

Основные публикации Майоровой Л.А.

1. Исследование структуры некоторых смектических А, В и Е фаз
ЖЭТФ 1981, **80**, 1963
Минеев Л.И., Валькова (Майорова) Л.А., Шабышев Л.С., Чистяков И.Г.
Mineev L.I., Valkova (Maiorova) L.A., Shabyshhev L.S., Chistyakov I.G. Investigation of the structure of some smectic A, B, and E phases. Soviet Physics – JETP 1981, 53, 1020
[researchgate.net/publication/264039898](https://www.researchgate.net/publication/264039898)
2. Тетрагональная лиомезофаза в системе DDSNa-вода
Коллоидный журнал - Письма 1985, **47**, 632
Валькова (Майорова) Л.А., Вальков С.В.
Valkova (Maiorova) L.A., Valkov S.V. Tetragonal lyomesophase in the system DDSNa water Colloid journal of the USSR - Letters 1985, 47, 549
[researchgate.net/publication/305493843](https://www.researchgate.net/publication/305493843)
3. Предламельлярная лиомезофаза в системе DDSNa-вода
Коллоидный журнал 1986, **48**, 835
Валькова (Майорова) Л.А., Вальков С.В.
Valkova (Maiorova) L.A., Valkov S.V. A prelamellar lyomesophase in the system DDSS-water Colloid journal of the USSR 1986, 48, 715
[researchgate.net/publication/264043088](https://www.researchgate.net/publication/264043088)
4. Мембранотропные свойства блок-сополимеров окиси этилена и окиси пропилена
Доклады Академии наук СССР 1989, **308**, 910
Топчиева И.Н., Осипова С.В., Банацкая М.И., Валькова (Майорова) Л.А.
Topchieva IN, Osipova SV, Banatskaia MI, Valkova (Maiorova) LA. Membrane-active properties of block-copolymers of ethylene-oxide and propylene-oxide. Doklady akademii nauk SSSR 1989, 308, 910
[researchgate.net/publication/264043352](https://www.researchgate.net/publication/264043352)
5. Исследование структуры и фазового перехода твердый кристалл-жидкий кристалл в пленках Ленгмюра Блоджетт дискогенов
Биологические мембраны 1991, **8**, 656
Валькова (Майорова) Л.А., Львов Ю.М., Фейгин Л.А.
Valkova (Maiorova) L.A., Lvov YM, Feigin LA. The study of the structure and phase transition solid crystal - liquid crystal in Langmuir-Blodgett films of discogens. Biologicheskije membrany 1991, 8, 656
[researchgate.net/publication/264043498](https://www.researchgate.net/publication/264043498)
6. Investigation of the temperature phase transition in Langmuir-Blodgett films of discotics
Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals 1992, **215**, 363
Valkova (Maiorova) L.A., Erokhin V., Feigin L.A.
[researchgate.net/publication/264194862](https://www.researchgate.net/publication/264194862)
7. Получение и рентгеновское малоугловое исследование ленгмюровских пленок дискогенов-тетраалканойлоксигидрохинонов, карбоксилатов меди и гексаалкокситрифениленов
Валькова (Майорова) Л.А. **Автореферат канд. дисс. (физ-мат науки)** 1992
[researchgate.net/publication/264129727](https://www.researchgate.net/publication/264129727)
8. Formation and x-ray diffraction investigation of Langmuir-Blodgett films of liquid crystalline substituted crown esters
Molecular crystals and liquid crystals science and technology. Section C, Molecular materials 1996, **6**, 291
Valkova (Maiorova) L.A., Shabyshhev L.S., Feigin L.A., Akopova O.B.
[researchgate.net/publication/264039861](https://www.researchgate.net/publication/264039861)
9. Monolayer study of monensin and lasalocid in the gas state
Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals 1996, **287**, 269
Valkova (Maiorova) L.A., Betrencourt C., Hochapfel A., Myagkov I.V., Feigin L.A.
[researchgate.net/publication/244576615](https://www.researchgate.net/publication/244576615)

10. Получение и рентгеновское исследование пленок Ленгмюра-Блоджетт жидкокристаллического 4,5бис(4-децилокси-бензоилоксибензи-лиден-амино)-дibenзо-18-краун-6
Известия Российской академии наук. Серия физическая 1997, **61**, 631
Валькова (Майорова) Л.А., Шабышев Л.С., Фейгин Л.А., Аكوпова О.Б.

