

ПАВЛЕТА СТОЯНОВА ШЕСТАКОВА (Денкова)

СПИСЪК НА ПУБЛИКАЦИИТЕ

за участие в конкурс за академичната длъжност „професор“

професионално направление 4.2 Химически науки, научна специалност „Органична химия“ за нуждите на Център по ЯМР спектроскопия, Институт по органична химия с Център по фитохимия, БАН, обявен в Държавен Вестник бр. 79 от 07.10.2016 г.

I. Публикации в списания с импакт фактор¹

1. M. Mees, E. Haladjova, D. Momekova, G. Momekov, **P. Shestakova**, Ch. Tsvetanov, R. Hoogenboom*, S. Rangelov*
Partially hydrolyzed poly(n-propyl-2-oxazoline): synthesis, aqueous solution properties and preparation of gene delivery systems.
Biomacromolecules 17, 3580-3590 (2016), **IF 5.583**, цитати 0
2. T. K. N. Luong, Tz. Mihaylov, G. Absillis, **P. Shestakova**, K. Pierloot, T. Parac-Vogt*
Phosphate Ester Bond Hydrolysis Promoted by Lanthanide-Substituted Keggin type Polyoxometalates Studied by a Combined Experimental and Density Functional Theory Approach.
Inorg. Chem. 55, 9898-9911 (2016); **IF 4.820**, цитати 0
3. A. Ahmedova*, R. Mihaylova, D. Momekova, **P. Shestakova**, S. Stoykova, J. Zaharieva, M. Yamashina, G. Momekov, M. Akita, M. Yoshizawa*
M₂L₄ coordination capsules with tunable anticancer activity upon guest encapsulation.
Dalton Trans. 45, 13214-13221 (2016); **IF 4.177**, цитати 0
4. T. K. N. Luong, **P. Shestakova**, T. Parac-Vogt*
Kinetic studies of phosphoester hydrolysis promoted by a dimeric tetrazirconium(IV) Wells-Dawson polyoxometalate
Dalton Trans. 45, 12174-12180 (2016); **IF 4.177**, цитати 0
5. T. K. N. Luong, **P. Shestakova***, G. Absillis, T. Parac-Vogt*
Detailed Mechanism of Phosphoanhydride Bond Hydrolysis Promoted by a Binuclear ZrIV-Substituted Keggin Polyoxometalate Elucidated by a Combination of ³¹P, ³¹P DOSY and ³¹P EXSY NMR Spectroscopy.
Inorg. Chem. 55, 4864-4873 (2016); **IF 4.820**, цитати 1
6. T. Quanten, **P. Shestakova**, C. Kirschhock, D. Van Den Bulck, T. N. Parac-Vogt*
Interaction Study and Reactivity of Zr(IV) Substituted Wells Dawson Polyoxometalate towards Hydrolysis of Peptide Bonds in Surfactant Solutions.
Chem. Eur. J. 22, 3775-3784 (2016); **IF 5.771**, цитати 1
7. A. Ahmedova*, D. Momekova, M. Yamashina, **P. Shestakova**, G. Momekov, M. Akita, M. Yoshizawa*

Anticancer Potencies of PtII- and PdII-linked M2L4 Coordination Capsules with Improved Selectivity.

Chemistry an Asian Journal 11, 474-477 (2016); IF 4.587, цитати 4

8. I. Trendafilova, Á. Szegedi, K. Yoncheva, **P. Shestakova**, J. Mihály, A. Ristic, S. Konstantinov, M. Popova*

A pH dependent delivery of mesalazine from polymer coated and drug-loaded SBA-16 systems. *Eur. J. Pharm. Sci.* 81, 75-81 (2016); IF = 3.773, цитати 1

9. R. Shankar*, N. Singla, S. Mendiratta, G. Kociok-Köhn, K. Molloy, **P. Shestakova**
Synthesis, Characterization, and Hydrolytic Behavior of Diorganotin(IV) Coordination Polymers with Layered Structural Motifs.

Eur. J. Inorg. Chem. 30, 5118-5123, (2015); IF 2.686, цитати 1

10. **P. Shestakova***, C. Martineau, V. Mavrodinova, M. Popova
Solid state NMR characterization of zeolite beta based drug formulations containing Ag and sulfadiazine.

RSC Adv. 5, 81957-81964, (2015); IF 3.289, цитати 0

11. R. Shankar*, M. Asija, G. Kociok-Kohn, K. Molloy, **P. Shestakova**
Growth modulation of bent microcrystals to single crystals in one dimensional coordination framework.

