

## Section "Atmospheric physics"

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2. Gadzhev, G., Georgieva, I., Ganey, K., and Miloshev, N. Contribution of different emission sources to the atmospheric composition formation in the city of Sofia, *Int. J. Environment and Pollution*, Vol. 64, Nos. 1/3, (2018), pp. 47-57 SJR=0.22
3. Georgieva, I., Ivanov, I., Computer simulations of the impact of air pollution on the quality of life and health risks in Bulgaria, *Int. J. Environment and Pollution*, Vol. 64, Nos. 1/3, (2018), pp. 35-46 SJR=0.22
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7. Georgi Gadzhev, Vladimir Ivanov, Kostadin Ganey, and Hristo Chervenkov, *TVRegCM Numerical Simulations - Preliminary Results*, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, Volume 10665 LNCS, 2018, pp. 266-274. SJR=0.29
8. Ivelina Georgieva, Georgi Gadzhev, Kostadin Ganey, and Nikolay Miloshev., *Computer Simulations of Atmospheric Composition in Urban Areas. Some Results for the City of Sofia*, *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 2018, Volume 10665, LNCS, pp. 474-482. SJR=0.29
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10. Mukhtarov, P., Andonov, B., Pancheva, D., 2018. Empirical model of TEC response to geomagnetic and solar forcing over Balkan Peninsula. *Journal of Atmospheric and Solar-Terrestrial Physics*, 167, pp. 80-95. IF=1.492

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#### **Papers in Conference Proceedings:**

##### 2018

1. I. Georgieva, N.Miloshev. Computer simulations of PM pollution in urban areas - some results for Sofia city. The General Assembly 2018 of the European Geosciences Union (EGU), 08-14.04.2018, Vienna, Austria
2. V. Ivanov, G. Gadzhev, I. Georgieva, K. Ganev, N.Miloshev, H. Chervenkov, D. Syrakov, Climate Applications in a Virtual Research Environment Platform, International conference "e-Infrastructures for excellent science in Southeast Europe and Eastern Mediterranean", Sofia, Bulgaria, 15-16.05.2018
3. G. Gadzhev and K. Ganev. Vertical structure of atmospheric composition fields over Bulgaria, International Conference on "Numerical Methods for Scientific Computations and Advanced Applications" (NMSCAA'18), Hisarya, Bulgaria, 27 – 31 May 2018, pp. 38-41
4. I. Georgieva, N.Miloshev. Computer Simulations of PM Concentrations Climate for Bulgaria. International Conference on "Numerical Methods for Scientific Computations and Advanced Applications" (NMSCAA'18), 2018, 46-49
5. I. Georgieva, N.Miloshev. Particulate Matter (PM) Air Pollution in Bulgaria - analysis of computer simulations results. EMS Annual Meeting: European Conference for Applied Meteorology and Climatology 2018, 02-07.09.2018, Budapest, Hungary

##### 2017

6. Georgi Gadzhev, Vladimir Ivanov, Kostadin Ganev, and Hristo Chervenkov., TVRegCM results for Balkan peninsula, Workshop "Two Years Avitohol: Advanced HPC applications" 29-31.10.2017, Panagiuirishte, Bulgaria
7. Georgieva, I., Gadzhev, G., Ganev, K., Melas, D., Wang, T., HPC simulations of the atmospheric composition in Bulgaria and the city of Sofia, Workshop "Two Years Avitohol: Advanced HPC applications" 29-31.10.2017, Panagiuirishte, Bulgaria
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13. Bojilova R., Mukhtarov P.. Influence of solar and geomagnetic activity on the ionosphere over Bulgaria. Proceedings of Ninth Workshop "Solar Influences on the Magnetosphere, Ionosphere and Atmosphere", 2017, 54-57
14. Румяна Божилова, Пламен Мухтаров. Приложение на метода най-малки квадрати при анализ на времеви редове геофизични данни. Изследване на спектрални характеристики. Сборник с доклади от 45-та НАЦИОНАЛНА КОНФЕРЕНЦИЯ ПО ВЪПРОСИТЕ НА ОБУЧЕНИЕТО ПО ФИЗИКА „Експериментът – основа на образованието по физика“, 2017

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15. N. Kolev, P. Savov, Ts. Evgenieva, M. Vatzkitcheva, P. Kaleyna, D. Petkov, V. Danchovski, D. Ivanov, O. Gueorguiev, Bo L.B. Wiman, E. Donev, Experimental Results from a Ceilometer, a Sun Photometer, Particle Counters and Meteorological Measurements in the Valley of Sofia, 3rd National Congress on Physical Sciences, 29 Sep. – 2 Oct. 2016, Sofia, Bulgaria
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