СПИСЪК НА ПУБЛИКАЦИИТЕ И ДОКЛАДИТЕ НА
ДОЦ. Д-Р Боян Б. Киров
Представени за рецензиране за участие в конкурса за професор

1. Публикации в списания в чужбина с импакт фактор – 10 бр.

I1. K. Georgieva, B. Kirov, Yu. A. Nagovitsyn, Long-term variations of solar magnetic fields derived from geomagnetic data, Geomagnetism and Aeronomy 53 (7), 852-856**,** 2013 **IF 0.51**

I2 B. Kirov, V. N. Obridko, K. Georgieva, E. V. Nepomnyashtaya, B. D. Shelting Long-term variations of geomagnetic activity and their solar sources, Geomagnetism and Aeronomy 53 (7), 813-817, 2013 **IF 0.51**

I3. K. Georgieva, B.Kirov, P.Koucká-Knížová, Z.Mošna, D.Kouba, Y.Asenovska, , Solar influences on atmospheric circulation, Journal of Atmospheric and Solar-Terrestrial Physics 90, 15-25, 2012 http://dx.doi.org/10.1016/j.jastp.2012.05.010 **IF 1.610**

I4. V. Guineva , G. Witt, J. Gumbel, M. Khaplanov, R. Werner, J. Hedin, S. Neichev, B. Kirov, L. Bankov, P. Gramatikov, V. Tashev, M. Popov, K. Hauglund, G. Hansen, J. Ilstad and H. Wold**,** O_2 density and temperature profiles retrieving from direct solar Lyman-alpha radiation measurements, Geomagnetism and Aeronomy 49 (8) , 1292-1295, ISSN 0016-7932 (Print) 1555-645X (Online) DOI 10.1134/S0016793209080532 **IF 0.947**

I5. M.Gousheva, R.Glavcheva, D.Danov, P.Hristov, B. Kirov, K.Georgieva, Electric field and ion density anomalies in the mid latitude ionosphere: Possible connection with earthquakes?, Advances in Space Research, 42(1), 206–212, 2008, **ISSN:** 0273-1177 **IF 1.076**

I6. S.Odintsov, K.Boyarchuk, K.Georgieva, B.Kirov, D.Atanasov, Long-period trends in global seismic and geomagnetic activity and their relation to solar activity, Physics and Chemistry of the Earth, 31 (1-3), 88-93, 2006. **IF 0,917**

I7. M.Gousheva, R.Glavcheva, D.Danov, P.Angelov, P.Hristov, B.Kirov, K.Georgieva, Satellite monitoring of anomalous effects in the ionosphere probably related to strong earthquakes, Advances in Space Research, 37 (4), 660-665, 2006. **IF 1.076**

I8. K.Georgieva, B.Kirov, Helicity of magnetic clouds and solar cycle variations of their geoeffectiveness, Proceedings IAU Symposium 226 Coronal and Stellar Mass Ejections, Oxford University Press, pp.470-472, 2005. ISSN 1743-9213 ISBN 0-521-85197-1 **IF 0.525**

I9. K.Georgieva, B.Kirov, J.Javaraiah, R. Krasteva, Solar rotation and solar wind magnetosphere coupling, Planetary and Space Science, 53, (1-3), 197-207, 2005. **IF 2.313**

I10. L.Bankov, K.Kanev, B.Kirov, Longitudinal and temporal variations of ion density irregularities in the equatorial region measured by the OGO-6 retarding potential analyzer, Advances in Space Research 1 (1), 259-263, 1981. **IF 1.076**

Сумарен IF 10.538

2. Публикации в чужбина в списания без импакт фактор, сборници и поредици – 19 бр.

P1. Georgieva K., Nagovitsyn Yu., Kirov B., Solar magnetic fields and terrestrial climate, Всероссийская ежегодная конференция с международным участием Солнечная и Солнечно-Земная Физика – 2014 Труды, Санкт-Петербург, pp 99-104, ISSN 0552-5829, 2014

P2. Kirov B., Asenovski S., Georgieva K., Obridko V.N. What causes geomagnetic activity during sunspot minimum?, Всероссийская ежегодная конференция с международным участием Солнечная и Солнечно-Земная Физика – 2014 Труды, Санкт-Петербург pp 219-222, ISSN 0552-5829, 2014,

P3. Georgieva K., B. Kirov, Yu.A. Nagovitsyn, Long-term variations of solar magnetic fields from geomagnetic data, Всероссийская ежегодная конференция с международным участием Солнечная и Солнечно-Земная Физика – 2012 Труды, Санкт-Петербург, стр. 431-436, 2012, ISSN 0552-5829, 2012

