

## Списък на научните публикации

### Обобщени данни:

I. Автореферати – **1**

II. Научни публикации в списания и поредици, реферирани и индексирани в Scopus и WoS – **60**

III. Научни статии в списания и доклади в сборници на конференции (в пълен текст), издадени от международни и национални издателства: **16**

Импакт-фактор на публикациите: **17.455**

SJR на публикациите: **3.956**

### I. Автореферати:

1. **Гаджев Г.**, 2013, *Мултимащабно моделиране на пренос на замърсители в атмосферата*, Дисертация за придобиване на образователната и научна степен “доктор” по специалност „Физика на океана, атмосферата и околземното пространство” шифър 01.04.08

### II. Научни публикации в списания и поредици реферирани и индексирани в Scopus и WoS (общо 60):

1. **Gadzhev, G.**, Ganev, K., Jordanov, G., Miloshev, N., Todorova, A., Syrakov, D., Prodanova, M. (2010) *Transport and transformation of air pollution from road and ship transport - Joint analysis of regional scale impacts and interactions*. DLR Deutsches Zentrum fur Luft- und Raumfahrt e.V. - Forschungsberichte, (10), pp. 33-37. (SJR: **0.102**)

<https://www.scopus.com/record/display.uri?eid=2-s2.0-77956604075&origin=resultslist&sort=plf-f&src=s&sid=31d1cadce3d8ea53760540c913edf5f9&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=29&citeCnt=0&searchTerm=>

2. Ganev, K., Syrakov, D., **Gadzhev, G.**, Prodanova, M., Jordanov, G., Miloshev, N., Todorova, A. (2010) *Joint analysis of regional scale transport and transformation of air pollution from road and ship transport*. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 5910 LNCS, pp. 180-187. DOI: 10.1007/978-3-642-12535-5\_20 (IF: **0.302**) Q4

<https://www.scopus.com/record/display.uri?eid=2-s2.0-77953742504&origin=resultslist&sort=plf-f&src=s&sid=784ecf2eb283ae8610bc5e1697865d60&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=30&citeCnt=2&searchTerm=>

3. Todorova, A., **Gadzhev, G.**, Jordanov, G., Syrakov, D., Ganev, K., Miloshev, N., Prodanova, M. (2010) *Numerical study of some high PM10 levels episodes*. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 5910 LNCS, pp. 223-230. DOI: 10.1007/978-3-642-12535-5\_25 (IF: **0.302**) Q4

<https://www.scopus.com/record/display.uri?eid=2-s2.0-77953737033&origin=resultslist&sort=plf-f&src=s&sid=784ecf2eb283ae8610bc5e1697865d60&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=31&citeCnt=1&searchTerm=>

4. Todorova, A., Syrakov, D., **Gadjhev, G.**, Georgiev, G., Ganev, K.G., Prodanova, M., Miloshev, N., Spiridonov, V., Bogatchev, A., Slavov, K. (2010) *Grid computing for atmospheric composition studies in Bulgaria*. Earth Science Informatics, 3 (4), pp. 259-282. DOI: 10.1007/s12145-010-0072-1 (IF: **1.208**) Q3

<https://www.scopus.com/record/display.uri?eid=2-s2.0-78449238328&origin=resultslist&sort=plf-f&src=s&sid=784ecf2eb283ae8610bc5e1697865d60&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=28&citeCnt=9&searchTerm=>

5. Jordanov, G., **Gadzhev, G.**, Ganev, K.G., Prodanova, M., Syrakov, D.E., Miloshev, N.G. (2010) *Evaluation of the contribution of different snap categories to the air pollution over the Balkan Peninsula*. HARMO 2010 - Proceedings of the 13th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, pp. 398-402.

<https://www.scopus.com/record/display.uri?eid=2-s2.0-84933530706&origin=resultslist&sort=plf-f&src=s&sid=31d1cadce3d8ea53760540c913edf5f9&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=33&citeCnt=1&searchTerm=>

6. Todorova, A.D., Ganev, K.G., Syrakov, D.E., Prodanova, M., Georgiev, G.J., Miloshev, N.G., **Gadjhev, G.K.** (2010) *Bulgarian emergency response system for release of hazardous pollutants -design and first tests*. HARMO 2010 - Proceedings of the 13th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, pp. 495-499

<https://www.scopus.com/record/display.uri?eid=2-s2.0-84861753226&origin=resultslist&sort=plf-f&src=s&sid=31d1cadce3d8ea53760540c913edf5f9&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=34&citeCnt=3&searchTerm=>

7. **Gadzhev G.**, Georgi Jordanov, Kostadin G. Ganev, Maria Prodanova, Dimiter E. Syrakov and Nikolai G. Miloshev, (2010), *Analyzis of the processes which form the air pollution pattern over the Balkan Peninsula*, Proceedings of the 13th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes — 1-4 June 2010, Paris, France. ISBN: 2-8681-5062-4, 156-160

<https://www.scopus.com/record/display.uri?eid=2-s2.0-84933558338&origin=resultslist&sort=plf-f&src=s&sid=e187b5fdb2ba0084b30f2fc84c4e9a4e&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=32&citeCnt=0&searchTerm=>

