

СПИСЪК - 1
на публикациите на чл.-кор. проф. дфн Екатерина Бъчварова от периода 1983 – 2010
по конкурса за академик на БАН – 2024 г.

1. Автореферати (2)

A1. Бъчварова, Е., 1985, Изследване на развитието на термичен вътрешен граничен слой и разпространението на примеси в него, Автореферат на дисертация за получаване на научната степен “Кандидат на физическите науки”, София, 36 стр.

A2. Бъчварова, Е., 2006, Теоретични и експериментални изследвания на височината на конвективния граничен слой в атмосферата при различни постилащи повърхности, Автореферат на дисертация за научната степен “Доктор на физическите науки”, София, 56 стр.

2. Научни публикации в списания и поредици (73)

2.1. В чужбина (57)

2.1.1. В списания (30)

Общ №	№ в кате гори ята	описание	Година	IF	Вкл. за Дфн	Вкл. за доц	Вкл. В Scopus	Вкл. в ISI
1	1	Yordanov, D.L. und E.A. Batchvarova, 1988: Uber die Hohe der ineren thermischen Grenzschicht bei einer See-brise. Zeitschrift fur Meteorologie, 38, 5, pp 145-149. (In ISI search with Batchvarova E A, not Batchvarova E)	1988	1.355		x		x E A*
2	2	Gryning, S.-E. and E.A. Batchvarova, 1990: Analytical Model of the Growth of the Internal Boundary Layer during onshore flow. Quarterly Journal of the Royal Meteorological Society, 116, 187-203.	1990	2.923	x	x	x	x
3	3	Batchvarova, E.A. and S.-E.Gryning, 1991, Applied model for the growth of the daytime mixed layer, Boundary-Layer Meteorology, 56, 261-274.	1991	2.864	x	x	x	x
4	4	Gryning S.-E. and E. Batchvarova, 1994: Parametrization of the depth of the entrainment zone above the daytime mixed layer, Quart.J. R. Meteorol. Soc., 120, 47-58.	1994	2.923	x	x	x	x
5	5	Batchvarova E. and S.-E. Gryning, 1994: An applied model for the height of the daytime mixed layer and the entrainment zone, Boundary-Layer Meteorology, 71, 311-323.	1994	2.864	x	x	x	x
6	6	Gryning S.-E. and E. Batchvarova, 1996: A model for the height of the internal boundary layer over an area with an irregular coastline. Boundary-Layer Meteorology, v 78, 405 - 413.	1996	2.864	x	x	x	x
7	7	Gryning, S.-E., E. Batchvarova, D. Schneiter, P. Bessemoulin and H. Berger, 1998: Meteorological conditions at the releasesite during the two tracer experiments. Atmospheric Environment, v 32, 4123-4137.	1998	3.423	x		x	x

8	8	Batchvarova E. and S.-E. Gryning, 1998: Wind climatology, atmospheric turbulence and internal boundary layer development in Athens during the MEDCAPHOT-TRACE experiment. <i>Atmospheric Environment</i> , v 32, 2055-2069.	1998	3.423	x	x	x	x
9	9	Gotchalk, L., E. Batchvarova, S.-E. Gryning, Anders Lindroth, Dimitris Melas, Yuri Motovilov, Michael Frech, Martti Heikinheimo, Patrick Samuelsson, Achim Grelle, Tony Persson 1999: Scale aggregation - comparison of flux estimates from NOPEX. <i>Agricultural and Forest Meteorology</i> , 98-99, 103-120.	1999	4.486	x		x	x
10	10	Gryning S.-E. and E.Batchvarova, 1999: Regional heat flux over the NOPEX area estimated from the evolution of the mixed-layer. <i>Agricultural and Forest Meteorology</i> , 98-99, 159-168.	1999	4.486	x		x	x
11	11	Batchvarova E., X. Cai, S.-E. Gryning and D. Steyn, 1999: Modelling internal boundary layer development in a region with a complex coastline. <i>Boundary-Layer Meteorology</i> , 90, 1-20.	1999	2.864	x		x	x
12	12	Melas, D.; Persson, T.; Bruin, H. de; Gryning, S.-E.; Batchvarova, E.; Zerefos, C., 2001: Numerical model simulations of boundary-layer dynamics during winter conditions. <i>Theor. Appl. Climatol.</i> (2001) 70 , 105-116.	2001	2.065	x		x	x
13	13	Gryning, S.-E.; Batchvarova, E.; Bruin, H.A.R. de, Energy balance of a sparse coniferous high-latitude forest under winter conditions. <i>Boundary-Layer Meteorol.</i> (2001) 99 , 465-488.	2001	2.864	x		x	x
14	14	Gryning, S.-E.; Batchvarova, E., 2001: Meteorological pre-processing of incoming solar radiation and heat flux over a sparse boreal forest at a northern site during winter conditions. <i>Int. J. Environ. Pollut.</i> (2001) 16 , 550-559.	2001	0.606	x		x	
15	15	Batchvarova, E.; Gryning, S.-E.; Hasager, C.B., Regional fluxes of momentum and sensible heat over a sub-arctic landscape during late winter. <i>Boundary-Layer Meteorol.</i> (2001) 99 , 489-507.	2001	2.864	x		x	x
16	16	Beyrich, F; Richter, SH; Weisensee, U; Kohsiek, W; Lohse, H; DeBruin, H; Foken, T; Göckede, M; Berger, FH; Vogt, R; Batchvarova, E, 2002: Experimental determination of turbulent fluxes over the heterogeneous LITFASS area: Selected results from the LITFASS-98 experiment, <i>Theoretical and Applied Climatology</i> , 73, 19-34.	2002	2.065	x		x	x
17	17	Gryning, S.-E.; Batchvarova, E., 2002: Marine boundary layer and turbulent fluxes over the Baltic Sea: Measurements and modelling. <i>Boundary-Layer Meteorol.</i> (2002) 103 , 29-47	2002	2.864	x		x	x
18	18	Gryning, S.E.; Batchvarova, E., 2002, Marine boundary-layer height estimated from the HIRLAM model, <i>Boreal Environment Research</i> , 7, 229-233, ISSN 1239-6095.	2002	2.110	x		x	
19	19	Gryning, S.-E.; Batchvarova, E.,2003, Marine atmospheric boundary-layer height estimated from NWP model output. <i>Int. J. Environ. Pollut.</i> , 20 , 147-153.	2003	0.606	x		x	x
20	20	Batchvarova, E, 2003, The Eighth International Conference on harmonization within atmospheric dispersion modelling for regulatory purposes:Editorial, <i>Int. J. Environ. Pollut.</i> , 20 , 1 - 3	2003	0.606			x	
21	21	Rotach, M.W.; Gryning, S.-E.; Batchvarova, E.; Christen, A.; Vogt, R., Pollutant dispersion close to an urban surface - the BUBBLE tracer experiment. <i>Meteorol. Atmos. Phys.</i> (2004) 87 , 39-56.	2004	1.586	x		x	x
22	22	Rotach, M. W., R. Vogt, C. Bernhofer, E. Batchvarova, A. Christen, A. Clappier, B. Feddersen, S.-E. Gryning, G. Martucci, H. Mayer, V. Mitev, T. R. Oke, E. Parlow, H. Richner, M. Roth, Y.-A. Roulet, D. Ruffieux, J. A. Salmond, M. Schatzmann and J. A. Voogt, 2005, BUBBLE – an Urban Boundary Layer Meteorology Project, <i>Theor. Appl. Climatol.</i> 81, No. 3-4, 231–261.	2005	2.065	x		x	x
23	23	Smedman A S, Gryning S-E, Bumke K, Hoegstroem U, Rutgersson A, Batchvarova E, Peters G,	2005		x			

