

Publications

1. **Gorshkov-Cantacuzene V. A.** “*The use of a scientific approach to the study Triadology*”: Diss... the Doctor of Theology: 28.05.14 - Kiev: Kiev Theological Academy, 2014. - 210 p.
2. Tsygankov V. N., **Gorshkov-Cantacuzene V. A.**, Kovaleva L. A. “*Long sensors ecological and technological control based on semiconductor oxides*” // Herald MITHT. Series: Social and human sciences and ecology. №2, 2014. T.1., P. 67-73 **IF: 0.138**
3. Tsygankov V. N., Chaban N. G., Safonov V. V., Yakovenko A. G., Arbenina V. V., Gorshkov-Cantacuzene V. A. “*Technological system of production of high purity silicon*” (Edition 2 , revised) / Tutorial. - M.: IPC MITHT named M. V. Lomonosov, 2014 – 68 p.
4. Tsygankov V. N., Yakovenko A. G., **Gorshkov-Cantacuzene V. A.** “*Multifunction design catalyst - temperature sensor – heater*” // II Russian Congress on Catalysis "ROSKATALIZ" [Electronic resource]: abstracts of Congress, 2 – 5 October, 2014, Samara. Volume II / BIC. - Novosibirsk: Institute of Catalysis SB RAS, 2014. P. 311
5. Lomovskoi V. A., **Gorshkov-Cantacuzene V. A.**, Zhigil S. V. *Oblique bending* / Tutorial. - M.: IPC MITHT named M. V. Lomonosov, 2014 – 48 p.
6. Tsygankov V. N., Safonov V. V., **Gorshkov-Cantacuzene V. A.** “*The composite compounds ZnO - MnOm (M - Al, Cr, Ti) and oxides of rare earth elements such as advanced materials technology production of high-temperature-sensitive sensors*” // Eurasian chemical market. Number 12 (123). 2014., P. 26-27
(<http://www.chemmarket.info/ru/home/article/3741/>)
7. **Gorshkov-Cantacuzene V. A.** Research ‘*Education oksiodide mercury in the interaction of metallic mercury with crystalline iodine*’ // Fundamental problems of science: a collection of articles of the International scientific and practical conference (January 23, 2015, Ufa) - Ufa: RIO MTSII OMEGA Science, 2015. P. 10-12
(<http://os-russia.com/SBORNIKI/KON-32.pdf>)
8. **Gorshkov-Cantacuzene V. A.** “*On the question of calculating the coefficient of Darcy by regression analysis*” // Proceedings of the XXI International symposium «Dynamic and technological problems of a mechanics of constructions and continuous mediums» dedicated to A. G. Gorshkov, Vyatichi, February 16-20, 2015. Volume 1 / Ministry of Education and Science of the Russian Federation, Moscow Aviation Institute (National Research University), the Association of "Mechanics and technology." - M .: OOO "TRP", 2015. P. 59-60
9. **Gorshkov-Cantacuzene V. A.** “*Calculation of Reynolds number within the hemodynamic*”// Bulletin Bakulev SCCS RAMS "Cardiovascular disease". (Abstracts of papers and reports XIX Annual Session of the Bakulev Scientific Center for Cardiovascular Surgery with the All-Russian Conference of Young Scientists. Section: Materials and products for cardiovascular surgery: from experiment to implementation) Volume 16. № 3 May- June 2015 / Bakulev SCCS - M .: Bakulev SCCS, 2015., P. 180 **IF: 0.378**
(http://racvs.ru/events/archive/xix_ezhegodnaya_sessiya_nauchnogo_tsentr_serdechnososudistoy_khirurgii_im_an_bakuleva_s_vserossiysk/vychislenie_kriteriya_reynoldsa_v_ramkakh_geodinamiki/)
10. **Cantacuzene-Gorshkov V. A.**, Tsygankov V. N., Iskhakova L. D., Zhuperin S. E. “*The study of the interaction of mercury with iodine*” // Proceedings of the Second International Symposium on "Mercury in the biosphere: ecological-geochemical aspects." Responsible for release Prof. LM Levchenko, Ph.D. AA Galitsky, 21 - 25 September 2015 Novosibirsk, Russia / Russian Academy of Sciences - Novosibirsk Institute of Inorganic Chemistry SB RAS, 2015. P. 98-102
(http://www.nparso.ru/images/docs/Hg-2015_Book_of_Abstracts1_1.pdf)
11. **Gorshkov-Cantacuzene V. A.** “*Innovations in the treatment of acquired heart disease*” // Proceedings of the Russian National Congress of Cardiologists. The Russian Society of Cardiology annual fight against cardiovascular diseases in Russia, 22 - 25 September 2015