8. **Gadzhev, G.**, Syrakov, D., Ganev, K., Brandiyska, A., Miloshev, N., Georgiev, G., Prodanova, M., *Atmospheric composition of the Balkan region and Bulgaria. Study of the contribution of biogenic emissions*, AIP Conference Proceedings, (2011), 1404, pp. 200-209. DOI: 10.1063/1.3659921 (**SJR: 0.161**)

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-83655165344&partnerID=40&md5=2ec40d316cc537425ae32b33d1616954>

9. **Gadzhev, G.**, Ganev, K., Prodanova, M., Syrakov, D., Miloshev, N. *Biogenic emissions impact on the atmospheric composition in Bulgaria*, HARMO 2011 - Proceedings of the 14th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, (2011), pp. 371-375.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84933573828&partnerID=40&md5=6074c02cb61f59369be721dfce51cda3>

10. **Gadzhev, G.**, Jordanov, G., Ganev, K., Prodanova, M., Syrakov, D., Miloshev, N., *Atmospheric composition studies for the Balkan Region*, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), (2011), 6046 LNCS, pp. 150-157. DOI: 10.1007/978-3-642-18466-6\_17 (**IF: 0.302**) **Q4**

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79951976637&partnerID=40&md5=61294d21a5680867d41fe971c5b1c6cc>

11. Brandiyska, A.D., Ganev, K.G., Syrakov, D.E., Prodanova, M., Georgiev, G.J., Miloshev, N.G., **Gadzhev, G.K.**, *Bulgarian emergency response system for release of hazardous pollutants - Fast decision mode*, HARMO2011-Proceedings of the 14th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, 2011, pp. 217-221.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84871750282&partnerID=40&md5=27bdadd238c6278e0d95b7c2eccf2fcc>

12. Todorova, A., **Gadzhev, G.**, Jordanov, G., Syrakov, D., Ganev, K., Miloshev, N., Prodanova, M., *Numerical study of some high PM10 level episodes*, International Journal of Environment and Pollution, (2011), 46 (1-2), pp. 69-82 DOI: 10.1504/IJEP.2011.042609 (**IF: 0.724**) **Q4**

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-80053049901&partnerID=40&md5=5d595a3911de958b5d0a1d3039e04b8b>

13. Ganev, K., Syrakov, D., Todorova, A., **Gadzhev, G.**, Miloshev, N., Prodanova, M., *Study of regional dilution and transformation processes of the air pollution from road transport*, International Journal of Environment and Pollution, (2011), 44 (1-4), pp. 62-70. DOI: 10.1504/IJEP.2011.038403 (IF: 0.724) Q4

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79751509208&partnerID=40&md5=416918ddcc1671e3796c0fdeaf3e690>

14. Todorova, A.D., Ganev, K.G., Syrakov, D.E., Prodanova, M., Georgiev, G.J., Miloshev, N.G., **Gadjhev, G.K.** (2011) *Bulgarian Emergency Response System for Release of Hazardous Pollutants-Design and First Tests*. In: Steyn D., Trini Castelli S. (eds) *Air Pollution Modeling and its Application XXI*. NATO Science for Peace and Security Series C: Environmental Security. Springer, Dordrecht., pp. 263-268. DOI: 10.1007/978-94-007-1359-8\_44 (SJR: 0.102)

15. Brandiyska, A., Ganev, K., Syrakov, D., Prodanova, M., Miloshev, N., **Gadzhev, G.**, *Bulgarian emergency response system for release of hazardous pollutants - Brief description and some examples*, International Journal of Environment and Pollution, (2012), 50 (1-4), pp. 3-11. DOI: 10.1504/IJEP.2012.051175 (IF: 0.449) Q4

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84871742116&partnerID=40&md5=4c4f8e2de1fd029a1187f2011ea67916>

16. Jordanov, G., **Gadzhev, G.**, Ganev, K., Miloshev, N., Syrakov, D., Prodanova, M., *Numerical study of the wind energy potential in Bulgaria - Some preliminary results*, AIP Conference Proceedings, (2012), 1487, pp. 71-78. DOI: 10.1063/1.4758943 (SJR: 0.176)

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84873624891&partnerID=40&md5=2f6db7a7789055daf59e8bd3239c0975>

17. **Gadzhev, G.**, Ganev, K., Syrakov, D., Miloshev, N., Prodanova, M., *Contribution of biogenic emissions to the atmospheric composition of the Balkan Region and Bulgaria*, International Journal of Environment and Pollution, (2012), 50 (1-4), pp. 130-139. DOI: 10.1504/IJEP.2012.051187 (IF: 0.449) Q4

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84871725528&partnerID=40&md5=5f737e86f9d8baf7009abd93fd2adcc8>

18. **Gadzhev, G.K.**, Ganev, K.G., Miloshev, N.G., Syrakov, D.E., Prodanova, M., *Numerical study of the atmospheric composition in Bulgaria*, Computers and Mathematics with Applications, (2013), 65 (3), pp. 402-422. DOI: 10.1016/j.camwa.2012.07.002 (IF: 2.974) Q1

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84872612261&partnerID=40&md5=3ee7d13228dddafce76f44a1a1e6813>