		Hennemuth B, Tammelin B, Hyvoenen R, Omstedt A, Michelson D, Andersson T, Clemens M, 2006, Precipitation and evaporation budgets over the Baltic Proper: Observations and modeling, Journal of Atmospheric and Ocean Science, 10 (2005)163-191.						
24	24	Batchvarova, Ekaterina and Gryning, Sven-Erik; 2006: Progress in Urban Dispersion Studies , Theor. Appl. Climatol., 84, No. 1-3 , 57-67.	2006	2.065	x		x	x
25	25	Gryning, S-E; Batchvarova, E; Brümmner, B.; Jørgensen, H.E.; Larsen, S E, 2007: On the extension of the wind profile over homogeneous terrain beyond the surface boundary layer, Boundary-Layer Meteorol., vol: 124, p. 251-268, 10.1007/s10546-007-9166-9	2007	2.864			x	x
26	26	Gryning, S-E; Jørgensen, H E; Larsen, S E; Batchvarova, E., 2007: The wind profile up to 300 meters over flat terrain, Presented at: International conference: The science of making torque from wind. Lyngby (DK), In: J. Phys.: Conf. Ser., vol: 75, p. 9, 10.1088/1742-6596/75/1/012066	2007				x	
27	27	Pisoni E, Candini G, Batchvarova E, Carnevale C and Finzi G. Validation of mesoscale meteorological simulation over Po valley for air quality applications. 12. International conference on harmonization within atmospheric dispersion modelling for regulatory purposes (HARMO 12), Cavtat (HR), 6-10 Oct 2008. Croatian Meteorological Journal (2008) 43, 591-595.,	2008				x	
28	28	Gryning, S-E; Søgaard, Henrik; Batchvarova, Ekaterina, 2009. Comparison of regional and ecosystem CO2 fluxes, In: Boreal Environment Research, vol: 14(1), p. 204-212	2009	2.110			x	
29	29	Veleva B., N. Valkov, E. Batchvarova, M. Kolarova. Variation of short lived beta radionuclides (radon progeny) concentrations and the mixing processes in the atmospheric boundary layer, Journal of Environmental Radioactivity, 101, 7, SI, 5380543, DOI:10.1016/j.jenvrad.2009.08.008.	2009	1.413			x	
30	30	Gryning, S-E; Batchvarova, E.; Søgaard, H., 2009. Upscaling of mesoscale CO2 fluxes in the convective boundary layer. International conference on mesoscale meteorology and air pollution. Odessa (UA), 15-17 Sep., 2008; In: Ukrainian Hydrometeorological Journal(4), Article no. 164-169.	2009					

* Тази статия се намира при търсене с Batchvarova E A, докато всички останали с Batchvarova E

2.1.2 В поредици (27)

Общ №	No.	описание	год	Вкл. за ДФН	Вкл. за доц	Вкл. В Scopus	Вкл. в ISI
31	1	Batchvarova, E.A. and D.L. Yordanov, 1987, The Internal Boundary Layer at Sea Breeze for the Purpose of Air Pollution Modelling. Environmental Pollution Monitoring and Research Programme No. 49 WMO/TD No. 187, November 1987, v.II, (WMO/TD 1872) pp 117-129. (ISI 1)	1987		x		
32	2	Batchvarova, E.A. and M. Teneva, 1989: Air Pollution and Micrometeorological Characteristics in a Mountain Valley. WMO Special Environment Report No. 17 (1989). Changing composition of the Atmosphere. WMO No. 724, pp 57-60.	1989		x		
33	3	Batchvarova E. and S.-E. Gryning, 1992, Model of internal boundary layer development during onshore flow, In Air pollution modeling and its application IX, Han van Dop and G. Kallos (Eds) , Plenum Press, 731-732.	1992		x		
34	4	Batchvarova E., D. Syrakov and A.Tzenkova, 1994, Air Pollution Characteristics of a Region of Sofia and Data from Field Experiments (1992-1993). Urban Air Pollution. Monitoring and Control Strategies. Edited by Ivo Allegrini and Franco De Santis, NATO ASI Series, 2.Environment - vol.8, 235-242.	1994		x		

