

# Ferhat Karaca

## List of Publications by Year in descending order

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73  
papers

2,203  
citations

304743

22  
h-index

233421

45  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2733  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing air quality changes in large cities during COVID-19 lockdowns: The impacts of traffic-free urban conditions in Almaty, Kazakhstan. <i>Science of the Total Environment</i> , 2020, 730, 139179.	8.0	314
2	Particulate Matter (PM <sub>2.5</sub> , PM <sub>10-2.5</sub> , and PM <sub>10</sub> ) and Children's Hospital Admissions for Asthma and Respiratory Diseases: A Bidirectional Case-Crossover Study. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2008, 71, 512-520.	2.3	196
3	Long-range potential source contributions of episodic aerosol events to PM <sub>10</sub> profile of a megacity. <i>Atmospheric Environment</i> , 2009, 43, 5713-5722.	4.1	123
4	An online air pollution forecasting system using neural networks. <i>Environment International</i> , 2008, 34, 592-598.	10.0	111
5	Impact of COVID-19 Event on the Air Quality in Iran. <i>Aerosol and Air Quality Research</i> , 2020, 20, 1793-1804.	2.1	103
6	Statistical characterization of atmospheric PM <sub>10</sub> and PM <sub>2.5</sub> concentrations at a non-impacted suburban site of Istanbul, Turkey. <i>Chemosphere</i> , 2005, 59, 1183-1190.	8.2	102
7	How is COVID-19 Experience Transforming Sustainability Requirements of Residential Buildings? A Review. <i>Sustainability</i> , 2020, 12, 8732.	3.2	102
8	Effect of Meteorological Parameters on Fine and Coarse Particulate Matter Mass Concentration in a Coal-Mining Area in Zonguldak, Turkey. <i>Journal of the Air and Waste Management Association</i> , 2008, 58, 543-552.	1.9	87
9	NN-LEAP: A neural network-based model for controlling leachate flow-rate in a municipal solid waste landfill site. <i>Environmental Modelling and Software</i> , 2006, 21, 1190-1197.	4.5	76
10	Distant source contributions to PM <sub>10</sub> profile evaluated by SOM based cluster analysis of air mass trajectory sets. <i>Atmospheric Environment</i> , 2010, 44, 892-899.	4.1	63
11	A Comprehensive Construction and Demolition Waste Management Model using PESTEL and 3R for Construction Companies Operating in Central Asia. <i>Sustainability</i> , 2019, 11, 1593.	3.2	53
12	Construction professionals' perspectives on drivers and barriers of sustainable construction. <i>Environment, Development and Sustainability</i> , 2020, 22, 4361-4378.	5.0	45
13	Prediction of sources of metal pollution in rainwater in Istanbul, Turkey using factor analysis and long-range transport models. <i>Atmospheric Research</i> , 2010, 95, 55-64.	4.1	41
14	Circular Economy: Challenges and Opportunities in the Construction Sector of Kazakhstan. <i>Buildings</i> , 2021, 11, 501.	3.1	39
15	ATR-FTIR Spectroscopic Study of Functional Groups in Aerosols: The Contribution of a Saharan Dust Transport to Urban Atmosphere in Istanbul, Turkey. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	38
16	Metallic composition and source apportionment of fine and coarse particles using positive matrix factorization in the southern Black Sea atmosphere. <i>Atmospheric Research</i> , 2012, 118, 153-169.	4.1	37
17	Ragweed pollen observed in Turkey: Detection of sources using back trajectory models. <i>Science of the Total Environment</i> , 2012, 430, 101-108.	8.0	37
18	Soil Contamination in Areas Impacted by Military Activities: A Critical Review. <i>Sustainability</i> , 2020, 12, 9002.	3.2	36

