

Kostas D Karatzas

List of Publications by Year in descending order

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102
papers

2,390
citations

304743

22
h-index

233421

45
g-index

109
all docs

109
docs citations

109
times ranked

3158
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of operational, regional-scale, chemical weather forecasting models in Europe. Atmospheric Chemistry and Physics, 2012, 12, 1-87.	4.9	265
2	Intercomparison of air quality data using principal component analysis, and forecasting of PM10 and PM2.5 concentrations using artificial neural networks, in Thessaloniki and Helsinki. Science of the Total Environment, 2011, 409, 1266-1276.	8.0	204
3	Assessment of air quality microsensors versus reference methods: The EuNetAir joint exercise. Atmospheric Environment, 2016, 147, 246-263.	4.1	182
4	Data-based method for creating electricity use load profiles using large amount of customer-specific hourly measured electricity use data. Applied Energy, 2010, 87, 3538-3545.	10.1	172
5	Citizen science and sustainability transitions. Research Policy, 2020, 49, 103978.	6.4	117
6	Feasibility of energy saving renovation measures in urban buildings. Energy and Buildings, 2002, 34, 455-466.	6.7	116
7	PM10 forecasting for Thessaloniki, Greece. Environmental Modelling and Software, 2006, 21, 559-565.	4.5	105
8	Assessment of air quality microsensors versus reference methods: The EuNetAir Joint Exercise " Part II. Atmospheric Environment, 2018, 193, 127-142.	4.1	72
9	Statistical analysis of environmental data as the basis of forecasting: an air quality application. Science of the Total Environment, 2002, 288, 227-237.	8.0	66
10	Airborne pollen in three European cities: Detection of atmospheric circulation pathways by applying three-dimensional clustering of backward trajectories. Journal of Geophysical Research, 2010, 115, .	3.3	57
11	Monitoring the long-range transport effects on urban PM10 levels using 3D clusters of backward trajectories. Atmospheric Environment, 2011, 45, 2630-2641.	4.1	54
12	Air pollution modelling with the aid of computational intelligence methods in Thessaloniki, Greece. Simulation Modelling Practice and Theory, 2007, 15, 1310-1319.	3.8	52
13	Forecasting daily pollen concentrations using data-driven modeling methods in Thessaloniki, Greece. Atmospheric Environment, 2010, 44, 5101-5111.	4.1	49
14	New European Academy of Allergy and Clinical Immunology definition on pollen season mirrors symptom load for grass and birch pollen-induced allergic rhinitis. Allergy: European Journal of Allergy and Clinical Immunology, 2018, 73, 1851-1859.	5.7	44
15	Assessing the impact of the New Athens airport to urban air quality with contemporary air pollution models. Atmospheric Environment, 1997, 31, 1497-1511.	4.1	39
16	Fusion of meteorological and air quality data extracted from the web for personalized environmental information services. Environmental Modelling and Software, 2015, 64, 143-155.	4.5	39
17	Monitoring, Modelling and Forecasting of the Pollen Season. , 2013, , 71-126.		39
18	Pollen season is reflected on symptom load for grass and birch pollen-induced allergic rhinitis in different geographic areas"An EAACI Task Force Report. Allergy: European Journal of Allergy and Clinical Immunology, 2020, 75, 1099-1106.	5.7	34