35	5	Batchvarova E. and S.-E. Gryning, 1994: Applied model for the height of the daytime mixed layer and the entrainment zone, In Air pollution modeling and its application X, Gryning and Millan (Eds), Plenum Press, 253-262.	1994	x	x		
36	6	Batchvarova E. and S.-E. Gryning, 1996: Model of internal boundary layer formation over inhomogeneous terrain. In Air Pollution Modelling and its Application XI, Gryning and Schiermeier (Eds), 295-302.	1996	x	x		
37	7	Gryning S.-E. and E.Batchvarova, 1997: Determination of regional heat fluxes from the growth of the mixed layer, In The determination of the Mixing Height - Current Progress and Problems, EURASAP Workshop Proceedings, 1-3 October 1997, Risoe National Laboratory, Denmark, Risoe-R-997(EN), ISSN 0106-2840, 35-38.	1997	x	x		
38	8	Batchvarova E., D. Steyn , X. Cai, S.-E. Gryning and M. Baldi, 1997: Modelling the Internal Boundary layer over the Lower Fraser Valley, British Columbia, In The determination of the Mixing Height - Current Progress and Problems, EURASAP Workshop Proceedings, 1-3 October 1997, Risoe National Laboratory, Denmark, Risoe-R-997(EN), ISSN 0106-2840, 141-144.	1997	x			
39	9	Steyn D , Batchvarova,. Cai, X., Gryning S.-E. and M. Baldi, 1998:Observation and Modelling of Boundary layer depth in a region with complex terrain and coastline, In: Air pollution modeling and its application XII, Gryning and Chaumerliac (Eds), 311-319.	1998				
40	10	Batchvarova, E, 1999, Mixing height in coastal areas – experimental results and modeling, a review, In Zlatev et al. (eds) Large scale computations in Air Pollution Modelling, Kluwer Academic Publishers, 63-68.	1999				
41	11	Parvanov O., Batchvarova, E.; Gizbreht A., 2000, Lidar observations of the planetary boundary layer aerosol structure and comparisons with in situ measurements amd mixed-layer height model results, In: Air pollution modeling and its application XIII, Gryning and Batchvarova (Eds.), Kluwer Academic/Plenum Publishers, 709-716.	2000				
42	12	Batchvarova, E.; Gryning, S.-E.; Bruin, H.A.R. de, 2001, Parameterisation of fluxes over a sparse boreal forest at high latitude. In: Air pollution modeling and its application XIV, Gryning, and Schiermeier, (eds.), Kluwer Academic/Plenum Publishers, 427-435)	2001	x			
43	13	Gryning, S.-E.; Batchvarova, E., Applied modelling of the mixing height over heterogeneous terrain (invited paper). In: Air pollution 9. Air pollution 2001, Wessex conference, Ancona (IT), 12-14 Sep 2001. Latini, G.; Brebbia, C. A. (eds.), (WIT Press, Southampton, 2001) (Advances in air pollution, vol. 10) p. 75-84	2001	x		x	
44	14	Gryning, S.-E.; Batchvarova, E., 2002: Pre-processor for regional-scale fluxes and mixed-layer height over inhomogeneous terrain. In: Air pollution modeling and its application XV, Borrego and Schayes (Eds.), Kluwer Academic/Plenum Publishers, 105-113.)	2002	x			
45	15	Batchvarova, E.; Gryning, S.E., Use of Richardson number methods in regional models to calculate the mixed-layer height. In: Air pollution processes in regional scale. NATO advanced research workshop, Kallithea (GR), 13-15 June 2002. (ARW Organizing Committee, Kallithea, 2002) in Air Pollution Processes in Reagional Scale, Eds Dimitrios Melas and Dimiter Syrakov, NATO Science Series, IV. Earth and Environment Sciences, Kluwer Academic Publishers – Vol.30, 21-30.	2002	x			
46	16	Gryning, S.-E.; Batchvarova, E.; Rotach, M.W.; Christen, A.; Vogt, R., 2004, Roof level urban tracer experiment: Measurements and modelling. In: Air pollution modeling and its application, XVI, Borrego, C. and Incecik, S. (eds.), (Kluwer Academic/Plenum Publishers, New York, 2004), 471-479.	2004	x			
47	17	Gryning, Sven-Erik and Batchvarova, Ekaterina; 2005, Advances in urban dispersion modelling, NATO ARW, Eds I. Farago et al “Advances In Air Pollution Modelling For Environmental Security” NATO Science Series, IV	2005	x			

