СПИСЪК НА ЦИТИРАНИЯТА

на гл. ас. д-р Румяна Цветанова Божилова

за участие в конкурса за заемане на академична длъжност „доцент“ по професионално направление 4.4. Науки за Земята, научна специалност „Физика на океана, атмосферата и околоземното пространство“ – секция „Физика на атмосферата“, обявен в Държавен вестник, бр. 54 от дата 4.07.2025г.

Д 11. Цитирания или рецензии в научни издания, реферирани и индексирани в световноизвестни бази данни с научна информация или в монографии и колективни томове

1. **Bojilova R. and Mukhtarov P., 2019. Response of the electron density profiles to geomagnetic disturbances in January 2005. Studia Geophysica et Geodaetica, 63(3), 436-454,** https://doi.org/10.1007/s11200-019-0510-6, цитира се в:

Д11-1-1. Gadzhev, G. 2021. The Seasonal Recurrence of Air Quality Index for the Period 2008–2019 Over the Territory of Sofia City. Environmental Protection and Disaster Risks. EnviroRISK 2020. Studies in Systems, Decision and Control, *361*, 161-170, Springer, Cham, https://doi.org/10.1007/978-3-030-70190-1_11.

Д11-1-2. Velinov, P. I.Y., Mishev, A. 2021. Influence of Forbush effect on atmospheric ionization due to solar energtic particles. Comptes Rendus de L'Academie Bulgare des Sciences, *74*(6), 868-878, DOI:10.7546/CRABS.2021.06.09.

Д11-1-3. Berényi, K. A., Opitz, A., Dálya, Z., Kis, Á., Barta, V., 2023. Impact of ICME-and SIR/CIR-Driven Geomagnetic Storms on the Ionosphere over Hungary. Atmosphere, *14*(9), 1377, https://doi.org/10.3390/atmos14091377.

Д11-1-4. Zhai, C., Tang, S., Peng, W., Cheng, X., Zheng, D., 2022. Driver of the positive ionospheric storm over the South American sector during 4 November 2021 geomagnetic storm. Remote Sensing, *15*(1), 111, https://doi.org/10.3390/rs15010111.

Д11-1-5. Berényi, K. A., Perrone, L., Sabbagh, D., Scotto, C., Ippolito, A., Kis, Á., Barta, V., 2024. Ionosonde Measurement Comparison during an Interplanetary Coronal Mass Ejection (ICME)-and a Corotating Interaction Region (CIR)-Driven Geomagnetic Storm over Europe. Universe, *10*(9),344, https://doi.org/10.3390/universe10090344.

Д11-1-6. Velinov, P., Asenovski, S., Mateev, L., 2024. Validation of Ionization Model CORSIMA Applied for Multiply Charged Anomalous Cosmic Rays. Comptes Rendus de L'Academie Bulgare des Sciences, *77*(6), 858-870, DOI: https://doi.org/10.7546/CRABS.2024.06.09.

2. ***Bojilova R.*, Mukhtarov P, 2023.** Comparative analysis of global and regional ionospheric response during two geomagnetic storms on 3 and 4 February 2022. *Remote Sensing*, *15*(7), 1739**,** https://doi.org/10.3390/rs15071739, цитира се в:

Д11-2-1. Danilov, A.D., Konstantinova, A.V., 2023. F-Region Variations Prior to Magnetic Storms (a Review). Geomagn. Aeron., *63*, 671–685, https://doi.org/10.1134/S0016793223600649.

Д11-2-2. Wang, F., Zhang, X., Dong, L., Liu, J., Mao, Z., Lin, K., Chen, C.-H., 2023. Monitoring Seismo-TEC Perturbations Utilizing the Beidou Geostationary Satellites. Remote Sens., *15*, 2608, https://doi.org/10.3390/rs15102608.

Д11-2-3. Atanasova-Zlatareva, M., Nikolov H., 2024. Complex analysis of co-seismic deformations using SAR satellite data: application for the Balkan Peninsula. Proceeding SPIE 13195, Microwave Remote Sensing: Data Processing and Applications III, 131950N (18 November 2024), https://doi.org/10.1117/12.3031731.

Д11-2-4. Danilov, A. D., Konstantinova, A. V., 2023. F-region variations prior to magnetic storms (a review). Advances in Space Research, *73*(5), 2323-2337, https://doi.org/10.1016/j.asr.2023.11.049.

