**Zinātnisko publikāciju no 2017.- 2024. gadam saraksts par studējošajiem, kas ir doktora zinātniskā grāda pretendenti**

*Saraksts ar studējošajiem (norādot programmu un studiju periodu), kas ir doktora zinātniskā grāda pretendenti un kuru publikācijas pievienotas.*

V. Aukšmuksts, studējošs DSP “Cietvielu fizika” 2019.- 2022.

A. Bogačovs, studējošs DSP “Matemātika” 2014.- 2017.

J. Kostjukevičs, studējošs DSP “Cietvielu fizika” 2018.- 2021.

V. Kostjukevičs, studējošs DSP “Cietvielu fizika” 2019.- 2022.

O. Kozlovska, studējoša DSP “Matemātika” 2021.- 2024.;

S. Ločs, studējošs DSP “Cietvielu fizika” 2016.- 2021.

V. Mizers, studējošs DSP “Cietvielu fizika” 2020.- 2023;

D. Ogorelova, studējoša DSP “Matemātika” 2015.- 2018.

P. Sarajevs, studējošs DSP “Cietvielu fizika” 2014.- 2019.

V. Sengiļejevs, studējošs DSP “Matemātika” 2015.- 2018.

G. Spriņģis, studējošs DSP “Cietvielu fizika” 2019.- 2022.

J. Kevišs, studējošs DSP “Cietvielu fizika” 2023.- pašlaik.

R. Frīdmans, studējošs DSP “Cietvielu fizika” 2023.- pašlaik.

V. Kosih, studējošs DSP “Cietvielu fizika” 2023.- pašlaik.

A. Šapkins, studējošs DSP “Cietvielu fizika” 2023.- pašlaik.

*Zinātniskās publikācijas pa gadiem.*

**2017. gads**

1. Ločs, S., Boiko, I., Mironovs, V., Tamanis, E., Devoyno, O. Research of Laser Cladding of the Powder Materials for Die Repair. No: Key Engineering Materials, Latvija, Riga, 3.-4. novembris, 2017. Riga: Trans Tech Publications, Switzerland, 2017, 280.-284.lpp. ISSN 1013-9826. e-ISSN 1662-9795. Pieejams: doi:10.4028/www.scientific.net/KEM.721.280
2. Ločs, S., Boiko, I., Drozdovs, P., Dovoreckis, J., Devoyno, O. Investigation of Coaxial Laser Cladding Process Parameters Influence onto Single Pass Clad Geometry of Tool Steel. Agronomy Research, 2017, Vol.15 No.4, 1659.-1673.lpp. ISSN 1406-894X. Pieejams: doi:10.15159/AR.17.018
3. Ločs, S., Boiko, I., Leitāns, A., Drozdovs, P. Experimental Study of Coaxial Laser Cladding of Tool Steel. No: 16th International Scientific Conference "Engineering for Rural Development": Proceedings. Vol.16, Latvija, Jelgava, 24.-26. maijs, 2017. Jelgava: 2017, 1038.-1046.lpp. ISSN 1691-5976. Pieejams: doi:10.22616/ERDev2017.16.N219
4. Bulaha, N., Ločs, S. Research in Surface Roughness for Laser Cladding Coatings. No: 16th International Scientific Conference "Engineering for Rural Development": Proceedings. Vol.16, Latvija, Jelgava, 24.-26. maijs, 2017. Jelgava: 2017, 1131.-1138.lpp.
5. Boiko, I., Ločs, S., Devoino, O., Drozdovs, P. Исследование коаксиальной лазерной наплавки инструментальной стали. No: Proceedings of 10th International Simposium "Powder Metallurgy. Surface Engineering, New Composite Materials, Welding", Baltkrievija, Minsk, 5.-7. aprīlis, 2017. Minsk: Belarusskaya Navuka, 2017, 92.-101.lpp. ISBN 978-985-08-2131-7.
6. Spriņģis, G., Rudzītis, J., Lungevičs, J., Bērziņš, K. Wear Calculation Approach for Sliding - Friction Pairs. No: Journal of Physics: Conference Series, Portugāle, Porto, 26.-27. jūlijs, 2017. Germany: Institute of Physics Publishing, 2017, 1.-8.lpp. ISSN 1742-6588. Pieejams: doi:10.1088/1742-6596/843/1/012072
7. D. Ogorelova, F. Sadyrbaev, I. Samuilik, V. Sengileyev. Sigmoidal functions in network theories. LU MII Zinātniskie raksti (ISSN 1691-8134), 17(2017), 52-71

