

# Scientific publications of VIRAC, indexed in databases 2013-2021

## 2021

1. Kravchenko, S., Kuleshov, N., Panova, N., Cabulis, U., **Pauliks, R.**, Šestakovs, V., Bratarčuks, S. Problem of Measuring Thermal Conductivity of Polyurethane Thermal Insulation of Liquid Hydrogen Tanks for Launch Vehicle in Operational Environment. No: 20th International Scientific Conference "Engineering for Rural Development": Proceedings, Latvija, Jelgava, 26.-28. maijs, 2021. Jelgava: Latvia University of Life Sciences and Technologies, 2021, 1795.-1803.lpp. ISSN 1691-5976. **Scopus**
2. Yakushin, Vladimir, Cabulis, Ugis, Fridrihsone, Velta, Kravchenko, Sergey and **Pauliks, Romass**. "Properties of polyurethane foam with fourth-generation blowing agent" e-Polymers, vol. 21, no. 1, 2021, pp. 763-769. **Scopus, Web of Science**
3. Yakunin, K., Kalimoldayev, M., Mukhamediev, R.I., Mussabayev, R., Barakhnin, V., Kuchin, Y., Murzakhmetov, S., Buldybayev, T., Ospanova, U., Yelis, M., Zhumabayev, A., **Gopejenko, V.**, Meirambekkyzy, Z., Abdurazakov, A., Kaznewsdataset: Single country overall digital mass media publication corpus. Volume 6, Issue 3, March 2021, Article number 31., DOI: 10.3390/data6030031 **Scopus, Web of Science**
4. Kirill Yakunin, Ravil I. Mukhamediev, Elena Zaitseva, Vitaly Levashenko, Marina Yelis, Adilkhan Symagulov, Yan Kuchin, Elena Muhamedijeva, Margulan Aubakirov, **Viktors Gopejenko**. Mass Media as a Mirror of the COVID-19 Pandemic. **Scopus**
5. **Tikhonov, E., Schneps-Schneppe, D., Sneps-Sneppe, M.**.On joint satellite, terrestrial, and delay tolerant networks for railroad communications. Conference of Open Innovation Association, FRUCT Volume 2021-January, 27 January 2021, Article number 9347626. DOI: 10.23919/FRUCT50888.2021.9347626 **Scopus, Web of Science**
6. Namiot, D., **Sneps-Sneppe, M.**, On one D2D usage model for 5G networks. Conference of Open Innovation Association, FRUCT Volume 2021-January, 27 January 2021, Article number 9347632. DOI: 10.23919/FRUCT50888.2021.9347632 **Scopus, Web of Science**
7. **Kalvans, Juris.**, The Connection between Warm Carbon-chain Chemistry and Interstellar Irradiation of Star-forming Cores., ASTROPHYSICAL JOURNAL Volume: 910 Issue: 1 Article Number: 54., DOI: 10.3847/1538-4357/abe30d **Scopus, Web of Science**
8. Mullikin Ella., Anderson Hannah., O'Hern Natalie., Farrah Megan., Arumainayagam Christopher R., van Dishoeck Ewine F., Gerakines Perry A., **Vasyunin Anton I.**, Majumdar Liton., Caselli Paola., Shingledecker Christopher N., A New Method for Simulating Photoprocesses in Astrochemical Models ASTROPHYSICAL JOURNAL Volume: 910 Issue: 1 Article Number: 72., DOI: 10.3847/1538-4357/abd778 **Scopus, Web of Science**
9. **Lemberski, I., Suponenkovs, A.**, Resubstitution method for big size Boolean logic design targeting look-up-table implementation Volume: 49 Issue: 8 Page: 2411-2424 DOI: 10.1002/cta.3086 **Scopus, Web of Science**
10. **Tikhonov, E., Schneps-Schneppe, D., Namiot, D.**. Delay tolerant network protocols in a railway network DOI: 10.4018/IJERTCS.2021100101 **Scopus, Web of Science**
11. **Upnere, S., Auzins, J.** Damage detection of the rod in the crossflow using surrogate-based modelling (2021) Latvian Journal of Physics and Technical Sciences, 58 (5), pp. 50-62. DOI: 10.2478/lpts-

