

# Dr. Valerij Romanovskij [20779]

## Personal bibliography for the period 1987-2021

### ARTICLES AND OTHER COMPONENT PARTS

#### 1.01 Original scientific article

1. ZHENGXIN, Zhou, ROMANOVSKI, Valery, YU, Jiang. Centers and limit cycles of a generalized cubic riccati system. *International journal of bifurcation and chaos in applied sciences and engineering*. 2020, vol. 30, no. 2, str. 1-10. ISSN 0218-1274. DOI: [10.1142/S0218127420500212](https://doi.org/10.1142/S0218127420500212). [COBISS.SI-ID [17807363](#)], [[JCR](#), [SNIP](#), [WoS](#), [Scopus](#)]
2. ARCET, Barbara, DOLIĆANIN ĐEKIĆ, Diana, MAČEŠIĆ, Stevan, ROMANOVSKI, Valery. Limit Cycles in the Model of Hypothalamic-Pituitary-Adrenal Axis Activity. *Match : communications in mathematical and in computer chemistry*. 2020, vol. 83, str. 331-343. ISSN 0340-6253. [http://match.pmf.kg.ac.rs/electronic\\_versions/Match83/n2/match83n2\\_331-343.pdf](http://match.pmf.kg.ac.rs/electronic_versions/Match83/n2/match83n2_331-343.pdf). [COBISS.SI-ID [23079702](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 23. 4. 2021: no. of citations (TC): 3, without self-citations (CI): 1, [Scopus](#) up to 13. 4. 2021: no. of citations (TC): 3, without self-citations (CI): 1]
3. NAGY, Ilona, ROMANOVSKI, Valery, TÓTH, János. Two nested limit cycles in two-species reactions. *Mathematics*. 25 Sept. 2020, vol. 8, no. 10, str. 1-16. ISSN 2227-7390. DOI: [10.3390/math8101658](https://doi.org/10.3390/math8101658). [COBISS.SI-ID [32061699](#)], [[JCR](#), [SNIP](#), [WoS](#), [Scopus](#)]
4. DA CRUZ, Leonardo P. C., ROMANOVSKI, Valery, TORREGROSA, J. The center and cyclicity problems for quartic linear-like reversible systems. *Nonlinear Analysis. Theory, Methods and Applications*. [Print ed.]. Jan. 2020, vol. 190, art. 111593 (19 str.). ISSN 0362-546X. DOI: [10.1016/j.na.2019.111593](https://doi.org/10.1016/j.na.2019.111593). [COBISS.SI-ID [32108547](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 14. 11. 2020: no. of citations (TC): 1, without self-citations (CI): 1, [Scopus](#) up to 19. 3. 2021: no. of citations (TC): 1, without self-citations (CI): 1]
5. HAN, Maoan, PETEK, Tatjana, ROMANOVSKI, Valery. On some symmetries of quadratic systems. *Symmetry*. 4 Avg. 2020, vol. 12, iss. 8, str. 1-19. ISSN 2073-8994. DOI: [10.3390/sym12081300](https://doi.org/10.3390/sym12081300). [COBISS.SI-ID [32055043](#)], [[JCR](#), [SNIP](#), [WoS](#), [Scopus](#)]
6. PANTEA, C., ROMANOVSKI, Valery. Qualitative studies of some biochemical models. *Vestnik, St. Petersburg University. Mathematics*. 2 Jun. 2020, vol. 53, no. 2, str. 214-222. ISSN 1063-4541. <https://link.springer.com/article/10.1134/S1063454120020144#Sec1>, DOI: [10.1134/S1063454120020144](https://doi.org/10.1134/S1063454120020144). [COBISS.SI-ID [32079107](#)], [[SNIP](#), [WoS](#) up to 25. 11. 2020: no. of citations (TC): 1, without self-citations (CI): 0, [Scopus](#) up to 1. 3. 2021: no. of citations (TC): 1, without self-citations (CI): 0]
7. XIA, Yong-Hui, GRAŠIČ, Mateja, HUANG, Wentao, ROMANOVSKI, Valery. Limit cycles in a model of olfactory sensory neurons. *International journal of bifurcation and chaos in applied sciences and engineering*. 2019, vol. 29, no. 3, str. 1950038-1-1950038-9. ISSN 0218-1274. DOI: [10.1142/S021812741950038X](https://doi.org/10.1142/S021812741950038X). [COBISS.SI-ID [22250006](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 6. 3. 2021: no. of citations (TC): 9, without self-citations (CI): 8, [Scopus](#) up to 20. 3. 2021: no. of citations (TC): 10, without self-citations (CI): 9]
8. FERČEC, Brigita, NAGY, Ilona, ROMANOVSKI, Valery, SZEDERKÉNYI, Gábor, TÓTH, János. Limit cycles in a two-species reaction. *Journal of nonlinear modeling and analysis*. 2019, vol. 1, no. 3, str. 283-300. ISSN 2562-2862. DOI: [10.12150/jnma.2019.283](https://doi.org/10.12150/jnma.2019.283). [COBISS.SI-ID [1024353884](#)]
9. ANTONOV, Valery, FERNANDES, Wilker, ROMANOVSKI, Valery, SHCHEGLOVA, Natalie L. First integrals of the May-Leonard asymmetric system. *Mathematics*. 2019, vol. 7, no. 3, str. 1-15. ISSN 2227-7390. DOI: [10.3390/math7030292](https://doi.org/10.3390/math7030292). [COBISS.SI-ID [22216470](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 15. 3. 2020: no. of citations (TC): 2, without self-citations (CI): 2, [Scopus](#)]