Valkova (Maiorova) L.A., Shabyshev L.S., Feigin L.A., Akopova O.B. Preparation and x-ray study of Langmuir-Blodgett films of liquid crystal 4.5'bis(4-decyloxybenzoxyloxybenzylidenamino)dibenzo-18-crown-6
Izvestiya akademii nauk, seriya fizicheskaya 1997, **61**, 631
11. Polysubstituted triphenylenes with active groups. molecular parameters, synthesis, structure, and mesomorphism
Journal of Structural Chemistry 1998, **39**, 376
Акопова О.Б., Bronnikova A.A., Kravchinskii A., Kotovich L.N., Shabyshev L.S., Valkova (Maiorova) L.A.
[researchgate.net/publication/243955276](https://www.researchgate.net/publication/243955276)
12. Supramolecular assembly formation in monolayers of *tert*-butyl substituted copper phthalocyanine and tetrabenzotriazaporphin
Journal of Inclusion Phenomena and Macrocyclic Chemistry 1999, **35**, 243
Valkova (Maiorova) L.A., Shabyshev L.S., Borovkov N.Y., Feigin L.A., Rustichelli F.
[researchgate.net/publication/238493610](https://www.researchgate.net/publication/238493610)
13. Исследование ленгмюровских пленок каприната меди методами рентгеновского рассеяния и электронографии
Известия высших учебных заведений. Материалы электронной техники 1999, № 4, 70
Валькова (Майорова) Л.А., Клечковская В.В., Сорокина К.Л., Янусова Л.Г.
[researchgate.net/publication/264167393](https://www.researchgate.net/publication/264167393)
14. Physical insight into the gas-sensing properties of copper (II) tetra-(*tert*-butyl)-5,10,15,20-tetraazaporphyrin Langmuir-Blodgett films
Thin Solid Films 2000, **379**, 279
Ding H., Ram M.K., Paddeu S., Erokhin V., Valkova (Maiorova) L.A., Nicolini C.
<https://www.researchgate.net/publication/229386359>
15. Electron diffraction and reflectometric study of the structure of hexaalkoxytriphenylene Langmuir films
Surface Investigation: X-Ray, Synchrotron and Neutron Techniques 2001, **16**, 1485
Valkova (Maiorova) L.A., Klechkovskaya V.V., Yanusova L.G., Ivakin G.I., Sorokina K.L., Feigin L.A.
16. Structure of monolayers of copper tetra-(3-nitro-5-*tert*-butyl)-phthalocyanine at the air-water interface
Langmuir: the ACS journal of surfaces and colloids 2001, **17**, 3639
Valkova (Maiorova) L.A., Borovkov N., Pisani M., Rustichelli F.
[researchgate.net/publication/231672413](https://www.researchgate.net/publication/231672413)
17. Three-dimensional structure of the copper porphyrine layers at the air-water interface
Thin Solid Films 2001, **401**, 267
Valkova (Maiorova) L.A., Borovkov N., Pisani M., Rustichelli F.
[researchgate.net/publication/229120112](https://www.researchgate.net/publication/229120112)
18. Some features of the molecular assembly of copper porphyrines
Materials Science and Engineering: C 2002, **22**, 167
Valkova (Maiorova) L.A., Borovkov N., Pisani M., Bossi M., Rustichelli F., Kopranenkov V.
[researchgate.net/publication/240387384](https://www.researchgate.net/publication/240387384)
19. Исследование процесса формирования ленгмюровских пленок органических соединений методами измерения скачка электрического потенциала и электронографии
Жидкие кристаллы и их практическое использование 2002, № 2, 61
Валькова (Майорова) Л.А., Шабышев Л.С., Клечковская В.В.
20. Influence of molecular and supramolecular factors on sensor properties of Langmuir-Blodgett films of *tert*-butyl-substituted copper azaporphyrines towards hydrocarbons
Colloids and Surfaces A: Physicochemical and Engineering Aspects. 2002, **198-200**, 891
Valkova (Maiorova) L.A., Borovkov N., Maccioni E., Pisani M., Rustichelli F., Erokhin V., et al.
<https://www.researchgate.net/publication/244139510>
21. Small-angle X-ray scattering and neutron reflectivity studies of Langmuir-Blodgett films of copper tetra-*tert*-butyl-azaporphyrines
Journal of Applied Crystallography 2003, **36**, 758

Valkova (Maiorova) L.A., Menelle A., Borovkov N., Erokhin V., Pisani M., Ciuchi F., Carsughi F., Spinozzi F., Pergolini M., Rustichelli F., Padke R., Bernstorff S.