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12. **Vrublevskis, A.**, Ryabov, B.I., White, S.M. Reduced Microwave Brightness Temperature in a Sunspot Atmosphere Due to Open Magnetic Fields (2021) Solar Physics, 296 (10), art. no. 144, DOI: 10.1007/s11207-021-01891-5 **Scopus**
13. Whitehouse, M., Rahm, H., Wozniak, S., Breunig, S., de Nardi, G., Dionne, F., Fujio, M., Graf, E.-M., Matic, I., McKenna, C.J., Steiner, F., **Sviķe, S.** Developing shared languages. The fundamentals of mutual learning and problem solving in transdisciplinary collaboration DOI: 10.1075/aila.00038.int **Scopus, Web of Science**
14. **Sviķe S.** Mobile apps as language-learning tools. Challenges, problems and solutions of specialised lexicography **Scopus, Web of Science**
15. Patoka, O., Antyufeyev, O., Shmeld, I., Bezrukova, V., Bleiders, M., Orbital, A., Aberfelds, A., Shulga, V. New ex-OH maser detections in the northern celestial hemisphere DOI: 10.1051/0004-6361/202037623 **Scopus, Web of Science**
16. **Stepchenko, A.M.** Land-Use Classification Using Convolutional Neural Networks (2021) Automatic Control and Computer Sciences, 55 (4), pp. 358-367. DOI: 10.3103/S0146411621040088 **Scopus, Web of Science**
17. Goto, M., **Vasyunin, A.I.**, Giuliano, B.M., Jiménez-Serra, I., Caselli, P., Román-Zúñiga, C.G., Alves, J. Water and methanol ice in L 1544 (2021) Astronomy and Astrophysics, 651, art. no. A53, Cited 2 times. DOI: 10.1051/0004-6361/201936385 **Scopus, Web of Science**
18. Namiot, D., **Sneps-Sneppe, M.** On the New Architecture of Location-Based Services (2021) Conference of Open Innovation Association, FRUCT, 2021-May, art. no. 9435603, pp. 254-260. DOI: 10.23919/FRUCT52173.2021.9435603 **Scopus**
19. **Bezrukova, V., Pauliks, R.** The 6th conference "Baltic Applied Astroinformatics and Space Data Processing" (BAASP 2019) dedicated to the 25th anniversary of the VIRAC DOI: 10.17184/EAC.4631 **Scopus**
20. **Polukoshko, S.**, Gonca, V. Durability criteria for rubber parts of machines (2021) Engineering for Rural Development, 20, pp. 1176-1184. DOI: 10.22616/ERDev.2021.20.TF258 **Scopus**
21. Gorbynov, A., **Sukharev, A.**, Ryabov, M., **Bezrukova, V.**, **Orbital, A.** Features of Secular Changes in the Flux Density of the Cas a Supernova Remnant, from Centimeter to Decameter Wavelengths DOI 10.3390/galaxies9020030 **Web of Science**
22. J. Kallunki, M. Tornikoski, **D. Bezrukova** Radio observations of solar active regions at 7.36 and 37 GHz 2021 Vol. 32, Issue 3, pp. 241–248 1055-6796 **Scopus**
23. J. Šteinbergs, **A. Aberfelds, M. Bleiders, I. Shmeld** VIRAC maser data processing suite. Astronomical and Astrophysical Transactions 2021 32(3) 227 – 240 1055-6796 <https://doi.org/10.17184/eac.5643> **Scopus**
24. **A. Aberfelds, J Steinbergs, I. Shmeld**, A. Bartkiewicz A preview look at the maser cloudlet evolution in the HMSFR IRAS 20126+4104 AApTr 2021 32(4) 383 -- 388 1055 -6796 **Scopus**
25. **Sukharev A., Ryabov M., Bezrukova V., Ulyanov O., Udovichenko S.**, Keir L., Dubovsky P., Kudzej I., **Konovalenko A., Zakharenko V., Bakun D., Eglitis I.** Study of the fast variability of the radio galaxy 3C 84 (Perseus A) in optical bands (2021) Astronomical and Astrophysical Transactions, 32 (3), pp. 211 - 226 DOI: 10.17184/eac.5642 **Scopus**