RSC Adv. 5, 80501-80504, (2015); IF 3.289, цитати 0

12. T. K. N. Luong, G. Absillis, **P. Shestakova**, T. N. Parac-Vogt*
Hydrolysis of the RNA model substrate catalyzed by a binuclear ZrIV-substituted Keggin polyoxometalate.

Dalton Trans. 44, 15690-15696, (2015); IF 4.177, цитати 0

13. R. Shankar*, N. Singla, M. Asija, **P. Shestakova**
A recipe for the synthesis of diorganotin(IV) phosphonates in a colloidal regime by a solution based approach.

RSC Adv. 5, 27326–27329, (2015); IF 3.289, цитати 0

14. T. K. N. Luong, **P. Shestakova**, Tz. T. Mihaylov, G. Absillis, K. Pierloot, T. N. Parac-Vogt*
Multinuclear Multinuclear Diffusion NMR Spectroscopy and DFT Modeling: A Powerful Combination for Unraveling the Mechanism of Phosphoester Bond Hydrolysis Catalyzed by Metal-Substituted Polyoxometalates.

Chem. Eur. J. 21, 4428-4439, (2015); IF 5.771, цитати 0

15. T. K. N. Luong, G. Absillis, **P. Shestakova**, T. N. Parac-Vogt*
Solution speciation of a dinuclear Zr(IV)-substituted Keggin polyoxometalate $[\{\alpha\text{-PW}_{11}\text{O}_{39}\text{Zr}(\mu\text{-OH})(\text{H}_2\text{O})_2\}]^{8-}$ and its reactivity towards the hydrolysis of a DNA-model phosphodiester.

Eur. J. Inorg. Chem. 5276 – 5284, (2014); IF 2.686, цитати 1

16. A. Szegedi*, M. Popova, K. Yoncheva, J. Makk, J. Mihály, **P. Shestakova**

¹ Авторът за кореспонденция е отбелязан със звездичка.

Silver and sulfadiazine loaded nanostructured silica materials as potential replacement of silver sulfadiazine.

J. Mater. Chem. B 2, 6283 – 6292 (2014); IF 4.872, цитати 7

17. A. Trendafilova*, M. Todorova, V. Genova, **P. Shestakova**, D. Dimitrov, M. Jadranin, S. Milosavljevic

New pseudoguaiane derivatives from *Inula aschersoniana* var. *aschersoniana*.

Nat. Prod. Commun. 9, 1123 – 1124, (2014); IF 0.906, цитати 0

18. M. Popova*, A. Szegedi, K. Yoncheva, S. Konstantinov, G. P. Petrova, H. A. Aleksandrov, G. N. Vayssilov, **P. Shestakova**

New method for preparation of delivery systems of poorly soluble drugs on the basis of functionalized mesoporous MCM-41.

Microporous Mesoporous Mater. 198, 247 – 255 (2014); IF 3.349, цитати 8

19. **P. Shestakova**, G. Absillis, F. J. Martin-Martinez, F. De Proft, R. Willem, T. N. Parac-Vogt* Integrating ³¹P DOSY NMR spectroscopy and molecular mechanics as a powerful tool for unraveling the chemical structures of polyoxomolybdate-based amphiphilic nanohybrids in aqueous solution.

Chem. Eur. J. 20, 5258 – 5270 (2014); IF 5.771, цитати 4

20. T. Hardeman, P. Willot, J. D. Winter, T. Josse, P. Gerbaux, **P. Shestakova**, E. Nies, G. Koeckelberghs*

Study on the formation of a supramolecular conjugated graft copolymer in solution.

J. Polym. Sci. A Polym. Chem. 52, 804 – 809 (2014); IF 3.113, цитати 5

21. V. Mitova, S. Slavcheva, **P. Shestakova**, D. Momekova, N. Stoyanov, G. Momekov*, K. Troev, N. Koseva

Polyphosphoester conjugates of dinuclear platinum complex: synthesis and evaluation of cytotoxic and the proapoptotic activity.

Eur. J. Med. Chem. 72, 127 – 136 (2014); IF 3.902, цитати 6

22. K. Stroobants, G. Absillis, **P. Shestakova**, R. Willem, T. N. Parac-Vogt*

Hydrolysis of tetraglycine by a Zr(IV)-substituted Wells-Dawson polyoxotungstate studied by Diffusion Ordered NMR Spectroscopy.