Д11-2-5. Ma, J., Ma, Z., Bao, J., Luo, J., Yang, J., Liu, D., 2024. Study of the Tidal Variations in the Ionosphere and the MLT Region over Mohe and Beijing During Six Intense Geomagnetic Storms from 2016 to 2021. Remote Sensing, *16*(21), 3947, https://doi.org/10.3390/rs16213947.

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Д11-2-7. Ahmad, N., Kilowasid, L.O.M.M., Fakhrurroja, H., Neflia, Rachman, A., Husin, A. and Fathoni, H., 2025. How geomagnetic storms affect the loss of Starlink satellites in February 2022?. Earth Planets Space, *77*(2), 2, https://doi.org/10.1186/s40623-024-02124-2.

Д11-2-8. Ashar, N.D.K., Mashohor, S., Sali, A., Jusoh, M.H., Yoshikawa, A., Latiff, Z.I.A. and Hairuddin, M.A., 2025. INTERPRETABLE N-BEATS DEEP NETWORKS OF MULTISTEP FORECASTING FOR THE GROUND-BASED GEOMAGNETIC DST INDEX. ICIC Express Letters, *19*(5), 485-496, DOI: 10.24507/icicel.19.05.485.

Д11-2-9. Wang, J., Tang, J., Xu, C., Zhang, L. and Wang, Y., 2025. Ionospheric disturbances detection based on BDS-GEO observations with Prophet model over China: A case study of May 2017 geomagnetic storm. Journal of Geophysical Research: Space Physics, *130*(3), p.e2024JA033472, https://doi.org/10.1029/2024JA033472.

3. **Mošna Z., Barta V., Berényi K.A., Mielich J., Verhulst T., Kouba D., Urbář J., Chum J. ,Knížová P.K., Marew H., Podolská K. and Bojilova R., 2024. March and April 2023 ionospheric storms in the period of the Solar Cycle 25. Frontiers in Astronomy and Space Sciences, 11, 1462160,** https://doi.org/10.3389/fspas.2024.1462160 , цитира се в:

Д11-3-1. Hu, P., Chen, G., Zhang, S., Gong, W. and Zhang, M., 2025. Low-latitude ionospheric responses to the severe geomagnetic storm during 23–25 april 2023 over the American sector. Journal of Geophysical Research: Space Physics, 130(3), p.e2024JA033692, https://doi.org/10.1029/2024JA033692.

Д11-3-2. Mane, A.P., Ghodpage, R.N., Gurav, O.B., Sripathi, S., Taori, A., Patil, M.K., Mahajan, S.S., Vhatkar, R.S. and Dimri, A.P., 2025. Ionospheric Response to the Intense Geomagnetic Storm of 23–24 April 2023: Insights from Ground-Based Airglow and GPS Observations over Low-Latitude Indian Regions. Advances in Space Research, https://doi.org/10.1016/j.asr.2025.03.021.

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Д11-3-4. Pierrard, V., et al., 2025. Effects of the Geomagnetic Superstorms of 10–11 May 2024 and 7–11 October 2024 on the Ionosphere and Plasmasphere. Atmosphere 16(3), 299, https://doi.org/10.3390/atmos16030299.

Д11-3-5. Danilchuk, E., Yasyukevich, Y., Vesnin, A., Klyusilov, A., Zhang, B., 2025. Impact of the May 2024 Extreme Geomagnetic Storm on the Ionosphere and GNSS Positioning. Remote Sensing, 17(9), 1492, https://doi.org/10.3390/rs17091492.

Д11-3-6. Cheng, P.H. and Morton, Y.J., 2025. Observation of large-scale traveling ionospheric disturbances in the topside ionosphere using POD TEC from multiple LEO satellites constellations. Journal of Geophysical Research: Space Physics, *130*(4), p.e2024JA033293, https://doi.org/10.1029/2024JA033293.

4. **Bojilova R. and Atanasova M., 2024. Post-seismic Ionosphere Effects after Croatian MW 6.4 Earthquake on December 29, 2020. Comptes rendus de l'Acade'mie bulgare des Sciences, 77(5), 707-714,** https://doi.org/10.7546/CRABS.2024.05.08, цитира се в:

Д11-4-1. Velinov, P., Asenovski, S., 2025. CORIMIA IONIZATION MODEL – A TWO-INTERVAL APPROXIMATION OF IONIZATION LOSS FUNCTION. Aerospace Research in Bulgaria, 37, 7-15.