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19	The patient's hay-fever diary: three years of results from Germany. <i>Aerobiologia</i> , 2014, 30, 1-11.	1.7	32
20	A modelling study of an extraordinary night time ozone episode over Madrid domain. <i>Environmental Modelling and Software</i> , 2005, 20, 587-593.	4.5	30
21	Predicting daily ragweed pollen concentrations using Computational Intelligence techniques over two heavily polluted areas in Europe. <i>Science of the Total Environment</i> , 2014, 476-477, 542-552.	8.0	28
22	Personalized pollen-related symptom-forecast information services for allergic rhinitis patients in Europe. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2013, 68, 963-965.	5.7	27
23	Interactions of Physical, Chemical, and Biological Weather Calling for an Integrated Approach to Assessment, Forecasting, and Communication of Air Quality. <i>Ambio</i> , 2012, 41, 851-864.	5.5	26
24	Analysis and forecasting of airborne pollen-induced symptoms with the aid of computational intelligence methods. <i>Aerobiologia</i> , 2013, 29, 175-185.	1.7	21
25	Review of low-cost sensors for indoor air quality: Features and applications. <i>Applied Spectroscopy Reviews</i> , 2022, 57, 747-779.	6.7	21
26	Providing multi-modal access to environmental data—customizable information services for disseminating urban air quality information in APNEE. <i>Computers, Environment and Urban Systems</i> , 2002, 26, 39-61.	7.1	20
27	A European open access chemical weather forecasting portal. <i>Atmospheric Environment</i> , 2011, 45, 6917-6922.	4.1	20
28	Computational validation of the recently proposed pollen season definition criteria. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2018, 73, 5-7.	5.7	20
29	The evaluation of pollen concentrations with statistical and computational methods on rooftop and on ground level in Vienna — How to include daily crowd-sourced symptom data. <i>World Allergy Organization Journal</i> , 2019, 12, 100036.	3.5	20
30	Informing the public about atmospheric quality: air pollution and pollen. <i>Allergo Journal</i> , 2009, 18, 212-217.	0.1	16
31	Personalized symptoms forecasting for pollen-induced allergic rhinitis sufferers. <i>International Journal of Biometeorology</i> , 2015, 59, 889-897.	3.0	15
32	COST ES0602: towards a European network on chemical weather forecasting and information systems. <i>Advances in Science and Research</i> , 2009, 3, 27-33.	1.0	14
33	Sparse episode identification in environmental datasets: The case of air quality assessment. <i>Expert Systems With Applications</i> , 2011, 38, 5019-5027.	7.6	13
34	Revisiting urban air quality forecasting: a regression approach. <i>Vietnam Journal of Computer Science</i> , 2018, 5, 177-184.	1.2	13
35	Google Trends reflect allergic rhinitis symptoms related to birch and grass pollen seasons. <i>Aerobiologia</i> , 2018, 34, 437-444.	1.7	12
36	Analyzing and Improving the Performance of a Particulate Matter Low Cost Air Quality Monitoring Device. <i>Atmosphere</i> , 2021, 12, 251.	2.3	12

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37	A Conceptual Model of Measurement Uncertainty in IoT Sensor Networks. <i>Sensors</i> , 2021, 21, 1827.	3.8	12
38	Learning Calibration Functions on the Fly: Hybrid Batch Online Stacking Ensembles for the Calibration of Low-Cost Air Quality Sensor Networks in the Presence of Concept Drift. <i>Atmosphere</i> , 2022, 13, 416.	2.3	12
39	Identification of major components for integrated urban air quality management and information systems via user requirements prioritisation. <i>Environmental Modelling and Software</i> , 2003, 18, 173-178.	4.5	11
40	Understanding and forecasting atmospheric quality parameters with the aid of ANNs. , 2008, , .		11
41	Using data-mining techniques for PM₁₀ forecasting in the metropolitan area of Thessaloniki, Greece. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007, , .	0.0	10
42	Presentation and Dissemination of Pollen Information. , 2013, , 217-247.		10
43	Modelling of household electricity consumption with the aid of computational intelligence methods. <i>Advances in Building Energy Research</i> , 2018, 12, 84-96.	2.3	10
44	ARTIFICIAL INTELLIGENCE APPLICATIONS IN THE ATMOSPHERIC ENVIRONMENT: STATUS AND FUTURE TRENDS. <i>Environmental Engineering and Management Journal</i> , 2010, 9, 171-180.	0.6	10
45	Development of a hierarchical system for the teletransmission of environmental and energy data. <i>Telematics and Informatics</i> , 2000, 17, 239-249.	5.8	9
46	URBAN AIR QUALITY MANAGEMENT AND INFORMATION SYSTEMS IN EUROPE: LEGAL FRAMEWORK AND INFORMATION ACCESS. <i>Journal of Environmental Assessment Policy and Management</i> , 2000, 02, 263-272.	7.9	9
47	Environmental data extraction from multimedia resources. , 2012, , .		9
48	Pollen season identification for three pollen taxa in Thessaloniki, Greece: a 30-year retrospective analysis. <i>Aerobiologia</i> , 2019, 35, 659-669.	1.7	9
49	The development of birch pollen seasons over 30 years in Munich, Germany – An EAACI Task Force report*. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 3024-3026.	5.7	9
50	The air quality Model Documentation System of the European Environment Agency. <i>International Journal of Environment and Pollution</i> , 2000, 14, 10.	0.2	8
51	Title is missing!. <i>Environmental Monitoring and Assessment</i> , 2000, 65, 451-458.	2.7	8
52	Preservation of environmental characteristics as witnessed in classic and modern literature: the case of Greece. <i>Science of the Total Environment</i> , 2000, 257, 213-218.	8.0	8
53	Investigation and Forecasting of the Common Air Quality Index in Thessaloniki, Greece. <i>International Federation for Information Processing</i> , 2012, , 390-400.	0.4	8
54	Evaluation of an attached sunspace without sun protection: How feasible is this approach in mediterranean summer conditions?. <i>International Journal of Solar Energy</i> , 2002, 22, 93-104.	0.2	7