J. Clust. Sci. 25, 855 – 866 (2014); IF 1.664, цитати 0

23. E. Stoyanova, V. Mitova, **P. Shestakova**, A. Kowalczyk, G. Momekov, D. Momekova, A. Marcinkowski, N. Koseva*

Reversibly PEGylated nanocarrier for cisplatin delivery.

J. Inorg. Biochem. 120, 54 – 62 (2013); IF 3.205, цитати 3

24. **P. Shestakova***, R. Willem, E. Vassileva

Elucidation of the chemical and morphological structure of Double Network (DN) hydrogels by High Resolution Magic Angle Spinning (HRMAS) NMR.

Chem. Eur. J. 17, 14867 – 14877 (2011); IF 5.771, цитати 10

25. A. Kowalczyk, E. Stoyanova, V. Mitova, **P. Shestakova**, G. Momekov, D. Momekova, N. Koseva*

Star-shaped nano-conjugates of cisplatin with high drug payload.

Int. J. Pharm. 404, 220 – 230 (2011); **IF 3.994, цитати 15**

26. L. Van Lokeren, R. Kerssebaum, R. Willem*, **P. Denkova**

ERETIC implemented in Diffusion Ordered NMR as a diffusion reference: a clarification.

Magn. Reson.Chem. 49, 137 – 139 (2011); **IF 1.226, цитати 2**

27. A. Mavrova*, **P. Denkova**, J. Tsenov

Synthesis, configuration and properties of some new 3,4,5-substituted oxazolidin-2-ones.

Eur. J. Chem. 2, 18 – 24 (2011); **IF 0.803, цитати 0**

28. J. Staneva*, **P. Denkova**, M. Todorova, L. Evstatieva

Quantitative analysis of sesquiterpene lactones in extract of *Arnica montana L.* by ¹H NMR spectroscopy.

J. Pharm. Biomed. Anal. 54, 94 – 99 (2011); **IF 3.169, цитати 21**

29. **P. Denkova**, D. Momekova*, S. Rangelov, N. Lambov, R. Willem

Investigation of sterically stabilized liposomes by Diffusion Ordered NMR Spectroscopy.

J. Controlled Release 148, e47 – e48 (2010); **IF 7.441, цитати 0**

Общ IF на публикации 1-29: IF = 112.072; среден IF = 3.865, брой цитати 89.

II. Публикации в списания с импакт фактор, включени в конкурса за придобиване на академичната длъжност „доцент“

30. S. Philipov*, R. Istatkova, **P. Denkova**, S. Dangaа, J. Samdan, M. Krosnova, C. Munkh-Amgalan

Alkaloids from Mongolian species *Hypocoum Lactiflorum* Kar.et Kir. Pazij.

Nat. Prod. Res. 23, 982 – 987 (2009); **IF 1.057, цитати 3**

31. **P. Denkova***, L. Van Lokeren, R. Willem

Mixed micelles of Triton X-100, sodium dodecyl dioxyethylene sulfate, and Synperonic L61 investigated by NOESY and Diffusion Ordered NMR Spectroscopy.

J. Phys. Chem. B 113, 6703 – 6709 (2009); **IF 3.187, цитати 25**

32. A. Mavrova*, D. Wesselinova, Y. Tsenov, **P. Denkova**

Synthesis, cytotoxicity and effects of some 1,2,4-triazole and 1,3,4-thiadiazole derivatives on immunocompetent cells.

Eur. J. Med. Chem. 44, 63 – 69 (2009); **IF 3.902, цитати 78**

33. L. Van Lokeren*, R. Kerssebaum, R. Willem, **P. Denkova***

ERETIC implemented in Diffusion Ordered NMR as a diffusion reference.

Magn. Reson.Chem. 46, S63 – S71 (2008); **IF 1.226, цитати 11**

34. **P. Denkova***, L. Van Lokeren, I. Verbruggen, R. Willem

Self-aggregation and supramolecular structure investigations of Triton X-100 and SDP2S by NOESY and Diffusion Ordered NMR.