		Earth and Environmentak Scienses – vol.54, Springer, 243-252.					
48	18	Batchvarova, Ekaterina and Gryning, Sven-Erik; 2005, Advances in urban meteorology modelling, NATO ARW, Eds I. Farago et al “Advances In Air Pollution Modelling For Environmental Security” NATO Science Series, IV Earth and Environmentak Scienses – vol.54, Springer, 23-32.	2005	x			
49	19	Batchvarova E, Spassova T, Valkov N and Iordanova L, 2005: Survey on atmospheric chemistry research and monitoring of air pollution in some new EU Member States and Candidate Countries, In Barnes I and Rudzinski K J (Eds) Environment simulations chambers: Application to atmospheric Chemical Processes, Springer, ISBN 1-4020-4231-0, 301-340.	2006				
50	20	Sloerdal L H, Batchvarova E, Finardi S, Sokhi R S, Kukkonen J, Rasmusen A, Fay B, Palao J L, 2006: Limitations Of Air Pollution Episodes Forecast Due To Boundary-Layer Parametrisations Implemented in Mesoscale Meteorological Models, In: Air pollution modeling and its application, XVII, Borrego, C. and Norman A. (eds.), (Kluwer Academic/Plenum Publishers) (NATO Challenges of Modern Society series), 641 -650 (D2 3)	2007	x			
51	21	Batchvarova, E, Gryning, S.-E., Rotach, M.W and Christen, A., 2006: Comparison of modelled aggregated turbulent fluxes and measured turbulent fluxes at different heights in an urban area, In: Air pollution modeling and its application, XVII, Borrego, C. and Norman A. (Eds.), (Kluwer Academic/Plenum Publishers) (NATO Challenges of Modern Society series), 363-370 (D2 2)	2007	x			
52	22	Gryning, S-E; Batchvarova, E, 2007: Turbulence, atmospheric dispersion and mixing height in the urban area, recent experimental findings, Chapter 1.2 In: Air pollution modeling and its application XVIII/ Editor: Borrego, C.; Renner, E. - Amsterdam : Elsevier (Combined with Developments in Environmental science, 6), 12-20. (D2 4, Sc 4, ISI)	2007	x			
53	23	Gryning, S.-E.; Batchvarova, E., Modelling of the urban wind profile (Invited Paper). In: Air pollution modeling and its application XIX. Borrego, C.; Miranda, A.I. (eds.), (Springer, Dordrecht, 2008) (NATO Science for Peace and Security Series. Series C: Environmental Security) p. 18-27	2007				
54	24	Batchvarova, E; Gryning, S-E, 2009, Measuring meteorology in highly non-homogeneous areas. Presented at: 89th American Meteorological Society Annual Meeting. Phoenix, AZ (US), 11-15 Jan., 2009, In: Proceedings (online) paper J3.7, American Meteorological Society, 2009, (8 pages), http://ams.confex.com/ams/89annual/techprogram/paper_146084.htm	2009				
55	25	Batchvarova, E; Pisoni E, Finzi G, Gryning, S-E, 2010, Modeling and measurements of the ABL in Sofia, Bulgaria, 90th American Meteorological Society Annual Meeting. Atlanta, Georgia, (US), 17-21 Jan., 2010, In: Proceedings (online) paper P58, American Meteorological Society, 2010, (6 pages), http://ams.confex.com/ams/90annual/techprogram/paper_163577.htm	2010				
56	26	Batchvarova E. and S.-E Gryning, 2010. The ability of mesoscale models to predict vertical profiles, D.G. Steyn and S.T. Rao (eds.), Air Pollution Modeling and Its Application XX, 103, DOI 10.1007/978-90-481-3812-8, 375-379.	2010				
57	27	Batchvarova E, E. Pisoni, and G. Finzi, 2010, (1.17) Evaluation of RAMS6.0 Boundary-Layer Simulation over Sofia (Bulgaria) D.G. Steyn and S.T. Rao (eds.), Air Pollution Modeling and Its Application XX, 103, DOI 10.1007/978-90-481-3812-8, 97-101.	2010				

2.2. В България (16)

2.2.1 В списания (16)

Общ №	No.	описание	год	IF	Вкл. ДФН	Вкл. доц	Вкл. д-р	Вкл. в ISI
58	1	Ек. Бъчварова и Е. Донеv, 1983, Спектрални оценки на концентрацията на някои замърсители на атмосферата и някои метеорологични параметри в гр. Бургас, Хидрология и метеорология, XXXII, 2, 70-72.	1983					
59	2	Ек. Бъчварова, 1984,. Някои предварителни резултати от микрометеорологичен дифузионен експеримент с трасер, Хидрология и метеорология, XXXIII, 3, 53-57.	1984				x	
60	3	Ек. Бъчварова, 1984, Резултати от микрометеорологичен дифузионен експеримент с използване на серен шестофлуорид като трасер, Българско геофизично сп., X, 4, 19-29.	1984				x	
61	4	Д. Йорданов и Ек. Бъчварова, 1985, Върху използването на теорияна подобие при изучаване на дифузията в условията на бризова циркулация. Българско геофизично сп., XI, 3, 19-29.	1985				x	
62	5	Д. Йорданов и Ек. Бъчварова, 1985, Върху височината на вътрешния граничен слой при морска бризова циркулация, Българско геофизично сп., XI, 2, 21-28. (D1 4)	1985				x	
63	6	Yordanov, D.L. and E.A. Batchvarova, 1988: On the diurnal motion of the thermal internal boundary layer in breeze circulation. Comptes rendus de l' Akademe bulgare des Sciences, 41 (1988), 5, pp 67-70.	1988					
64	7.	Тенева М, Бъчварова Ер 1989, Експериментални изследвания на замърсяването на атмосферата в градски условия, Бълг. Геофиз. Сп., т ЙЭ, № 3, 62-69 (Teneva, M and Batchvarova, E. A., 1989, Experimental investigation of the air pollution in urban areas, Bulg. Geophys. J., XV, No 3, 62-69).	1989					
65	8.	Batchvarova, E.A. and S.-E. Gryning, 1989: Internal boundary layer over Copenhagen. Bulgarian IBL modelling results compared with the Oresund Experiment data. Bulgarian Geophysical Journal, XV, 2, 23-33.	1989		x			
66	9	Стоянова Р, Бъчварова Е, Скопина, Н, 1992, Проблеми на мониторинга на атмосферното замърсяване във Варненско-Девненския район, БАН, Проблеми на Географията, 2, ISSN 0204-7209, 66-74.	1992					
67	10	Стоянова Р, Бъчварова Е, Скопина, Н, 1992, Проблеми на мониторинга на атмосферното замърсяване в Бургаски район, БАН, Проблеми на Географията, 3, ISSN 0204-7209, 19-28.	1992					
68	11	ЕМЕР, Bulgarian contribution, Annual report 1993, March 1994, MSC-E NIMH. Национален център за информация и документация, Регистрационен номер: 83739256	1994					
69	12	Batchvarova, E., Valkov, N., Videnov, P., Lansov, I., Gamanov, A., 2007, "Urban meteorology - Turbulence and boundary layer measurements in Sofia", 6 th International Symposium Ecology 2007, 4-8 June 2007, Sunny Beach, Bulgaria, CD full text, abstracts, and Journal of International Research Publications (online electronic journal www.eJournalNet.com, www.ScienceBg.Net), ISSN 1311-8978, Bulgaria.	2007					
70	13	Tzenkova, A., Ivancheva, J., Batchvarova, E., Ruuhela, R., 2007, "The bioclimate conditions in Sofia and Helsinki during winter 2005/2006", 6 th International Symposium Ecology 2007, 4-8 June 2007, Sunny Beach, Bulgaria, CD full text, abstracts, and Journal of International Research Publications (online electronic journal), ISSN 1311-8978, Bulgaria.	2007					

