

## Общ списък с цитирания

- **Звено: ( ИМИ )** Институт по математика и информатика
- **Секция: ( ИМИ )** Математическо моделиране и числен анализ
- **Име: ( ИМИ/0130 )** Борисов, Милен Колев

Брой цитирани публикации: 8

Брой цитиращи източници: 50 към 31.12.2022

от тях 32 в WoS или Scopus

### 2012

1. **Borisov M., N. Dimitrova, V. Beschkov.** Stability Analysis of a Bioreactor Model for Biodegradation of Xenobiotics. Computers and Mathematics with Applications, 64, 3, Elsevier, 2012, ISSN:0898-1221, DOI:0.1016/j.camwa.2012.0.067, 361-373. JCR-IF (Web of Science):2.069

Цитирана се в:

1. Rene Alt, Jean-Luc Lamotte: Stochastic Arithmetic as a Tool to Study the Stability of Biological Models, BIOMATH, vol. 2, No. 2, 2013, Article ID: 1312291. ISSN 1314-7218 (online) ISSN 1314-684X, @2013 -
2. N. Kyurkchiev, S. Markov, G. Velikova: The dynamics and control of a singular biological economic model with stage structure. Some moduli in programming environment Mathematica. Biomath Communications 2/2 (2015) <http://dx.doi.org/10.11145/j. bmc.2015.12.291>, @2015 -
3. Iliev Anton, Nikolay Kyurkchiev, Asen Rahnev: A special choice of nutrient supply for cell growth in logistic differential model. Some applications. October 2019, AIP Conference Proceedings 2159(1):030016, <https://doi.org/10.1063/1.5127481>, Conference Renewable Energy Sources and Technologies, @2019 [Линк](#) WoS, Scopus
4. Nikolay Kyurkchiev, Svetoslav Markov. On a Logistic Differential Model. Some Applications. Biomath Communications 6, 2019, 34-50, @2019 [Линк](#) -
5. G. Martalò, C. Bianchi, B. Buonomo, M. Chiappini, V. Vespri: Mathematical modeling of oxygen control in biocell composting plants. Mathematics and Computers in Simulation, vol. 177, 2020, 105-119, DOI:10.1016/j.matcom.2020.04.011, @2020 [Линк](#) WoS, Scopus
6. Martalò, G., C. Bianchi, B. Buonomo, M. Chiappini, V. Vespri: A minimum time control problem for aerobic degradation processes in biocell composting plants. Optimal Control, Applications and Methods, Wiley online library, 41(4), pp. 1251-1266, First published: 22 April 2020, @2020 [Линк](#) WoS, Scopus
7. Lecca, P.; Re, A. On the asymptotic stability of advection-diffusion equations of mass transport in a bubble column bioreactor. November 2021, Journal of Physics Conference Series 2090(1):012035, <https://doi.org/10.1088/1742-6596/2090/1/012035>, @2021 [Линк](#) WoS, Scopus
8. Kyurkchiev, V., Iliev, A., Rahnev, A., Kyurkchiev, N. Selected Chapters from Growth Modeling: Theory and Applications, Reaction Networks Analysis (A Practitioner's Guide Using CAS Mathematica). Plovdiv University Press, 2022, ISBN: 978-619-7663-12-9, @2022 [Линк](#) -
9. Martalò, G., Bianchi, C., Buonomo, B., Chiappini, M., Vespri, V. (2022). Optimal Control Strategies for Composting Processes in Biocells with L1 -Type and L2 -Type Cost Objectives. In: Chiappini, M., Vespri, V. (eds) Applied Mathematical Problems in Geophysics. Lecture Notes in Mathematics, Springer, Cham, vol. 2308., 5-21, 2022, @2022 [Линк](#) WoS, Scopus

### 2016

2. **Borisov, M., Dimitrova, N., Simeonov, I.** Mathematical Modelling of Anaerobic Digestion with Hydrogen and Methane Production. In: R. Findeisen, E. Bullinger, E. Balsa-Canto, K. Bernaerts (eds.), Foundations of Systems Biology in Engineering FOSBE 2016 - Magdeburg, Germany, October 9-12, 2016, 49, 26, Elsevier, IFAC-PapersOnLine, 2016, ISSN:2405-8963, DOI:10.1016/j.ifacol.2016.12.131, 231-238. SJR:0.263

