

Сведения об официальном оппоненте

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Список основных публикаций за последние 5 лет:

1. *Zakharova N.V., Zelinskiy S.N., Strelova M.S., Danilovtseva E.N., Annenkov V.V.* Thermo- and pH-sensitive polymer with pendant spacer-linked imidazole cycles // *Chinese Journal of Polymer Science*. — 2024. — Vol. 42. — N 4. — P. 437–445.
2. *Annenkov V.V., Zelinskiy S.N., Pal'shin V.A., Kyzmin A., Danilovtseva E.N.* Fluorescein-based vital dye for silicifying organisms // *Dyes and Pigments*. — 2024. — Vol. 222. — P. 111838.
3. *Annenkov V.V., Zelinskiy S.N., Palshin V.A., Strelova M.S., Danilovtseva E.N.* Polyamines: association in aqueous medium and promising transport vesicles // *Journal of Molecular Liquids*. — 2024. — Vol. 396. — P. 124038.
4. *Annenkov V.V., Sudakov M.S., Pal'shin V.A., Zelinskiy S.N., Strelova M.S., Danilovtseva E.N.* Acrylic acid and vinylamine copolymers: anomalous acidity and association with short polyacids // *Polymer*. — 2024. — Vol. 302. — P. 127057.
5. *Annenkov V.V., Zelinskiy S.N., Palshin V.A., Kuzmin A.V., Sudakov M.S., Borovskii G.B., Borovskaya M.K., Danilovtseva E.N.* Synthesis and properties of oligopropylamines with photosensitive o-nitrobenzyl ester core // *Journal of Molecular Liquids*. — 2024. — Vol. 413. — P. 126013.
6. *Annenkov V.V., Pal'shin V.A., Sudakov M.S., Danilovtseva E.N.* Complexes of polymeric acids and short polyamines as binary stimulus-sensitive systems // *Polymer Testing*. — 2024. — Vol. 140. — P. 108618.

7. *Strelova M.S., Danilovtseva E.N., Zelinskiy S.N., Pal'shin V.A., Annenkov V.V.* Biomimetic calcium phosphate nanoparticles: biomineralization models and precursors for composite materials // *Langmuir*. — 2024. — Vol. 40. — P. 18016–18027.
8. *Анненков В.В., Пальшин В.А., Лунина Н.А., Даниловцева Е.Н., Зелинский С.Н., Костров С.В., Сафина Д.Р.* Влияние наночастиц промышленных пластиков на модельных рыб *Danio rerio* (Hamilton, 1822) // *Водные биоресурсы и среда обитания*. — 2024. — Т. 7. — № 4. — С. 92–105.
9. *Harbich T., Gordon R., Cohn S.A., Ashworth M.P., Annenkov V.V., Goessling J.W.* "Diatoms: life in glass houses" revisited: updates and comments // *Limnology and Freshwater Biology*. — 2024. — Vol. 1. — P. 1454–1470.
10. *Zakharova N.V., Danilovtseva E.N., Zelinskii S.N., Annenkov V.V.* Thermo- and pH-sensitive copolymers of N-(3-(diethylamino)propyl)-N-methylacrylamide and N,N-dipropylacrylamide // *Polymer Science, Series A*. — 2023. — Vol. 65. — N 6. — P. 637–644.
11. *Larina L.I., Albanov A.I., Zelinskiy S.N., Annenkov V.V., Rusakova I.L.* Acrylamide derivatives: A dynamic nuclear magnetic resonance study // *Magnetic Resonance in Chemistry*. — 2023. — Vol. 61. — N 5. — P. 277–283.
12. *Annenkov V.V., Pal'shin V.A., Annenkova N.V., Zelinskiy S. N., Danilovtseva E.N.* Uptake and effects of nanoplastics on the dinoflagellate *Gymnodinium corollarium* // *Environmental Toxicology and Chemistry*. — 2023. — Vol. 42. — N 5. — P. 1124–1133.
13. *Zelinskiy S.N., Danilovtseva E.N., Strelova M.S., Pal'shin V.A., Annenkov V.V.* Coumarin-based acid dye for fluorescent staining of calcium carbonate particles // *Limnology and Freshwater Biology*. — 2023. — N 6. — P. 244–252.
14. *Danilovtseva E.N., Pal'shin V.A., Zelinskiy S.N., Annenkov V.V.* Nanoplastic influence on the siliceous sponge *Lubomirskia baicalensis* // *Limnology and Freshwater Biology*. — 2023. — N 6. — P. 53–260.
15. *Danilovtseva E.N., Palshin V.A., Strelova M.S., Lopatina I.N., Kaneva E.V., Zakharova N.V., Annenkov V.V.* Functional polymers for modeling the formation of

biogenic calcium carbonate and the design of new materials // *Polymers for Advanced Technologies*. — 2022. — Vol. 33. — P. — 2984–3001.

16. *Annenkov V. V., Danilovtseva E. N., Zelinskiy S. N., Pal'shin V. A.* Submicro- and nanoplastics: How much can be expected in water bodies? // *Environmental Pollution*. — 2021. — Vol. 278. — P. 116910.

17. *Annenkov V. V., Aseyev V., Zelinskiy S. N., Danilovtseva E. N.* Imidazole-phosphate polymers: Acid-base properties, association with oligonucleotides and oligosilicates // *Journal of Molecular Liquids*. — 2021. — Vol. 329. — P. 115598.

18. *Стрелова М., Даниловцева Е., Анненков В.* Сополимеры метилакрилата с винилазолами: синтез, термолабильные свойства, прививка полиаминных цепей // *Высокомолекулярные соединения. Серия Б.* — 2021. — Т. 63. — С. 44–54.

19. *Kandasamy G., Danilovtseva E. N., Annenkov V. V., Krishnan U. M.* Poly (1-vinylimidazole) polyplexes as novel therapeutic gene carriers for lung cancer therapy // *Beilstein Journal of Nanotechnology*. — 2020. — Vol. 11. — P. 354–369.

20. *Annenkov V. V., Gordon R., Zelinskiy S. N., Danilovtseva E. N.* The probable mechanism for silicon capture by diatom algae: assimilation of polycarbonic acids with diatoms—is endocytosis a key stage in building of siliceous frustules? // *Journal of Phycology*. — 2020. — Vol. 56. — P. 1729–1737.