71	14	Batchvarova Ekaterina, Nedialko Valkov, Blagorodka Veleva, 2008, Study of long term air pollution and meteorological data in five Bulgarian towns, Proc. of 17 th International Symp. 'Ecology&Safety' 2008, 9-13 June 2008, Sunny Beach Resort, Bulgaria, International Scientific Publications, publ. by INFO INVEST, Bulgaria, (www.science-journals.eu) ISSN:1313-2563, Vol.2, Part 1, p. 571-577.	2008					
72	15	Veleva Bl., N. Valkov, Ek. Batchvarova, M. Kolarova, 2009. Study of the interaction between mixing processes in the atmospheric boundary layer and radon beta emitting daughters' concentration. 18 International Symposium ECOLOGY & SAFETY, June 8-12, 2009, Sunny Beach, Bulgaria (published on a CD, volume 3, Part 1 & http://www.science-journals.eu), Published at: J. of Int. Sci. Publications: Ecology&Safety, Volume 3. ISSN: 1313-2563.	2009					
73	16	Neykov, N, Valkov, N, Neychev, P, Batchvarova, E., 2010: Fitting Tweedie Distribution Time Series Regression Model to NO ₂ Data for Sofia 2001-2006. International conference "Challenges to science and society in Southeastern Europe", Meteorology and Hydrology, 1, 2010. ,	2010					

3. Научни публикации в пълен текст в сборници от конгреси и конференции, както и в тематични сборници (38)

3.1. В чужбина (30)

Общ №	No.	описание	год	Вкл. д-р	Вкл. ДФН	Вкл. доц
74	1	Batchvarova, E.A. and S.-E. Gryning, 1987, The internal boundary layer over Copenhagen. Workshop II on the Oresund Experimental data, 13-14 October 1987, Uppsala, Sweden, Preprints 29-37.	1987		x	x
75	2	Spiridonov, V. and E.A. Batchvarova, 1987, Numerical modelling and experimental investigation of pollutant dispersion in coastal regions at sea breeze. ICEA (International Conference on Energy transformations and interaction with small and mesoscale Atmospheric processes), Lausanne, 2-7 March 1987. Preprints 4.60 – 4.69.	1987			x
76	3	Batchvarova, E.A. and D.L. Yordanov, 1987, Internal Boundary layer influence on surface layer diffusion at sea breeze. ICEA (International Conference on Energy transformations and interaction with small and mesoscale Atmospheric processes), Lausanne, 2-7 March 1987, Preprints, 4.70 – 4.78. (ISI 2)	1987			x
77	4	Yordanov, D.L. and E.A. Batchvarova, 1988, Non-stationary internal boundary layer. EURASAP conference on Meteorology and Atmospheric dispersion in a coastal area and the Oresund Experiment Workshop III, 25- 27 October 1988, RISO National Laboratory, Denmark. Proc. 25-33.	1988			x
78	5	Gryning, S.-E. and E.A. Batchvarova, 1988, Use of a slab model to simulate the IBL over Copenhagen. EURASAP conference on Meteorology and Atmospheric dispersion in a coastal area and the Oresund Experiment Workshop III, 25- 27 October 1988, RISO National Laboratory, Denmark. Proc. 125-132.	1988		x	x
79	6	Gryning, E.A. and E.A. Batchvarova, 1990: Simple model of the daytime boundary layer height. American Meteorological Society Ninth Symposium on Turbulence and Diffusion. April 29 - May 3 1990, Roskilde, Denmark, Proc. pp 379-383.	1990		x	x
80	7	Cenkova A., Batchvarova E and Ivancheva J., 1992: Climate changes in Mountain valleys Due to air pollution. Swiss climate abstracts, ProClim, Davos, Switzerland, October 11-16, Proc. 18-19.	1992			x
81	8	Gryning S.-E. and E. Batchvarova, 1996a: Modelling the internal boundary layer height over the Vancouver area. Ninth Joint Conference on the Applications of Air Pollution Meteorology with the AWMA, 28 January - 2 February 1996, Atlanta, Georgia, 46-49.	1996			x
82	9	Batchvarova, E.; Gryning, S.-E., Internal Boundary layer development over areas with irregular coastline. In: Proceedings. 4. International conference on harmonisation within atmospheric dispersion modelling for regulatory purposes, Oostende (Belgium), 6-9 May 1996, 171-177	1996			x
83	10	Gryning, S.-E.; Batchvarova, E., Gotschalk L, Lindroth A, Comparison of regional sensible and latent flux estimates from Nopex, In: Proceedings. 2 nd Study conference on BALTEX, Ruegen, Germany, 25-29 May 1998 Raske and Isemar (Eds)	1998			
84	11	Batchvarova, E.; Gryning, S.-E., Comparison of atmospheric turbulence at two sites in Athens, Greece, In: Proceedings. 5. International conference on harmonisation within atmospheric dispersion modelling for regulatory purposes, Rhodes (Greece), 18-21 May 1998, 171-177	1998			
85	12	Gryning, S.-E.; Batchvarova, E., Pre-processing of heat flux and incoming solar radiation at a Northern site during winter conditions. In: Parameterization of surface fluxes, atmospheric planetary boundary layer and ocean mixed layer turbulence for BRIDGE - What can we learn from field experiments? Proceedings. Workshop arranged by the BALTEX Working Group on Numerical Experimentation and the BALTEX Working Group on Process Studies, Abisko (FI), 20-21 Jun 1999. Gustafsson, N. (ed.), (International BALTEX Secretariat, Geesthacht, 2000) (International BALTEX Secretariat	1999			