19. **Gadzhev, G.**, Ganev, K., Prodanova, M., Syrakov, D., Atanasov, E., Miloshev, N., *Multi-scale Atmospheric Composition Modelling for Bulgaria*, NATO Science for Peace and Security Series C: Environmental Security, (2013), 137, pp. 381-385. DOI: 10.1007/978-94-007-5577-2\_(SJR: 0.126)

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84885396663&partnerID=40&md5=71cc06010c1da2a15659f9c7138f5eaf>

20. **Gadzhev, G.**, Ganev, K., Prodanova, M., Syrakov, D., Miloshev, N., *H15-61: Some statistical evaluations of numerically obtained atmospheric composition fields in Bulgaria*, Proceedings of the 15th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, HARMO 2013, (2013), pp. 373-377.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84935509144&partnerID=40&md5=c9bf9a8d9a466b0c88a0909739bf81b6>

21. **Gadzhev, G.K.**, Ganev, K.G., Prodanov, M., Syrakov, D.E., Miloshev, N.G., Georgiev, G.J., *Some numerically studies of the atmospheric composition climate of Bulgaria*, AIP Conference Proceedings, (2013), 1561, pp. 100-111. DOI: 10.1063/1.4827219 (SJR: 0.164)

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84890100593&partnerID=40&md5=d4c58cf6e246dd090228a3cd4b9f6e6f>

22. **Gadzhev, G.**, Ganev, K., Miloshev, N., Syrakov, D., Prodanova, M., *Some basic facts about the atmospheric composition in Bulgaria - Grid computing simulations*, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in

Bioinformatics), (2014), 8353 LNCS, pp. 484-490. DOI: 10.1007/978-3-662-43880-0\_55 (IF: 0.302)

Q4

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904093346&partnerID=40&md5=eb343b2cc6746c4bad64038ddc9bc1a1>

23. Ganev, K., Jordanov, G., **Gadzhev, G.**, Miloshev, N., Syrakov, D., Prodanova, M., *Renewable energy potential in Bulgaria - Some computer simulations results*, AIP Conference Proceedings, (2014), 1629, pp. 414-423. DOI: 10.1063/1.4902303 (SJR: 0.171)

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84911191458&partnerID=40&md5=3b0fe47174250916886339bf3b614356>

24. Georgieva, I., **Gadzhev, G.**, Ganev, K., Prodanova, M., Syrakov, D., Miloshev, N., *Numerical study of the air quality in the city of Sofia -Some preliminary results*, HARMO 2014 - 16th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Proceedings, (2014), pp. 356-360.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983197443&partnerID=40&md5=562d33fd74b997e800e10dd4df10026f>

25. **Gadzhev, G.**, Ganev, K., Miloshev, N., *Numerical study of the atmospheric composition climate of Bulgaria - Validation of the computer simulation results*, HARMO 2014 - 16th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Proceedings, (2014), pp. 41-45.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983189302&partnerID=40&md5=3f2985a980c0d888d086b696498ff316>

26. Georgieva, I., **Gadzhev, G.**, Ganev, K., Prodanova, M., Syrakov, D., Miloshev, N., *Numerical study of the Air Quality in the city of Sofia*, 8th Congress of the Balkan Geophysical Society, (2015), BGS 2015

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84956680352&partnerID=40&md5=d105228082588a15b36bb746743b203f>

27. **Gadzhev, G.**, Ganev, K., Miloshev, N., *Numerical study of the atmospheric composition climate of Bulgaria - Validation of the computer simulation results*, International Journal of Environment and Pollution, (2015), 57 (3-4), pp. 189-201. DOI: 10.1504/IJEP.2015.074503 (IF: 0.646) Q4

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959278495&partnerID=40&md5=65a826dc99b4779c0934b30756479b93>

28. Georgieva, I., **Gadzhev, G.**, Ganev, K., Prodanova, M., Syrakov, D., Miloshev, N., *Numerical study of the air quality in the city of Sofia - Some preliminary results*, International Journal of Environment and Pollution, (2015), 57 (3-4), pp. 162-174. DOI: 10.1504/IJEP.2015.074500 (IF: 0.646) Q4

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959312350&partnerID=40&md5=045f8d533ac25836722dfb8b425817c9>

29. **Gadzhev, G.**, Ganev, K., Miloshev, N., Syrakov, D., Prodanova, M., *HPC simulations of the fine particulate matter climate of Bulgaria*, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), (2015), 8962, pp. 178-186. DOI: 10.1007/978-3-319-15585-2\_20 (IF: 0.302) Q4

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84922381381&partnerID=40&md5=040beb1c15753bf42dd7beb96a51ce3b>

30. **Gadzhev, G.**, Ganev, K., Syrakov, D., Prodanova, M., Georgieva, I., Georgiev, G., *Computer simulations of the atmospheric composition climate of Bulgaria*, Física de la Tierra, Vol. 27 (2015) 171-189

[http://apps.webofknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=4&SID=F3cS3r8VjG6d4Q6KSPW&page=1&doc=6](http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=4&SID=F3cS3r8VjG6d4Q6KSPW&page=1&doc=6)