10. LI, Yongjun, ROMANOVSKI, Valery. Hopf bifurcations in a predator - prey model with an omnivore. *Qualitative theory of dynamical systems*. Dec. 2019, vol. 18, iss. 3, str. 1201-1224. ISSN 1575-5460. <https://link.springer.com/article/10.1007%2Fs12346-019-00333-9>, DOI: [10.1007/s12346-019-00333-9](https://doi.org/10.1007/s12346-019-00333-9). [COBISS.SI-ID [47367683](#)], [JCR, SNIP, WoS up to 26. 4. 2021: no. of citations (TC): 4, without self-citations (CI): 3, [Scopus](#) up to 16. 3. 2021: no. of citations (TC): 4, without self-citations (CI): 3]
11. DUKARIĆ, Maša, ERRAMI, Hassan, JERALA, Roman, LEBAR, Tina, ROMANOVSKI, Valery, TÓTH, János, WEBER, Andreas. On three genetic repressilator topologies. *Reaction kinetics, mechanisms and catalysis*. [Print ed.]. Feb. 2019, vol. 126, iss. 1, str. 3-30. ISSN 1878-5190. <https://link.springer.com/article/10.1007/s11144-018-1519-5>, DOI: [10.1007/s11144-018-1519-5](https://doi.org/10.1007/s11144-018-1519-5). [COBISS.SI-ID [6549786](#)], [JCR, SNIP, WoS up to 25. 11. 2020: no. of citations (TC): 4, without self-citations (CI): 3, [Scopus](#) up to 20. 3. 2021: no. of citations (TC): 3, without self-citations (CI): 2]
12. HAN, Maoan, PETEK, Tatjana, ROMANOVSKI, Valery. Reversibility in polynomial systems of ODE's. *Applied mathematics and computation*. [Print ed.]. 2018, vol. 338, str. 55-71. ISSN 0096-3003. [COBISS.SI-ID [21654550](#)], [JCR, SNIP, WoS up to 4. 2. 2021: no. of citations (TC): 9, without self-citations (CI): 8, [Scopus](#) up to 15. 3. 2021: no. of citations (TC): 9, without self-citations (CI): 8]
13. LIANG, Feng, ROMANOVSKI, Valery, ZHANG, Daoxiang. Limit cycles in small perturbations of a planar piecewise linear Hamiltonian system with a non-regular separation line : an introduction. *Chaos, solitons and fractals*. [Print ed.]. June 2018, vol. 111, str. 18-34. DOI: [10.1016/j.chaos.2018.04.002](https://doi.org/10.1016/j.chaos.2018.04.002). [COBISS.SI-ID [21338902](#)], [JCR, SNIP, WoS up to 5. 2. 2021: no. of citations (TC): 3, without self-citations (CI): 3, [Scopus](#) up to 20. 3. 2021: no. of citations (TC): 3, without self-citations (CI): 3]
14. ROMANOVSKI, Valery, HAN, Maoan, HUANG, Wentao. Bifurcation of critical periods of a quintic system. *Electronic journal of differential equations*. Published March 13, 2018, vol. 2018, no. 66, str. 1-11. ISSN 1072-6691. <https://ejde.math.txstate.edu/Volumes/2018/66/romanovski.pdf>. [COBISS.SI-ID [21271574](#)], [JCR, SNIP]
15. HUANG, Wentao, BASOV, Vladimir V., HAN, Maoan, ROMANOVSKI, Valery. Bifurcation of critical periods of a quartic system. *Electronic journal of qualitative theory of differential equations*. 2018, no. 76, str. 1-18. ISSN 1417-3875. <https://www.math.u-szeged.hu/ejqtde/p6429.pdf>, DOI: [10.14232/ejqtde.2018.1.76](https://doi.org/10.14232/ejqtde.2018.1.76). [COBISS.SI-ID [21801750](#)], [JCR, SNIP, WoS up to 17. 3. 2021: no. of citations (TC): 3, without self-citations (CI): 3, [Scopus](#) up to 29. 12. 2020: no. of citations (TC): 1, without self-citations (CI): 1]