**2018. gads**

1. Snikeris, J., Gerbreders,V., Mizers,V. “Formation of micro-/nano-structures on the surface of Cr thin films by electron beam irradiation” Journal of Non-Crystalline Solids. Volume 500, 15 November 2018, Pages 167-172 DOI: 10.1016/j.jnoncrysol.2018.07.062
2. Ločs, S., Leitāns, A., Tamanis, E., Drozdovs, P., Dovoreckis, J., Devoino, O. HSS Coating with Keyholes in Penetration Produced by Laser Cladding Process. No: Journal of Physics: Conference Series, Krievija, Sanktpēterburga, 17.-19. novembris, 2018. IOP Publishing: IOP Publishing, 2018, 1.-10.lpp. ISSN 1742-6588. e-ISSN 1742-6596. Pieejams: doi:10.1088/1742-6596/1109/1/012063
3. Ločs, S., Boiko, I. Исследование термического напыления износоустойчивого металлокерамического покрытия. No: 13th International Scientific Conference "New Materials and Technologies: Powder Metallurgy, Composite Materials, Protective Coatings, Welding - NOMATEX 2018", Baltkrievija, Minsk, 16.-18. maijs, 2018. Minsk: 2018, 318.-323.lpp. ISBN 978-985-08-2293-2.
4. Ločs, S., Boiko, I. Quality Assessment of Laser Cladded HSS Coatings with Deep Penetration into Base Material to Obtain a Smooth Gradient of Properties in Coating-Substrate Interface. Agronomy Research, 2018, Vol.16, Special Iss.1, 1095.-1109.lpp. ISSN 1406-894X. Pieejams: doi:10.15159/AR.18.094
5. V. Sengileyev. On decreasing sigmoidal function: inhibition. Proceedings of IMCS of University of Latvia (ISSN 1691-8134), 18 (2018), 43-53.
6. Diana Ogorelova. Gompertz function in the model of gene regulation network. Latvijas Universitātes Matemātikas un Informātikas Institūta zinātniskie raksti. (2018). Pieejams: https://lumii.lv/uploads/sadirbajevs\_2018/Contents2018.html
7. Krasovska M., Gerbreders V., Mihailova I., Ogurcovs A., Sledevskis E., Gerbreders A., Sarajevs P. ZnO-nanostructure-based electrochemical sensor: Effect of nanostructure morphology on the sensing of heavy metal ions (2018) Beilstein Journal of Nanotechnology, 9 (1), pp. 2421 - 2431; DOI: 10.3762/bjnano.9.227

**2019. gads**

1. Felix Sadyrbaev, Diana Ogorelova, Inna Samuilika. A Nullclines Approach to the Study of 2D Artificial Network Contemporary Mathematics (2019). Pieejams: <http://ojs.wiserpub.com/index.php/CM/article/view/cm.11201976.1-11>
2. Diana Ogorelova. Description of critical points for some system arising in applications. Latvijas Universitātes Matemātikas un Informātikas Institūta zinātniskie raksti (2019). Pieejams: https://lumii.lv/uploads/sadirbajevs\_2019/Sbornik2019english.html

**2020. gads**

1. V. Mizers, V. Gerbreders, E. Sledevskis, I. Kokina, E. Tamanis, M. Krasovska, I. Mihailova, A. Orugcovs, A. Bulanovs “Electrochemical detection of small volumes of glyphosate with mass-produced non-modified gold chips” ,Latvian Journal of Physics and Technical Sciences 57(3):32-39,2020, DOI: 10.2478/lpts-2020-0013
2. Spriņģis, G., Boiko, I. Comparison of Experimental and Theoretical Wear Studies of Sliding Friction Pairs of Metallic Surfaces. No: Riga Technical University 61st International Scientific Conference : Mechanical Engineering Technology and Heat Engineering: Programme and Abstract Book, Latvija, Riga, 14.-14. oktobris, 2020. Riga: RTU Press, 2020, 15.-16.lpp. ISBN 978-9934-22-503-1.
3. A. Bogachov and F. Sadyrbaev. On forced vibrations caused by earthquakes. Proceedings of IMCS of University of Latvia, 20 (2020), pp. 49-55.
4. D. Ogorelova, F. Sadyrbaev, V. Sengileyev. Control in inhibition GRN-system. Contemporary Mathematics, Volume 1 Issue 5|2020| 421-428. DOI: https://doi.org/10.37256/cm.152020538