- Moscow / Russian Society of Cardiology - M.: The Russian Society of Cardiology, 2015. P.184-185
(http://scardio.ru/content/activities/2015/Tezisy_moscow_2015.pdf)
12. **Gorshkov-Cantacuzene V. A.**, Tsygankov V. N., Zhuperin S. E. "Ferroelectric auto-thermal heaters in cardiovascular surgery" // Proceedings of the Russian National Congress of Cardiologists. The Russian Society of Cardiology annual fight against cardiovascular diseases in Russia, 22 - 25 September 2015 Moscow / Russian Society of Cardiology - M.: The Russian Society of Cardiology, 2015. P.185
(http://scardio.ru/content/activities/2015/Tezisy_moscow_2015.pdf)
13. **Gorshkov-Cantacuzene V. A.** "Blood flow model" // Proceedings of the Russian National Congress of Cardiologists. The Russian Society of Cardiology annual fight against cardiovascular diseases in Russia, 22 - 25 September 2015 Moscow / Russian Society of Cardiology - M.: The Russian Society of Cardiology, 2015., P. 185-186
(http://scardio.ru/content/activities/2015/Tezisy_moscow_2015.pdf)
14. Tsygankov V. N., Yakovenko A. G., Putin A. Yu., **Gorshkov-Cantacuzene V.A.** "Oxide heat-sensitive materials" // XXIX Scientific-Technical Conference "Chemical reagents, reagents and processes of low-tonnage chemistry" with participation of foreign scientists. - Abstracts, 28 September - 1 October 2015, Novosibirsk Akademgorodok / SB RAS - Novosibirsk: Publishing House of the Institute of Organic Chemistry SB RAS, 2015., P. 129
(http://web.nioch.nsc.ru/reagent2015/images/pdf/ABSTRACTS_REAGENT_2015.pdf)
15. **Gorshkov-Cantacuzene V. A.** "Clinical significance on wave U of EEG" // Abstracts of the Congress "Heart Failure 2015" 10 - 11 December 2015, Krasnogorsk / Society for Heart Failure – P.80
(<http://congress.ossn.ru/events/kongress-serdechnaya-nedostatochnost-2015/book-of-abstract/klinicheskoe-znachenie-zubtsa-u-na-ekg/>)
16. **Gorshkov-Cantacuzene V. A.** "Modeling of the cardiovascular system, and chronic heart failure" // Abstracts of the Congress "Heart Failure 2015" 10 - 11 December 2015, Krasnogorsk / Society for Heart Failure – P.88
(<http://congress.ossn.ru/events/kongress-serdechnaya-nedostatochnost-2015/book-of-abstract/modelirovanie-serdechno-sosudistoy-sistemy-i-khronicheskaya-serdechnaya-nedostatochnost/>)
17. **Gorshkov-Cantacuzene V. A.** "Building a simple theoretical models of dynamics, deformation of the intervertebral disc in the framework of applied mechanics problems" // Abstracts of the II International scientific seminar "Dynamic deformation and contact interaction of thin-walled structures in the interaction of fields of different physical nature", 17 - 19 December 2015, Moscow. / Russian Science Foundation, the Moscow Aviation Institute (National Research University). - M.: OOO "TR-print", 2015. – P.35-36
18. **Gorshkov-Cantacuzene V. A.**, Zhuperin S.E. "GKZh-effect at high Ra values in the calculation of the Nusselt number at the Rayleigh-Benard convection" // Proceedings of the XXII International Symposium "Dynamic and technological problems of structural mechanics and continuum mechanics" of A. Gorshkov, 15 – 19 February, 2016 Vyatichi. Volume 1 / Ministry of Education and Science of the Russian Federation, Moscow Aviation Institute (National Research University), the Association of "Mechanics and Technology". - M.: OOO "TRP", 2016. – P.85-86
19. **Gorshkov-Cantacuzene V. A.** "Modeling of cardiovascular system: a new look at the mechanics of the human circulatory system pathologies" // Abstracts of the IV International scientific seminar "Dynamic deformation and contact interaction of thin-walled structures in the interaction of fields of different physical nature", 15 - 19 February 2016, Moscow. / Russian Science Foundation, the Moscow Aviation Institute (National Research University). - M.: OOO "TR-print", 2016. – P.50-54