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10. Gurubel, Kelly J., Edgar Sanchez, Alberto Coronado, Virgilio Zunga, Belkis Sulbaran. Optimal Neural Control of A Two Stages Anaerobic Digestion Model for Biofuels Production. 2018, DOI: 10.1109/IJCNN.2018.8489189; International Joint Conference on Neural Networks (IJCNN), IEEEExplore, E-ISSN: 2161-4407, @2018 [Линк](#) WoS, Scopus
11. Zlateva, P. V.: Sliding mode control of biogas production by anaerobic digestion with addition of acetate . E3S Web of Conferences, Volume 93, 2019, article number 03002, <https://doi.org/10.1051/e3sconf/20199303002>, @2019 [Линк](#) WoS, Scopus
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13. Zlateva, P. V. Sliding mode control of biogas production by anaerobic digestion with addition of acetate . E3S Web of Conferences, Volume 93, 2019, article number 03002, @2019 [Линк](#) -
14. Abdalah, M., Modeling reactor-focused energy balances for multi-stage CSTR anaerobic digestion systems. Journal of Renewable and Sustainable Energy, 2020, 12(6), 065502, @2020 [Линк](#) WoS, Scopus

15. Dholawala M. J., Christian R. A. A Unique Variable Selection Approach in Fuzzy Modeling to Predict Biogas Production in Upflow Anaerobic Sludge Blanket Reactor (UASBR) Treating Distillery Wastewater. Arabian Journal for Science and Engineering, June 2020, <https://doi.org/10.1007/s13369-020-04582-8>, @2020 [Линк](#) WoS, Scopus
16. Dholawala, M. J., Christian, R. A. Prediction of Biogas Production in Upflow Anaerobic Sludge Blanket Reactor Based on Fuzzy Rule. August 2020, International Journal of Sustainable Development and Planning, vol. 15, No 5, 721-733 <https://doi.org/10.18280/ijstdp.150514>, @2020 [Линк](#) WoS, Scopus
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18. Abdalah, M. The structured modeling framework of anaerobic digestion in Modelica: development of ADMLib package. SIMULATION: Transactions of The Society for Modeling and Simulation International, First Published May 24, 2021, @2021 [Линк](#) WoS, Scopus

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## 2018

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3. Anguelov, R., Borisov, M., Iliev, A., Kyurkchiev, N., Markov, S.. On the chemical meaning of some growth models possessing Gompertzian-type property. Mathematical Methods in the Applied Sciences, 41, 18, 2018, ISSN:1099-1476, DOI:10.1002/mma.4539, 8365-8376. JCR-IF (Web of Science):1.18