<https://www.researchgate.net/publication/238138019>

22. Взаимодействие тетра-трет-бутилфталоцианина меди с азот- и серосодержащими молекулами в растворе
Известия Академии наук. Серия химическая 2003, № 7, 1441
Боровков Н.Ю., Блохина С.В., Ольхович М.В., Валькова (Майорова) Л.А. и др.
Borovkov N.Yu., Blokhina S.V., Ol'khovich M.V., Val'kova (Maiorova) L.A., et al. Interactions of copper tetra-tert-butylphthalocyanine with nitrogen- and sulfur-containing compounds in solutions. Russian Chemical Bulletin 2003, 52, 1522
[researchgate.net/publication/225233967](https://www.researchgate.net/publication/225233967)
23. Физико-химические проблемы получения материалов на основе фуллерена C₆₀
Известия высших учебных заведений. Серия: Химия и химическая технология 2003, 46, 85
Блохина С.В., Боровков Н.Ю., Лебедева Н.Ш., Валькова (Майорова) Л.А.
24. Supramolecular structure of Langmuir-Blodgett films of copper porphyrine
Journal of Porphyrins and Phthalocyanines 2004, 8, 881
Valkova (Maiorova) L.A., Borovkov N.Yu., Koifman O.I.
<https://www.researchgate.net/publication/264043874>
25. Organic nanomaterials for sensor application. Fullerene composites
In the book: Proceedings of the International School on Advanced Material Science and Technology, Course V: Smarts Materials and Nanotechnologies, Editors: S. A. Lodini and F. Rustichelli, 218 P. Ancona (Italy), 2004, 94
Valkova (Maiorova) L., Borovkov N., Koifman O.I., Rustichelli F.
[researchgate.net/publication/264040542](https://www.researchgate.net/publication/264040542)
26. Sorption of amines by the Langmuir-Blodgett films of soluble cobalt phthalocyanines: evidence for the supramolecular mechanisms
Biosensors and Bioelectronics 2004, 20, 1177
Valkova (Maiorova) L., Borovkov N., Koifman O., Kutepov A., Berzina T., Fontana M., Rella R., Valli L.
[researchgate.net/publication/8171670](https://www.researchgate.net/publication/8171670)
27. Organic nanomaterials for sensor devices. Part II. azaporphyrine films as biomimetic sensor materials
In the book: Proceedings of the International School on Advanced Material Science and Technology. Course IV. Nanostructures in Technologies and Biomedicine, Editors: S. Dobatkin and F. Rustichelli, 241 P. Ancona, (Italy), 2004, 229
Valkova (Maiorova) L., Borovkov N., Rustichelli F.
[researchgate.net/publication/264040427](https://www.researchgate.net/publication/264040427)
28. Organic nanomaterials for sensor devices. Part I. application of supramolecular materials to solve specific sensor problems
In the book: Proceedings of the International School on Advanced Material Science and Technology. Course IV. Nanostructures in Technologies and Biomedicine, Editors: S. Dobatkin and F. Rustichelli, 241 P. Ancona, Italy 2004, 215
Valkova (Maiorova) L., Borovkov N., Rustichelli F.
[researchgate.net/publication/264040321](https://www.researchgate.net/publication/264040321)
29. Применение нейронных сетей для анализа состояния тонких пленок органических соединений на поверхности воды
статья в открытом архиве № physics/0401038 09.01.2004
Филимонов А.В., Валькова (Майорова) Л.А., Ососков Г.А.
[researchgate.net/publication/2170059](https://www.researchgate.net/publication/2170059)
30. Crown - ether nanomaterials for sensing of organic molecules
In the book: Proceedings of the International School on Advanced Material Science and Technology. Course V: Smarts Materials and Nanotechnologies, Editors: A. Lodini and F. Rustichelli, 218 P. Publisher: Tipolitografia Coopergraf, Ancona, Italy, 2004, 69
Valkova (Maiorova) L., Borovkov N., Koifman O., Rustichelli F.
[researchgate.net/publication/264040432](https://www.researchgate.net/publication/264040432)