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55	Correlation of air pollution and meteorological data using neural networks. International Journal of Environment and Pollution, 2003, 20, 218.	0.2	7
56	Web-based tools for environmental management. Management of Environmental Quality, 2001, 12, 356-363.	0.4	6
57	Computational intelligence methods for rolling bearing fault detection. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 1565-1574.	1.6	6
58	Participatory Environmental Sensing for Quality of Life Information Services. Environmental Science and Engineering, 2011, , 123-133.	0.2	6
59	Chapter Fourteen Computational Air Quality Modelling. Developments in Integrated Environmental Assessment, 2008, 3, 247-267.	0.0	5
60	A model for environmental data extraction from multimedia and its evaluation against various chemical weather forecasting datasets. Ecological Informatics, 2014, 23, 69-82.	5.2	5
61	Investigating the Relationship between Social Media Content and Real-time Observations for Urban Air Quality and Public Health. , 2014, , .		5
62	Internet-Based Management of Environmental Simulation Tasks. , 2005, , 253-262.		5
63	A New Environmental Image Processing Method for Chemical Weather Forecasts in Europe. Environmental Science and Engineering, 2011, , 781-791.	0.2	5
64	Using Preprocessing Techniques in Air Quality forecasting with Artificial Neural Networks. Environmental Science and Engineering, 2009, , 357-372.	0.2	5
65	Air Quality Sensors Systems as Tools to Support Guidance in Athletics Stadia for Elite and Recreational Athletes. International Journal of Environmental Research and Public Health, 2022, 19, 3561.	2.6	5
66	Machine learning for groundwater pollution source identification and monitoring network optimization. Neural Computing and Applications, 2022, 34, 19515-19545.	5.6	5
67	Getting the environmental information across: from the Web to the user. Expert Systems, 2015, 32, 405-432.	4.5	4
68	An Ontology-Based Decision Support Framework for Personalized Quality of Life Recommendations. Lecture Notes in Business Information Processing, 2018, , 38-51.	1.0	4
69	Extraction of Environmental Data from On-Line Environmental Information Sources. International Federation for Information Processing, 2012, , 361-370.	0.4	4
70	Environmental Information Systems and the Concept of Environmental Informatics. Advanced Information and Knowledge Processing, 2004, , 3-9.	0.3	4
71	Urban Environmental Information Perception and Multimodal Communication: The Air Quality Example. Lecture Notes in Computer Science, 2009, , 288-299.	1.3	4
72	Investigating weekend air quality observations with the aid of Fourier analysis in Athens, Greece. International Journal of Environment and Pollution, 2003, 19, 171.	0.2	3

