

AUTHOR INDEX

Anda, A. (Keszthely, Hungary).....	85	Lázár, D. (Budapest, Hungary).....	383
Arsenović, D. (Novi Sad, Serbia).....	283	Lelovics, E. (Szeged, Hungary).....	283
Balczó, M. (Budapest, Hungary).....	199	Major, Gy. (Budapest, Hungary)	353
Bartholy, J. (Budapest, Hungary).....	53, 265	Marković, S.B. (Novi Sad, Serbia)	183
Bihari, Z. (Budapest, Hungary)	41	Marković, V. (Novi Sad, Serbia)	283
Bokwa, A. (Krakow, Poland)	365	Milošević, D. (Novi Sad, Serbia).....	283
Chervenkov, H. (Sofia, Bulgaria).....	315	Molnár, Á. (Veszprém, Hungary).....	163
Czágler, E. (Budapest, Hungary).....	163	Móring, A. (Budapest, Hungary)	127
Csoknyai, T. (Budapest, Hungary)	255	Nyárai, F.H. (Gödöllő, Hungary).....	73
Edelényi, M. (Sopron, Hungary)	127	Pályi, B. (Keszthely, Hungary).....	415
Faragó, T. (Budapest, Hungary).....	1	Párkányi, D. (Budapest, Hungary).....	163
Farkas, I. (Gödöllő, Hungary)	415	Péliné Németh, Cs. (Budapest, Hungary)	53
Ferenczi, Z. (Budapest, Hungary)	267	Petrović, P. (Belgrade, Serbia).....	183
Führer, E. (Sopron, Hungary).....	127	Pintér, G. (Keszthely, Hungary)	415
Gácsér, V. (Veszprém, Hungary)	163	Pongrácz, R. (Budapest, Hungary)	53
Gál, Cs.V. (Chicago, USA)	283	Pödör, Z. (Sopron, Hungary)	127
Gál, T. (Szeged, Hungary).....	283	Rácz, N. (Budapest, Hungary)	231
Gavrilov, M.B. (Novi Sad, Serbia).....	183	Radics, K. (Budapest, Hungary)	53
Gulyás, Á. (Szeged, Hungary).....	283	Rózsás, Á. (Budapest, Hungary).....	103
Gyulai, I. (Debrecen, Hungary).....	301	Savić, S. (Novi Sad, Serbia)	283
Hammer, T. (Veszprém, Hungary).....	331	Simon, E. (Debrecen, Hungary).....	301
Hegedűsné Baranyai, N. (Keszthely, Hungary)	415	Skowera, B. (Krakow, Poland)	365
Horváth, Cs. (Gödöllő, Hungary).....	73	Slavov, K. (Sofia, Bulgaria).....	315
Horváth, L. (Budapest, Hungary).....	127	Soós, G. (Keszthely, Hungary)	85
Horváth, M. (Budapest, Hungary).....	255	Sýkora, M. (Prague, Czech Republic)	103
Ihász, I. (Budapest, Hungary).....	383	Szabados, I. (Budapest, Hungary)	127
Imre, K. (Keszthely, Hungary).....	163, 267	Szalai, S. (Gödöllő, Hungary).....	41
Jagodics, A. (Sopron, Hungary)	127	Szentimrey, T. (Budapest, Hungary)	41
Jereb, L. (Sopron, Hungary)	127	Tarnawa, Á. (Gödöllő, Hungary).....	73
Jolánkai, M. (Gödöllő, Hungary)	73	Tomczyk, A.M. (Poznań, Poland)	395
Kassai, K. (Gödöllő, Hungary).....	73	Tomor, A. (Budapest, Hungary)	199
Kern, Z. (Budapest, Hungary)	127	Tošić, I. (Belgrade, Serbia).....	183
Kopcińska J.J. (Krakow, Poland)	365	Tóthmérész, B. (Debrecen, Hungary).....	301
Kovács, N. (Budapest, Hungary).....	103	Trájer, A. (Veszprém, Hungary).....	331
Kristóf, G. (Budapest, Hungary)	231	Unger, J. (Szeged, Hungary).....	283
Kundrát, J.T. (Debrecen, Hungary)	301	Unkašević, M. (Belgrade, Serbia).....	183
Lakatos, Gy. (Debrecen, Hungary).....	301	Veszélka, M. (Keszthely, Hungary).....	415
Lakatos, M. (Budapest, Hungary)	41	Zsiborács, H. (Keszthely, Hungary)	415

