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| **Публикации (2018-2020):**1. Telyshev D.V. A mathematical model for the estimating physiological parameters of blood flow through rotary blood pumps // Biomedical Engineering. – 2020. – V. 54. – N. 3. – P. 163-168.
2. Телышев Д.В. Прогнозирование и оценка надежности аппаратов механического замещения функции сердца // Изв. вузов. Электроника. – 2020. – Т. 25. – № 1. – С. 58-68.
3. Porfiryev A., Markov A., Galyastov A., Denisov M., Burdukova O, Gerasimenko A.Y., Telyshev D. Fontan Hemodynamics Investigation via Modeling and Experimental Characterization of Idealized Pediatric Total Cavopulmonary Connection // Applied Sciences. – 2020. – V.10. – Article 6910. – P.1-17
4. Simakov S., Timofeev A., Gamilov T., Kopylov P., Telyshev D., Vassilevski Y. Analysis of the impact of left ventricular assist devices on the systemic circulation // Russian Journal of Numerical Analysis and Mathematical Modelling. – 2020. – V.35. – N. 5. – P. 295-314.
5. Simakov S., Timofeev A., Gamilov T., Kopylov P., Telyshev D., Vassilevski Y. Analysis of Operating Modes for Left Ventricle Assist Devices via Integrated Models of Blood Circulation // Mathematics. – 2020. – V.8. – Article 1331. – P.1-18.
6. Gerasimenko, A.Y.; Zhurbina, N.N.; Cherepanova, N.G.; Semak, A.E.; Zar, V.V.; Fedorova, Y.O.; Eganova, E.M.; Pavlov, A.A.; Telyshev, D.V.; Selishchev, S.V.; Glukhova, O.E. Frame Coating of Single-Walled Carbon Nanotubes in Collagen on PET Fibers for Artificial Joint Ligaments // International Journal of Molecular Sciences. – 2020. – V.21. – Article 6163. – P.1-27.
7. Korn L., Lyra S., Ruschen D., Telyshev D., Leonhardt S., Walter M. In silico and in vitro conductivity models of the left heart ventricle // Journal of Electrical Bioimpedance. – 2020. – V. 11. – P. 62-71.
8. Telyshev D., Denisov M., Markov A., Fresiello L., Verbelen T., Selishchev S. Energetics of blood flow in Fontan circulation under VAD support // Artificial Organs. – 2020. – V. 44. – N. 1 – P. 50-57.
9. Savelyev M.S., Gerasimenko A.Y., Vasilevsky P.N., Fedorova Y.O., Groth T., Ten G.N., Telyshev D.V. Spectral analysis combined with nonlinear optical measurement of laser printed biopolymer composites comprising chitosan/SWCNT // Analytical Biochemistry. – 2020. – V. 598. – Article 113710. – P. 1-8.
10. Petukhov D., Korn L., Walter M., Telyshev D. A novel control method for the rotary blood pumps as left ventricular assist device utilizing aortic valve state detection // BioMed Research International. – 2019. – V. 2019. – Article ID 1732160. – P. 1-12.
11. Slepchenkov M.M., Gerasimenko A.Y., Telyshev D.V., Glukhova O.E. Protein-Polymer Matrices with Embedded Carbon Nanotubes for Tissue Engineering: Regularities of Formation and Features of Interaction with Cell Membranes // Materials. – 2019. – V. 12. – N. 19 – P. 1-15.
12. Pugovkin A.A., Markov A.G., Selishchev S.V., Korn L., Walter M., Leonhardt S., Bockeria L.A., Bockeria O.L., Telyshev D.V. Advances in Hemodynamic Analysis in Cardiovascular Diseases Investigation of Energetic Characteristics of Adult and Pediatric Sputnik Left Ventricular Assist Devices during Mock Circulation Support // Cardiology research and practice. – 2019. – V. 2019. – Number of article 4593174. – P. 1-15.
13. Danilov A. A., Aubakirov R. R., Mindubaev E. A., Gurov K. O., Telyshev D. V., Selishchev S. V. An Algorithm for the Computer Aided Design of Coil Couple for a Misalignment Tolerant Biomedical Inductive Powering Unit // Ieee access. – 2019. – V. 7. – P. 70755-70769.
14. L. P. Ichkitidze, M. V. Belodedov, S. V. Selishchev and D. V. Telyshev. Magnetomodulating Magnetometer Based on High-Temperature Superconductors // IEEE Magnetics Letters. – 2019. – V. 10. – Number of article 3110705. – P. 1-5.