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19	Mapping the corrosion impact of air pollution on the historical peninsula of Istanbul. <i>Journal of Cultural Heritage</i> , 2013, 14, 129-137.	3.3	33
20	Readiness Assessment of Green Building Certification Systems for Residential Buildings during Pandemics. <i>Sustainability</i> , 2021, 13, 460.	3.2	32
21	Determination of Heavy Metal Pollution in Zonguldak (Turkey) by Moss Analysis (<i>Hypnum) Tj ETQq1 1 0.784314 rrgBT /Overlock 10	1.6	28
22	Circularity assessment tool development for construction projects in emerging economies. <i>Journal of Cleaner Production</i> , 2022, 362, 132293.	9.3	26
23	A new stakeholder opinion-based rapid sustainability assessment method (RSAM) for existing residential buildings. <i>Sustainable Cities and Society</i> , 2020, 60, 102155.	10.4	25
24	An AHP-based indoor Air Pollution Risk Index Method for cultural heritage collections. <i>Journal of Cultural Heritage</i> , 2015, 16, 352-360.	3.3	23
25	A toxicological and genotoxicological indexing study of ambient aerosols (PM2.5-10) using in vitro bioassays. <i>Chemosphere</i> , 2017, 174, 490-498.	8.2	21
26	NN-AirPol: a neural-networks-based method for air pollution evaluation and control. <i>International Journal of Environment and Pollution</i> , 2006, 28, 310.	0.2	18
27	Seasonal Variation of Source Contributions to Atmospheric Fine and Coarse Particles at Suburban Area in Istanbul, Turkey. <i>Environmental Engineering Science</i> , 2008, 25, 767-782.	1.6	18
28	Determination of air quality zones in Turkey. <i>Journal of the Air and Waste Management Association</i> , 2012, 62, 408-419.	1.9	18
29	Effects of transport patterns on chemical composition of sequential rain samples: trajectory clustering and principal component analysis approach. <i>Air Quality, Atmosphere and Health</i> , 2017, 10, 1193-1206.	3.3	18
30	Assessment of Green Practices in Residential Buildings: A Survey-Based Empirical Study of Residents in Kazakhstan. <i>Sustainability</i> , 2018, 10, 4383.	3.2	17
31	Evaluation of the Environmental Performance of Residential Building Envelope Components. <i>Energies</i> , 2020, 13, 174.	3.1	17
32	A comparative analysis framework for assessing the sustainability of a combined water and energy infrastructure. <i>Technological Forecasting and Social Change</i> , 2015, 90, 456-468.	11.6	16
33	Different stakeholders' opinions toward the sustainability of common textile wastewater treatment technologies in Turkey: A Case study Istanbul province. <i>Sustainable Cities and Society</i> , 2018, 42, 194-205.	10.4	16
34	Spatiotemporal Variations and Contributing Factors of Air Pollutants in Almaty, Kazakhstan. <i>Aerosol and Air Quality Research</i> , 2020, 20, 1340-1352.	2.1	16
35	Stakeholder based weights of new sustainability indicators providing pandemic resilience for residential buildings. <i>Sustainable Cities and Society</i> , 2021, 75, 103300.	10.4	15
36	Effects of the residential built environment on remote work productivity and satisfaction during COVID-19 lockdowns: An analysis of workers' perceptions. <i>Building and Environment</i> , 2022, 219, 109234.	6.9	15

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37	Mercury (Hg) Contaminated Sites in Kazakhstan: Review of Current Cases and Site Remediation Responses. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8936.	2.6	14
38	Which qualities should built environment possess to ensure satisfaction of higher-education students with remote education during pandemics?. <i>Building and Environment</i> , 2022, 207, 108567.	6.9	13
39	Legislative, Institutional, Industrial and Governmental Involvement in Circular Economy in Central Asia: A Systematic Review. <i>Sustainability</i> , 2022, 14, 8064.	3.2	13
40	Trends and health impacts of major urban air pollutants in Kazakhstan. <i>Journal of the Air and Waste Management Association</i> , 2020, 70, 1148-1164.	1.9	12
41	Assessment of the association between dust storms and COVID-19 infection rate in southwest Iran. <i>Environmental Science and Pollution Research</i> , 2022, 29, 36392-36411.	5.3	12
42	Application of Inductive Learning: Air Pollution Forecast in Istanbul, Turkey. <i>Intelligent Automation and Soft Computing</i> , 2005, 11, 207-216.	2.1	11
43	Single infrastructure utility provision to households: Technological feasibility study. <i>Futures</i> , 2013, 49, 35-48.	2.5	11
44	Physicochemical and morphological characterization of atmospheric coarse particles by SEM/EDS in new urban central districts of a megacity. <i>Environmental Science and Pollution Research</i> , 2019, 26, 24020-24033.	5.3	11
45	Household Water and Energy Consumption Changes during COVID-19 Pandemic Lockdowns: Cases of the Kazakhstani Cities of Almaty, Shymkent, and Atyrau. <i>Buildings</i> , 2021, 11, 663.	3.1	11
46	City blood: A visionary infrastructure solution for household energy provision through water distribution networks. <i>Energy</i> , 2013, 61, 98-107.	8.8	10
47	Adoption of Green Building Assessment Systems to Existing Buildings under Kazakhstani Conditions. <i>Buildings</i> , 2021, 11, 325.	3.1	10
48	Analysis of the impacts of atmospheric circulation patterns on the regional air quality over the geographical center of the Eurasian continent. <i>Atmospheric Research</i> , 2020, 237, 104858.	4.1	9
49	Ground level ozone exposure and distribution over the historical Peninsula of Istanbul. <i>Journal of Cultural Heritage</i> , 2012, 13, 69-76.	3.3	8
50	Indicator rating methodology for Rapid Sustainability Assessment Method (RSAM) for existing residential buildings using opinions of residents. <i>MethodsX</i> , 2020, 7, 101105.	1.6	7
51	The evaluation of the effect of air pollution on the health status of children in Zonguldak City, Turkey. <i>International Journal of Environment and Pollution</i> , 2009, 39, 352.	0.2	6
52	Environmental Partitioning, Spatial Distribution, and Transport of Atmospheric Mercury (Hg) Originating from a Site of Former Chlor-Alkali Plant. <i>Atmosphere</i> , 2021, 12, 275.	2.3	6
53	Evaluation of Statistical Distribution Characteristics of the Metallic Compositions of PM2.5 and PM10 Particles in BÄ¼yÄ¼kÄ¼sekmece Watershed Atmosphere. <i>Ekoloji</i> , 2008, 17, 33-42.	0.4	6
54	Ä°stanbul'a Uzun Mesafeli Atmosferik TaÄ¼nÄ¼m Etkilerinin AraÄ¼tÄ¼rÄ¼lmesi: Solunabilen PartikÄ¼l Madde EpizotlarÄ¼. <i>Ekoloji</i> , 2009, 19, 86-97.	0.4	6

