергии реакции переноса водорода в молекулярном кристалле.

Ж. Физ. Химии, 73 (1999) №2 332-337.

11. I.V. Rostov, M.V. Basilevsky, M.D. Newton.

Advanced dielectric continuum models of solvation, their connection to the microscopic solvent models, and application to electron transfer reactions.

In “Simulation and theory of electrostatic interaction in solution”, Eds. L.Pratt and G. Hummer. American Institute of Physics, 1999, P. 331-346.

12. M.V. Vener, I.V. Rostov, A.V. Soudackov, M.V. Basilevsky.

Semiempirical modeling free energy surfaces for proton transfer in polar aprotic solvents.

Chem. Phys., 2000, V. 254, P. 249-265.

13. А.П. Симонов, В.К. Потапов, М.В. Базилевский.

Х.С. Багдасарьян.

Жур. Физической Химии 74 (2000) 2101.

14. M.V. Basilevsky, G.V. Davidovich.

The low temperature reactive tunneling in condensed phase. I. The rate expression.

J. Chem. Phys., 2001, V. 115, P. 6072-6082.

15. M.V. Basilevsky, G.V. Davidovich.

The low temperature reactive tunneling in condensed phase. II. Multidimensional transition model.

J. Chem. Phys., 2001, V. 115, P. 6083-6094.

16. V.A. Tikhomirov, A.V. Soudackov, M.V. Basilevsky.

Enthalpy surfaces for hydrogen atom transfer in a molecular crystal.

J. Phys. Chem., A, 2001, V. 105, P. 3226-3231.

17. M.V. Vener, I.V. Leontyev, Yu.A. Dyakov, M.V. Basilevsky, M.D. Newton.

Application of the linearized MD approach for computing equilibrium solvation free energy of charged and dipolar solutes in polar solvents.

J. Phys. Chem. B. 2002, V. 106, P.13078-13088.

18. M.V. Basilevsky, A.I. Voronin. The validity of the quantum-classical multi-channel diffusion equation describing interlevel transitions in the condensed phase. The adiabatic representation.

J. Phys: Condensed Matter, 2002, V.14, P. 10389-10405.

19. М.В. Базилевский, М.В. Венер М.В.

Tеоретические исследования реакций переноса протона и атома водорода в конденсированной фазе.

Успехи Химии 2003, т.72, С.3-39.

20. Г.Н. Чуев, М.В. Базилевский.

Молекулярные модели сольватации в полярных жидкостях.

Успехи Химии 2003, т.72, С. 827-850.

21. V.V. Alexandrovsky, M.V. Basilevsky, I.V. Leontyev, M.A. Mazo, V.B. Sulimov.

The binomial model of hydrofobic solvation.

J. Phys. Chem. B, 108 (2004)15830-15840.

22. M.V. Basilevsky, G.V. Davidovich, A.I. Voronin.

Momentum representation of the solute/bath interaction in the dynamic theory of chemical processes in condensed phase.

J. Chem. Phys. 120 (2004) 3715-3725

23. Leontyev I.V., Basilevsky M.V., Newton M.D.

Theory and computation of electron transfer reorganization energies with continuum and molecular solvent model.

Тheoretical Chemistry Accounts, 111 (2004) p. 110-121.

24. И.В. Леонтьев, М.В. Базилевский.

Молекулярная модель энергии реорганизации растворителя в реакциях переноса электрона.

Журнал Физической Химии, 79, N3 (2005) 501-507.

25.I.V. Leontyev, A.V. Tovmash, M.V. Vener, I.V. Rostov, M.V. Basilevsky.

Molecular simulation of outersphere reorganization energies for intramolecular electron and hole transfer in polar solvents.

Chemical Physics, 319 (2005) 4-15.

26. M.V. Basilevsky, F.V. Grigoriev, I.V. Leontyev, V.B. Sulimov.

Excluded volume effect for large and small solutes in water.

Journal of Physical Chemistry A, 109, №31 (2005) 6939-6946.

27. M.V. Basilevsky, I.V. Leontyev, S.V. Luschekina, O.A. Kondakova, V.B. Sulimov.

Computation of hydration free energies of organic solutes with an implicit water model.

Journal of Computational Chemistry, 27, №5 (2006) 552-570.

28. M.V.Vener, A.V.Tovmash, I.V.Rostov, M.V.Basilevsky.

Molecular simulations of outersphere reorganization energies in polar and quadrupolar solvents. The case of electron and hole transfer.