## 2020

1. Timofejevs, A., **Avotins, V.** Institutional co-operation models for enhanced utilization of research infrastructure in the BSR: Case of Latvia. 2020 Engineering for Rural Development 19, pp. 1547-1553 DOI: 10.22616/ERDev.2020.19.TF383 **Scopus**
2. **Bezrukovs, De., Bezrukovs, Vi., Bezrukovs, Va., Konuhova, M.,** Aniskevich, S. The Comparison of the Efficiency of Small Wind Turbine Generators with Horizontal and Vertical Axis under Low Wind Conditions. Latvian Journal of Physics and Technical Sciences 57(5), pp. 61-72 , 2020, <https://content.sciendo.com/view/journals/lpts/57/5/article-p61.xml>, DOI: <https://doi.org/10.2478/lpts-2020-0028>, **Scopus**
3. **Bleiders M.** Study of Feed Horn Solutions for Irbene RT-32 Radio Telescope. Latvian Journal of Physics and Technical Sciences 57(1-2), pp. 28-33 , DOI: 10.2478/lpts-2020-0004. 28.-33. **Scopus**
4. **Bleiders, M.; Antyufeyev, O.; Patoka, O.; Orbidanis, A., Aberfelds, A., Steinbergs, J., Bezrukovs, V., Shmeli, I.** Spectral Line Registration Backend Based on USRP X300 Software Defined Radio. JOURNAL OF ASTRONOMICAL INSTRUMENTATION Volume: 9 Issue: 2020 , https://www.worldscientific.com/doi/abs/10.1142/S2251171720500099 **Scopus**
5. Mukhamediev, R.I., Mustakayev, R., Yakunin, K.O., Kuchin, Y.I., Kiseleva, S.V., **Gopejenko, V.I.** Decision support system for optimization of res generators placement based on geospatial data. 2020, News of the National Academy of Sciences of the Republic of Kazakhstan, Series of Geology and Technical Sciences, Volume 1, Issue 439, 2020, Pages 81-89, DOI: 10.32014/2020.2518-170X.10, **Scopus, Web of Science**
6. **Kalvāns, Juris; Kalnin, Juris Roberts.** Evaporative cooling of icy interstellar grains I. Basic characterization. ASTRONOMY & ASTROPHYSICS, 2020, Volume: 633, Article Number A97 **Web of Science**
7. **Kalvāns, J., Kalnin, J.R.** Evaporative cooling of icy interstellar grains: II. Key parameters. Astronomy and Astrophysics 641,A49, 2020, DOI: 10.1051/0004-6361/202037906 **Scopus**
8. **Kenins R.** Land Cover Classification using Very High Spatial Resolution Remote Sensing Data and Deep Learning, Latvian Journal of Physics and Technical Sciences Volume 57, Issue 1-2, 1 April 2020, Pages 71-77, **Scopus, Web of Science**
9. **A.Nikolajevs, K. Prūsis.** The LOFAR Long-Baseline Calibrator Survey Classification. Latvian Journal of Physics and Technical Sciences, 2020, 57(1-2), pp. 34-40 , N 1-2, DOI: 10.2478/lpts-2020-0005, 34.-40.lpp. **Scopus, Web of Science**
10. Banys, D., McCulloch, M.A., Azzoni, S., (...), **Piccirillo, L.**, Wenninger, J. Parametric Amplification at Ka Band via Nonlinear Dynamics in Superconducting 3D Cavities. (2020) Journal of Low Temperature Physics 200(5-6), pp. 295-304, DOI: 10.1007/s10909-020-02439-w, **Scopus, Web of Science**