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55	Radiotracer method to study the transport of mercury(II)chloride from water to sediment and air. Journal of Radioanalytical and Nuclear Chemistry, 2004, 259, 223-226.	1.5	5
56	Rethinking Future of Utilities: Supplying All Services through One Sustainable Utility Infrastructure. Environmental Science & Technology, 2012, 46, 5271-5272.	10.0	5
57	Assessment of Distribution of Potentially Toxic Elements in Different Environmental Media Impacted by a Former Chlor-Alkali Plant. Sustainability, 2021, 13, 13829.	3.2	5
58	Rising environmental awareness in Central Asia: an empirical study from Nursultan, Kazakhstan. International Journal of Environment and Pollution, 2019, 66, 276.	0.2	4
59	Assessment of sustainability indicators for urban water infrastructure in a developing country. International Journal of Building Pathology and Adaptation, 2021, , .	1.3	4
60	Potential Human Exposure to Mercury (Hg) in a Chlor-Alkali Plant Impacted Zone: Risk Characterization Using Updated Site Assessment Data. Sustainability, 2021, 13, 13816.	3.2	4
61	Atmospheric lead concentrations near roadways in a suburban part of Istanbul. International Journal of Environment and Pollution, 2010, 41, 38.	0.2	3
62	Assessment of potential benefits of traffic and urban mobility reductions during COVID-19 lockdowns: dose-response calculations for material corrosions on built cultural heritage. Environmental Science and Pollution Research, 2022, 29, 6491-6510.	5.3	3
63	Traffic Related PM Predictor for Besiktas, Turkey. Environmental Science and Engineering, 2009, , 317-330.	0.2	3
64	Assessment method for new sustainability indicators providing pandemic resilience for residential buildings. MethodsX, 2021, 8, 101577.	1.6	3
65	Relation of earth probe TOMS/AI data and ground level measured atmospheric aerosols over Marmara region. International Journal of Environment and Pollution, 2009, 36, 195.	0.2	2
66	Impact assessment of Beirut explosion on local and regional air quality. Air Quality, Atmosphere and Health, 2021, 14, 1911-1929.	3.3	2
67	Statistical Evaluation of the Weekend Ozone Effect (WOE) in Istanbul. Ekoloji, 2012, 21, 26-33.	0.4	2
68	Simulation of Hemodynamics in a Graft-To-Vein Anastomoses by Adaptive Neuro-Fuzzy Based Modeling. Mathematical and Computational Applications, 2011, 16, 702-711.	1.3	1
69	Estimation of Mucus Clearance in Pulmonary Airways by Means of a Regression Model. Mathematical and Computational Applications, 2014, 19, 144-151.	1.3	0
70	Saving old cities: land use regression model for traffic emissions in the Historical Peninsula of Istanbul. International Journal of Global Environmental Issues, 2019, 18, 24.	0.1	0
71	Smart City Assessment: An Integrated Framework. , 2021, , .		0
72	An Empirical Model for Assessing the Impact of Air Quality on Urban Residentsâ€™ Loyalty to Place of Residence. Environment and Urbanization ASIA, 2021, 12, 292-309.	1.8	0

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73	DiMIZA : A dispersion modeling based impact zone assessment of mercury (Hg) emissions from coal-fired power plants and risk evaluation for inhalation exposure. Engineering Reports, 2021, 3, e12357.	1.7	0