

Konstantinos E Kakosimos

List of Publications by Year in descending order

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66
papers

1,832
citations

304701

22
h-index

276858

41
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all docs

66
docs citations

66
times ranked

2234
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of local fugitive particulate matter and emission inventories on air quality and health in dry and arid areas. <i>Science of the Total Environment</i> , 2022, 824, 153799.	8.0	2
2	Synthesis and Photocyclization of Conjugated Diselenophene Pyrrole-2,5-dione Based Monomers for Optoelectronics. <i>Macromolecules</i> , 2021, 54, 665-672.	4.8	14
3	Comparative analysis of a novel low concentration dual photovoltaic/phase change material system with a non-concentrator photovoltaic system. <i>Thermal Science</i> , 2021, 25, 1161-1170.	1.1	6
4	Towards a regional dust modeling system in the central Middle East: Evaluation, uncertainties and recommendations. <i>Atmospheric Environment</i> , 2021, 246, 118160.	4.1	11
5	Positioning and focusing of light sources in light concentrating systems using convolutional neural network modelling. <i>Solar Energy</i> , 2021, 218, 445-454.	6.1	4
6	Performance Analysis and Comparison of a Concentrated Photovoltaic System with Different Phase Change Materials. <i>Energies</i> , 2021, 14, 2911.	3.1	11
7	Measurements and modelling of particulate matter building ingress during a severe dust storm event. <i>Building and Environment</i> , 2020, 167, 106441.	6.9	16
8	Vehicle-induced fugitive particulate matter emissions in a city of arid desert climate. <i>Atmospheric Environment</i> , 2020, 229, 117450.	4.1	6
9	Concept and demonstration of a fully coupled and dynamic exposure-response methodology for crowd evacuation numerical modelling in airborne-toxic environments. <i>Journal of Hazardous Materials</i> , 2020, 399, 123093.	12.4	2
10	The spatial relationship between traffic-related air pollution and noise in two Danish cities: Implications for health-related studies. <i>Science of the Total Environment</i> , 2020, 726, 138577.	8.0	22
11	Development of an Educational Mixed Reality Game on Water Desalination Plants. , 2020, , .		2
12	Computational investigation of the performance of ZIF-8 with encapsulated ionic liquids towards CO ₂ capture. <i>Molecular Physics</i> , 2019, 117, 3791-3805.	1.7	13
13	Micro-scale modelling of the urban wind speed for air pollution applications. <i>Scientific Reports</i> , 2019, 9, 14279.	3.3	7
14	Qualitative and Quantitative Investigation of Multiple Large Eddy Simulation Aspects for Pollutant Dispersion in Street Canyons Using OpenFOAM. <i>Atmosphere</i> , 2019, 10, 17.	2.3	26
15	Development and performance evaluation of new AirGIS â€” A GIS based air pollution and human exposure modelling system. <i>Atmospheric Environment</i> , 2019, 198, 102-121.	4.1	90
16	Implicit Definition of Flow Patterns in Street Canyonsâ€™Recirculation Zoneâ€™Using Exploratory Quantitative and Qualitative Methods. <i>Atmosphere</i> , 2019, 10, 794.	2.3	4
17	Augmented reality in engineering instruction. , 2019, , 165-176.		0
18	Characterization of thermal performance, flux transmission performance and optical properties of MAX phase materials under concentrated solar irradiation. <i>Solar Energy Materials and Solar Cells</i> , 2018, 182, 76-91.	6.2	23

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19	Source reconstruction of airborne toxics based on acute health effects information. <i>Scientific Reports</i> , 2018, 8, 5596.	3.3	12
20	Road traffic air and noise pollution exposure assessment – A review of tools and techniques. <i>Science of the Total Environment</i> , 2018, 634, 661-676.	8.0	156
21	Inverse identification of unknown finite-duration air pollutant release from a point source in urban environment. <i>Atmospheric Environment</i> , 2018, 181, 82-96.	4.1	21
22	Modeling natural dust emissions in the central Middle East: Parameterizations and sensitivity. <i>Atmospheric Environment</i> , 2018, 190, 294-307.	4.1	24
23	Evaluation of an inverse modelling methodology for the prediction of a stationary point pollutant source in complex urban environments. <i>Building and Environment</i> , 2018, 143, 107-119.	6.9	25
24	Validation of an Inverse Method for the Source Determination of a Hazardous Airborne Material Released from a Point Source in an Urban Environment. <i>Springer Proceedings in Complexity</i> , 2018, , 329-332.	0.3	1
25	Hybrid photo-thermal sulfur-ammonia water splitting cycle: Thermodynamic analysis of the thermochemical steps. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9533-9544.	7.1	19
26	Experimental and numerical study of liquefied natural gas (LNG) pool spreading and vaporization on water. <i>Journal of Hazardous Materials</i> , 2017, 334, 244-255.	12.4	22
27	An optimized inverse modelling method for determining the location and strength of a point source releasing airborne material in urban environment. <i>Atmospheric Environment</i> , 2017, 170, 118-129.	4.1	34
28	Mathematical modelling and computer simulation of toxic gas building infiltration. <i>Chemical Engineering Research and Design</i> , 2017, 111, 687-700.	5.6	24
29	Characterization of thermal performance and optical properties of a material under concentrated radiation using a high flux solar simulator. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2
30	Solar hybrid photo-thermochemical sulfur-ammonia water-splitting cycle: Photocatalytic hydrogen production stage. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20608-20624.	7.1	24
31	Characterization of Qatar’s surface carbonates for CO ₂ capture and thermochemical energy storage. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
32	Particle model investigation for the thermochemical steps of the sulfur–ammonia water splitting cycle. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3621-3629.	7.1	14
33	Effect of the thermophysical properties of a phase change material on the electrical output of a concentrated photovoltaic system. , 2017, , .		0
34	Numerical investigations of the aperture size effect for maintaining a constant temperature in a novel sulfur-ammonia water splitting cycle application. <i>Thermal Science</i> , 2017, 21, 953-962.	1.1	2
35	Chemical Characterization of Indoor and Outdoor Particulate Matter (PM _{2.5} , PM ₁₀) in Doha, Qatar. <i>Aerosol and Air Quality Research</i> , 2017, 17, 1156-1168.	2.1	59
36	Incorporating Human Factors in Course Design: Utility of Wearable Technologies. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 159-170.	0.6	3

