

## Списък на публикациите на проф. дхн Тодор Дудев

Общо: 1 монография, 3 глави от книги и 147 статии

Статии в списания с IF и/или SJR: 135, от които в

Q1: 75

Q2: 43

Q3: 10

Q4: 7

Сумарен IF = 872.8

\*Забележка: Използвани са текущите стойности за IF и SJR на списанията

### Монография

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### Глави от книги

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C. Lim and T. Dudev, "Potassium Versus Sodium Selectivity in Monovalent Ion Channel Selectivity Filters" in *The Alkali Metal Ions: Their Role for Life*, Vol. 16 of Metal Ions in Life Sciences (Eds. A. Sigel, H. Sigel, R.K.O. Sigel), Springer International, Cham, Switzerland, 2016, pp. 325-347.

T. Dudev and C. Lim, "Calcium Ion Selectivity in Biological Systems", in *Encyclopedia of Metalloproteins* (V.N. Uversky, R.H. Kretsinger, E.A. Permyakov, Eds.), Springer Science, New York, 2013, pp. 478-484.

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• *Обзори*

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2. T. Dudev, C. Grauffel and C. Lim, "Calcium in Signaling: Its Specificity and Vulnerabilities toward Biogenic and Abiogenic Metal Ions", *J. Phys. Chem. B* **125** (2021) 10419-10431; **IF = 3.3; Q1**
3. N. Kircheva and T. Dudev, „Competition between abiogenic and biogenic metal cations in biological systems: Mechanisms of gallium’s anticancer and antibacterial effect“, *J. Inorg. Biochem.* **214** (2021) 111309; **IF = 4.2; Q2**
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6. T. Dudev and C. Lim, "Competition among Metal Ions for Protein Binding Sites: Determinants of Metal Ion Selectivity in Proteins“, *Chem. Rev.* **114** (2014) 538-556; **IF = 62.1; Q1**
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9. T. Dudev and C. Lim, "Metal Binding and Selectivity in Metalloproteins: Insights from Computational Studies“, *Annual Review of Biophysics* **37** (2008) 97-116; **IF = 12.4; Q1**
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- *Статии*

13. T.P. Sarafska, M.I. Spassova, T.M. Dudev, S.M. Pereva, S.D. Stoyanov and T.G. Spassov, "Easy and Effective Method for  $\alpha$ -CD:N<sub>2</sub>O Host–Guest Complex Formation", *Int. J. Mol. Sci.* **25** (2024) 5472; **IF = 5.6; Q1**
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15. N. Kircheva, S. Dobrev, V. Petkova, L. Yocheva, S. Angelova and T. Dudev, "In silico Analysis of the Ga<sup>3+</sup>/Fe<sup>3+</sup> Competition for Binding the Iron-Scavenging Siderophores of *P. aeruginosa* – Implementation of Three Gallium-Based Complexes in the "Trojan horse" Antibacterial Strategy", *Biomolecules* **14** (2024) 487; **IF = 5.5; Q1**
16. T. Dudev and T. Spassov, "Inclusion Complexes between  $\beta$ -Cyclodextrin and Gaseous Substances—N<sub>2</sub>O, CO<sub>2</sub>, HCN, NO<sub>2</sub>, SO<sub>2</sub>, CH<sub>4</sub> and CH<sub>3</sub>CH<sub>2</sub>CH<sub>3</sub>: Role of the Host's Cavity Hydration", *Inorganics* **12** (2024) 110; **IF = 2.9; Q2**
17. T. Sarafska, S. Ivanova, T. Dudev, C. Tzachev, V. Petrov and T. Spassov, "Enhanced Solubility of Ibuprofen by Complexation with  $\beta$ -cyclodextrin and Citric Acid", *Molecules* **29** (2024) 1650; **IF = 4.6; Q1**
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21. K. Mazmanian, C. Grauffel, T. Dudev and C. Lim, "Protein Ca<sup>2+</sup> -Sites Prone to Sr<sup>2+</sup> Substitution: Implications for Strontium Therapy" *J. Phys. Chem. B* **127** (2023) 5588-5600; **IF = 3.3; Q1**
22. N. Kircheva, S. Angelova, S. Dobrev, V. Petkova, V. Nikolova and T. Dudev, "Cu<sup>+</sup>/Ag<sup>+</sup> Competition in Type I Copper Proteins (T1Cu)", *Biomolecules* **13** (2023) 681; **IF = 5.5; Q1**

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38. N. Toshev, D. Cheshmedzhieva and T. Dudev, "Factors governing the affinity and selectivity of histone deacetylase inhibitors for the HDAC8 enzyme active site: Implications for anticancer therapy", *J. Phys. Org. Chem.* **34** (2021) e4268; **IF = 1.8; Q3**
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