31. **Gadzhev, G.**, Ganev, K., Miloshev, N., Syrakov, D., Prodanova, M., *Analysis of the processes which form the air pollution pattern over Bulgaria*, Lecture Notes in Computer Science

(including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), (2014), 8353 LNCS, pp. 390-396. DOI: 10.1007/978-3-662-43880-0\_44 (IF: 0.302) Q4

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904089051&partnerID=40&md5=efc29bc224b57584595151cd2a380e65>

32. Hristo Chervenkov, Vladimir Ivanov, **Georgi Gadzhev**, Kostadin Ganey. *Sensitivity study of Different RegCM4.4 model set-ups – recent results from the TVRegCM experiment*. CYBERNETICS AND INFORMATION TECHNOLOGIES, Volume 17, No 5, 2017, pp. 17-26, **SJR:0.204**

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85038635418&origin=resultslist&sort=plf-f&src=s&sid=319ee50413bbf89d81554a29d4f5788b&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=4&citeCnt=0&searchTerm=>

33. Ivelina Georgieva, **Georgi Gadzhev**, Kostadin Ganey, Dimitris Melas, Tijian Wang. *High Performance Computing Simulations of the Atmospheric Composition in Bulgaria and the City of Sofia*. CYBERNETICS AND INFORMATION TECHNOLOGIES, Volume 17, No 5, 2017, pp. 37-48, **SJR:0.204**

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85038614187&origin=resultslist&sort=plf-f&src=s&sid=319ee50413bbf89d81554a29d4f5788b&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=5&citeCnt=0&searchTerm=>

34. **Gadzhev, G.**, Georgieva, I., Ganey, K., Miloshev, N., *CONTRIBUTION OF DIFFERENT EMISSION SOURCES TO THE ATMOSPHERIC COMPOSITION FORMATION IN CITY OF SOFIA*, HARMO 2018 - 18th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Proceedings, (2017), pp. 236-240.

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85047196490&origin=resultslist&sort=plf-f&src=s&sid=319ee50413bbf89d81554a29d4f5788b&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=3&citeCnt=0&searchTerm=>

35. **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 DOI: 10.1504/IJEP.2018.099146 (IF: 0.639) Q4

<https://www2.scopus.com/record/display.uri?eid=2-s2.0-85065602313&origin=resultslist&sort=plf-f&src=s&sid=b744d758b73797c2b8236102081b636c&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=1&citeCnt=0&searchTerm=>

36. **G. Gadzhev** and K. Ganey. *VERTICAL STRUCTURE OF SOME POLLUTANT OVER BULGARIA - OZONE AND NITROGEN DIOXIDE*. SGEM 2018, 18, 4.3, (2018), ISBN:978-619-7408-70-6, ISSN:1314-2704, DOI:10.5593/sgem2018/4.3, pp. 449-454 (**SJR: 0.209**)

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85063077698&origin=resultslist&sort=plf-f&src=s&sid=3b66a4cc8f9b8f4d59c634100d737ddc&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=0&citeCnt=0&searchTerm=>

37. Georgieva, I., **Gadzhev, G.**, Ganey, K. and Miloshev, N., *ANALYSIS OF DYNAMICAL AND CHEMICAL PROCESSES WHICH FORM ATMOSPHERIC COMPOSITION OVER BULGARIA*, SGEM 2018, 18, 4.3, (2018), ISBN:978-619-7408-70-6, ISSN:1314-2704, DOI:10.5593/sgem2018/4.3, pp. 167-179 (**SJR: 0.209**)

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85063085222&origin=resultslist&sort=plf-f&src=s&sid=3b66a4cc8f9b8f4d59c634100d737ddc&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=1&citeCnt=0&searchTerm=>

38. **Gadzhev, G.**, Georgieva, I., Ganey, K., Ivanov, V., Miloshev, N., Chervenkov, H., Syrakov, D. *Climate applications in a virtual research environment platform*. Scalable Computing, Volume 19, Issue 2, 2018, Pages 107-118, **SJR:0.182**

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85047091352&origin=resultslist&sort=plf-f&src=s&sid=319ee50413bbf89d81554a29d4f5788b&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=2&citeCnt=0&searchTerm=>

39. **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. (IF: 0.302) Q4

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85038609689&origin=resultslist&sort=plf-f&src=s&sid=319ee50413bbf89d81554a29d4f5788b&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=0&citeCnt=1&searchTerm=>

40. 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. (IF: 0.302) Q4

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85041722543&origin=resultslist&sort=plf-f&src=s&sid=319ee50413bbf89d81554a29d4f5788b&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=1&citeCnt=0&searchTerm=>

41. Georgieva, I., **Gadzhev, G.**, Ganey, K., Miloshev, N. *ANALYSIS OF THE CONTRIBUTION OF DIFFERENT PROCESSES (CHEMICAL AND DYNAMICAL) WHICH FORM THE ATMOSPHERIC COMPOSITION IN SOFIA*, 19th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes (Harmo'19) 3-6 June 2019, Bruges, Belgium

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85078186007&origin=resultslist&relpos=1&sort=plf-f&src=s&sid=541660a710cefc39b3a7d69dc1217cc7&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&citeCnt=0&searchTerm=>