16. ZHENGXIN, Zhou, ROMANOVSKI, Valery. The center problem and the composition condition for a family of quartic differential systems. *Electronic journal of qualitative theory of differential equations*. 2018, vol. 2018, no. 15, str. 1-17. ISSN 1417-3875. DOI: [10.14232/ejqtde.2018.1.15](https://doi.org/10.14232/ejqtde.2018.1.15). [COBISS.SI-ID [21365270](#)], [JCR, SNIP, WoS up to 15. 1. 2021: no. of citations (TC): 6, without self-citations (CI): 6, [Scopus](#) up to 1. 3. 2021: no. of citations (TC): 6, without self-citations (CI): 6]
17. FERNANDES, Wilker, OLIVEIRA, Regilene, ROMANOVSKI, Valery. Isochronicity of a  $[Z]_2$ -equivariant quintic system. *Journal of mathematical analysis and applications*. [Print ed.]. 15 nov. 2018, vol. 467, iss. 2, str. 874-892. ISSN 0022-247X. DOI: [10.1016/j.jmaa.2018.07.053](https://doi.org/10.1016/j.jmaa.2018.07.053). [COBISS.SI-ID [21965846](#)], [JCR, SNIP, WoS up to 16. 2. 2021: no. of citations (TC): 2, without self-citations (CI): 1, [Scopus](#) up to 1. 3. 2021: no. of citations (TC): 2, without self-citations (CI): 1]
18. ROMANOVSKI, Valery, HAN, Maoan, MACÉŠIĆ, Stevan, TANG, Yilei. Dynamics of an autocatalator model. *Mathematical methods in the applied sciences*. First published: 10 May 2018, str. 1-11. ISSN 0170-4214. DOI: [10.1002/mma.4949](https://doi.org/10.1002/mma.4949). [COBISS.SI-ID [21479446](#)], [JCR, SNIP, WoS up to 15. 6. 2020: no. of citations (TC): 1, without self-citations (CI): 0, [Scopus](#) up to 12. 4. 2021: no. of citations (TC): 3, without self-citations (CI): 2]
19. XIONG, Yanqin, HAN, Maoan, ROMANOVSKI, Valery. The maximal number of limit cycles in perturbations of piecewise linear Hamiltonian systems with two saddles. *International journal of bifurcation and chaos in applied sciences and engineering*. 2017, vol. 27, no. 8, str. 1750126-1-1750126-14. ISSN 0218-1274. DOI: [10.1142/S0218127417501267](https://doi.org/10.1142/S0218127417501267). [COBISS.SI-ID [23672072](#)], [JCR, SNIP, WoS up to 25. 12. 2020: no. of citations (TC): 6, without self-citations (CI): 6, [Scopus](#) up to 21. 3. 2021: no. of citations (TC): 6, without self-citations (CI): 6]
20. ROMANOVSKI, Valery, FERNANDES, Wilker, OLIVEIRA, Regilene. Bi-center problem for some classes of  $[Z]_2$ -equivariant systems. *Journal of Computational and Applied Mathematics*. [Print ed.]. 2017, vol. 320, str. 61-75. ISSN 0377-0427. DOI: [10.1016/j.cam.2017.02.003](https://doi.org/10.1016/j.cam.2017.02.003). [COBISS.SI-ID [23085576](#)], [JCR, SNIP, WoS up to 16. 1. 2021: no. of