20. **Gorshkov-Cantacuzene V. A.** “*The use of anticoagulants in pulmonary hypertension in children: what's new recommended for the past 8 years?*” // 1st all-Russian Forum of AntiCoagulant Therapy (FACT-2016), March 23-24, 2016. – P.6-7
21. **Sir Vladimir A. Gorshkov-Cantacuzene** and Sir Sergey E. Zhuperin “*The mechanism of the effect of essential hypertension in the central nervous system and cognitive functions of the person*” // FIERCES on BICA 2016 (First International Early Research Career Enhancement School on Biologically Inspired Cognitive Architectures). Poster, April 21-24, 2016, Moscow, Russia – P. 51
(<http://easychair.org-smart-program/FIERCESONBICA2016/>)
- Gorshkov-Cantacuzene V. A.**, Zhuperin S.E. “*Biomechanics of blood circulation: the main approaches*” // Bulletin Bakulev SCCS RAMS "Cardiovascular disease". (Abstracts of papers and reports XX Annual Session of the Bakulev Scientific Center for Cardiovascular Surgery with the All-Russian Conference of Young Scientists. Section: Modern aspects of Echocardiographic assessment of systolic and diastolic ventricular function in cardio-surgical patients), Volume 17. № 3 May-June 2016 / Bakulev SCCS - M .: Bakulev SCCS, 2015., P.128
IF: 0.378
(<https://racvs.ru/tezis/157879/>)
- Gorshkov-Cantacuzene V. A.** “*Biomechanics of blood circulation: a multidisciplinary approach to solving problems*”// Bulletin Bakulev SCCS RAMS "Cardiovascular disease". (Abstracts of papers and reports XX Annual Session of the Bakulev Scientific Center for Cardiovascular Surgery with the All-Russian Conference of Young Scientists. Section: Topical issues of cardiology and cardiac surgery), Volume 17. № 3 May-June 2016 / Bakulev SCCS - M .: Bakulev SCCS, 2015., P.128
IF: 0.378
(<https://racvs.ru/tezis/157877/>)
22. **Gorshkov-Cantacuzene V.**, Zhuperin S. “*Integrated treatment of Post-Traumatic Stress Disorder associated with impaired opioid use*” // Scientific J. “Bulletin of Science and Practice”, №5(6) – P.185-192. DOI.[10.5281/zenodo.54887](https://doi.org/10.5281/zenodo.54887)
IF: 0.454
(<http://www.bulletennauki.com/#!bnp2016-05/zjkln>)
- Gorshkov-Cantacuzene V.** “*Critique the P. Orlov's article (Mergesel Almatynskii) "Stone or Tree?" from the point of view of Orthodox Apologetics* // Scientific J. “Bulletin of Science and Practice”, №5(6) – P. 231-240. DOI. [10.5281/zenodo.54906](https://doi.org/10.5281/zenodo.54906)
IF: 0.454
(<http://www.bulletennauki.com/#!bnp2016-05/zjkln>)
23. **V. A. Gorshkov-Cantacuzene**, S. E. Zhuperin “Cannavar-Spiridonov operation: an experiment of the Demikhov's ideas or the experiment at the expense of one's life?”, Abstracts of the International Seminar “HISTORY OF CLINICAL AND FUNDAMENTAL NEUROPHYSIOLOGY IN RUSSIA: CONTRIBUTION TO EUROPEAN NEUROSCIENCE”. Edited by K.A. Pashkov. – Moscow, MSMSU, 2016. – PP.100-103
- Gorshkov-Cantacuzene V. A.** “*Biomechanics of blood circulation: a new approach to the problem of pathologies of the cardiovascular system*” // Abstracts of the All-Russian scientific-practical conference with international participation (56 Annual Session of Cardiology) "Cardiology 2016: Results and Prospects", June 2-3, 2016 Moscow, Russian Cardiology Research Scientific and production complex – PP.6-7
(http://cardioweb.ru/files/conference_2_3_jun_2016/tesis.pdf)
24. **Gorshkov-Cantacuzene V.** “*About biomechanics of blood circulation*” // Scientific J. “Bulletin of Science and Practice”, №6(7) – PP. 65-74 DOI.[10.5281/zenodo.55878](https://doi.org/10.5281/zenodo.55878) **IF: 0.454**
(<http://www.bulletennauki.com/#!gorschkovva/dbtwg>)