Journal of Physical Chemistry B 110 (2006) 14950.

29. M.V. Basilevsky, G.V. Davidovich, S.V. Titov, A.I. Voronin.

Non-Markovian modification of the golden rule rate expression.

Journal of Chemical Physics, 115 (2006), 194513.

30. M.V.Basilevsky, G.V.Davidovich, A.I.Voronin.

The model of level broadening in condensed phase.

Journal of Chemical Physics 115 (2006), 194514.

31. E.A.Nikitina, A.V.Odinokov, F.V.Grigoriev, M.V.Basilevsky, A.A.Khlebunov, V.A.Sazhnikov, M.V.Alfimov.

Molecular simulation of solvent-induced Stokes shift in absorption/emission spectra of organic chromofores.

Journal of Physical Chemistry B 111 (2007) 3953.

32. М.В.Базилевский, В.А.Тихомиров.

Расчет кинетики фотохимической реакции переноса атома водорода в молекулярном кристалле.

Журнал Физической Химии 81 (2007) 122.

33. С.А. Серов, М.В. Базилевский, В.А. Тихомиров.

Фононный спектр молекулярного кристалла флуорена.

Журнал Физической Химии 81 (2007) 354.

34. M.Dhaliwal, M.V.Basilevsky, N.Weinberg,

Dynamic effects in nonequilibrium solvation: potential and free energy surfaces for Z/E isomerization in solvent-solute coordinates.

J. Chem. Phys. 126(2007)234505.

35. M.V.Basilevsky, G.N.Chuev .

Nonlocal Solvation Theories.

A chapter in a collective monograph «Continuum Solvation Models in Chemical Physics. From Theory to Applications.» Eds: B.Mennucci, R.Cammi, Wiley, New York 2007, pp. 94-109..

36. М.В. Базилевский, Е.А.Никитина, Ф.В.Григорьев, А.В.Одиноков, Н.Х.Петров, М.В.Алфимов.

Моделирование избирательной сольватации одноатомных ионов методом молекулярной динамики.

Российские нанотехнологии 2(2007) 50-56.

37. F.V.Grigoriev, M.V.Basilevsky, S.N.Gabin, A.N.Romanov, V.B.Sulimov,

Cavitation free energy for organic molecules having various sizes and shapes.

J. Phys. Chem. B 111(2007)13748. .

38. Ф.В. Григорьев, М.В. Базилевский, С.Н. Жабин, В.Б. Сулимов.

Расчеты свободных энергий Гиббса для образования полостей воде.

Ж.Физ. Химии 82 №4 (2008) 517.

39. M.V.Basilevsky, V.A.Tikhomirov.

Computations of tunneling H-transfer reaction kinetics in the fluorene molecular crystal.

Molecular Physics, 106, 2391, 2008.

40. M.Basilevsky, A Odinokov, E Nikitina, F.Grigoriev, N.Petrov, M.Alfimov,

Preferential solvation of spherical ions in binary DMSO/benzene mixtures,

J.Chem.Phys.130 (2009) 024504.

41. M.Basilevsky, A Odinokov, E Nikitina, F.Grigoriev, N.Petrov, M.Alfimov.

Advanced dielectric continuum model of preferential solvation,

J.Chem.Phys.130 (2009) 024505

42. L.Huber, E.Edwards, M.V.Basilevsky, N.Weinberg.

Reactions in viscous media: potential and free energy surfaces in solvent-solute coordinates.

Molec.Physics,107(2009)2283

43. M.V.Basilevsky, F.V.Grigoriev, E.A.Nikitina., J.Leszczynski.

Implicit electrostatic solvent model with continuous dielectric permittivity function.

J.Phys.Chem.B, 114(2010)2457.

44. M.V.Basilevsky, F.V.Grigoriev, O.Yu.Kupervasser.

Specific features of the continuum solvation model with a position-dependent permittivity function.

Journal of Physical Chemistry B, 114 (2010) 16427-16435.

45. Ф.В.Григорьев, А.Н.Романов, Д.Н.Лайков, С.Н.Жабин, А.Ю.Головачев, И.Ф.Оферкин. А.В.Сулимов, М.В.Базилевский, А.А.Багатурьянц, В.Б.Сулимов, М.В.Алфимов,

Методы молекулярного моделирования супрамолекулярных комплексов: иерархический подход.