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- 21.** DUKARIĆ, Maša, OLIVEIRA, Regilene, ROMANOVSKI, Valery. Local integrability and linearizability of a  $(1 : -1 : -1)$  resonant quadratic system. *Journal of dynamics and differential equations*. 2017, vol. 29, iss. 2, str. 597-613. ISSN 1040-7294. DOI: [10.1007/s10884-015-9486-2](#). [COBISS.SI-ID [23661064](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 15. 12. 2019: no. of citations (TC): 2, without self-citations (CI): 2, [Scopus](#) up to 3. 12. 2019: no. of citations (TC): 3, without self-citations (CI): 2]
- 22.** FERNANDES, Wilker, ROMANOVSKI, Valery, SULTANOVA, Marzhan, TANG, Yilei. Isochronicity and linearizability of a planar cubic system. *Journal of mathematical analysis and applications*. [Print ed.]. 2017, vol. 450, iss. 1, str. 795-813. ISSN 0022-247X. DOI: [10.1016/j.jmaa.2017.01.058](#). [COBISS.SI-ID [22987784](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 12. 7. 2020: no. of citations (TC): 4, without self-citations (CI): 1, [Scopus](#) up to 14. 3. 2021: no. of citations (TC): 4, without self-citations (CI): 1]
- 23.** ROMANOVSKI, Valery, FERNANDES, Wilker, TANG, Yilei, TIAN, Yun. Linearizability and critical period bifurcations of a generalized Riccati system. *Nonlinear dynamics*. Oct. 2017, vol. 90, iss. 1, str. 257-269. ISSN 0924-090X. DOI: [10.1007/s11071-017-3659-y](#). [COBISS.SI-ID [20851478](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 12. 7. 2020: no. of citations (TC): 1, without self-citations (CI): 1, [Scopus](#) up to 16. 3. 2021: no. of citations (TC): 1, without self-citations (CI): 1]
- 24.** WEI, Lijun, ROMANOVSKI, Valery, ZHANG, Xiang. Generalized involutive symmetry and its application in integrability of differential systems. *Zeitschrift für angewandte Mathematik und Physik*. 2017, iss. 6, art. 132, str. 1-21. ISSN 0044-2275. DOI: [10.1007/s00033-017-0880-y](#). [COBISS.SI-ID [23672328](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 3. 12. 2019: no. of citations (TC): 3, without self-citations (CI): 2, [Scopus](#) up to 3. 12. 2019: no. of citations (TC): 1, without self-citations (CI): 0]
- 25.** ROMANOVSKI, Valery, SHAFER, Douglas. Complete integrability and time-reversibility of some 3-dim systems. *Applied Mathematics Letters*. [Print ed.]. January 2016, vol. 51, str. 27-33. ISSN 0893-9659. DOI: [10.1016/j.aml.2015.07.006](#). [COBISS.SI-ID [21562120](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 3. 12. 2019: no. of citations (TC): 1, without self-citations (CI): 1, [Scopus](#)]
- 26.** SHENG, Lijuan, HAN, Maoan, ROMANOVSKI, Valery. On the number of limit cycles by perturbing a piecewise smooth Liénard model. *International journal of bifurcation and chaos in applied sciences and engineering*. 2016, vol. 26, no. 10, str. 1650168-1-1650168-16. ISSN 0218-1274. DOI: [10.1142/S0218127416501686](#). [COBISS.SI-ID [23084040](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 9. 8. 2020: no. of citations (TC): 2, without self-citations (CI): 2, [Scopus](#) up to 1. 3. 2021: no. of citations (TC): 4, without self-citations (CI): 4]
- 27.** DU, Zengji, ROMANOVSKI, Valery, ZHANG, Xiang. Varieties and analytic normalizations of partially integrable systems. *Journal of differential equations*. 2016, vol. 260, iss. 9, str. 6855-6871. ISSN 0022-0396. DOI: [10.1016/j.jde.2016.01.009](#). [COBISS.SI-ID [22043144](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 3. 12. 2019: no. of citations (TC): 5, without self-citations (CI): 4, [Scopus](#) up to 3. 12. 2019: no. of citations (TC): 4, without self-citations (CI): 3]
- 28.** FERČEC, Brigita, GINÉ, Jaume, ROMANOVSKI, Valery, EDNERAL, Victor F. Integrability of complex planar systems with homogeneous nonlinearities. *Journal of mathematical analysis and applications*. [Online ed.]. feb. 2016, vol. 434, issue 1, str. 894-914. ISSN 1096-0813. DOI: [10.1016/j.jmaa.2015.09.037](#). [COBISS.SI-ID [84566529](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 13. 10. 2020: no. of citations (TC): 9, without self-citations (CI): 5, [Scopus](#) up to 13. 10. 2020: no. of citations (TC): 8, without self-citations (CI): 4]
- 29.** ANTONOV, Valery, DOLIĆANIN, Diana, ROMANOVSKI, Valery, TÓTH, János. Invariant planes and periodic oscillations in the May-Leonard asymmetric model. *Match : communications in mathematical and in computer chemistry*. 2016, vol. 76, no. 2, str. 455-474. ISSN 0340-6253. [http://match.pmf.kg.ac.rs/electronic\\_versions/Match76/n2/match76n2\\_455-474.pdf](http://match.pmf.kg.ac.rs/electronic_versions/Match76/n2/match76n2_455-474.pdf). [COBISS.SI-ID [23032840](#)], [[JCR](#), [SNIP](#), [Scopus](#) up to 20. 3. 2021: no. of citations (TC): 6, without self-citations (CI): 3]
- 30.** HAN, Maoan, ROMANOVSKI, Valery, ZHANG, Xiang. Equivalence of the Melnikov function method and the averaging method. *Qualitative theory of dynamical systems*. 2016, vol. 15, no. 2, str. 471-479. ISSN 1575-5460. DOI: [10.1007/s12346-015-0179-3](#). [COBISS.SI-ID [22879752](#)], [[JCR](#), [SNIP](#), [WoS](#) up to 21. 4. 2021: no. of citations (TC): 27, without self-citations (CI): 27, [Scopus](#) up to 20. 3. 2021: no. of citations (TC): 31, without self-citations (CI): 31]