		publication, no. 17), 27-41				
86	13	Gryning, S.-E.; Batchvarova, E.; Bruin, H. de; Hasager, C.B., Local and regional fluxes over a sub-arctic landscape. In: Papers. 22. Nordic Meteorologists' meeting, Mariehamn (FI), 27 Jun - 1 Jul 2000. (Finnish Meteorological Institute, Helsingfors, 2000) 7 p.	2000			
87	14	Smedman, A.-S.; Andersson, T.; Batchvarova, E.; Bumke, K.; Bösenberg, J.; Clemens, M.; Fischer, B.; Gryning, S.-E.; Hennemuth, B.; Hyvönen, R.; Högström, U.; Jacob, D.; Johansson, C.; Kangas, M.; Melas, D.; Michelson, D.B.; Omstedt, A.; Peltomaa, A.; Peters, G.; Rutgersson, A.; Säntti, K.; Tammelin, B., 2001, Summary of the results obtained in the PEP in BALTEX experiment. In: Proceedings. 3. Study conference on BALTEX, Mariehamn (FI), 2-6 Jul 2001. Meywerk, J. (ed.), (International BALTEX Secretariat, Geesthacht, 2001) (International BALTEX Secretariat publication, no. 20), 213-214	2001			
88	15	Batchvarova, E.; Gryning, S.-E., The height of the marine boundary layer over the Baltic Sea: Measurements and modelling. In: Proceedings. 3. Study conference on BALTEX, Mariehamn (FI), 2-6 Jul 2001. Meywerk, J. (ed.), (International BALTEX Secretariat, Geesthacht, 2001) (International BALTEX Secretariat publication, no. 20) p. 11-12	2001			
89	16	Batchvarova, E.; Gryning, S.-E., Regional-scale fluxes and mixed-layer height - towards a meteorological pre-processor for inhomogeneous terrain. In: Proceedings. 7. International conference on harmonisation within atmospheric dispersion modelling for regulatory purposes, Belgirate (IT), 28-31 May 2001. (Joint Research Centre, Environment Institute, Ispra, 2001) p. 380-384 (D2 xx)	2001			
90	17	Rotach M, Batchvarova E, Berkovicz R, Brechler J, Janour Z, Karstner-Klein P, Middleton D, Prior V, Sacre C, Soriano C, 2001, Wind input data for urban dispersion modeling, COST Action 715 Workshop on Preparation of meteorological data for urban site studies, European commission, EU 19446, 77-86.	2001			
91	18	Soriano, C., Batchvarova, E., Berkowicz, R., Brechler, J., Janour, Z., Kastner-Klein, P., Middleton, D., Prior, V., Rotach, M. W., Sacre, C., Baldasano, J. M., 2003. Comparison of urban and rural wind speeds. In Rotach, M. W., Fisher, B., Piringer, M. (Eds.) Workshop on Urban Boundary Layer Parameterisations, EUR 20355, (ISBN: 92-894-4143-7), 41-50.	2003			
92	19	Gryning, S.-E.; Batchvarova, E., 2003: Mixing heights in urban areas: Will 'rural' parameterisations work?. COST 715 Workshop on urban boundary layer parametrizations, Zurich, May 2001, EUR20355, ISBN 92-984-4143-7, Luxemburg, Office for official publications of the European Communities, 99-109.	2003			
93	20	Gryning, S.-E.; Batchvarova, E., 2004, Is the critical bulk Richardson number constant?. In: Conference proceedings. 4. Study conference on BALTEX, Gudhjem (DK), 24-28 May 2004. Isemer, H.-J. (ed.), (International BALTEX Secretariat, 46-47	2004			
94	21	Fragkou, E., R. S. Sokhi, E. Batchvarova and N. Kitwiroon, 2004: Sensitivity analysis of MM5 to meteorological parameters during an episode period for London, In: Proceedings. 9th International conference on harmonisation within atmospheric dispersion modelling for regulatory purposes, Garmisch-Partenkirchen (DE), 1-4 June 2004. Suppan, P. (ed.), (Forschungszentrum Karlsruhe GmbH, Karlsruhe, 2004), Vol. 2, 224-228. (D2 13)	2004	x		
95	22	Batchvarova, E.; Gryning, S.-E.; Rotach, M.W.; Christen, A., Modelled aggregated turbulent fluxes compared to urban turbulence measurements at different heights. In: Proceedings. 9th International conference on harmonisation within atmospheric dispersion modelling for regulatory purposes, Garmisch-Partenkirchen (DE), 1-4 June 2004. Suppan, P. (ed.), (Forschungszentrum Karlsruhe GmbH, Karlsruhe, 2004), Vol. 2, 7-11. (D2 12)	2004	x		
96	23	Gryning, S-E and E Batchvarova, 2005, Strengths/weaknesses of laboratory/field and numerical data In Proceedings of COST732 and ESF International workshop on Quality assurance and improvement of microscale meteorological models, 28/29 July 2005 Hamburg Germany, Schatzmann and Britter (Eds), COST732 Quality assurance and improvement of	2005			

		microscale meteorological models, ISBN 3-00-018312-4, 85-93.				
97	24	Batchvarova, Ekaterina, Tatiana Spassova, Nedialko Valkov and Liliana Iordanova, 2005: The Atmospheric Chemistry Research in New EU Member States and Candidate Countries, Proc. 1 st ACCENT Workshop, 12-16 September 2005, Urbino, Italy, CD 3p, abstract 1 p	2005			
98	25	Batchvarova, E. and Gryning, S.-E., 2005, Turbulence parametrization for dispersion in urban areas, In: Proceedings. 10th International conference on harmonisation within atmospheric dispersion modelling for regulatory purposes, 17-20 October 2005, Sissi (Malia) Crete, Greece, Skouloudis et al. (eds), 185-189.	2005			
99	26	Gryning, S.-E.; Batchvarova, E.; Brümmner, B., The urban wind profile. In: Proceedings. Vol. 1: Oral presentations. 11. International conference on harmonisation within atmospheric dispersion modelling for regulatory purposes, Cambridge (GB), 2-5 Jul 2007. Carruthers, D.J.; McHugh, C.A. (eds.), (Cambridge Environmental Research Consultants, Cambridge, 2007) p. 295-299	2007			
100	27	Gryning, S.-E.; Soegaard, H.; Batchvarova, E., Upscaling of CO ₂ fluxes. In: Conference proceedings. 5. Study conference on BALTEX, Saaremaa (EE), 4-8 Jun 2007. Isemer, H.-J. (ed.), (International BALTEX Secretariat, Geesthacht, 2007) (International BALTEX Secretariat publication, no. 38) p. 104-105.	2007			
101	28	Bratoeva A T, Ivancheva J, Batchvarova E, Ruhela R, 2008, The estimation of bioclimatic conditions in part of Bulgaria and Finland using different human comfort indexes, Conference on Water Observation and Information System For Decision Support, 27-31 May 2008 - Ohrid, Republic of Macedonia, BALWOIS 2008.(Abstract in BALWOIS2008 Abstracts, p104-105; full paper on CD - Balwois-fp-274.pdf)	2007			
102	29	Veleva B, Valkov N, Batchvarova E, Kolarova M, Short lived radon progeny as a tracer for the mixing processes in the PBL, Conf. on Water Observation and Information System For Decision Support, 27-31 May 2008, Ohrid, Republic of Macedonia, BALWOIS 2008, (Abstract in BALWOIS2008 Abstracts, p239, balwois-2008-fp-081.pdf full paper on CD).	2008			
103	30	Batchvarova E, Pisoni E, Finzi G, 2008, Long-term meteorological mesoscale RAMS simulations over Northern Italy for air quality assessments. Conference on Water Observation and Information System For Decision Support, 27-31 May 2008 - Ohrid, Republic of Macedonia, BALWOIS 2008.(Abstract in BALWOIS2008 Abstracts, p104-105; full paper on CD - Balwois-fp-301.pdf)	2008			