25. **Gorshkov-Cantacuzene V. A.** “*Instructions for first aid in case of poisoning by various chemicals*”, dep. General Chemical Technology - Moscow, Moscow Technological University (MITHT), 2016 - 11. (*Not for publication in the open press*)
26. Igor Akszjonovics, **Vladimir Gorshkov-Cantacuzene** “*ABIEM device effects on the men*”, ICNM 2016 Book of Abstracts, 3rd International Congress on Naturopathic Medicine, July 1-3, Barcelona, Spain // ID: 02811 – PP.88
- Gorshkov-Cantacuzene V. A.**, Tsygankov V. N., Zhuperin S. E. “*The use of flexible ferroelectric heaters with plastic heart valves*” // Proceedings of the Russian National Congress of Cardiologists. Cardiology 2016: Challenges and Solutions, Section: Emergency cardiology, 20 - 23 September 2016 Yekaterinburg / Russian Society of Cardiology - M.: Russian Society of Cardiology, 2016. - P.503
(<http://www.scardio.ru/content/activities/2016/rko-tesis-03.pdf>)
- Gorshkov-Cantacuzene V. A.** “*Etiology and clinical significance of the ECG wave U*” // Proceedings of the Russian National Congress of Cardiologists. Cardiology 2016: Challenges and Solutions, Section: Fundamental Research, 20 - 23 September 2016 Yekaterinburg / Russian Society of Cardiology - M.: Russian Society of Cardiology, 2016 - P.520-521
(<http://www.scardio.ru/content/activities/2016/rko-tesis-03.pdf>)
- Gorshkov-Cantacuzene V. A.** “*The law of conservation of energy for blood*” // Proceedings of the Russian National Congress of Cardiologists. Cardiology 2016: Challenges and Solutions, Title: Visualization in cardiology, computer technology, 20 - 23 September 2016 Yekaterinburg / Russian Society of Cardiology - M.: Russian Society of Cardiology, 2016 - P.219
(<http://www.scardio.ru/content/activities/2016/rko-tesis-03.pdf>)
- Gorshkov-Cantacuzene V. A.** “*Simulation of the cardiovascular system as a complex (branched) pipeline*” // Proceedings of the Russian National Congress of Cardiologists. Cardiology 2016: Challenges and Solutions, Title: Visualization in cardiology, computer technology, 20 - 23 September 2016 Yekaterinburg / Russian Society of Cardiology - M.: Russian Society of Cardiology, 2016 - P.219-220
(<http://www.scardio.ru/content/activities/2016/rko-tesis-03.pdf>)
- Gorshkov-Cantacuzene V.* “To the question of the etiology and clinical significance of the U wave of the EEG”, Bulletin of Science and Practice. Electronic Journal, 2016, no. 10 (11), PP. 130-133. DOI: [10.5281/zenodo.161068](https://doi.org/10.5281/zenodo.161068) IF: 1.4
(<http://www.bulletennauki.com/gorshkov>)
27. **Gorshkov-Cantacuzene V. A.** “*Drug treatment of obsessive-compulsive disorder: neurocardiology aspect*” // Abstracts of II scientific-practical conference "The interdisciplinary approach to modern neuroscience", November 1, 2016 Moscow / MRI diagnostic center network "MRT24" Academic Hospital-based Research Institute. NN Burdenko "Cecile" Training Center of innovative medicine "Cecil" - M.: OOO "DL Medica" - P.7-9
28. **Gorshkov-Cantacuzene V. A.**, Zhuperin S. E. “*Basic approaches to the modeling of the cardiovascular system*” // Collection of materials XI National Congress of Physicians' Current issues in internal diseases clinic. " 135 years since the birth of VF Zelenin, 23-25 November 2016, Moscow / Russian Scientific Medical Society of Physicians, International Society of Internal Medicine, European Federation of Internal Medicine, Eurasian Association of Therapists - M.: OOO "KST Interforum", 2016. - P.41
- Gorshkov-Cantacuzene V. A.** “*Guidelines for diagnosis and treatment of heart failure Heart Failure Association of the European Society of Cardiology (ESC HFA2016): what's new in the*