**2021. gads**

1. V. Gerbreders, M. Krasovska, I. Mihailova, J. Kostjukevics, E. Sledevskis, A. Ogurcovs, A. Gerbreders, A. Bulanovs "METAL OXIDE NANOSTRUCTURE-BASED GAS SENSOR FOR CARBON DIOXIDE DETECTION" LATVIAN JOURNAL OF PHYSICS AND TECHNICAL SCIENCES 2021, N5, DOI: 10.2478/lpts-2021-0036
2. Spriņģis, G., Griņevičs, I. Transportlīdzekļos lietoto iekšdedzes virzuļmotoru kloķvārpstu izgatavošanā izmantojamo materiālu izvēle un izgatavošanas tehnoloģiju attīstība. No: Zinātniski metodiskā konference "Izaicinājumi inženierzinātņu augstākajā izglītībā": tēžu krājums, Latvija, Rīga, 15.-15. aprīlis, 2021. Rīga: RTU Izdevniecība, 2021, 41.-42.lpp. ISBN 978-9934-22-672-4.
3. Spriņģis, G., Griņevičs, I. Attālinātās apmācības aspekti studiju kursā «Datorgrafika mašīnbūvē» un darba efektivitātes paaugstināšana. No: Zinātniski metodiskā konference "Izaicinājumi inženierzinātņu augstākajā izglītībā": tēžu krājums, Latvija, Rīga, 15.-15. aprīlis, 2021. Rīga: RTU Izdevniecība, 2021, 39.-40.lpp. ISBN 978-9934-22-672-4.
4. Griņevičs, I., Spriņģis, G. Triecienskrūvgrieža elektroenerģijas patēriņa analīze, veicot nekustīgu vītņu savienojumu salikšanu. No: Zinātniski metodiskā konference "Izaicinājumi inženierzinātņu augstākajā izglītībā": tēžu krājums, Latvija, Rīga, 15.-15. aprīlis, 2021. Rīga: RTU Izdevniecība, 2021, 36.-38.lpp. ISBN 978-9934-22-672-4.
5. Griņevičs, I., Spriņģis, G., Šīrons, E. Pievilkšanas momenta noteikšana nekustīgu vītņu savienojumu salikšanā dažādos triecienskrūvgrieža darba režīmos. No: Zinātniski metodiskā konference "Izaicinājumi inženierzinātņu augstākajā izglītībā": tēžu krājums, Latvija, Rīga, 15.-15. aprīlis, 2021. Rīga: RTU Izdevniecība, 2021, 33.-35.lpp. ISBN 978-9934-22-672-4.
6. Griņevičs, I., Ņikišins, V., Spriņģis, G. Research of Kinematic Stepping Mechanism. Latvian Journal of Physics and Technical Sciences, 2021, Vol. 58, No. 5, 63.-72.lpp. ISSN 0868-8257. Pieejams: doi:10.2478/lpts-2021-0040
7. A. Bogachov and F. Sadyrbaev, On forced vibrations caused by earthquakes, International Journal of Mechanical Engineering, Vol. 6, 2021, pp. 34-37.
8. F. Sadyrbaev, V. Sengileyev, A. Silvans. On Coexistence of Inhibition and Activation in Genetic Regulatory Networks. 19 Intern.Confer.Numer.Analys. and Appl.Mathematics, Rhodes, Greece, 20-26 September 2021, To appear in AIP Conference Proceedings. \url{https://aip.scitation.org/journal/apc} Scopus
9. F. Sadyrbaev, I. Samuilik, V. Sengileyev. On Modelling of Genetic Regulatory NetWorks. WSEAS Transactions on Electronics, 2021, Vol. 12, No. 1, 73.-80.lpp. ISSN 1109-9445. e-ISSN 2415-1513. doi:10.37394/232017.2021.12.10 Scopus
10. F. Sadyrbaev, V. Sengileyev. On a high-dimensional models of genetic networks. LU MII Zinātniskie raksti (ISSN 1691-8134), 21(2021), 55-62.
11. Felix Sadyrbaev, Valentin Sengileyev, Albert Silvans. Attractors In A Three-Dimensional Genetic Network. 4th International Health Sciences And Innovation Congress July 5-6, 2021, Baku/Azerbaijan, Proceedings Book, 379-385
12. I. Samuilik, D. Ogorelova. Mathematical modelling of GRN using different sigmoidal functions. In: 1st International symposium on recent advances in fundamental and applies sciences (ISFAS-2021), Turkey, Erzurum, 10-12 September, 2021. Erzurum:

Ataturk University Publishing House, 2021, pp.491-498. ISBN 978-625-7086-40-0.

1. Ogorelova D., V. Sengileyev. Comparison of Two Mathematical Models for Genetic Networks. 1st International symposium on recent advances in fundamental and applied sciences (ISFAS-2021) abstract and full text congress book (2021) Pieejams: https://ekitap.atauni.edu.tr/index.php/1st-international-congress-on-natural-sciences-icnas-2021-abstract-and-full-text-congress-book/ (161.lpp.)
2. Ogorelova D., V. Sengileyev. Comparison of Two Mathematical Models for Genetic Networks. 1st International symposium on recent advances in fundamental and applied sciences (ISFAS-2021) abstract and full text congress book (2021) Pieejams: https://ekitap.atauni.edu.tr/index.php/1st-international-congress-on-natural-sciences-icnas-2021-abstract-and-full-text-congress-book/ (161.lpp.)
3. D. A. Ogorelova, F. Zh. Sadyrbaev. Gompertz function in the model of gene regulatory networks. Itogi Nauki i Tekhniki. Seriya ”Sovremennaya Matematika i ee Prilozheniya. Tematicheskie Obzory”, 2021, Vol. 195, pp. 88–96.
4. Sarajevs P., Gerbreders V., Tamanis E. Features of obtaining zno:Ag thin films systems by the method of simultaneous magnetron sputtering with subsequent annealing (2021) Key Engineering Materials, 893 KEM, pp. 11 – 15. DOI:10.40 28/[www.scientific.net/KEM.893.11](http://www.scientific.net/KEM.893.11)
5. O. Kozlovska, F. Sadirbajevs. Third order equations with an equilibrium point of a given type. Latvijas Universitātes Matemātikas un Informātikas institūta zinātniskie raksti, 2021,Vol. 21, 46.-54.lpp. ISSN 1691-8134.