TABLE OF CONTENTS

I. Papers

<i>Anda, A. and Soós, G.: Some physiological responses of agricultural crops to global warming.....</i>	85	<i>Chervenkov, H. and Slavov, K.: Comparison of simulated and objectively analyzed distribution patterns of snow water equivalent over the Carpathian Region</i>	315
<i>Balczó, M. and Tomor, A.: Wind tunnel and CFD study of wind conditions in an urban square</i>	199		

<i>Faragó, T.</i> : The anthropogenic climate change hazard: role of precedents and the increasing science-policy gap.....	1	<i>Lelovics, E., Unger, J., Savić, S., Gál, T., Milošević, D., Gulyás, Á., Marković, V., Arsenović, D. and Gál, Cs.V.</i> : Intra-urban temperature observations in two Central European cities: a summer study	283
<i>Ferenczi, Z. and Imre, K.</i> : Overview of the tropospheric ozone problem: formation, measurements, trends, and impacts (Hungarian specialties)	267	<i>Major, Gy.</i> : An interpretation of the measured planetary radiation imbalance	353
<i>Führer, E., Edelényi, M., Horváth, L., Jagodics, A., Jereb, L., Kern, Z., Moring, A., Szabados, I., and Pödör, Z.</i> : Effect of weather conditions on annual and intra-annual basal area increments of a beech stand in Sopron Mountains in Hungary.....	127	<i>Molnár, Á., Párkányi, D., Imre, K., Gácser, V., and Czágler, E.</i> : A closure study on aerosol extinction in urban air, Hungary	163
<i>Gavrilov, M.B., Tošić, I., Marković, S.B., Unkašević, M. and Petrović, P.</i> : The analysis of annual and seasonal temperature trends using the Mann-Kendall test in Vojvodina, Serbia	183	<i>Péliné Németh, Cs., Bartholy, J., Pongrácz, R., and Radics, K.</i> : Analysis of climate change influences on the wind characteristics in Hungary	53
<i>Horváth, M. and Csoknyai, T.</i> : Correlation analysis of tilted and horizontal photovoltaic panel's electricity generation and horizontal global radiation.....	255	<i>Rácz, N. and Kristóf, G.</i> : Implementation and validation of a bulk microphysical model of moisture transport in a pressure based CFD solver	231
<i>Jolánkai, M., Tarnawa, Á., Horváth, Cs., Nyárai, F.H. and Kassai, K.</i> : Impact of climatic factors on yield quantity and quality of grain crops	73	<i>Rózsás, Á., Kovács, N., Vigh, L.G., and Sýkora, M.</i> : Climate change effects on structural reliability in the Carpathian region.....	103
<i>Kundrát, J.T., Simon, E., Gyulai, I., Lakatos, Gy., and Tóthmérész, B.</i> : Short-term weather fluctuation and quality assessment of oxbows	301	<i>Skowera, B., Kopcińska J.J., and Bokwa, A.</i> : Changes in the structure of days with precipitation in Southern Poland in 1971–2010	365
<i>Lakatos, M., Bihari, Z., Szentimrey, T., and Szalai, S.</i> : Analyses of temperature extremes in the Carpathian Region in the period 1961–2010.....	41	<i>Tomczyk, A.M.</i> : Impact of atmospheric circulation on the occurrence of heat waves in southeastern Europe.....	395
<i>Lázár, D. and Ihász, I.</i> : Potential benefit of the ensemble forecasts in case of heavy convective weather situations...	383	<i>Trájer, A. and Hammer, T.</i> : Climate-based seasonality model of temperate malaria based on the epidemiological data of 1927–1934, Hungary	331
		<i>Zsiborács, H., Pályi, B., Hegedűsné Baranyai, N., Veszeka M., Farkas, I., and Pintér, G.</i> : Energy performance of the cooled amorphous silicon photovoltaic (PV) technology.....	415

II. News

<i>Bartholy, J.</i> : In memoriam István Matyasovszky.....	265
--	-----

SUBJECT INDEX

A

adiabatic process 231
 accumulated amount of ozone (AOT40) 267
 acidification 1
 aerosol
 - composition 163
 - extinction 163
 air quality
 - ambient 267
 - urban 163
 agriculture 73, 85, 365
 ambient air quality 267
 anthropogenic climate change 1
 archive data 331
 atmospheric circulation 395