- definition and diagnostic algorithm?"* // Abstracts XVI Congress "Heart failure in 2016", 9 - 10 December 2016, Moscow region, Krasnogorsk district, Krasnogorsk, st. International D.16, 18, d.20 / Society for heart failure, the Russian Society of Cardiology - M : Society for Heart Failure, 2016. - P.186
(<http://congress.ossn.ru/upload/medialibrary/cc8/2016Abstracts.pdf>)
29. **Gorshkov-Cantacuzene V. A.** "*Guidelines for diagnosis and treatment of heart failure Heart Failure Association of the European Society of Cardiology (ESC HFA2016): what's new in therapy?*" // Abstracts XVI Congress "Heart failure in 2016", 9 - 10 December 2016, Moscow region, Krasnogorsk district, Krasnogorsk, st. International D.16, 18, d.20 / Society for heart failure, the Russian Society of Cardiology - M : Society for Heart Failure, 2016. - P.186
(<http://congress.ossn.ru/upload/medialibrary/cc8/2016Abstracts.pdf>)
30. **Gorshkov-Cantacuzene V. A.**, Shpikalova M.A. "*Correlations oxytocin levels in children of different ethnic groups with autism and autism spectrum disorders*" // Bulletin of science and practice. 2016. №12 (13). - P.171-178 DOI: 10.5281 / zenodo.205202 **IF: 1.4**
(<http://www.bulletennauki.com/gorshkovcantacuzene-v-a>)
31. **Gorshkov-Cantacuzene V.A.** "*The European Society of Cardiology Guidelines for the management of atrial fibrillation: what's new in anticoagulant therapy?*" // Bulletin of science and practice. 2017. №4 (17). - P.72-75 DOI: 10.5281 / zenodo.546266 **IF: 1.4**
(<http://www.bulletennauki.com/gorshkov>)
32. **Gorshkov-Cantacuzene V.A.** "*Arterial hypertension: epidemic of a national scale*" // Collected materials of the I Therapeutic Forum "Multidisciplinary Patient", 1st All-Russian Conference of Young Therapists, 120th Anniversary of the Birth of V.Kh. Vasilenko, May 16-17, 2017, Moscow / Russian Scientific Medical Society of Physicians, International Society of Internal Medicine, European Union of Internal Medicine, Eurasian Association of Therapists - M: OOO KST Interforum, 2017. - P.26
33. **Gorshkov-Cantacuzene V.A.** "*Drug treatment of isolated systolic hypertension of the third degree complicated by gout in the elderly: clinical case*" // Abstracts of the All-Russian Scientific and Practical Conference, 57th annual session of the Russian Cardiology Research and Production Complex "Cardiology 2017: treating not the disease but the patient", May 31 - 01 June 2017, Moscow - M: Russian Cardiology Research and Production Complex, 2017 - P.30

Patents:

- Tsygankov V.N., Gorshkov-Cantacuzene V.A., Yakovenko A.G. ***Multifunctional sensor.*** Patent RF № 2584316. 2016. Bull. №14
- Tsygankov V.N., Gorshkov-Cantacuzene V.A., Dosmuhamedova F., Putin A.Yu., Yakovenko A.G. ***The thermosensitive cable sensor.*** The application for RF patent number 040,211; reg. Number 2015 125 850; Prior. 06/30/2015

Discoveries:

- mercury oxoiodid
- formula for calculating the coefficient Darcy of turbulent regime (Gorshkov-Cantacuzene's formula)
- model of blood circulation
- criterion Reynolds for blood
- Blood flow model
- the law of conservation of energy for blood
- GKZh effect
- etiology to U wave