P4. Киров Б., В.Н. Обридко, К. Георгиева, Е.В. Непомнящая, Б.Д. Шельтинг, Вековые вариации магнитного поля Солнца и геомагнитной активности, Всероссийская ежегодная конференция с международным участием Солнечная и Солнечно-Земная Физика – 2012 Труды, Санкт-Петербург, стр. 447-452, 2012, ISSN 0552-5829, 2012

P5. Mosna Z., Koucka Knizova P., Kouba D., Georgieva K., Kirov B., The effects of different solar drivers on the ionosphere, Всероссийская ежегодная конференция с международным участием Солнечная и Солнечно-Земная Физика – 2010 Труды, Санкт-Петербург, стр. 265-268, ISSN 0552-5829, 2010.

P6. Georgieva K., Kirov B., Gnevyshev gap and Spörer's law, Всероссийская ежегодная конференция с международным участием Солнечная и Солнечно-Земная Физика – 2012 Труды, Санкт-Петербург, стр. 105-106, ISSN 0552-5829, 2012.

P7. Guineva, V., G. Witt, J. Gumbel, M. Khaplanov, R. Werner, J. Hedin, S. Neichev, B. Kirov, L. Bankov, P. Gramtikov, V. Tashev, M.Popov, K. Hauglund, G. Hansen, J. Ilstad, H. Wold.S.O2 density and temperature profiles retrieving from direct solar Lyman-alpha radiation measurements Солнечно-земная физика, **,** вып12. Т.2 pp 315-318, 2008.

P8. Obridko V.N., Chertok I.M., Shelting B.D., Georgieva K., Kirov B., The geoeffectivity of some solar events, Proceedings of the International conference "Fundamental Space Research", Sunny Beach, Bulgaria, September 21-28, p. 218-221 ISBN, 978-954-322-316-9, 2008.

P9. Georgieva K., Kirov B., Obridko V., Shelting B., Atanasov D., Tonev P., Guineva V., Data base of geoeffective solar wind structures, geomagnetic indices, and atmospheric dynamics parameters, Proceedings of the International conference "Fundamental Space Research", Sunny Beach, Bulgaria, September 21-28, p. 175-178, ISBN 978-954-322-316-9, 2008.

P10 Gousheva, M.,Glavcheva R., Danov, D., Hristov P., Kirov B.,Georgieva K., Possible pre- and post- earthquake effects in the ionosphere, *I*EEE Proceedings of 3rd International Conference on Recent Advances in Space Technologies, June 14-16, Istanbul, Turkey, Edited By S.Kurnaz, F. Ince, S. Onbasiogly, S. Basturg pp. 754-759, 2007.

P12. Gavryuseva, E., Georgieva, K., Godoli, G., Kirov, B., Solar source of variations of solar wind parameters and geomagnetic activity, Solar-Terrestrial Influences, Proceedings of the Eleventh

International Scientific Conference (ed. By S.Panchev), Sofia, Bulgaria, 23-25 November 2005, 242-245, 2005.

P13. Georgieva, K., Godoli, G., Gavryuseva, E., Kirov, B., Photospheric magnetic field and Earth's rotation, Solar-Terrestrial Influences, Proceedings of the Eleventh International Scientific Conference (ed. By S.Panchev), Sofia, Bulgaria, 23-25 November 2005, 250-253, 2005.

P14. Legen'ka, A.D., Hegai, V.V., Kim, V.P., Georgieva, K., Kirov, B., Possible ionospheric precursors of the April 04, 1998 earthquake in Italy from ground-based vertical ionospheric sounding, Solar-Terrestrial Influences, Proceedings of the Eleventh International Scientific Conference (ed. By S.Panchev), Sofia, Bulgaria, 23-25 November 2005, 254-255, 2005.

P15. Gousheva, M., Georgieva, K., Kirov, B., Atanasov, D., On the relation between solar activity and seismicity, Proceedings of the International Conference on Recent Advances in Space Technologies RAST 2003, Istanbul, November 20-22, pp.228-232, 2003.