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73	Environmental data extraction from heatmaps using the AirMerge system. Multimedia Tools and Applications, 2016, 75, 1589-1613.	3.9	3
74	Adaptation of an ANN-Based Air Quality Forecasting Model to a New Application Area. Studies in Computational Intelligence, 2017, , 479-488.	0.9	3
75	Is on field calibration strategy robust to relocation?. , 2017, , .		3
76	Assessing the Relocation Robustness of on Field Calibrations for Air Quality Monitoring Devices. Lecture Notes in Electrical Engineering, 2018, , 303-312.	0.4	3
77	An Experimental Evaluation of ZCS-DM for the Prediction of Urban Air Quality. Environmental Science and Engineering, 2009, , 291-304.	0.2	3
78	A European Chemical Weather Forecasting Portal. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 239-243.	0.2	3
79	Personalized Environmental Service Orchestration for Quality of Life Improvement. International Federation for Information Processing, 2012, , 351-360.	0.4	3
80	Forecasting airborne pollen concentration of Poaceae (Grass) and Oleaceae (Olive), using Artificial Neural Networks and Genetic algorithms, in Thessaloniki, Greece. , 2010, , .		2
81	Deep Learning Modeling of Groundwater Pollution Sources. Proceedings of the International Neural Networks Society, 2021, , 165-177.	0.6	2
82	Urban Air Quality Forecasting: A Regression and a Classification Approach. Lecture Notes in Computer Science, 2017, , 539-548.	1.3	2
83	Understanding and Forecasting Air Pollution with the Aid of Artificial Intelligence Methods in Athens, Greece. Studies in Computational Intelligence, 2009, , 37-50.	0.9	2
84	Investigating Pollen Data with the Aid of Fuzzy Methods. Lecture Notes in Computer Science, 2010, , 464-470.	1.3	2
85	A New Feature Selection Methodology for Environmental Modelling Support: The Case of Thessaloniki Air Quality. IFIP Advances in Information and Communication Technology, 2017, , 61-70.	0.7	2
86	Citizens in the Loop for Air Quality Monitoring in Thessaloniki, Greece. Progress in IS, 2021, , 121-130.	0.6	2
87	Five ways to define a pollen season: exploring congruence and disparity in its attributes and their long-term trends. Aerobiologia, 2022, 38, 71-83.	1.7	2
88	A multimedia application for EIA studies. IEEE MultiMedia, 2001, 8, 71-75.	1.7	1
89	Tunnel fire smoke modelling for emergency management. International Journal of Risk Assessment and Management, 2003, 4, 52.	0.1	1
90	Application of Computational Intelligence to the Analysis of Friction Measurements. Tribology Transactions, 2010, 53, 748-754.	2.0	1

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91	A Generic Preprocessing Optimization Methodology when Predicting Time-Series Data. International Journal of Computational Intelligence Systems, 2016, 9, 638-651.	2.7	1
92	Software Architectures for Distributed Environmental Modeling. IFIP Advances in Information and Communication Technology, 2011, , 255-260.	0.7	1
93	Smaller Scale Modelling of Air Pollutant Transport, Transformation and Deposition in Europe. , 1997, , 73-120.		1
94	Atmospheric Environment and Quality of Life Information Extraction from Twitter with the Use of Self-Organizing Maps. Journal of Environmental Informatics, 0, , .	6.0	1
95	Decision Processes Based on IoT Data for Sustainable Smart Cities. Lecture Notes in Computer Science, 2018, , 136-146.	1.3	1
96	On the influence of sea-surface temperature on mesoscale flows: an example from the city of Athens. International Journal of Environment and Pollution, 2002, 18, 85.	0.2	0
97	Effect of Long-Range Transport on Urban PM10 Levels. Epidemiology, 2009, 20, S97.	2.7	0
98	Outdoor air pollution and ischemic stroke severity: An ecological study in Thessaloniki. Atherosclerosis, 2016, 252, e22.	0.8	0
99	Guest Editorial: Environmental Multimedia Retrieval. Multimedia Tools and Applications, 2016, 75, 1557-1562.	3.9	0
100	Predicting QoL Parameters for the Atmospheric Environment in Athens, Greece. Lecture Notes in Computer Science, 2010, , 457-463.	1.3	0
101	Investigation of Medication Dosage Influences from Biological Weather. International Federation for Information Processing, 2011, , 481-490.	0.4	0
102	Air Pollution Due to Central Heating of a City-Centered University Campus. Progress in IS, 2022, , 117-133.	0.6	0