J. Phys. Chem. B 112, 10935 – 10941 (2008); **IF 3.187, цитати 25**

35. **P. Denkova***, N. Vassilev, L. Van Lokeren, R. Willem
Investigation of the dynamic stereochemistry of dimesityl-2,4,6-trimethoxyphenylmethane by Complete Lineshape Analysis and 2D EXSY NMR spectroscopy.
Magn. Reson. Chem. 46, 362 – 369 (2008); **IF 1.226, цитати 3**

36. M. Todorova*, J. Staneva, **P. Denkova**, L. Evstatieva
Irregular linear sesquiterpene dilactones from *Anthemis auriculata* Boiss.
Nat. Prod. Res. 22, 907 – 914 (2008); **IF 1.057, цитати 3**

37. A. Mavrova*, **P. Denkova**, Y. Tsenov, K. Anichina, D. Vutchev
Synthesis and antitrichinellosis activity of some bis(benzimidazol-2-yl)amines.
Bioorg. Med. Chem. 15, 6291 – 6297(2007); **IF 2.923, цитати 39**

38. S. Emin, **P. Denkova***, K. Papazova, C. Dushkin, E. Adachi
Study of reverse micelles of di-isobutyl phenoxyethoxyethyl dimethylbenzylammonium methacrylate in benzene by Nuclear Magnetic Resonance Spectroscopy.
J. Colloid Interface Sci. 305, 133 – 141 (2007); **IF 3.782, цитати 14**

39. A. Mavrova*, K. Anichina, D. Vuchev, J. Tsenov, **P. Denkova**, M. Kondeva, M. Micheva
Antihelminthic activity of some newly synthesized 5(6)-(un)substituted-1*H*-benzimidazol-2-ylthioacetyl piperazine derivatives.
Eur. J. Med. Chem. 41, 1412 – 1420 (2006); **IF 3.902, цитати 57**

40. P. d'Antuono, E. Botek, B. Champagne*, M. Spassova, **P. Denkova**
Theoretical Investigation on ¹H and ¹³C NMR Chemical Shifts of Small Alkanes and Chloro-Alkanes.
J. Chem. Phys. 125, 144309 – 144312 (2006); **IF 2.894, цитати 18**

41. M. Stoyanova, S. Angelova, K. Kosev, **P. Denkova**, V. Enchev, M. Palamareva*
Synthesis of *trans/cis* 4-substituted 3-furyl-2 phenetyltetrahydroisoquinolin-1-ones: conformation of the *trans*-4-(pyrrolidinylcarbonyl) derivative.
Tetrahedron Lett. 47, 2119 – 2123 (2006); **IF 2.347, цитати 3**

42. I. Kavrakova*, **P. Denkova**, R. Nikolova
Stereoselective Lewis acid promoted Kharash-type addition of 3-bromoacetyl-2-oxazolidinones to norbornadiene.
Tetrahedron: Asymmetry 16, 1085 – 1089 (2005), **IF 2.108, цитати 4**

43. **P. Denkova**, S. Tcholakova, N. Denkov*, K. Danov, B. Campbell, C. Shawl, D. Kim
Evaluation of the Precision of Drop-Size Determination in Oil/Water Emulsions by Low-Resolution NMR Spectroscopy.
Langmuir 20, 11402 – 11413 (2004); **IF 3.993, цитати 35**

44. S. Angelova, V. Enchev*, N. Markova, **P. Denkova**, K. Kostova

Ab initio study of some 2,4-substituted azolidines. I. Tautomerizm.

J. Mol. Struct. THEOCHEM 711, 201 – 207 (2004); **IF 0.94, цитати 14**

45. **P. Denkova**, V. Dimitrov*, S. Bakalova, J. Kaneti, K. Danov

Application of the model-free approach to low molecular weight systems with hindered internal rotation: cinnamoylmesitylene.

Magn. Reson. Chem. 41, 989 – 995 (2003); **IF 1.226, цитати 1**

46. **P. Denkova**, V. Dimitrov*

Combined Use of Complete Lineshape Analysis of 1D spectra Subjected to Reference Deconvolution and Linear Prediction, 2D EXSY spectra and Double Fitting Method for the Study of Chemical Exchange. Application to an Eight Site Exchange System.

Magn. Reson. Chem. 37, 637 – 646 (1999); **IF 1.226, цитати 7**

47. D. Alargov*, R. Gugova, **P. Denkova**, G. Muller, E. Golovinsky.

Synthesis of Cyclohexane Containing 5'-O-Glycine Derivatives of Uridine as Potential Inhibitors of UDP-glucuronosyltransferase.

Monatsh. Chem. 130, 937 – 943 (1999); **IF 1.131, цитати 3**

48. S. Philipov*, R. Istatkova, N. Ivanovska, **P. Denkova**, K. Tosheva, H. Navas, J. Vellegas.

Phytochemical Study and Antiinflammatory Properties of *Lobelia Laxiflora* L.