**2022. gads**

1. Ogurcovs, A., Kadiwala, K., Sledevskis, E., Krasovska, M., Mizers, V. “Glyphosate Sensor Based on Nanostructured Water-Gated CuO Field-Effect Transistor”, Sensors, 2022, 22(22), 8744, DOI: 10.3390/s22228744
2. Gerbreders, V., Krasovska, M., Mihailova, I., Sledevskis, E., Tamanis, E., Auksmuksts, V., Bulanovs, A., Mizers, V. “Morphology Influence on Wettability and Wetting Dynamics of ZnO Nanostructure Arrays Latvian Journal of Physics and Technical Sciences”, 2022, 59(1), pp. 30–43, DOI: 10.2478/lpts-2022-0004
3. Mihailova, I., Gerbreders, V., Krasovska, M., Sledevskis, E., Mizers,.V. Bulanovs, A., Ogurcovs, A. “A non-enzymatic electrochemical hydrogen peroxide sensor based on copper oxide nanostructures” Beilstein Journal of Nanotechnology, 2022, 13, pp. 424–436, DOI: 10.3762/bjnano.13.35
4. Kolbjonoks, V., Kostjukevičs, V. “A method for modifying the surface properties of ZnO nanowires deposited as thin films on various substrates” Proceedings of SPIE - The International Society for Optical Engineering, 2022, 12202, 122020C, DOI: 10.1117/12.2633401
5. V. Sengileyev. On the six-dimensional dynamical models of genetic networks. Proceedings of IMCS of University of Latvia (ISSN 1691-8134), 22 (2022), 23-32.
6. Felix Sadyrbaev, Valentin Sengileyev. Remarks on Inhibition. International Journal of Mathematical and Computational Methods, 7, (2022) 11-17 https://www.iaras.org/iaras/filedownloads/ijmcm/2022/001-0002 (2022).pdf
7. Samuilik I., Sadirbajevs F., Sengileyev V. Examples of periodic biological oscillators. In: Differential Equations, Mathematical Modeling And Computational Algorithms.Collection of materials of the International Conference Belgorod, October 25–29, 2021, 313-314.
8. I. Samuilik, F. Sadyrbaev, V. Sengileyev. Examples of Periodic Biological Oscillators: Transition to a Six-dimensional System. WSEAS Transactions on Computer Research, vol. 10, pp. 49-54, 2022. doi:10.37394/232018.2022.10.7
9. Felix Sadyrbaev, Valentin Sengileyev. Remarks on Inhibition. Equations (E-ISSN: 2732-9976), Vol. 2 (2022), 16-22. DOI: 10.37394/232021.2022.2.4 Pieejams: <https://wseas.com/journals/equations/2022/a08equations-004(2022).pdf>
10. Samuilik I., Sadyrbaev F., Ogorelova D. Mathematical modeling of three-dimensional genetic regulatory networks using logistic and Gompertz functions. WSEAS Transactions on Systems and Control, 2022, 17, pp. 101–107 Scopus 2022. Pieejams: https://www.scopus.com/authid/detail.uri?authorId=57226840738
11. Ogorelova D., Sadyrbaev F. On a three-dimensional neural network model Vibroengineering Procedia. 2022, vol. 47, pp. 6973.
12. Ogorelova D. On a system of ordinary differential equations, arising in applications. Proceedings LU MII, vol 22 (2022), 5–12.
13. O. Kozlovska, F. Sadyrbaev. Models of Genetic Networks with Given Properties. WSEAS Transactions on Computer Research, ISSN / E-ISSN:1991-8755 / 2415-1521. Volume 10, 2022 , 43-49. DOI: 10.37394/232018.2022.10.6
14. O. Kozlovska, F. Sadyrbaev. Mathematical Modelling of Genetic Regulatory Networks. In: *7th International European Conference on Social Sciences:* *Congress Book*, Turkey, Antalija, 22-24 April, 2022. Ankara: Iksad Global. ISBN: 978-625-8377-48-4VII. pp. 349-355.
15. Kozlovska, O., Sadyrbaev, F. On Critical Points of the Three Dimensional Dynamical System Arising in the Theory Of Genetic Networks. *Latvijas* *Universitātes Matemātikas un Informātikas institūta zinātniskie raksti*, 2022, Vol. 22, pp.49-58. ISSN 1691-8134.

**2023. gads**

[Samuilik, I.](https://www.scopus.com/authid/detail.uri?authorId=57226835023), [Sadyrbaev, F.](https://www.scopus.com/authid/detail.uri?authorId=6508350562), [Ogorelova, D.](https://www.scopus.com/authid/detail.uri?authorId=57226840738) [Comparative Analysis of Models of Gene and Neural Networks](https://www.scopus.com/record/display.uri?eid=2-s2.0-85158161903&origin=resultslist). *Contemporary Mathematics (Singapore)*, 2023, 4(2), pp. 217–229

[Ogorelova, D.](https://www.scopus.com/authid/detail.uri?authorId=57226840738), [Sadyrbaev, F.](https://www.scopus.com/authid/detail.uri?authorId=6508350562), [Samuilik, I.](https://www.scopus.com/authid/detail.uri?authorId=57226835023) [On attractors in dynamical systems modeling genetic networks](https://www.scopus.com/record/display.uri?eid=2-s2.0-85167722537&origin=resultslist). *Advances in the Theory of Nonlinear Analysis and its Applications*, 2023, 7(2), pp. 486–498