31. X-ray study of structural reorganization in phthalocyanine containing Langmuir-Blodgett heterostructures
Applied Surface Science 2005, **245**, 369
Erokhin V., Carrara S., Paternolli C., Nicolini C., Valkova (Maiorova) L., Bernstorff S.
[researchgate.net/publication/240368836](https://www.researchgate.net/publication/240368836)
32. Fullerenes: prospects of medical application and aggregation behavior
In the book: Proceedings of the International School on Advanced Material Science and Technology. Course VII. Nanotechnologies for Drug Delivery and Medical Applications. Editors: T. Bjornholm and F. Rustichelli, 210 P. Publisher: Tipolitografia Coopergraf, Ancona, Italy, 2006, 16
Valkova (Maiorova) L., Glibin A.S., Gromova O.A., Borovkov N., Koifman O.I., et al.
[researchgate.net/publication/264040353](https://www.researchgate.net/publication/264040353)
33. Fullerene-naphthalene interaction on the water surface and in the binary film
Fullerenes Nanotubes and Carbon Nanostructures 2007, **15**, 467
Borovkov N.Yu., Olkhovich M.V., Koifman O.I., Zakharov A.G., Valkova (Maiorova) L., Glibin A.S.
[researchgate.net/publication/233210774](https://www.researchgate.net/publication/233210774)
34. Nanoaggregates of copper porphyrine in floating layers and Langmuir-Schaefer films
Langmuir: the ACS journal of surfaces and colloids 2008, **24**, 4857
Valkova (Maiorova) L., Glibin A.S., Valli L., Casilli S., Giancane G., et al.
[researchgate.net/publication/5458274](https://www.researchgate.net/publication/5458274)
35. Количественный анализ изотерм сжатия ленгмюровских слоев фуллерена C₆₀
Коллоидный журнал 2008, **70**, 11
Валькова Л.А., Глибин А.С., Валли Л.
Valkova (Maiorova) L.A., Glibin A.S., Valli L. Quantitative analysis of compression isotherms of fullerene C₆₀ Langmuir layers. Colloid Journal 2008, 70, 6
[researchgate.net/publication/251296537](https://www.researchgate.net/publication/251296537)
36. Quantitative analysis of Langmuir layers of triphenylene derivatives
В книге: XII молодежная конференция по органической химии 2009, 410-413
Fokin Dm. S., Valkova (Maiorova) L.A., Sibrina G.V., Koifman O.I.
[researchgate.net/publication/264156587](https://www.researchgate.net/publication/264156587)
37. Structure of fullerene C₆₀ Langmuir layers studied in compression-expansion cycles
В книге: XII молодежная конференция по органической химии 2009, 237-239
Glibin A.S., Valkova (Maiorova) L.A., Sibrina G.V., Koifman O.I.
[researchgate.net/publication/264156380](https://www.researchgate.net/publication/264156380)
38. Nanoaggregates in floating layers of azaporphyrins
Journal of Porphyrins and Phthalocyanines 2010, **14**, 513
Valkova (Maiorova) L.A., Zyablov S.V., Koifman O.I., Erokhin V.V.
[researchgate.net/publication/244669699](https://www.researchgate.net/publication/244669699)
39. The influence of molecular structure and π-system extent on nano- and microstructure of Langmuir layers of copper azaporphyrins
Journal of Porphyrins and Phthalocyanines 2011, **15**, 1044
Valkova (Maiorova) L.A., Glibin A.S., Koifman O.I., Erokhin V.V.
[researchgate.net/publication/263791980](https://www.researchgate.net/publication/263791980)
40. Influence of the solvent nature on the structure of two-dimensional nanoaggregates in Langmuir layers of copper tetra-*tert*-butyltetraazaporphyrin
Macroheterocycles 2011, **4**, 222
Valkova (Maiorova) L.A., Glibin A.S., Koifman O.I.
[researchgate.net/publication/264129791](https://www.researchgate.net/publication/264129791)
41. Управляемая самоорганизация азопорфиринов в 2D- и 3D-наноструктуры в ленгмюровских слоях и пленках Ленгмюра-Блоджетт
Майорова Л.А. *Автореферат диссертации на соискание ученой степени доктора физико-математических наук* 2012
[researchgate.net/publication/264158582](https://www.researchgate.net/publication/264158582)