### Цитирана се в:

19. O. Rahneva, H. Kiskinov, I. Dimitrov, V. Matanski, Application of a Weibull Cumulative Distribution Function Based on m Existing Ones to Population Dynamics, International Electronic Journal of Pure and Applied Mathematics, Volume 12, No. 1 (2018), 111-121, ISSN: 1314-0744, doi: 10.12732/iejpm.v12i1.8., @2018 [Линк](#) -
20. T. Terzieva, H. Kiskinov, O. Rahneva, V. Kyurkchiev, On the Approximation of the Step Function by a New Modified Laplace Cumulative Distribution Function, International Journal of Pure and Applied Mathematics, Volume 120 No. 3 2018, 401-414, ISSN: 1311-8080, SJR: 0.139, doi: 10.12732/ijpam.v120i3.10., @2018 [Линк](#) WoS, Scopus
21. A. Malinova, O. Rahneva, A. Golev, V. Kyurkchiev, A Note on the "Transmuted Transmuted-G Family" of Cumulative Distribution Functions, International Journal of Differential Equations and Applications, Volume 18, No. 1 (2019), pages: 111-122, ISSN (Print): 1311-2872; ISSN (Online): 1314-6084, doi: 10.12732/ijdea.v18i1.932, Индексирана в СКОПУС., @2019 [Линк](#) -
22. A. Malinova, O. Rahneva, T. Terzieva, E. Angelova, Investigations on a "Exponential-Exponentiated-Exponential" Growth Model, Neural, Parallel, and Scientific Computations, 27, No. 3&4 (2019), 177-184, ISSN: 1061-5369, SJR: 0.115., @2019 [Линк](#) -
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24. E. Angelova, A. Golev, T. Terzieva, O. Rahneva, A Study on a Hyper-power-logistic Model. Some Applications, Neural, Parallel, and Scientific Computations, 27, No. 1 (2019), 45-57, doi:10.12732/npssc.v27i1.5, ISSN: 1061-5369, SJR:0.146., @2019 [Линк](#) -
25. E. Angelova, A. Malinova, T. Terzieva, O. Rahneva, A Note on the Modified Inverse Rayleigh Cumulative Sigmoid. Some Applications, Neural, Parallel, and Scientific Computations, 27, No. 2 (2019), 59-69, doi: 10.12732/npssc.v27i2.1, ISSN: 1061-5369, SJR 0.146., @2019 [Линк](#) -
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29. E. Angelova, T. Terzieva, V. Kyurkchiev, O. Rahneva, On a Logistic Differential Model, Neural, Parallel, and Scientific Computations, 27, No. 2 (2019), 93-104, ISSN: 1061-5369, SJR: 0.115, doi: 10.12732/npssc.v27i2.4., @2019 [Линк](#) -
30. M. Zarei, K. Javadiy, A. Kalhor, Perturbed Tumor Immunotherapy Domain of Attraction Estimation via the Arc-Length Function, Conference: Biomedical Engineering (ICBME), 2nd International Conference on, 2018.At: Iran, Индексирана в СКОПУС., @2019 [Линк](#) WoS, Scopus
31. K. Tsocheva, Mathematical Analysis of Some Reaction Networks Inducing Biological Growth/Decay Functions, Biomath Communications, 7 (2020), 14-58., @2020 [Линк](#) -
32. O. Rahneva, A. Golev, G. Spasov, Investigations on Some New Models in Debugging and "Growth" Theory, LAP Lambert Academic Publishing, 2020., @2020 -
33. Castorina, P., Carco', D. Nutrient supply, cell spatial correlation and Gompertzian tumor growth. Theory Biosci. (2021), IF: 1.303., @2021 [Линк](#) WoS, Scopus
34. Dong, S., Wang, G., Kang, Y., Ma, Q., Wan, S. "Soil water and salinity dynamics under the improved drip-irrigation scheduling for ecological restoration in the saline area of Yellow River basin", Agricultural Water Management, Volume 264, 30 April 2022, 107255, IF: 4.516, 2022, @2022 [Линк](#) WoS, Scopus

35. Lavrova, A.I., Dogonadze, M.Z., Sychev, A.V., Manicheva, O.A., Postnikov, E.B. "Ensemble density-dependent synchronization of mycobacterial growth: BACTEC MGIT 960 fluorescence-based analysis and mathematical modelling of coupled biophysical and chemical processes" [J]. AIMS Microbiology, 2022, 8(2): 208-226. SJR: 0.809, doi: 10.3934/microbiol.2022017, 2022, @2022 [Линк](#) WoS, Scopus

## 2019

4. **Borisov, Milen K., Neli S. Dimitrova, Mikhail I. Krastanov.** Model-based stabilization of a fermentation process using output feedback with discrete time delay. Lecture Notes in Computer Science, 11189, Springer, 2019, ISBN:978-3-030-10692-8, ISSN:0302-9743, DOI:https://doi.org/10.1007/978-3-030-10692-8\_38, 342-350. SJR (Scopus):0.295

Цитира се в:

36. Yu, T., Yuan, S., Zhang, T., "The effect of delay interval on the feedback control for a turbidostat model". Journal of the Franklin Institute 358(15), pp. 7628-7649, 2021, @2021 [Линк](#) WoS, Scopus

5. **Borisov, M., Dimitriu, G., Rashkov, P.** Modelling the Host Immune Response to Mature and Immature Dengue Viruses. Bulletin of Mathematical Biology, 81, 12, Springer US, 2019, ISSN:0092-8240, DOI:10.1007/s11538-019-00664-3, 4951-4976. SJR (Scopus):0.652, JCR-IF (Web of Science):1.812