42. **G. Gadzhev** and K. Ganey. *VERTICAL STRUCTURE OF AIR POLLUTANT FIELDS OVER BULGARIA*, 19th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes (Harmo'19) 3-6 June 2019, Bruges, Belgium

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85078218476&origin=resultslist&relpos=0&sort=plf-f&src=s&sid=541660a710cefc39b3a7d69dc1217cc7&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&citeCnt=0&searchTerm=>

43. Hristo Chervenkov, **Georgi Gadzhev**, Vladimir Ivanov and Kostadin Ganey , *Trend Analysis of CMIP5 Ensemble of Climate Indices over Southeast Europe with Focus on Agricultural Impacts*, CYBERNETICS AND INFORMATION TECHNOLOGIES, Volume 20, No 6, (2020), ISSN:1311-9702, pp. 155-165, DOI:10.2478/cait-2020-0069. (SJR: 0.272)

[https://www.scopus.com/record/display.uri?eid=2-s2.0-85099704389&origin=resultslist&featureToggles=FEATURE\\_VIEW\\_PDF:1](https://www.scopus.com/record/display.uri?eid=2-s2.0-85099704389&origin=resultslist&featureToggles=FEATURE_VIEW_PDF:1)

44. Hristo Chervenkov, **Georgi Gadzhev**, Vladimir Ivanov, Kostadin Ganey and Dimitrios Melas, *Degree-day Climatology over Central and Southeast Europe for the Period 1961–2018 - Evaluation in High Resolution*, CYBERNETICS AND INFORMATION TECHNOLOGIES, Volume 20, No 6, (2020), ISSN:1311-9702, pp. 166-174, DOI:10.2478/cait-2020-0070 (SJR: 0.272)

[https://www.scopus.com/record/display.uri?eid=2-s2.0-85099682309&origin=resultslist&featureToggles=FEATURE\\_VIEW\\_PDF:1](https://www.scopus.com/record/display.uri?eid=2-s2.0-85099682309&origin=resultslist&featureToggles=FEATURE_VIEW_PDF:1)

45. Ivanov V., Chervenkov H., **Gadzhev G.**, Ganey K. *DEGREE-DAYS AND AGRO-METEOROLOGICAL INDICES IN PROJECTED FUTURE CLIMATE OVER SOUTHEAST EUROPE*, SGEM 2020, Vol 20, N 4.1, ISBN:978-619-7603-09-5, ISSN:1314-2704, pp. 373-380 DOI:10.5593/sgem2020/4.1/s20.047 (SJR: 0.217)

[https://www.scopus.com/record/display.uri?eid=2-s2.0-85099783392&origin=resultslist&featureToggles=FEATURE\\_VIEW\\_PDF:1](https://www.scopus.com/record/display.uri?eid=2-s2.0-85099783392&origin=resultslist&featureToggles=FEATURE_VIEW_PDF:1)

46. **Gadzhev G.**, Ganey K., Mukhtarov P. *Statistical Moments Of The Vertical Distribution Of Air Pollution Over Bulgaria*. I. Lirkov and S. Margenov (Eds.): LSSC 2019, LNCS 11958, pp. 213–219, 2020. [https://doi.org/10.1007/978-3-030-41032-2\\_24](https://doi.org/10.1007/978-3-030-41032-2_24) (IF: 0.302) Q4

<https://www.scopus.com/record/display.uri?eid=2-s2.0-85081132993&origin=resultslist&sort=plf-f&src=s&sid=67f4ebf7c97862ed12ae77959ecf847&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=0&citeCnt=0&searchTerm=>