42. Формирование двумерных (M) и трехмерных (V) наноагрегатов замещенного порфирина кобальта в ленгмюровских слоях и пленках Ленгмюра-Шефера
Известия Академии наук. Серия химическая 2013, № 2, 471. DOI:10.1007/s11172-013-0066-5
Карлюк М.В., Крыгин Ю.Ю., Майорова-Валькова (Майорова) Л.А., Агеева Т.А., Коифман О.И.
Karlyuk M.V., Krygin Y.Y., Maiorova-Valkova (Maiorova) L.A., Ageeva T.A., Koifman O.I. Formation of two-dimensional (M) and three-dimensional (V) nanoaggregates of substituted cobalt porphyrin in the Langmuir layers and Langmuir-Schaefer films. Russian Chemical Bulletin 2013, 62, 471. DOI:10.1007/s11172-013-0066-5
researchgate.net/publication/263383476
43. Nanostructure of zinc(II) tetraphenylporphyrinate Langmuir M-monolayers formed with diluted solution
Macroheterocycles 2014, 7, 267. DOI: 10.6060/mhc131163m
Petrova M.V., Maiorova L.A., Bulkina T.A., Ageeva T.A., Koifman O.I., Gromova O.A.
researchgate.net/publication/270509325
44. Synthesis of new electroactive polymers by ion-exchange replacement of Mg(II) by 2h^+ or Zn(II) cations inside Mg(II) polyporphine film, with their subsequent electrochemical transformation to condensed-structure materials
Electrochimica Acta 2014, 122, 3. DOI:10.1016/j.electacta.2013.10.004
Konev D.V., Lizgina K.V., Zyubina T.S., Zyubin A.S., Vorotyntsev M.A., Devillers C.H., Maiorova-Valkova (Maiorova) L.A.
researchgate.net/publication/264088179
45. Двумерные M-наноагрегаты в ленгмюровских слоях каламитного мезогена
Физикохимия поверхности и защита материалов 2015, 51, 53. DOI: 10.1134/S2070205115010074
Майорова-Валькова (Майорова) Л.А., Коифман О.И., Бурмистров В.А., Кувшинова С.А., Мамонтов А.О.
Maiorova-Valkova (Maiorova) L.A., Koifman O.I., Burmistrov V.A., Kuvshinova S.A., Mamontov A.O. 2D M-Nanoaggregates in Langmuir layers of calamite mesogen. Protection of Metals and Physical Chemistry of Surfaces 2015, 51, 85. DOI: 10.1134/S2070205115010074
researchgate.net/publication/270508693
46. Formation and study of nanostructured m-monolayers and LS-films of triphenylcorrole
Macroheterocycles 2016, 9, 73. DOI: 10.6060/mhc151205m
Vu T.T., Maiorova L.A., Berezin D.B., Koifman O.I.
researchgate.net/publication/296330650
47. Trans-cis photoisomerization in nanostructured floating layers and x-ray diffraction study of Langmuir-Schaefer films of nonyloxypheylazocinnamic acid
Molecular Crystals and Liquid Crystals 2017, 649, 2. DOI:10.1080/15421406.2017.1303917
Pisani M., Maiorova L.A., Francescangeli O., Fokin Dm.S., Nikitin K.S., Burmistrov V.A., Kuvshinova S.A., Mengucci P., Koifman O.I.
researchgate.net/publication/319437192
48. Nanostructured stable floating m-mono- and bilayers and Langmuir-Schaefer films of 5,10,15-triphenylcorrole
BioNanoScience 2018, 8, 81. DOI: 10.1007/s12668-017-0424-0
Maiorova L.A., Vu T.T., Gromova O.A., Nikitin K.S., Koifman O.I.
researchgate.net/publication/318114229
49. Compression speed as a parameter changing the dimensionality of corrole nanostructures in layers at the air-water interface
Macroheterocycles 2018, 11, 286. DOI: 10.6060/mhc171260m
Vu T.T., Kharitonova N.V., Maiorova L.A., Gromova O.A., Torshin I.Yu., Koifman O.I.
researchgate.net/publication/329014018
50. Magnesium porphine supermolecules and two-dimensional nanoaggregates formed using the Langmuir-Schaefer technique
Langmuir: the ACS journal of surfaces and colloids 2018, 34, 9322. DOI:10.1021/acs.langmuir.8b00905
Maiorova L.A., Kobayashi N., Zyablov S.V., Bykov V.A., Nesterov S.I., et al.
<https://pubs.acs.org/doi/10.1021/acs.langmuir.8b00905>
51. Aggregation behavior of unsubstituted magnesium porphyrine in monolayers at air-water interface and in Langmuir-Schaefer films