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## 1.06 Published scientific conference contribution (invited lecture)

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## 1.08 Published scientific conference contribution

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## MONOGRAPHS AND OTHER COMPLETED WORKS

### 2.01 Scientific monograph

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## PERFORMED WORKS (EVENTS)

### 3.14 Invited lecture at foreign university

**221.** ROMANOVSKI, Valery. *Bifurcation and application of dynamical systems : lecture at the School of mathematical sciences of Shanghai Jiao Tong University, Shanghai, November 13, 2018 (1 hour)*. [COBISS.SI-ID [21979414](#)]

**222.** ROMANOVSKI, Valery. *Bifurcations of critical periods in polynomial systems of ODEs : invited lecture at Faculty of mechanics and mathematics of belarusian State University, Minsk, October 29, 2018 (1 hour)*. [COBISS.SI-ID [21978902](#)]

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**224.** ROMANOVSKI, Valery. *Some algebraic tools for investigation of systems of ODEs : invited lecture at the scientific seminar of the Department of Mathematics and Statistics of the University of North Carolina at Charlotte on Januray 23, 2017*. [COBISS.SI-ID [23660808](#)]

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### 3.15 Unpublished conference contribution

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### 3.16 Unpublished invited conference lecture

**243.** ROMANOVSKI, Valery. *Hopf bifurcations and integrability in some biochemical models : plenary lecture at the 2nd International conference on mathematical modelling in applied sciences, ICMMAS'19, Belgorod-Russia, during August 20-24, 2019.* [COBISS.SI-ID [22571798](#)]

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**283.** MENCINGER, Matej. *Uvod v parcialne diferencialne enačbe*. 1. izd. Maribor: Fakulteta za gradbeništvo, 2011. IX, 203 str., ilustr. ISBN 978-961-248-305-0. [COBISS.SI-ID [67803905](#)]

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