3.2. В България (8)

Общ №	No.	описание	год	Вкл. д-р	Вкл. Дфн	Вкл. доц
104	1	Teneva M., E. Batchvarova, V. Andreev, D. Yordanov, K. Ganev, 1988, Air pollution peculiarities in urban area. Balcan Scientific Conference on Environmental Protection in the Balcans, 20-25 September 1988, Varna, Bulgaria. Proc. 95-119.	1988			x
105	2	Тенева М, Бъчварова Е, Йорданова Л, 1988, Особенности загрязнения атмосферы в районах со сложной орографии (Teneva, M., E. Batchvarova and L. Yordanova; Peculiarities of the Air Pollution in complex orography regions), XIV International Conference on Carpathian Meteorology, 25-30 September 1989, Sofia, Bulgaria, Proc. 396-401. (in Russian).	1989			x
106	3	Тенева М, Бъчварова Е, Йорданова Л, 1988, Взаимосвязь режима метеорологических элементов и загрязнения атмосферы (Teneva, M., E. Batchvarova and L. Yordanova; Interaction of the meteorological parameters and the Air Pollution), XIV International Conference on Carpathian Meteorology, 25-30 September 1989, Sofia, Bulgaria, Proc. 368-374 (in Russian).	1989			x
107	4	Бъчварова, Е., 1991: Особенности в режима на метеорологичните елементи и замърсяването на атмосферата в град Варна. Втора научна конференция по Рационално усвояване и защита на природните ресурси на Варненския регион, Варна, 31	1991			x

		октомври – 1 ноември 1991, В Сборник доклади, 212-221.				
108	5	Бъчварова, Е., Ценкова А, 1991: Схема за метеорологична оценка на замърсяването на въздуха. Втора научна конференция по Рационално усвояване и защита на природните ресурси на Варненския регион, Варна, 31 октомври – 1 ноември 1991, В Сборник доклади, 222-226.				х
109	6	Бъчварова Е., Вълков Н., Ценкова А., Иванчева Ю., Йорданова, Л., 1992: Замърсяването на въздуха в София – висок фон и екстремни ситуации. Научно-техническа конференция по защита на населението при бедствия и аварии, 29-30 април 1992, София, Сборник доклади, т.4, 75-77.	1992			х
110	7	Ценкова А., Иванчева Ю., Бъчварова Е, Виденов П., Ланзов И., Замърсяването на атмосферата като бедствие от антропогенен произход. Научно-техническа конференция по защита на населението при бедствия и аварии, 29-30 април 1992, София, Сборник доклади, т.4, 78-84.	1992			х
111	8	Бъчварова Е., Първанов О., Йорданова Л., 1993: Експериментална проверка на модел за височината на слоя на смесване. XV Колоквиум «Физиката в опазване на човека и околната му среда» на тема Моделиране и експериментална проверка на модели за замърсяване на околната среда, Гюлежица, 25-27 юни 1993 г., СФБ, НДБФТ и МОС, Сборник, 45-52.	1993			х

4. Издадени (части от) научни книги и доклади по проекти с ISBN и/или ISSN (20)

Общ №	№	Описание	Годи на	Вкл. Дфн	Вкл. Д-р	Вкл. доц
112	1	Batchvarova, E. and Yordanov, D., 1988. Theoretical and experimental investigation of the dispersion in the surface layer at sea breeze, In Meteorological aspects of the air pollution, Summary of Collaboration, Leningrad, Gydrometeoizdat, 1988, 42-49. In Russian	1988			
113	2	Batchvarova, E.; Gryning, S.-E., Meteorological measurements, wind climatology, atmospheric turbulence and internal boundary layer development in Athens during the Medcaphot-Trace experiment. Risø-R-877(EN) (1996) 26 p. (D2 42)	1996	х		
114	3	Batchvarova, E.A. and S.-E. Gryning, 1998: Mixing height modelling in coastal areas. In Long-Range Air Pollution: from Models to Policies, Proceedings from the Swedish-Bulgarian Workshop, 19-23 October 1997, Sozopol, Bulgaria, Eds SyrakovD., Batchvarova E. and B. Wiman, 213-218.	1998	х		
115	4	Smedman, A.-S. (ed.); Andersson, T.; Batchvarova, E.; Bumke, K.; Bösenberg, J.; Clemens, M.; Fischer, B.; Gryning, S.-E.; Hennemuth, B.; Hyvönen, R.; Högström, U.; Jacob, D.; Johansson, C.; Kangas, M.; Melas, D.; Michelson, D.B.; Omstedt, A.; Peltomaa, A.; Peters, G.; Rutgersson, A.; Sântti, K.; Tammelin, B., PEP in BALTEX (ENV4-CT97-0484). Final report. Part 1: Summary. (2001) 42 p.	2001			
116	5	Gryning, S.-E.; Batchvarova, E., 2002, Regional fluxes of momentum and sensible heat over a sub-arctic landscape during late winter. In: Problems of atmospheric boundary-layer physics and air pollution. To the 80th birthday of professor M.E. Berlyand. Chicherin, S.S. (ed.), (Hydrometeoizdat, St. Petersburg, 2002) p. 202-215	2002	х		
117	6	Gryning S-E, Batchvarova E., Rotach M.W., Christen A. and Vogt R. (2004). Roof-level SF6 tracer experiments in the city of Basel – Report published in the institute series of IAC-ETH, Heft 83, ISBN 3906 148 31 9,	2004	х		
118	7	Rotach M, Batchvarova E. et al (WG1), Modification of flow and turbulence over urban areas, In COST Action 715 Final Report, 2005, METEOROLOGY APPLIED TO URBAN AIR POLLUTION PROBLEMS, Fisher B, Joffre S, Kukkonen J, Piringer M, Rotach M, Schatzmann M (Eds), ISBN 954-9526-30-5, 27-46.	2005			