[Sadyrbaev, F.](https://www.scopus.com/authid/detail.uri?authorId=6508350562), [Samuilik, I.](https://www.scopus.com/authid/detail.uri?authorId=57226835023), [Sengileyev, V.](https://www.scopus.com/authid/detail.uri?authorId=57483578300) [Biooscillators in Models of Genetic Networks](https://www.scopus.com/record/display.uri?eid=2-s2.0-85164036238&origin=resultslist). *Springer Proceedings in Mathematics and Statistics*, 2023, 423, pp. 141–152

[Sadyrbaev, F.](https://www.scopus.com/authid/detail.uri?authorId=6508350562), [Kozlovska, O.](https://www.scopus.com/authid/detail.uri?authorId=57849855600) [Example of Chaotic Behavior in Systems of Ordinary Differential Equations Arising in Modeling of Gene Regulatory Networks](https://www.scopus.com/record/display.uri?eid=2-s2.0-85202430360&origin=resultslist). *CEUR Workshop Proceedings*, 2023, 3746, pp. 85–89, ISSN 1613-0073.

[Ogorelova, D.](https://www.scopus.com/authid/detail.uri?authorId=57226840738), [Sadyrbaev, F.](https://www.scopus.com/authid/detail.uri?authorId=6508350562), [Samuilik, I.](https://www.scopus.com/authid/detail.uri?authorId=57226835023) [On Targeted Control over Trajectories of Dynamical Systems Arising in Models of Complex Networks](https://www.scopus.com/record/display.uri?eid=2-s2.0-85159217095&origin=resultslist). *Mathematics*, 2023, 11(9), 2206

[Kozlovska, O.](https://www.scopus.com/authid/detail.uri?authorId=57849855600), [Sadyrbaev, F.](https://www.scopus.com/authid/detail.uri?authorId=6508350562) [On attractors in systems of ordinary differential equations arising in models of genetic networks](https://www.scopus.com/record/display.uri?eid=2-s2.0-85162973326&origin=resultslist). *Vibroengineering Procedia*, 2023, 49, pp. 136–140. ISSN 2345-0533. e-ISSN 2538-8479.

Kozlovska, O. Remarks on Unusual Behavior of Trajectories in Three-Dimensional Systems of Ordinary Differential Equations. *Latvijas* *Universitātes Matemātikas un Informātikas institūta zinātniskie raksti*, 2023, No. 23, pp.26-32. ISSN 1691-8134.

Kozlovska, O., Samuilika, I. Quasi-Periodic Solutions for a Three-Dimensional System in Gene Regulatory Network. *WSEAS Transactions on Systems*, 2023, Vol. 22, No. 73, pp.727-733. ISSN 1109-2777. Available from: doi:10.37394/23202.2023.22.73

[Sadyrbaev, F.](https://www.scopus.com/authid/detail.uri?authorId=6508350562), [Sengileyev, V.](https://www.scopus.com/authid/detail.uri?authorId=57483578300), [Silvans, A.](https://www.scopus.com/authid/detail.uri?authorId=58696725200) [On Coexistence of Inhibition and Activation in Genetic Regulatory Networks](https://www.scopus.com/record/display.uri?eid=2-s2.0-85176781547&origin=resultslist). *AIP Conference Proceedings*, 2023, 2849(1), 120004

Ogorelova D. Mathematical modelling of gene and neuronal networks by ordinary differential equations. Proceedings LU MII, vol 23 (2023), 33–45.

Ogorelova D., Sadyrbaev F. Periodic attractors in GRN and ANN networks. IEEE Xplore, 2023, pp. 4.

Mihailova, I., Krasovska, M., Sledevskis, E., Gerbreders,V., Mizers,V. Ogurcovs,A. ASSESSMENT OF OXIDATIVE STRESS BY DETECTION OF H2O2 IN RYE SAMPLES USING A CUO- AND Co3O4-NANOSTRUCTURE-BASED ELECTROCHEMICAL SENSOR, *Chemosensors,* 2023, 11, 532. DOI:10.3390/chemosensors11100532

Mizers, V., Gerbreders,V., Krasovska, M., Sledevskis, E., Mihailova, I., Ogurcovs, A., Bulanovs, A., Gerbreders, A. NON-ENZYMATIC Co3O4 NANOSTRUCTURE-BASED ELECTROCHEMICAL SENSOR FOR H2O2 DETECTION. *Latvian Journal of Physics and Technical sciences*, 2023, 60 (6), 63 - 84. DOI:10.2478/lpts-2023-0037