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37. A.A. Raetzah, A.M. Elaiw, A.S. Alofi. "Global stability of a secondary dengue viral infection model" Applied Mathematics and Information Sciences 14(4): 635-643, @2020 [Линк](#) WoS, Scopus
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39. Nguyen H.D., Chaudhury S., Waickman A. T., Friberg H., Currier J.R., Wallqvist A. "Stochastic Model of the Adaptive Immune Response Predicts Disease Severity and Captures Enhanced Cross-Reactivity in Natural Dengue Infections." Frontiers in Immunology 12: 696755, @2021 [Линк](#) WoS, Scopus
40. Alshaikh, M.A., Elnahary, E.K., Elaiw, A.M. "Stability of a secondary dengue viral infection model with multi-target cells" Alexandria Engineering Journal 61(9): 7075-7087, @2022 [Линк](#) WoS, Scopus
41. M. Aguiar, V. Anam, K. B. Blyuss, C. D. S. Estadilla, B. V. Guerrero, D. Knopoff, B. W. Kooi, A. K. Srivastav, V. Steindorf, N. Stollenwerk, "Mathematical models for dengue fever epidemiology: a 10-year systematic review". Physics of Life Reviews. 40, 65-92, @2022 [Линк](#) WoS, Scopus
42. Raetzah, A. A. "Dynamical Analysis of Secondary Dengue Viral Infection with Multiple Target Cells and Diffusion by Mathematical Model". Discrete Dynamics in Nature and Society. Article ID 2106910., @2022 [Линк](#) WoS, Scopus
43. Ribeiro, Beatriz Pinheiro da Silva. "Revisão integrativa dos fatores que desencadeiam a resposta imunológica ao vírus da dengue com enfoque no desenvolvimento de modelos matemáticos", Universidade Estadual Paulista, Brazil, @2022 [Линк](#) -

## 2020

6. **Borisov, M., Denchev, D., Simeonov, I.** Mathematical Modelling of a Two-stage Anaerobic Digestion Process with Hydrogen and Methane Production Using ADM1. Ecological Engineering and Environment Protection, 1, National Society of Ecological Engineering and Environment Protection, 2020, ISSN:1311-8668, DOI:10.32006/eeep.2020.1.1829, 18-29

Цитира се в:

44. Sunil, S., Arif, M., Ray, K. "Modelling of Anaerobic Digester for the Conversion of Organic Waste Into Hydrogen and Methane." Materials Today: Proceedings, Elsevier BV, Aug. 2022, https://doi.org/10.1016/j.matpr.2022.07.294., @2022 [Линк](#) WoS, Scopus

7. **Borisov, M., Dimitrova, N., Simeonov, I.** Mathematical Modeling and Stability Analysis of a Two-Phase Biosystem. Processes, 8, 7, MDPI, 2020, ISSN:2227-9717, DOI:https://doi.org/10.3390/pr8070791, 791. SJR (Scopus):0.403, JCR-IF (Web of Science):2.753

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45. Bertacchi, S.; M. Ruusunen, A. Sorsa, A. Sirviö, P. Branduardi. Mathematical Analysis and Update of ADM1 Model for Biomethane Production by Anaerobic Digestion. MDPI Fermentation 2021, 7(4), 237, @2021 [Линк](#) WoS, Scopus
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## 2021

8. **Borisov, M. K., Markov, S.** The two-step exponential decay reaction network: analysis of the solutions and relation to epidemiological SIR models with logistic and Gompertz type infection contact patterns. Journal of Mathematical Chemistry, 59, 5, Springer, 2021, ISSN:0259-9791, DOI:https://doi.org/10.1007/s10910-021-01240-8, 1283-1315. SJR (Scopus):0.421, JCR-IF (Web of Science):2.357

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48. Kyurkchiev, N. "Kies Cumulative Distribution Function: Reaction Network Analysis and Related Problems", Biomath Communications 9(2):2211299, 2022, @2022 [Линк](#) -
49. Kyurkchiev, N., Zhevski, T., Iliev, A., Rahnev, A. "A Modified Three-parameter Kies Cumulative Distribution Function in the Light of Reaction Network Analysis." International Journal of Differential Equations and Applications, Volume 21, No. 2 (2022), pages: 1-17, 2022, @2022 [Линк](#) WoS, Scopus
50. Rongdi T., Daoxin G., Yaocheng D., Sheng X., Jie D., Ling Li, Zhanpeng Z., Jiangfu Z., Long Su, Lihua Y. "π-π Stacked step-scheme PDI/g-C<sub>3</sub>N<sub>4</sub>/TiO<sub>2</sub>@Ti<sub>3</sub>C<sub>2</sub> photocatalyst with enhanced visible photocatalytic degradation towards atrazine via peroxymonosulfate activation", Chemical Engineering Journal, Volume 427, 2022, 131809, ISSN 1385-8947, 2022, @2022 [Линк](#) WoS, Scopus