47. Georgieva I., **Gadzhev G.**, Ganev K., Miloshev N. *Process Analysis of Atmospheric Composition Fields in Urban Area (Sofia City)*. In: I. Lirkov and S. Margenov (Eds.): LSSC 2019, LNCS 11958, pp. 228–236, 2020. [https://doi.org/10.1007/978-3-030-41032-2\\_26](https://doi.org/10.1007/978-3-030-41032-2_26) (IF: 0.302) Q4 <https://www.scopus.com/record/display.uri?eid=2-s2.0-85081117226&origin=resultslist&sort=plf-f&src=s&sid=67f4ebf7c97862ed12ae77959ecef847&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=2&citeCnt=0&searchTerm>
48. Ivanov V., **Gadzhev G.**, Ganev K., Chervenkov H. *Sensitivity of the simulated Heat Risk in Southeastern Europe to the RegCM Model Configuration - preliminary results*. In: I. Lirkov and S. Margenov (Eds.): LSSC 2019, LNCS 11958, pp. 340–347, 2020. [https://doi.org/10.1007/978-3-030-41032-2\\_39](https://doi.org/10.1007/978-3-030-41032-2_39) (IF: 0.302) Q4 <https://www.scopus.com/record/display.uri?eid=2-s2.0-85081125231&origin=resultslist&sort=plf-f&src=s&sid=67f4ebf7c97862ed12ae77959ecef847&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=1&citeCnt=0&searchTerm>
49. **Gadzhev G.**, Ivanov V., Valcheva R., Ganev K., Chervenkov H., *HPC Simulations of the Present and Projected Future Climate of the Balkan Region*, HPC 2019, SCI 902, pp. 234-248, (2021) [https://doi.org/10.1007/978-3-030-55347-0\\_20](https://doi.org/10.1007/978-3-030-55347-0_20) (SJR: 0.215) <https://www.scopus.com/record/display.uri?eid=2-s2.0-85090544887&origin=resultslist&sort=plf-f&src=s&sid=14fe3f4bdd37334b31b0a5106da75189&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=2&citeCnt=0&searchTerm>
50. Ivanov V., Valcheva R., **Gadzhev G.**, *HPC Simulations of the Extreme Thermal Conditions in the Balkan Region with RegCM4*, HPC 2019, SCI 902, pp. 309-324, (2021) [https://doi.org/10.1007/978-3-030-55347-0\\_27](https://doi.org/10.1007/978-3-030-55347-0_27) (SJR: 0.215) <https://www.scopus.com/record/display.uri?eid=2-s2.0-85090545638&origin=resultslist&sort=plf-f&src=s&sid=14fe3f4bdd37334b31b0a5106da75189&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=0&citeCnt=0&searchTerm>
51. **Gadzhev G.**, Ganev K., Mukhtarov P. *HPC Simulations of the Atmospheric Composition Bulgaria's Climate (on the example of coarse particulate matter pollution)*, HPC 2019, SCI 902, pp. 221-233, (2021) [https://doi.org/10.1007/978-3-030-55347-0\\_19](https://doi.org/10.1007/978-3-030-55347-0_19) (SJR: 0.215) <https://www.scopus.com/record/display.uri?eid=2-s2.0-85090532073&origin=resultslist&sort=plf-f&src=s&sid=14fe3f4bdd37334b31b0a5106da75189&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2836160939600%29&relpos=1&citeCnt=0&searchTerm>
52. Hristo Chervenkov, **Georgi Gadzhev**, Vladimir Ivanov and Kostadin Ganev, *Assessment of the Joint Quantiles of Temperature and Precipitation in CMIP5 Future Climate Projections over Europe*, Dobrinkova and G. Gadzhev (eds.), Environmental Protection and Disaster Risks, Studies in Systems, Decision and Control 361, (2021), pp. 31 – 42, [https://doi.org/10.1007/978-3-030-70190-1\\_3](https://doi.org/10.1007/978-3-030-70190-1_3) (SJR: 0.135) [https://www.scopus.com/record/display.uri?eid=2-s2.0-85108238507&origin=resultslist&featureToggles=FEATURE\\_VIEW\\_PDF:1](https://www.scopus.com/record/display.uri?eid=2-s2.0-85108238507&origin=resultslist&featureToggles=FEATURE_VIEW_PDF:1)
53. Hristo Chervenkov, **Georgi Gadzhev**, Vladimir Ivanov and Kostadin Ganev, *Degree-days and Agro-meteorological Indices in CMIP5 RCP8.5 Future Climate - Results for Central and Southeast Europe*, Dobrinkova and G. Gadzhev (eds.), Environmental Protection and Disaster Risks, Studies in Systems, Decision and Control 361, (2021), pp. 19 – 30, [https://doi.org/10.1007/978-3-030-70190-1\\_2](https://doi.org/10.1007/978-3-030-70190-1_2) (SJR: 0.135) [https://www.scopus.com/record/display.uri?eid=2-s2.0-85108191589&origin=resultslist&featureToggles=FEATURE\\_VIEW\\_PDF:1](https://www.scopus.com/record/display.uri?eid=2-s2.0-85108191589&origin=resultslist&featureToggles=FEATURE_VIEW_PDF:1)
54. **Georgi Gadzhev** and Vladimir Ivanov, *Modelling of the Seasonal Sulphur and Nitrogen Depositions over the Balkan Peninsula by CMAQ and EMEP-MSC-W*, N. Dobrinkova and G. Gadzhev (eds.), Environmental Protection and Disaster Risks, Studies in Systems, Decision and Control 361, (2021), pp. 171 – 183, [https://doi.org/10.1007/978-3-030-70190-1\\_12](https://doi.org/10.1007/978-3-030-70190-1_12) (SJR: 0.135) [https://www.scopus.com/record/display.uri?eid=2-s2.0-85108206425&origin=resultslist&featureToggles=FEATURE\\_VIEW\\_PDF:1](https://www.scopus.com/record/display.uri?eid=2-s2.0-85108206425&origin=resultslist&featureToggles=FEATURE_VIEW_PDF:1)

55. **Georgi Gadzhev**, *The Seasonal Recurrence of Air Quality Index for the Period 2008-2019 Over the Territory of Sofia City*, Dobrinkova and G. Gadzhev (eds.), Environmental Protection and Disaster Risks, Studies in Systems, Decision and Control 361, (2021), pp. 161–170, [https://doi.org/10.1007/978-3-030-70190-1\\_11](https://doi.org/10.1007/978-3-030-70190-1_11) (SJR: 0.135)

[https://www.scopus.com/record/display.uri?eid=2-s2.0-85108215773&origin=resultslist&featureToggles=FEATURE\\_VIEW\\_PDF:1](https://www.scopus.com/record/display.uri?eid=2-s2.0-85108215773&origin=resultslist&featureToggles=FEATURE_VIEW_PDF:1)