Mihailova, I., Krasovska, M., Sledevskis, E., Gerbreders, V., Mizers, V., Bulanovs, A., Ogurcovs, A. SELECTIVE PATTERNED GROWTH OF ZnO NANONEEDLE ARRAYS. *Latvian Journal of Physics and Technical sciences*, 2023, 60 (6), 35 - 53. DOI: 10.2478/lpts-2023-0035

Fridmans, R.; Puckins, A.; Osipovs, S.; Belyakov, S.; Kirilova, E. 3-[4-(2-Phenylethyl)piperazin-1-yl]-7*H*-benzo[*de*]anthracen-7-one. Molbank **2023**, 2023, M1607. <https://doi.org/10.3390/M1607>

**2024. gads**

Gerbreders,V., Krasovska, M., Sledevskis, E., Mihailova, I., Mizers, V., Keviss, J., and Bulanovs, A. ENHANCING SALT STRESS TOLERANCE IN RYE WITH ZnO NANOPARTICLES: DETECTING H2O2 AS A STRESS BIOMARKER BY NANOSTRUCTURED NiO ELECTROCHEMICAL SENSOR. *Crystals*, 2024, 14, 423. DOI:10.3390/cryst14050423

Gerbreders,V., Krasovska, M., Sledevskis, E., Mihailova, I., Mizers,V. Co3O4 NANOSTRUCTURED SENSOR FOR ELECTROCHEMICAL DETECTION OF H2O2 AS A STRESS BIOMARKER IN BARLEY: Fe3O4 NANOPARTICLES-MEDIATED ENHANCEMENT OF SALT STRESS TOLERANCE. *Micromachines*, 2024, 15(3), 311. DOI: 10.3390/MI15030311

[Kozlovska, O.](https://www.scopus.com/authid/detail.uri?authorId=57849855600), [Sadyrbaev, F.](https://www.scopus.com/authid/detail.uri?authorId=6508350562), [Samuilik, I.](https://www.scopus.com/authid/detail.uri?authorId=57226835023) [A New 3D Chaotic Attractor in Gene Regulatory Network](https://www.scopus.com/record/display.uri?eid=2-s2.0-85182166016&origin=resultslist). *Mathematics*, 2024, 12(1), 100. Available from: doi:10.3390/math12010100

[Atslega, S.](https://www.scopus.com/authid/detail.uri?authorId=16318461400), [Kozlovska, O.](https://www.scopus.com/authid/detail.uri?authorId=57849855600), [Sadyrbaev, F.](https://www.scopus.com/authid/detail.uri?authorId=6508350562) [On Period Annuli and Induced Chaos](https://www.scopus.com/record/display.uri?eid=2-s2.0-85193033365&origin=resultslist)**.** *WSEAS Transactions on Systems*, 2024, 23, pp. 149–156. Available from: doi:10.37394/23202.2024.23.17

[Ogorelova, D.](https://www.scopus.com/authid/detail.uri?authorId=57226840738), [Sadyrbaev, F.](https://www.scopus.com/authid/detail.uri?authorId=6508350562) [Comparative Analysis of Models of Genetic and Neuronal Networks](https://www.scopus.com/record/display.uri?eid=2-s2.0-85190815291&origin=resultslist). *Mathematical Modelling and Analysis*, 2024, 29(2), pp. 277–287

[Kozlovska, O.](https://www.scopus.com/authid/detail.uri?authorId=57849855600), [Sadyrbaev, F.](https://www.scopus.com/authid/detail.uri?authorId=6508350562) [In Search of Chaos in Genetic Systems](https://www.scopus.com/record/display.uri?eid=2-s2.0-85190744464&origin=resultslist). *Chaos Theory and Applications*, 2024, 6(1), pp. 13–18. Available from: doi:10.51537/chaos.1380419

Ogorelova D., Sadyrbaev F. Remarks on mathematical modeling of gene and neuronal networks by ordinary differential equations. Axioms MDPI, 2024, 13(1), 61.