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37	Solar Hydrogen Production via a Samarium Oxide-Based Thermochemical Water Splitting Cycle. <i>Energies</i> , 2016, 9, 316.	3.1	63
38	Impacts of natural emission sources on particle pollution levels in Europe. <i>Atmospheric Environment</i> , 2016, 137, 171-185.	4.1	28
39	Flux estimation of fugitive particulate matter emissions from loose Calcisols at construction sites. <i>Atmospheric Environment</i> , 2016, 141, 96-105.	4.1	27
40	A parameter estimation and identifiability analysis methodology applied to a street canyon air pollution model. <i>Environmental Modelling and Software</i> , 2016, 84, 165-176.	4.5	11
41	Effect of the Phase Change Material's Melting Point on the Thermal Behavior of a Concentrated Photovoltaic System in Tropical dry Climate. , 2016, , .		1
42	Chemical Characterization of Indoor and Outdoor PM2.5, PM10 and VOCs in a Public Building in Doha City, Qatar. , 2016, , .		0
43	Challenges and Prospects for Solar Thermochemical Reactor Engineering for Renewable Resource Utilization and Poly-Generation. , 2016, , .		0
44	Analysis of the impact of inhomogeneous emissions in the Operational Street Pollution Model (OSPM). <i>Geoscientific Model Development</i> , 2015, 8, 3231-3245.	3.6	17
45	Experimental and numerical investigation of the aperture size effect on the efficient solar energy harvesting for solar thermochemical applications. <i>Energy Conversion and Management</i> , 2015, 92, 331-341.	9.2	24
46	Example of a micro-adaptive instruction methodology for the improvement of flipped-classrooms and adaptive-learning based on advanced blended-learning tools. <i>Education for Chemical Engineers</i> , 2015, 12, 1-11.	4.8	36
47	Analysis of meteorological parameters for dense gas dispersion using mesoscale models. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 35, 145-156.	3.3	11
48	Concentrations, sources and exposure risks associated with particulate matter in the Middle East Area—a review. <i>Air Quality, Atmosphere and Health</i> , 2015, 8, 67-80.	3.3	104
49	Development of a methodology and information technology tools for micro-adaptive instruction: An engineering course case study. <i>Qscience Proceedings</i> , 2015, , .	0.0	0
50	Application of Detached Eddy Simulation to neighbourhood scale gases atmospheric dispersion modelling. <i>Journal of Hazardous Materials</i> , 2013, 261, 653-668.	12.4	23
51	Application and evaluation of AERMOD on the assessment of particulate matter pollution caused by industrial activities in the Greater Thessaloniki area. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 593-608.	2.2	23
52	Atmospheric dispersion modelling of the fugitive particulate matter from overburden dumps with numerical and integral models. <i>Atmospheric Pollution Research</i> , 2011, 2, 24-33.	3.8	25
53	Operational Street Pollution Model (OSPM) - a review of performed application and validation studies, and future prospects. <i>Environmental Chemistry</i> , 2010, 7, 485.	1.5	85
54	Monitoring Particulate Matter Concentrations with Passive Samplers: Application to the Greater Thessaloniki Area. <i>Water, Air, and Soil Pollution</i> , 2010, 211, 395-408.	2.4	5

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55	Can a course on the calculation of the effects of fires, explosions and toxic gas dispersions, be topical, enjoyable and meaningful?. Education for Chemical Engineers, 2010, 5, e45-e53.	4.8	3
56	Correlation and Prediction of Dense Fluid Transport Coefficients. VIII. Mixtures of Alkyl Benzenes with Other Hydrocarbons. International Journal of Thermophysics, 2009, 30, 1733-1747.	2.1	15
57	An efficient 3D mesh generator based on geometry decomposition. Computers and Structures, 2009, 87, 27-38.	4.4	4
58	An Improved Application of the Transient Hot-Wire Technique for the Absolute Accurate Measurement of the Thermal Conductivity of Pyroceram 9606 up to 420ÅK. International Journal of Thermophysics, 2008, 29, 445-456.	2.1	32
59	Applying the OSPM model to the calculation of PM10 concentration levels in the historical centre of the city of Thessaloniki. Atmospheric Environment, 2008, 42, 65-77.	4.1	36
60	Local scale vehicles pollution study in the absence of sufficient data: the case of the city of Thessaloniki. WIT Transactions on Ecology and the Environment, 2007, , .	0.0	1
61	Reference Data for the Density and Viscosity of Liquid Aluminum and Liquid Iron. Journal of Physical and Chemical Reference Data, 2006, 35, 285-300.	4.2	368
62	Thermal Conductivity of Nanofluids â€“ Experimental and Theoretical. International Journal of Thermophysics, 2006, 27, 999-1017.	2.1	86
63	Thermal Conductivity of Reference Solid Materials. International Journal of Thermophysics, 2004, 25, 397-408.	2.1	38
64	Teaching Innovation with Technology to Accelerate Engineering Studentsâ€™ Learning. , 0, , .		3
65	Fires, Explosions, and Toxic Gas Dispersions. , 0, , .		60
66	Advancing Engineering Education through Technology-Driven Teaching Innovations. , 0, , .		1