Z. Naturforsch. 53c, 311 – 317 (1998); **IF 0.709, цитати 7**

49. D. Alargov*, Z. Naydenova, K. Grachanov, **P. Denkova**, E. Golovinsky

Synthesis of 5'-O-oligopeptide Derivatives of Uridine as Inhibitors of UDP-glucuronosyltransferase.

Monatsh. Chem. 129, 755 – 760 (1998); **IF 1.131, цитати 3**

50. I. Ivanov*, E. Stoyanov, **P. Denkova**, V. Dimitrov.

Synthesis of substituted 1,2-dihydro-2-imino-7-methyl-1,6 (6H)-naphthyridin-5-ones.

Liebigs Ann. Recl. 1777 – 1781 (1997); **IF 0.442, цитати 6**

51. D. Alargov*, Z. Naydenova, K. Grachanov, **P. Denkova**, E. Golovinsky

Synthesis of Some 5'-O-Amino Acid Derivatives of Uridine as Potential Inhibitors of UDP-glucuronosyltransferase.

Monatsh. Chem. 128, 725 – 732 (1997); **IF 1.131, цитати 4**

52. D. Alargov*, **P. Denkova**, E. Golovinsky

Glucuronidation of Serine and Threonine.

Monatsh. Chem. 128, 733 – 736 (1997); **IF 1.131, цитати 1**

53. V. Dryanska*, **P. Denkova**, L. Shishkova, S. Stoyanov, L. Antonov, S. Spassov*

Spectral Properties and Molecular Structure of 4-aryl-3-cyano-1,1-diphenyl-2-azabutadienes.

Spectrosc. Lett. 29, 1067 – 1077 (1996); **IF 0.89, цитати 0**

54. V. Dryanska*, O. Angelova, J. Macicek, L. Shishkova, **P. Denkova**, S. Spassov.

Phase-transfer-catalysed Additions. Part12. Preparation and Stereochemistry of 4-aryl-3-cyano-1,1-diphenyl-2-azabuta-1,3-dienes.

J. Chem. Res. (S). 268 – 269 (1995); **IF 0.61**, цитати 5
J. Chem. Res. (R). 1601 – 1638 (1995).

55. S. Spassov*, M. Simeonov, B. Mikhova, **P. Denkova**
Application of Modern NMR Techniques for Conformational Analysis and Assignment of NMR Parameters of Biologically Active Compounds.
J. Mol. Struct. 217, 169 – 179 (1990); **IF 1.780**, цитати 3

Заявка за патент: № 111326 от 18.10.2012; Наноразмерни полиелектролитни асоциати, с противотуморно действие, метод за тяхното получаване и приложението им.
Изобретатели: Нели Косева, Виолета Митова, **Павлета Шестакова**, Георги Момеков, Деница Момекова, Кольо Троев

Обобщение:

Общ IF на публикации 1 – 29: IF = 112.072; среден IF = 3.865, брой цитати 89.

Общ IF на публикации 1 – 55: IF = 161.21;

Среден IF на публикации 1 – 55: IF = 2.877

Брой цитати на публикации 1 – 55: 462 цитата според базите данни Scopus и WoS;

H-index = 11.

Първи автор и/или автор за кореспонденция в 12 публикации.

Втори автор в 9 публикации.

III. Публикации в национални списания, които не са включени за участие в конкурса

1. V. Mitova, A. Bogomilova, **P. Shestakova**, G. Momekov, D. Momekova, R.K. Abbas, N. Koseva*
Synthesis of a new polynuclear platinum (II) complex and its prodrug forms. evaluation of their cytotoxic properties.
J. Chem. Technol. Metall. 48, 17 – 27 (2013), цитати 1.
2. V. Kancheva*, O. Kasaikina, **P. Denkova**, Z. Kartasheva, I. Totseva, N. Yanishlieva
Study on the kinetics of formation and structure of mixed micelles formed by surfactants, antioxidants and lipid hydroperoxides.
Nanoscience & Nanotechnology 9, eds. E. Balabanova, I. Dragieva, Sofia, 225 – 227 (2009).
3. R. Stefanova*, N. Vassilev, **P. Denkova**, S. Spassov, N. Vasilev,
¹H-NMR Compositional Analysis of Fat -Containing Food.
Adv. Bulg. Sci. 7, 2 – 3 (2008).
4. **P. Denkova**, V. Dimitrov*
Dynamic NMR: Temperature Dependence of Proton and Carbon Methyl Relaxation Rates and Energies to Reorientation in Systems Undergoing Chemical Exchange.
Compt. Rend. Acad. Sci. 49, 77 – 80 (1996); **IF 0.204**, цитати 1.