15. Telyshev D., Petukhov D., Selishchev S. Numerical modeling of continuous-flow left ventricular assist device performance // The International Journal of Artificial Organs. – 2019. – V. 42. – N. 11. – P. 611-620.
16. Denisov M.V., Telyshev D.V., Selishchev S.V., Romanova A.N. Investigation of Hemocompatibility of Rotary Blood Pumps: The Case of the Sputnik Ventricular Assist Device // Biomedical Engineering. – 2019. – V. 53. – N. 3. – P. 181-184.
17. Savostyanov G.V., Slepchenkov M.M., Gerasimenko A.Y., Telyshev D.V., Glukhova O.E. Transport gap engineering in zigzag graphene nanoribbons through topological design of deposited oxygen atoms: A new way to control the quantum transport in graphene-like materials // Materials Research Express. – 2019. – V. 6. – N. 9. – P. 1-10.
18. Telyshev D.V., Denisov M.V., Selishchev S.V. Numerical Modeling of Blood Flows in Rotary Pumps for Use in Pediatric Heart Surgery in Patients Undergoing the Fontan Procedure // Biomedical Engineering. – 2019. – V. 52. – N. 6. – P. 407-411.
19. Korn L., Lyra S., Rüschen D., Pugovkin A., Telyshev D., Leonhardt S., Walter M. Heart phantom with electrical properties of heart muscle tissue // Current Directions in Biomedical Engineering. – 2018. – V. 4. – N. 1. – P. 97-100.
20. Telyshev D., Denisov M., Pugovkin A., Selishchev S., Nesterenko I. The Progress in the Novel Pediatric Rotary Blood Pump Sputnik Development // Artificial Organs. – 2018. – V. 42. – N. 4. – P. 432-443.
21. Rodionov I. N., Nesterenko I. V., Telyshev D.V., Sapozhkov I.A. Display Interfaces for the Control Unit of an Implantable Cardiac Pump // Biomeditsinskaya radioelektronika. – 2018. – V. 5. – P. 33-35.
22. Porfiryev A., Telyshev D., Pugovkin A., Selishchev S. Effect of thrombus formation on heat emission in Sputnik RBP // Biomeditsinskaya radioelektronika. – 2018. – V. 5. – P. 40-43.
23. Pugovkin A.A., Telyshev D.V., Selishchev S.V. A Mock Circulatory System for Testing Pediatric Rotary Blood Pumps // Biomedical Engineering. – 2017. – V. 51. – N. 2. – P. 83-87.
 |
| **Конференции (2018-2020):**1. Telyshev D., Denisov M., Satyukova A., Le T. Computational Fluid Dynamics Simulation of the Sputnik Pediatric Rotary Blood Pump // IEEE East-West Design and Test Symposium, EWDTS.  – 2018. – Nomber of articl 8524845. – 6 p.
2. Ichkitidze L. P., Selishchev S. V., Telyshev D. V. Combined Magnetic Field Sensor with Nanostructured Elements // 13th Workshop on Low Temperature Electronics (WOLTE). – 2019. – V. 1182.  – Nomber of article 012015. – P. 1-9.
3. Galyastov A., Telyshev D., Kopylov P., Selishchev S. Development of Methods and Algorithms for Determining Physiological Parameters of the Patient with the Help of the Biomodule // 2019 Ural Symposium on Biomedical Engineering, Radioelectronics and Information Technology (USBEREIT). – 2019.  – P. 28-31
4. Pavlov A. E., Telyshev D. V., Nesterenko I. V. Calibration Module for Battery Management System of Medical Devices // IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering (EIConRus). – 2019. – P. 2249-2252.
 |
| **Гранты**1. Российский научный фонд «Проведение исследований научными группами под руководством молодых ученых» Президентской программы исследовательских проектов реализуемых ведущими учеными, в том числе молодыми учеными, научный проект: "Разработка персонализированной биотехнической системы поддержания кровообращения при единственном желудочке сердца (кровообращение по Фонтану)." (2018-2020 г.г.).
2. Российский фонд фундаментальных исследований, конкурс на лучшие научные проекты фундаментальных исследований, проводимый совместно РФФИ и Немецким научно-исследовательским сообществом, научный проект: "Повышение гемосовместимости аппаратов вспомогательного кровообращения с использованием методов физиологического управления" (2019-2021 г.г.).
3. Соглашение № 075-03-2020-216 от 27.12.2019 г. в рамках государственного задания в сфере науки, научный проект: "Исследование и разработка имплантируемых электронных систем для персонального мониторинга и регуляции состояния системы кровообращения"
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