Journal of Porphyrins and Phthalocyanines 2018, **22**, 509. DOI: 10.1021/la703585p

Kharitonova N.V., Maiorova L.A., Koifman O.I.

researchgate.net/publication/324806778

52. Encapsulation of vitamin B₁₂ into nanoengineered capsules and soft matter nanosystems for targeted delivery
Colloids and Surfaces B: Biointerfaces 2019, **182**, 110366. DOI:10.1016/j.colsurfb.2019.110366
Maiorova L.A., Erokhina S.I., Pisani M., Barucca G., Marcaccio M., Koifman O.I., Salnikov D.S., Gromova O.A., Astolfi P., Ricci V., Erokhin V.V.
<https://doi.org/10.1016/j.colsurfb.2019.110366>
53. Концепция наноструктурирования макрогетероциклических соединений на границе раздела жидкость-газ и наноматериалы на основе формируемых на поверхности воды супермолекул, сс. 701-740
Майорова Л.А., Койфман О.И.
Монография Койфман О.И. и др. «Функциональные материалы на основе тетрапиррольных макрогетероциклических соединений» под редакцией Койфмана О.И., М.: ЛЕНАНД, 2019. URSS. 2019. 848 с. ISBN 978-5-9710-6952-2
researchgate.net/publication/335601973
54. An influence of copper cation in the complex on structure of the nanostructured layers, spectral and electrocatalytic characteristics of Langmuir-Schaeffer films of triphenylcorrole
Macroheterocycles 2019, **12**, 282. DOI: 10.6060/mhc190127b
Berezina N.M., Kharitonova N.V., Maiorova L.A., Koifman O.I., Vu T.T., Zyablov S.V.
researchgate.net/publication/338147119
55. Casein-based nanodelivery of olive leaf phenolics: Preparation, characterization and release study
Food Structure 2021, **30**, 100227. DOI:10.1016/j.foostr.2021.100227
Somaye Rikhtegaran, Iman Katouzian, Seid Mahdi Jafari, Hossein Kiani, Larissa A. Maiorova, HaniyeTakbirgou
<https://www.sciencedirect.com/science/article/abs/pii/S2213329121000514>
56. Bioinformatic and chemoneurocytological analysis of the pharmacological properties of vitamin B12 and some of its derivatives
J. Porphyrins Phthalocyanines 2021, **25**, 835. DOI: 10.1142/S1088424621500644
O.A. Gromova, I.Yu. Torshin, L.A. Maiorova, O.I. Koifman and D.S. Salnikov
researchgate.net/publication/351976575
57. Spectral properties of photosensitizers based on tetra(pyridin-3-yl)porphine and its reduced forms in solutions and thin films in “Synthesis Strategy of Tetrapyrrolic Photosensitizers for Their Practical Application in Photodynamic Therapy (Review)”
Macroheterocycles 2022, **15**, 207. DOI: 10.6060/mhc224870k
Koifman O.I., Ageeva T.S., Kuzmina N.S., Otvagin V.F., Nyuchev A.V., Fedorov A.Yu....Maiorova L.A. et al.
researchgate.net/publication/369419800
58. Vitamin B₁₂ hydrophobic derivative exhibits bioactivity: biomedical and photophysical study
BioNanoSci 2022, **12**, 74. DOI:10.1007/s12668-021-00916-4
O.A. Gromova, L.A. Maiorova, D.S. Salnikov, V.I. Demidov, A.G. Kalacheva, I.Yu. Torshin, et al.
researchgate.net/publication/356505788
59. Octa-*tert*-butylsulfanyl Zinc Tetrapyrazinoporphyrazinate: Self-Assembled Nanostructures at the Air-Water Interface and 'Solid Solution' in Thin Films.
Macroheterocycles 2022, **15**, 166. DOI:10.6060/mhc224808m
Dmitrii Bukharin, Larissa A. Maiorova, Andrei Gromov, Oscar Koifman.
researchgate.net/publication/366857787
60. High Reactivity of Supermolecular Nanoentities of Vitamin B₁₂ Derivative in Langmuir-Schaefer Films Toward Gaseous Toxins
Langmuir 2023, **39** (48), 17240. DOI: 10.1021/acs.langmuir.3c02317
I.A. Dereven'kov, L.A. Maiorova, O.I. Koifman, D.S. Salnikov
<https://pubs.acs.org/doi/10.1021/acs.langmuir.3c02317>
61. Supermolecular nanoentities of vitamin B₁₂ derivative as a link in the evolution of the parent molecules during self-assembly at the air-water interface
Langmuir 2023, **39** (9), 3246. DOI:10.1021/acs.langmuir.2c02964
Maiorova, L.A.; Kobayashi, N.; Salnikov, D.S.; Kuzmin, S.M.; Basova, T.V., et al.