119	80	Rotach M, Christen A, Batchvarova E. et al (WG1) Preparation of meteorological input data for urban air pollution models, In COST Action 715 Final Report, 2005, METEOROLOGY APPLIED TO URBAN AIR POLLUTION PRO-BLEMS, Fisher B, Joffre S, Kukkonen J, Piringer M, Rotach M, Schatzmann M (Eds), ISBN 954-9526-30-5, 135-158.	2005			
120	9	Batchvarova E. and Rotach M. W., 2005, Bilateral co-operation on urban boundary-layer studies. Turbulence measurements for urban boundary research in Sofia, In COST Action 715 Final Report, 2005, METEOROLOGY APPLIED TO URBAN AIR POLLUTION PROBLEMS, Fisher B, Joffre S, Kukkonen J, Piringer M, Rotach M, Schatzmann M (Eds), ISBN 954-9526-30-5, 185-188. (D2 6)	2005	x		
121	10	Batchvarova E, Spassova T, Valkov N and Iordanova L, 2005, Atmospheric Chemistry Research in New EU countries – A survey on atmospheric chemistry research and monitoring of air pollution in some new EU Member States and Candidate Countries, Ed Jens Hjort, EUR 21741 EN, Luxembourg: Office for Official Publications of the European Communities, ISBN 92-894-9758-0, 99p.	2005			
122	11	Batchvarova E, T Spassova, N Valkov and L Yordanova, 2006: Measurements and Measurement requirements for Air Quality in Eastern Europe, ACCENT Secretariat, Report 8, 2006, 32-44 .	2006			
123	12	Batchvarova E , (contributing author) 2007, Background and justification document to support the model avaluation guidance and protocol, Britter and Schatzman (Eds), COST Action 732 Quality assurance and improvement of microscale meteorological models, ISBN 3-00-018312-4, 87p	2007			
124	13	Batchvarova E , (contributing author) 2007, Model avaluation guidance and protocol document, Britter and Schatzman (Eds), COST Action 732 Quality assurance and improvement of microscale meteorological models, ISBN 3-00-018312-4, 27p	2007			
125	14	Batchvarova E , (contributing author) 2007, Best practice guideline for the CFD simulation of flows in the urban environment Franke J, Hellsten A., Schlutzen H, Carissimo B (Eds), COST Action 732 Quality assurance and improvement of microscale meteorological models, ISBN 3-00-018312-4, 52p	2007			
126	15	Batchvarova E, Pisoni E, Finzi G, 2007, Long term meteorological mesoscale RAMS simulations over Northern Italy for Air Quality Assessments. Alberigo P., Erbacci G., Garofalo F. and S. Monfardini (eds), HPC-Europa, Science and Supercomputing in Europe, report 2007, Transnational Access, CINECA, Bologna, Italy, p 465-468.	2007			
127	16	Zlatev, Z and Batchvarova E, 2007, Large-Scale Air Pollution Models, In Melas and Paleo eds Regional Transboundary Transport of Air Pollution: An Introductory Science Review, Universidad de Extremadura, Servicio de Publicaciones, ISBN:978-84-7723-784-6, order from, http://www.xente.mundo-r.com/science/transboundary/index.html	2007			
128	17	Batchvarova E, E. Pisoni, and G. Finzi, 2008, Verification of boundary-layer parametrisations in mesoscale meteorological models, HPC Europa ++ 2008, Science and Supercomputing in Europe, report 2008, Transnational Access ISBN 978-88-86037-22-8, Copywrite 2008 CINECA Consorzio Interuniversitario, Edited by Silvia Monfardini – CINECA, Printed by Monograf s.r.l., 287 – 292.	2008			
129	18	Gryning, S.-E.; Batchvarova, E.; Soegaard, H., Aggregation of CO2 fluxes over land. In: Builtjes, P.; Fowler, D.; Feichter, J.; Lewis, A.; Monks, P.; Borrell, P. (eds.), The impact of climate change on air quality. (2008) (ACCENT TTP Report 1, 2008) p. 104-108	2008			
130	19	Gryning, S-E; Batchvarova, E.; Sogaard, H., 2009: Upscaling of mesoscale CO2 fluxes in the convective boundary layer, Presented at: International conference on mesoscale meteorology and air pollution. Odessa (UA), 15-17 Sep., 2008 In: Mesoscale Meteorology and Air Pollution : Selected papers / Ed: Baklanov, A, Odessa: Ecologiya, 156-161.	2009			
131	20	Gryning, S-E; Batchvarova, E, 2009, Measuring Meteorology in Urban Areas : Some Progress and Many Problems In: Overview of Tools and Methods for Meteorological and Air Pollution Mesoscale : COST Action 728. Enhancing mesoscale meteorological modelling capabilities for air pollution and dispersion applications / Editor: Baklanov, Alexander ; Grimmond, Sue ; Mahura, Alexander ; Athanassiadou, Maria - Brussels : COST Office, 2008, 98-103 .	2009			