P16. Klimov, S.I., V.E.Korepanov, Yu.V.Lissakov, A.S.Belousov, O.V.Lapshinova, I.V.Sorokin, Yu.V.Afanasyev, S.Belyaev, G.A.Stanev, K.Georgieva, B.Kirov, M.P.Gough, H.S.C.K.Alleyne, M.Balikhin, J.Lichtenberger, Cs.Ferencz, L.Bodnar, K.Szego, S.Szalai, J.Juchniewicz, K. Stasiewicz. "OBSTANOVKA" experiment for space weather research on board the Russian segment of the ISS. 54th International Astronautical Congress, 29.09.-03.10.2003, Bremen, Germany, IAC-03-T. 4. 09 (on CD of 54 IAC), 2003.

P17. K.Georgieva, B.Kirov, Different periodicities in the rotation of the Northern and Southern solar hemispheres, Proceedings of SOHO 12/GONG+2002, Big Bear Lake, California, USA, 27 October – 1 November 2002, ESA SP-517: Local and Global Helioseismolohy: the Present and Future, pp.275-278, 2003.

P18. K.Georgieva, J.Javaraiah, B.Kirov, 22-year cycle in solar rotation, solar wind, Earth rotation and geomagnetic activity, Proceedings of the III Balkan Geophysical Congress, Sofia, 24-28 June 2002, pp. 225-226, 2002.

P19. K.Georgieva, B.Kirov, D.Atanasov, On the relation between solar activity and seismicity on different time-scales, Journal of Atmospheric Electricity, 22 (3), 291-300, 2002.

3. Публикации в чужбина в пълен текст в Интернет – 1 бр.

C1. Georgieva K., Kirov B., Does human activity widen the tropics?, arXiv:0803.1959v1 [physics.space-ph], 2008.

4. Публикации в списания, сборници и поредици у нас – 12 бр.

B1. Bachvarov D., Boneva A., Kirov B., Boneva Y., Stanev G., Baruh N., Primary Information

Preprocessing System for LP, DP devices-project “Obstanivka”, Сборник доклади International Conference on Big Data, Knowledge and Control Systems Engineering, 5 November 2014, Sofia Bulgaria стр 65-72, 2014.

B2. Бъчваров Д., А. Бонева, Б. Киров, Йо. Бонева, Г. Станев, Н. Барух, Система за обработка на първичната информация от прибори LP и DP - проект “Обстановка”, Сборник от доклади от медународна конференция „ R AM 2013”, стр.83-89, 17.10.2013, гр. София, ISSN 1314 – 4634, 2013.

B3. Климов С.И., В.А. Грушин, Л.Д. Белякова, Д.И. Новиков, В.Г. Родин, В.Н. Ангаров, Б.Б. Киров, Р. Недков, Г.А. Станев, Методика пространственно-временных измерений плазменно-волновых процессов в ионосфере с использованием инфраструктуры Российского сегмента Международной Космической Станции , Доклади на Юбилеен международен конгрес „40 години България – космическа държава”, 2012, ISBN 978-954-577-636-6, 2012.

B4.Ташев В., Гинева В., Манев А., Уит Г., Гумбел Й., Капланов М., Киров Б., Банков Л., Спасов Ст., Захранващо устройство на датчик за измерване на слънчевата Лайман-алфа (Lα) радиация, Международна научна конференция „Развитие на икономиката и обществото на базата на познанието”, 4-5 юни 2009, Стара Загора, Изд. „Съюз на учените – Стара Загора”, Том IV „Естествени&Математически науки”, стр.34-43, 2009, http://www.sustz.com/Proceeding09/Papers/Natural%20&%20Mathematical%20science/V_TASHEV.pdf, 2009.

B5.Tashev V., Guineva V., Manev A., Witt G., Gumbel J., Khaplanov M., Kirov B., Bankov L., Spasov St., Petkov P., Electron Photomultiplier for Measuring the Direct Solar Lyman-alpha (Lα) Radiation Penetrating in the Atmosphere, International scientific conference, June 5-6, 2008, ed. “Union of Scientists – Stara Zagora”, ISBN 978-954-9329-44-5, Natural&Mathematical Science, http://www.sustz.com/Proceeding08/Papers/NATURAL%20AND%20MATHEMATICAL%20SCIENCE/Tashev_Veselin.pdf, 2008.

B6. V. Guineva, G. Witt, J. Gumbel, M. Khaplanov, R. Werner,J. Hedin, S. Neichev, B.Kirov, L. Bankov, P. Gramatikov,V. Tashev, M. Popov, K. Hauglund, G. Hansen, J. Ilstad, H. Wold, Lyman-alpha Detector Designed for Rocket Measurements of the Direct Solar Radiation at 121.5 nm, Bulg. J. Phys. 34,116–127, 2007.