11. Azzoni, S., May, A.J., Chase, S.T., Coppi, G.f, Kenny, L.C., Melhuish, S.J., **Piccirillo, L.**, Suzuki, A., Wenninger, J. A Closed-Cycle Miniature Dilution Refrigerator for a Fast-Coldown 100 mK Detector Wafer Test Cryostat, Journal of Low Temperature PhysicsVolume 199, Issue 3-4, 1 May 2020, Pages 771-779, DOI: 10.1007/s10909-020-02374-w **Scopus, Web of Science**
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13. **Polukoshko, S.**, Martinovs, A., Gonca, V. Estimation of stress and displacement increase caused by heat generation in rubber vibration absorber, 2020 Engineering for Rural Development 19, pp. 1959-1966 , DOI: 10.22616/ERDev.2020.19.TF558 **Scopus**
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15. **K. Prūsis, A. Nikolajevs.** Data Reduction and Imaging of Gravitational Lens System Class B0631+519. Latvian Journal of Physics and Technical Sciences, Volume 57, Issue 1-2, 1 April 2020, Pages 41-51, DOI: 10.2478/lpts-2020-0006, 41.-51 **Scopus, Web of Science**
16. **B.I. Ryabov, A. Vrublevski** Open-field coronal structures neighboring the sunspot of the AR 8535. Solar Physics, 2020, v.295, N1, 4. doi: 10.1007/s11207-019-1572-x **Scopus**
17. **Sate J.**, Selavo L., Performance and Implementation Modeling of Gated Linear Networks on FPGA for Lossless Image Compression. 2020 9th Mediterranean Conference on Embedded Computing, MECO 2020June 2020, Article number 9134252, DOI: 10.1109/MECO49872.2020.9134252 **Scopus**
18. **Skirmante, K., Jekabsons, N., Salmins, K., Bezrukova, VI., Nechaeva, M.** The Joint SLR (Optical Range) and Radar-VLBI Satellite Observations using VIRAC Radio Telescope RT32, RT16 and SLR Station Riga, 2020, Latvian Journal of Physics and Technical Sciences 57(1-2), pp. 62-70 **Scopus, Web of Science**
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20. **Sukharev, A., Ryabov, M., Bezrukova, V., Orbitalans, A., Bleiders, M., Udovichenko, S., Keir, L., Eglitis, I., Kudsey, I., Dubovsky, P.** Program and results of investigations rapid variability of the BL Lac Object 3C 371 in radio and optical ranges. Galaxies, Volume 8, Issue 3, September 2020, Article number 69, Open Access, DOI: 10.3390/GALAXIES8030069, <https://www.mdpi.com/2075-4434/8/3/69> **Scopus**
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23. **M. Šneps-Šneppe.** Digital Railway and How to Move from GSM-R to LTE-R and 5G. (2020) International Conference on Convergent Cognitive Information Technologies Convergent 2018: Convergent Cognitive Information Technologies pp 392-402 **Scopus**
24. **M. Šneps-Šneppe.** On a New Approach to Neighbor Discovery as Data Sharing Tool. (2020) International Conference on Convergent Cognitive Information Technologies Convergent 2018: Convergent Cognitive Information Technologies pp 313-325 **Scopus**
25. **M. Šneps-Šneppe.** About the Digital Economy Software. (2020) International Conference on Convergent Cognitive Information Technologies Convergent 2018: Convergent Cognitive Information Technologies pp 351-364 **Scopus**
26. **Upnere, Sabine, Jekabsons, Normunds,** Dementjevs, Sergejs, Wohlmuther, Michael. Effects of variable parameters on the behaviour of the single flexibly-mounted rod in a closely-packed array. JOURNAL OF VIBROENGINEERING, Volume: 22, Issue: 3, Pages: 685-704, DOI: 10.21595/jve.2019.20596, Published: MAY 2020 **Web of Science**
27. **Upnere, S., Bezrukovs, Va., Bezrukovs, Vi., Jekabsons, N., Gulbe, L.** Computational Fluid Dynamics Methods for Wind Resources Assessment, 2020 Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) 11974 LNCS, pp. 495-502 **Scopus**
28. Murga, M. S.; Wiebe, D. S.; **Vasyunin, A. I.**; Varakin, V. N.; Stolyarov, A. V. Experimental and theoretical studies of photoinduced reactions in the solid phase of the interstellar medium. Russian Chemical Reviews. 4/30/2020, Vol. 89 Issue 4, p1-1. 1p. DOI: 10.1070/RCR4912. , Database: Academic Search Complete, **Scopus, Web of Science**
29. Rivilla, V.M., Drozdovskaya, M.N., Altweig, K., Caselli, P., Beltrán, M.T., Fontani, F., Van Der Tak, F.F.S., Cesaroni, R., **Vasyunin, A.**, Rubin, M., Lique, F., Marinakis, S., Testi, L., Balsiger, H., Berthelier, J., De Keyser, J., Fiethe, B., Fuselier, S.A., Gasc, S., Gombosi, T., Sémond, T., Tzou, C.-Y. ALMA and ROSINA detections of phosphorus-bearing molecules: The interstellar thread between star-forming regions and comets. Monthly Notices of the Royal Astronomical SocietyVolume 492, Issue 1, 1 February 2020, Pages 1180-1198 **Scopus, Web of Science, EBSCO**
30. A.Ostrovskii, S. Yu.Parfenov, **A.Vasyunin, A.V.Ivlev, V.Sokolova.** Optical properties and dust temperatures in clumpy diffuse medium. MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, Volume: 495 Issue: 4 Pages: 4314-4325 **Web of Science**
31. Chantzios, J.; Rivilla, V. M.; **Vasyunin, A.**; et al. The first steps of interstellar phosphorus chemistry. ASTRONOMY & ASTROPHYSICS Volume: 633 Published: JAN 10 2020 **Web of Science**

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## 2019

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3. **Bleiders, M., Berzins, A., Jekabsons, N., Skirmane, K., Bezrukovs, Vl.** Low-cost L-band receiving system front-end for irbene RT-32 cassegrain radio telescope | [L diapazona uztverošās sistēmas ieejas trakts irbenes RT-32 radioteleskopam]. Latvian Journal of Physics and Technical Sciences 56(3), pp. 50-61 **Scopus, Web of Science**
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8. **Kalnin, Juris R.;** Berezhkovskii, Alexander M. Coarse-graining of asymmetric discrete-time random walk on a one-dimensional lattice. Journal of Chemical Physics. 12/14/2019, Vol. 151 Issue 22, p1-4. 4p. DOI: 10.1063/1.5129637 **Scopus, Web of Science, EBSCO**
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