Pocсийские Нанотехнологии 5(2010) 47

46. A.V.Odinokov, I.V.Leontyev, M.V.Basilevsky, N.Ch.Petrov.

Potential of mean force for ion pairs in non-aqueous solvents. The comparison of polarizable and non-polarizable MD simulations.

Molecular Physics, 109 (2011) 217-227.

47. Paul Dance, Essex Edwards, Tsutomu Asano, M.V.Basilevsky, N.Weinberg.

Nonequilibrium solvent effects in reaction kinetics – Steady-state solutions for the Agmon-Hopfield two-dimensional stochastic model.

Canadian Journal of Chemistry, 88 (2010) 839-848.

48. А.В.Одиноков, М.В.Базилевский, Н.Х. Петров, А.К. Чибисов, М.В.Алфимов.

Влияние противоионов на фотопроцессы тиакарбоцианина в бинарной смеси растворителей.

Химия Высоких Энергий, 44 (2010) с. 1-7.

49. M.V.Basilevsky, A.V.Odinokov, E.A.Nikitina, N.Ch.Petrov.

The dielectric continuum solvent model adapted for treating preferential solvation effects.

Journal of Electroanalytical Chemistry, 660 (2011) 339-346

50. M.V.Basilevsky, E.A.Nikitina, F.V.Grigoriev, A.A.Bagaturianz, M.V.Alfimov.

A molecule on the surface or inside a spherical nanoparticle. Computation of the interaction energy in terms of the dielectric continuum model.

Structural Chemistry, 22 (2011) 427-432.

51. A.V. Odinokov, M.V. Basilevsky, E.A. Nikitina.

Association Constants and Distribution Functions for Ion Pairs in Binary Solvent Mixtures: Application to a Cyanine Dye System..

Journal Chem. Phys., 135 (2011) 144503.

52. A.V. Odinokov, M.V. Basilevsky, N. Kh. Petrov.

Decay Kinetics,of the Excited S1 State of the Cyanine Dye Cy+I–

(Thiacarbocyanine Iodide): the Computation of Quantum Yields.

Journal of Chem. Phys., 135 (2011) 144504.

53. D. A. Ivanov, N. Kh. Petrov, E. A. Nikitina, M. V. Basilevsky, A. I. Vedernikov, S. P. Gromov, M. V. Alfimov.

The 1:1 Host-Guest Complexation between Cucurbit[7]uril and Styryl Dye.

J. Phys. Chem. A 2011, vol. 115, p. 4505–4510.

54. A.V. Odinokov, I.V. Leontyev, M.V Basilevsky, N.Ch. Petrov.

Potential of Mean Force for Ion Pairs in Non-Aqueous Solvents. Comparison of

Polarizable and Non-Polarizable MD Simulations.

Molecular Physics 109, 217-227 (2011).

55. М.В. Базилевский, А.В. Одиноков.

Применение матрицы плотности в теории химических реакций.

Вестник Харьковского Университета 2012 № 1026 Выпуск 21(44) 47-60 [0.2]

56. M.V. Basilevsky, A.V. Odinokov, N. Kh. Petrov.

The Distribution of Internal Distances for Ionic Pairs in Solvents of Various Polarity.

A chapter in a collective monograph “Practical Aspects of Computational Chemistry II. An Overview of the Last Two Decades and Current Trends”,

J. Leszszynski and M. Shukla, Eds, Springer 2012, Chapter 2. p. 19-48.

57. F.V Grigoriev, M.V. Basilevsky, L.G. Gorb, O.A. Brovarets, A. Fedorenko, D.M. Hovorun,

Parameterization of the hydration free energy computations for organic solutes in the framework of the implicit solvent model with the nonuniform dielectric function.

Computational and Theoretical Chemistry, 1009 (2013) pp 50-54

58. A.V. Odinokov, S.V. Titov, V.A. Tikhovirov, M.V. Basilevsky,

M.V. Alfimov,

Inclusion complexes of beta-cyclodextrine with organic ligands: molecular dynamics simulation of the thermodynamic stability in gas phase and in water solution.

Molecular Simulation 39 (2013) pp 442-452.

59. M.V. Basilevsky, A.V. Odinokov, S.V. Titov, E.A. Mitina,

Golden rule kinetics of transfer reactions in condensed phase. The microscopic model of electron transfer in disordered solid matrices.

Journal of Chemical Physics, 139 (2013) 234102.