B

basal area increment 127
 Bayesian statistics 103
 beech 127
 breakpoint analysis 127
 Bulgaria 315

C

CARPATCLIM 41, 53, 315
 carbonation of concrete 103
 Carpathian Region 41, 103, 315
 chemical parameters of water 301
 climate
 - change 1, 41, 53, 85, 103, 127, 331, 301, 283, 365, 395
 - indices 41
 - local zones 283
 - modeling 53, 315
 - monitoring 283
 civil engineering 103
 climatic factors 73
 coefficient
 - extinction 163
 computational fluid dynamics 231, 199
 concrete carbonation 103
 convection 383
 convective available potential energy 383

correlation analysis 255
 crop production 73, 85
 Czech Republic 103

D

degradation 301
 depletion, ozone layer 1
 drought index 301
 durability 103

E

electricity
 - daily courses 255
 - production 255
 emerge vegetation 301
 energy
 - performance 255
 - renewable 415
 engineering, civil 103
 ensemble
 - timeline diagram 383
 - vertical profile 383
 environmental precedence 1
 epidemiology 331
 evaluation
 - breakpoint analysis 127
 - multivariate regression 127
 extinction coefficient 163
 extremes
 - temperature 41
 - wind 53

F

flow field, urban 199
 fluctuations, short-term 301
 formula
 - IMPROVE 163

G

global radiation	255
grain crops	73
ground-level ozone	267

H

Habsburg Empire	331
heat waves	395
homogeneity	41, 53
humidity transport	231
Hungary	41, 53, 73, 163, 127, 255, 199, 331, 267, 301, 283, 103, 383, 415

I

index	
- climate	41
- drought	301

L

local climate zones	283
long term data series	41, 53, 127, 183, 267

M

maize	85
malaria	331
measurements	
- on-site	255
- satellite	353
- tropospheric ozone	267
- urban climate	283
model	
- crop microclimate	85
- fluid dynamics	231, 199
- microphysical bulk	231
- microscale	199
- MISKAM	199
- non-stationary	103
- RegCM	53, 315
modeling	
- crop microclimate	85

- mesoscale meteorological effects	231
- microscale	199
- multi-scale	231
- regional climate	53, 315
monitoring	
- on-site	255
- tropospheric ozone	267
- urban climate	283
multivariate regression	127

N

non-stationary models	103
Novi Sad	283
numerical simulation	315

O

ozone	
- ground-level	267
- layer depletion	1
- measurements	267
- trend	267
oxbow	301

P

phase change	231
photovoltaic panels	415
- tilt angle	255
- energy performance	255, 415
physiological processes	85
planetary imbalance	353
Plasmodium parasites	331
PM ₁₀	163
Poland	365, 395
policy, climate change	1
precipitation	365
pressure conditions	395
probabilistic analysis	103
probability charts	383
production	127

R			
radiation budget	353	- ozone, ground-level	267
reconstruction of extinction		- temperature	183
coefficient	163	TSI (total solar irradiance)	353
regression analysis	127		
reliability	103	U	
relative humidity	383	urban	
renewable energy	415	- air	163
response time	353	- climate	283
		- flow field	199
		- intra- and interurban climate	
S		monitoring	283
satellite		- wind tunnel testing	199
- measurements	353		
- radiation budget	353		
science-policy gap	1	V	
seasonality	331	vegetation	267
Serbia	183, 283	- emerge	301
snow		- submerge	301
- action	103	vertical profile	383
- depth	315		
snow water equivalent	315		
solar		W	
- energy	415	water	
- irradiation	353	- physico-chemical parameters	301
southeastern Europe	395	- resource	365
submerge vegetation	301	weather	
summer	283	- change	301
Szeged	283	- early warning	383
		- short-term fluctuation	301
T		wet	
temperate climate	331	- adiabatic process	231
temperature		- cooling tower plume	231
- annual and seasonal trends	183	wind	
- cooling and heating	415	- climate	53
- extremes	41	- conditions in an urban square	199
test		- shear	383
- t-test	127	- tunnel	199
- Mann-Kendall test	183	WRF model	197, 215, 277, 307
thermal rising	231		
timeline diagram	383	Z	
Tisza river	331, 283	zone	
transport, humidity	231	- local urban climate	283
trend			
- humidity	231		
- precipitation	365		