B7. Guineva V., G. Witt, J. Gumbel, M. Khaplanov, R. Werner, J. Hedin, S. Neichev, B. Kirov, L. Bankov, P. Gramatikov, V. Tashev, M. Popov, K. Hauglund, G. Hansen, J. Ilstad, H. Wold, Detector for Rocket Measurements of the Direct Solar Lyman-Alpha Radiation, Proceedings of the Third Scientific Conference with International Participation Space**,** Ecology, Nanotechnology, Safety (SENS 2007), 27-29 June, 2007, Varna, Bulgaria, pp.114-119, 2008.

B8. Gousheva, M., Angelov, P., Hristov, P., Kirov, B., Georgieva, K., The ionosphere plasma structural parameters investigation by a Langmuir cylindrical probe eliminating the spacecraft floating potential influence, Aerospace Research in Bulgaria, 18, 65 – 69, 2004.

B9. Гушева М., Ангелов П., Христов П., Киров Б., Георгиева К., Проблеми при системи използващи цилиндрична електростатична сонда за изследване на електронна концентрация и температура на борда на космическия апарат. Proceedings of the eleventh international scientific and applied science conference “ELECTRONICS ET’2002, book 3, 142 – 147, 2002.

B10. Гушева М., Ангелов П., Христов П., Киров Б., Георгиева К., Метод за измерване и контрол на плаващия потенциал на цилиндрична електростатична сонда. Алгоритъм за управление на измерването на “V-A” характеристика. Proceedings of the eleventh international

scientific and applied science conference “ELECTRONICS ET’2002, book 3 136 – 141, 2002.

B11.Гушева, М., Банков Л., Киров, Б., Таушанов И., Лефтеров А., Бинев Г., Борисов Б., Дрейфметри за ракетни и спътникови експерименти, сборник с доклади - Юбилейна научна сесия по случай 30-годишнината на космическите изследвания в България, 27-28.10.1999, стр. 73-76, 1999.

B12. L.Bankov, M.Gusheva, B.Kirov, Yu.Shulchishin, K.Grechnev, Device for total ion drift velocity measurements aboard the Intercosmos-Bulgaria-1300 satellite, Препринт ЦЛКИ, 1982.

5. Научни доклади в чужбина – общо 6 бр.

D1.Kirov B., Asenovski S., Georgieva K., Asenovska Y.What Causes Geomagnetic Activity during Sunspot Minimum?14th European Solar Physics Meeting (ESPM-14) Dublin Ireland 08-12 September 2014.

D2. Boian Kirov, Solar Wind, Earth Rotation and Atmospheric Circulation Praha, COST Action ES1005 TOSCA Science meeting Prague, 30 September - 4 October 2013.

D3. B. Kirov, Application of electrostatic probes for space plasma diagnostics, ISPS 14-19 August 2011 Tainam, Taiwan abstract Book p. 41://www.pssc.ncku.edu.tw/ISPS_2011/index.html, 2011.

D4. B.Kirov, Global Seismic Activity and its Relation to Solar Activity, 8th Annual Meeting AOGS 8-12 August 2011 Taipei, Taiwan program book p 285 abstracts are available on CD ISBN: 978-981-08-8271-6, 2011.

D5. Kirov B. Space weather effects on surface charging of space vehicles, and an instrument for measuring the surface charging of the International Space Station. Heliophysical phenomena and earth’s environment 7-13 September 2009, Sibenik, Croatia http://www.zvjezdarnica.hr/meeting abstract book p.24, 2009.

D6. Klimov, S., Korepanov, V., Belyayev, S., Lizunov, G., Stanev, G., Georgieva, K., Kirov, B., Gough, P., Alleyne, H., Balikhin, M. ILWS program support by the OBSTANOVKA International Experiment onboard ISS, 35th COSPAR Scientific Assembly, Paris, France,18 - 25 July 2004 Book of abstracts p. 498, 2004.

6. Документация – 1 брой

T1. Руководство по эксплуатации зонда Ленгмюра ЗЛ (LP)
Плазменно-волновой комплекс (ПВК), эксперимент «Обстановка (1 этап)»
на Российском сегменте Международной Космической Станции

7. **Научни доклади у нас – общо 1 бр.**

DB1. S. Asenovski, B. Kirov, K. Georgieva, D. Bachvarov, S. Klimov, V.Grushin, First results

from Langmuir Probe measurements aboard the International Space Station: First Results, Ninth Scientific Conference with International Participation SPACE, ECOLOGY, SAFETY (SES 2013), 20-22 November, 2013, Sofia, Bulgaria