56. **Georgi Gadzhev**, Vladimir Ivanov, Kostadin Ganev, *Modelling of dry and wet deposition processes for the Sulphur and Nitrogen compounds over Bulgaria*, The 20th conference on "Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes" was held in Tartu, Estonia, in June 2021,

[https://www.harmo.org/Conferences/Proceedings/\\_Tartu/publishedSections/H20-160\\_georgi\\_gadzhev.pdf](https://www.harmo.org/Conferences/Proceedings/_Tartu/publishedSections/H20-160_georgi_gadzhev.pdf)

[https://www.scopus.com/record/display.uri?eid=2-s2.0-85118923624&origin=resultslist&sort=plf-f&featureToggles=FEATURE\\_NEW\\_DOC\\_DETAILS\\_EXPORT:1](https://www.scopus.com/record/display.uri?eid=2-s2.0-85118923624&origin=resultslist&sort=plf-f&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1)

57. **Gadzhev, G.**; Ganev, K. *Computer Simulations of Air Quality and Bio-Climatic Indices for the City of Sofia*. Atmosphere, 2021, 12, 1078. <https://doi.org/10.3390/atmos12081078> (IF: 2.686) Q2

[https://www.scopus.com/record/display.uri?eid=2-s2.0-85113983254&origin=resultslist&featureToggles=FEATURE\\_VIEW\\_PDF:1](https://www.scopus.com/record/display.uri?eid=2-s2.0-85113983254&origin=resultslist&featureToggles=FEATURE_VIEW_PDF:1)

[https://www.scopus.com/record/display.uri?eid=2-s2.0-85113983254&origin=resultslist&featureToggles=FEATURE\\_VIEW\\_PDF:1](https://www.scopus.com/record/display.uri?eid=2-s2.0-85113983254&origin=resultslist&featureToggles=FEATURE_VIEW_PDF:1)

58. Ivanov V., **Gadzhev G.** *Behavior and Scalability of the Regional Climate Model RegCM4 on High Performance Computing Platforms*. In: Lirkov I., Margenov S. (eds) Large-Scale Scientific Computing. LSSC 2021. Lecture Notes in Computer Science, (2022), vol 13127. Springer, Cham, pp. 124-131, [https://doi.org/10.1007/978-3-030-97549-4\\_14](https://doi.org/10.1007/978-3-030-97549-4_14) (IF: 0.302) Q4

[https://www.scopus.com/record/display.uri?eid=2-s2.0-85127168443&origin=resultslist&sort=plf-f&featureToggles=FEATURE\\_NEW\\_DOC\\_DETAILS\\_EXPORT:1](https://www.scopus.com/record/display.uri?eid=2-s2.0-85127168443&origin=resultslist&sort=plf-f&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1)

59. Georgieva I., **Gadzhev G.**, Ganev K. *Study the Recurrence of the Dominant Pollutants in the Formation of AQI Status over the City of Sofia for the Period 2013–2020*. In: Lirkov I., Margenov S. (eds) Large-Scale Scientific Computing. LSSC 2021. Lecture Notes in Computer Science, (2022), vol 13127. Springer, Cham, pp. 109-116, [https://doi.org/10.1007/978-3-030-97549-4\\_12](https://doi.org/10.1007/978-3-030-97549-4_12) (IF: 0.302) Q4

[https://www.scopus.com/record/display.uri?eid=2-s2.0-85127176611&origin=resultslist&sort=plf-f&featureToggles=FEATURE\\_NEW\\_DOC\\_DETAILS\\_EXPORT:1](https://www.scopus.com/record/display.uri?eid=2-s2.0-85127176611&origin=resultslist&sort=plf-f&featureToggles=FEATURE_NEW_DOC_DETAILS_EXPORT:1)

60. **Gadzhev, G.**; Ganev, K.; Mukhtarov, P. *Influence of the Grid Resolutions on the Computer Simulated Surface Air Pollution Concentrations in Bulgaria*. Atmosphere 2022, 13, 774. <https://doi.org/10.3390/atmos13050774> (IF: 2.686) Q2

### III. Научни статии в списания и доклади в сборници на конференции (в пълен текст), издадени от международни и национални издателства (общо 16):

1. Ganev K., Syrakov D., Prodanova M., Miloshev N., Jordanov G., **Gadjev G.**, and Todorova A., 2009, *Atmospheric composition modeling for the Balkan region*, Proceedings of SEEGRID-SCI User Forum 2009, 9-10 Dec, 2009, Istanbul, Turkey, ISBN: 978-975-403-510-0, pp. 77-85

2. Ganev K., D. Syrakov, A. Todorova, **G. Gadzhev**, G. Jordanov, N. Miloshev, M. Prodanova, (2009), *Joint analysis of dilution and transformation processes of air pollution from the road and ship transport*, 7th International Conference on Air Quality Science and Application Istanbul, 24-27 March 2009. (on a CD)

3. A. Todorova, **G. Gadzhev**, G. Jordanov, D. Syrakov, Ganev K., N. Miloshev, M. Prodanova, (2009), *Application of the US EPA MODELS 3 SYSTEM for Numerical Simulations of High Pm10 Levels Episodes*, 7th International Conference on Air Quality Science and Application Istanbul, 24-27 March 2009. (on a CD)