<https://pubs.acs.org/doi/10.1021/acs.langmuir.2c02964>

62. Redox behavior of unsubstituted cobalt phthalocyanine in nanostructured Langmuir-Schaefer films
Journal of Coordination Chemistry, 2024, **77**, 1211. DOI: 10.1080/00958972.2024.2367764
I.A. Dereven'kov, L.A. Maiorova, A.N. Gromov
researchgate.net/publication/381740286
63. Хемопротеомный анализ фармакологических свойств производных витамина B₁₂
Фармакоэкономика. Современная фармакоэкономика и фармакоэпидемиология 2024, **17**, 345
DOI:10.17749/2070-4909/farmakoeconomika.2024.214
Торшин И.Ю., Громова О.А., Деревеньков И.А., Майорова Л.А.
researchgate.net/publication/378322351
64. Nanoparticles of nucleotide-free analogue of vitamin B12 formed in protein nanocarriers and their neuroprotective activity in vivo
Colloids and Surfaces B: Biointerfaces 2024, **244**, 114165. DOI:10.1016/j.colsurfb.2024.114165
L.A. Maiorova, O.A. Gromova, IYu Torshin, TV Bukreeva, TN Pallaeva, et al.
<https://doi.org/10.1016/j.colsurfb.2024.114165>
65. Dimethyl sulfoxide in a Langmuir trough
Applied Surface Science 2024, **670**, 160636. DOI:10.1016/j.apsusc.2024.160636
A. Sorokin, L. Maiorova, M. Zavalishin
<https://doi.org/10.1016/j.apsusc.2024.160636>
66. Chemiresistive NH₃ and H₂S sensors based on thin films of vitamin B12 derivatives
Sensors and Actuators B 2024, **418**, 136268. DOI:10.1016/j.snb.2024.136268
Darya Klyamer, Dmitry Bonegardt, Pavel Krasnov, Tamara Basova, Larissa Maiorova
<https://doi.org/10.1016/j.snb.2024.136268>
67. Modulation of polyaniline memristive device switching voltage by nucleotide-free analogue of vitamin B₁₂
IOP Nanotechnology 2024, **35**, 335204. DOI 10.1088/1361-6528/ad4cf5
N.V. Prudnikov, A.V. Emelyanov, M.V. Serenko, I. A. Dereven'kov, L.A. Maiorova, V.V. Erokhin
researchgate.net/publication/380685398
68. Coordination reaction of poly-4-vinylpyridine by cobalt porphyrinate in nanostructured layers at the air-water interface
Macroheterocycles 2024, **17**, 80. DOI: 10.6060/mhc245858m
Maiorova L.A., Petrova M.V., Ageeva T.A., Gromov A.N.
researchgate.net/publication/384432662
69. Langmuir-Blodgett Films From Organic Solvents
arxiv.org, 2408.01915, 18.07.2024. <https://arxiv.org/abs/2408.01915>
Sorokin A., Maiorova L., Zavalishin M.
researchgate.net/publication/382884565
70. Биосенсоры для измерений уровней оксида азота NO в биосубстратах: систематический анализ
Фармакоэкономика. Современная фармакоэкономика и фармакоэпидемиология (2025).
Торшин И.Ю., Громова О.А., Майорова Л.А., Громов А.Н.
farmakoeconomika.2024.278
71. Antidote activity of vitamin B₁₂ derivative compared with its original and aqua forms; in vitro and in vivo study
Journal of Food Science and Technology (2025). DOI: <https://doi.org/10.1007/s13197-025-06296-x>
Gromova, O.A., Maiorova, L.A., Salnikov, D.S. et al.
<https://doi.org/10.1007/s13197-025-06296-x>