5. **Bojilova R. and Mukhtarov P., 2023. Investigation of Dst Variations in X Component at Midlatitudes during Geomagnetic Storm on February 3, 2022. Comptes rendus de l'Acade'mie bulgare des Sciences, 76(2), 264-272,** DOI:10.7546/CRABS.2023.02.11, цитира се в:

Д11-5-1. Velinov, P., Asenovski, S., 2025. CORIMIA IONIZATION MODEL – A TWO-INTERVAL APPROXIMATION OF IONIZATION LOSS FUNCTION. Aerospace Research in Bulgaria, 37, 7-15.

Д 13. Цитирания или рецензии в нереферирани списания с научно рецензиране

1. **Bojilova R. and Mukhtarov P., 2019. Response of the electron density profiles to geomagnetic disturbances in January 2005. Studia Geophysica et Geodaetica, 63(3), 436-454,** https://doi.org/10.1007/s11200-019-0510-6, цитира се в:

13-1-1. Gadzhev G., 2020. PRELIMINARY RESULTS FOR THE RECURRENCE OF AIR QUALITY INDEX FOR THE CITY OF SOFIA FROM 2008 TO 2019. Proceeding of 1st International Conference on Environmental Protection and disaster RISKs – Part One, 53-64, https://doi.org/10.48365/ENVR-2020.1.5.

13-1-2. Атанасова, М., Николов, Х. 2022. Изследване на ко-сеизмични премествания на Балканите от сателитни данни. Proceeding XXXII INTERNATIONAL SYMPOSIUM ON "MODERN TECHNOLOGIES, EDUCATION AND PROFESSIONAL PRACTICE IN GEODESY AND RELATED FIELDS" 02-04 November 2022, Sofia, Bulgaia, CD, СГЗБ при ФНТС, 1-5, ISSN: 2367-6051.

13-1-3. Атанасова, М., Николов, Х., 2023. РЕГИСТРИРАНЕ НА КОСЕИЗМИЧНИ ПРЕМЕСТВАНИЯ НА БАЛКАНИТЕ ОТ СПЪТНИКОВИ ДАННИ. ГЕОДЕЗИЯ, КАРТОГРАФИЯ, ЗЕМЕУСТРОЙСТВО, 3-4, год. LXII, 16-22.

2. ***Bojilova R.*, Mukhtarov P, 2023. Comparative analysis of global and regional ionospheric response during two geomagnetic storms on 3 and 4 February 2022. *Remote Sensing*, 15(7), 1739,** https://doi.org/10.3390/rs15071739, цитира се в:

13-2-1. Kenpankho, P., Chollada P., 2023. Ionospheric Disturbances at Low-latitude during Severe Geomagnetic Storm Events. *Research Square*, https://doi.org/10.21203/rs.3.rs-3299675/v1.

13-2-2. Sittichai, W., Koednawee, S., Pansong, C., 2023. COMPARISON OF SEVERE GEOMAGNETIC STORM EVENT AND LOW-LATITUDE TOTAL ELECTRON CONTENT ANOMALIES. *International Journal of Industrial Education and Technology*, 5(1), C1-C9.

13-2-3. Ugwu, E. B. I., Ndubuisi, M. C., Ugonabo, O. J., 2023. Effects of F2 Layer Ionospheric Variations On Radio Waves in Nigeria Using Ionospheric Parameters. *International Journal of Physical Sciences Research*, 7(1), 58-65, https://doi.org/10.37745/10.37745/ijpsr.17/vol7n15865.

13-2-4. Mostofa, S., Ahmmed, M. B., Hasan, M. M., Some, J., Sharif, M., 2025. Impact of space weather on ionospheric dynamics in Bangladesh: Insights from 2022–2023 TEC analysis. *Journal of Bangladesh Academy of Sciences*, 49(1), 103–111, https://doi.org/10.3329/jbas.v49i1.80229.

13-2-5. Ryabova, S. A., 2025. Response of the Ionospheric F 2 Layer to the Geomagnetic Storm of February 26–28, 2023. *Geomagnetizm i aèronomiâ*, *65*(3), 358-369, https://doi.org/10.31857/S0016794025030076

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