4. Syrakov D., Prodanova M., Spiridonov V., Bogatchev A., Slavov K., Ganev K., Miloshev N., Jordanov G., **Gadjev G.**, and Todorova A., 2009, *Climate Change Impact of Air Quality over*



Bulgaria, Proceedinds of SEEGRID-SCI User Forum 2009, 9-10 Dec, 2009, Istanbul, Turkey, ISBN: 978-975-403-510-0, pp. 95-103

5. Todorova A., K. Ganev, D. Syrakov, M. Prodanova, G. Georgiev, N. Miloshev, **G. Gadzhev**, 2010. *Bulgarian Emergency Response System for Release of Hazardous Pollutants – Design and First Tests*. Proc. of 19th Int. Conf. Ecology&Safety, June 2010, Sl.Brjag, Bulgaria, Ecology and Safety. Int. Scientific Publications, ISSN 1313-2563, Vol.4, pp.103-118.

6. **Gadzhev, G.**, Syrakov, D., Ganev, K., Brandiyska, A., Miloshev, N., Jordanov, G., Prodanova, M., *Atmospheric composition of the Balkan region – Some numerical experiments*, Ecology & Safety, Volume5, Part 2, pp. 224-239 (2011)

7. **Gadzhev, G.**, Ganev, K., Miloshev, N., Syrakov, D., Prodanova, M., *Numerical Study Of The Atmospheric Composition Climate In Bulgaria*, Ecology & Safety, Volume7, Part 2, (2013), pp. 63-82

8. **Gadzhev, G.**, Ganev, K., Miloshev, N., Syrakov, D., Prodanova, M., *Calculation Of Some Ozone Pollution Indeces For Bulgaria*, Ecology and Safety, Volume 8, ISSN 1314-7234, (2014) pp: 384- 392

9. **Gadzhev G.**, Ganev K., Syrakov D., Prodanova M., Miloshev N., 2014. *Computer simulations of the atmospheric composition climate of Bulgaria - some basic results*, Proc. of the international conference on numerical methods for scientific computations and advanced applications, may 19-22, 2014, Bansko, pp. 35-38, ISBN978-954-91700-7-8.

10. Gadzhev, G., *Recurrence of Air Quality for the city of Sofia for 2013 and 2014*, Bulgarian Geophysical Journal, Vol.41, 2018, pp. 46–58

11. **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

<http://www.niggg.bas.bg/aboutus/periodicalsbg/bulgarian-geophysical-journal/2018-vol-41/>

12. P. Mukhtarov, N. Miloshev, G. Gadzhev, R. Bojilova, *MONITORING AND FORECASTING THE BIOLOGICALLY ACTIVE ULTRAVIOLET RADIATION OF THE SUN*, Bulgarian Geophysical Journal, 2020, Vol. 43, pp. 31 – 42. DOI: 10.34975/bgj-2020.43.3

13. Hristo Chervenkov, Vladimir Ivanov, **Georgi Gadzhev** and Kostadin Ganev, *Assessment of the FUTURE CLIMATE over Southeast Europe based on CMIP5 ensemble of climate indices – Part One: Results and discussion*, Proceeding of 1<sup>st</sup> International conference on ENVIRONmental protection and disaster RISks, 29-30 September 2020, Sofia, Bulgaria, ISBN 978-619-7065-38-1, pp. 144 – 156, <https://doi.org/10.48365/envr-2020.1.13>

14. Hristo Chervenkov, Vladimir Ivanov, **Georgi Gadzhev** and Kostadin Ganev, *Assessment of the FUTURE CLIMATE over Southeast Europe based on CMIP5 ensemble of climate indices – Part Two: Results and discussion.*, (2020), Proceeding of 1<sup>st</sup> Internationa conference on ENVIRONmental protection and disaster RISks, 29-30 September 2020, Sofia, Bulgaria, ISBN 978-619-7065-38-1, pp. 157 – 169, <https://doi.org/10.48365/envr-2020.1.14>

15. **Georgi Gadzhev** and Vladimir Ivanov, *MODELLING OF THE SULPHUR AND NITROGEN DEPOSITIONS OVER THE BALKAN PENINSULA BY CMAQ AND EMEP-MS-C-W – PRELIMINARY RESULTS*, (2020), Proceeding of 1<sup>st</sup> Internationa conference on ENVIRONmental protection and disaster RISks, 29-30 September 2020, Sofia, Bulgaria, ISBN 978-619-7065-38-1, pp. 90 – 100, <https://doi.org/10.48365/envr-2020.1.8>

16. **Georgi Gadzhev**, *PRELIMINARY RESULTS FOR THE RECURRENCE OF AIR QUALITY INDEX FOR THE CITY OF SOFIA FROM 2008 TO 2019*, (2020), Proceeding of 1<sup>st</sup> Internationa conference on ENVIRONmental protection and disaster RISks, 29-30 September 2020, Sofia, Bulgaria, ISBN 978-619-7065-38-1, pp. 53 – 64, <https://doi.org/10.48365/envr-2020.1.5>

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