

## Списък на научните публикации на кандидата за конкурса

за участие в конкурс за заемане на академична длъжност „доцент“ по научна специалност 4.4.

Науки за Земята, научна специалност “Физика на океана, атмосферата и околоземното пространство” за нуждите на департамент “Геофизика”  
от гл.ас. д-р Георги Костадинов Гаджев,

### Обобщени данни:

I. Автореферати – **1**

II. Научни публикации в международни списания и поредици, включително такива с импакт-фактор – **15**

III. Доклади в сборници на международни конференции (в пълен текст) – **16**

IV. Списък на публикациите на кандидата за придобиване на научната и образователна степен “Доктор” по научна специалност 01.04.08 “Физика на океана, атмосферата и околоземното пространство” – **8**

V. Презентации на доклади на национални и международни форуми – **3**

Импакт-фактор на публикациите по конкурса: **4.207**

SJR на публикациите по конкурса: **2.115**

Импакт-фактор на публикациите по конкурса включително и тези за придобиване на научна и образователна степен “Доктор”: **6.389**

SJR на публикациите по конкурса включително и тези за придобиване на научна и образователна степен “Доктор”: **3.014**

### I. Автореферати:

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

### II. Научни публикации в международни списания и поредици, включително такива с импакт-фактор (общо 15):

1. **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. **(IF: 0.71)**

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

DOI: 10.1504/IJEP.2015.074503

2. 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. **(IF: 0.71)**

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

DOI: 10.1504/IJEP.2015.074500

3. **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. **(SJR: 0.339)**

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

DOI: 10.1007/978-3-319-15585-2\_20

4. **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

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

6. **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. **(SJR: 0.339)**

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

DOI: 10.1007/978-3-662-43880-0\_44

7. **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. **(SJR:0.339)**

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

DOI: 10.1007/978-3-662-43880-0\_55

8. **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

9. 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. **(IF: 0.71)**

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

DOI: 10.1504/IJEP.2012.051175

10. 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 **(IF: 0.71)**

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

DOI: 10.1504/IJEP.2011.042609

11. 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. **(IF: 0.71)**

<https://www.scopus.com/inward/record.uri?eid=2-s2.0->

[79751509208&partnerID=40&md5=416918ddcc1671e3796c0fdeaf3e690](https://doi.org/10.1504/IJEP.2011.038403)

DOI: 10.1504/IJEP.2011.038403

12. 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. (SJR: 0.339)

DOI: 10.1007/978-3-642-12535-5\_20

13. 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. (SJR: 0.339)

DOI: 10.1007/978-3-642-12535-5\_25

14. 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. (IF: 0.657)

DOI: 10.1007/s12145-010-0072-1

15. **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

### III. Доклади в сборници на международни конференции (в пълен текст) (общо 16):

1. 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>

2. **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>

3. 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>

4. 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. (SJR: 0.16)

<https://www.scopus.com/inward/record.uri?eid=2-s2.0->

[84911191458&partnerID=40&md5=3b0fe47174250916886339bf3b614356](https://doi.org/10.1063/1.4902303)

DOI: 10.1063/1.4902303

5. **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. **(SJR: 0.16)**

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84890100593&partnerID=40&md5=d4c58cf6e246dd090228a3cd4b9f6e6f)

[84890100593&partnerID=40&md5=d4c58cf6e246dd090228a3cd4b9f6e6f](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84890100593&partnerID=40&md5=d4c58cf6e246dd090228a3cd4b9f6e6f)

DOI: 10.1063/1.4827219

6. **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-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84935509144&partnerID=40&md5=c9bf9a8d9a466b0c88a0909739bf81b6)

[84935509144&partnerID=40&md5=c9bf9a8d9a466b0c88a0909739bf81b6](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84935509144&partnerID=40&md5=c9bf9a8d9a466b0c88a0909739bf81b6)

7. 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. **(SJR: 0.16)**

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84873624891&partnerID=40&md5=2f6db7a7789055daf59e8bd3239c0975)

[84873624891&partnerID=40&md5=2f6db7a7789055daf59e8bd3239c0975](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84873624891&partnerID=40&md5=2f6db7a7789055daf59e8bd3239c0975)

DOI: 10.1063/1.4758943

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

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

9. **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 für Luft- und Raumfahrt e.V. - Forschungsberichte, (10), pp. 33-37. **(SJR: 0.1)**

10. 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.

11. 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

12. 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*. Proceedings of the 31st International Technical Meeting on Air Pollution Modeling and its Application, Springer Science+ Business Media B.V. 2012, (NATO Science for Peace and Security Series C: Environmental Security), pp. 263-268. **(SJR: 0.2)**

DOI: 10.1007/978-94-007-1359\_44

13. Ganev, K., Syrakov, D., Todorova, A., Prodanova, M., Atanasov, E., Gurov, T., Karaivanova, A., Miloshev, N., **Gadzhev, G.**, and Jordanov, G., *Multi-scale atmospheric composition modelling for the Balkan region*, Geophysical Research Abstracts, Vol. 12, EGU2010-10080, 2010, EGU General Assembly 2010, (2010)

14. 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)

15. 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)

16. 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

#### IV. Списък на публикациите на кандидата за придобиване на научната и образователна степен “Доктор” по научна специалност 01.04.08 “Физика на океана, атмосферата и околоземното пространство” (общо 8):

1. **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. (IF 1.472)

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

DOI: 10.1016/j.camwa.2012.07.002

2. **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. (SJR: 0.2)

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

DOI: 10.1007/978-94-007-5577-2\_64

3. **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. (IF: 0.71)

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

DOI: 10.1504/IJEP.2012.051187

4. **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. (SJR: 0.16)

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

DOI: 10.1063/1.3659921

5. **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=6074c02cb61f59369be721dfee51cda3>

6. **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. (SJR: 0.339)

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

DOI: 10.1007/978-3-642-18466-6\_17

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

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

#### V. Презентации на доклади на национални и международни форуми (общо 3):

1. **Gadzhev, G.** and Ivanov Vl., *Validation of RegCM for South-East Europe - preliminary results*, Eighth ICTP Workshop on the Theory and Use of Regional Climate Models, 23.05-03.06.2016, Trieste, Italy

2. **Гаджев Г.,** Иванов Вл. и Червенков Хр., *Валидиране на модела RegCM за територията над Югоизточна Европа – предварителни резултати*, III Национален Конгрес по Физически науки, 29.09. – 2.10.2016г., София, България

3. **Gadzhev G.,** *Bulgarian Climate Applications*, VI-SEEM National Dissemination Event: Workshop on Virtual Research Environment for Interdisciplinary Computations, 3 November 2016, Sofia, Bulgaria

гр. София  
15.11.2016 г.

с уважение:  
/главен асистент д-р Георги Гаджев/