

Gunther Schauberger

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

1,803
citations

218677

26
h-index

315739

38
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95
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95
docs citations

95
times ranked

1172
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduction of the Economic Risk by Adaptation Measures to Alleviate Heat Stress in Confined Buildings for Growing-Fattening Pigs Modelled by a Projection for Central Europe in 2030. <i>Agronomy</i> , 2022, 12, 248.	3.0	1
2	Economic Risk Assessment by Weather-Related Heat Stress Indices for Confined Livestock Buildings: A Case Study for Fattening Pigs in Central Europe. <i>Agriculture (Switzerland)</i> , 2021, 11, 122.	3.1	6
3	Summary and Overview of the Odour Regulations Worldwide. <i>Atmosphere</i> , 2021, 12, 206.	2.3	44
4	Determination of Dose-Response Relationship to Derive Odor Impact Criteria for a Wastewater Treatment Plant. <i>Atmosphere</i> , 2021, 12, 371.	2.3	5
5	Exogenous creatinine clearance indexed to body surface area allows estimation of GFR and across species comparison. <i>Research in Veterinary Science</i> , 2021, 135, 36-41.	1.9	1
6	Tracking Devices for Pets: Health Risk Assessment for Exposure to Radiofrequency Electromagnetic Fields. <i>Animals</i> , 2021, 11, 2721.	2.3	3
7	Odour Impact Assessment in a Changing Climate. <i>Atmosphere</i> , 2021, 12, 1149.	2.3	3
8	Dispersion modelling of environmental odours using hourly-resolved emission scenarios: Implications for impact assessments. <i>Atmospheric Environment: X</i> , 2021, 12, 100124.	1.4	1
9	Environmental Odour. <i>Atmosphere</i> , 2021, 12, 1293.	2.3	4
10	Temporal variability in odour emissions: To what extent this matters for the assessment of annoyance using dispersion modelling. <i>Atmospheric Environment: X</i> , 2020, 5, 100054.	1.4	5
11	Odour impact assessment by considering short-term ambient concentrations: A multi-model and two-site comparison. <i>Environment International</i> , 2020, 144, 105990.	10.0	16
12	Efficacy of adaptation measures to alleviate heat stress in confined livestock buildings in temperate climate zones. <i>Biosystems Engineering</i> , 2020, 200, 157-175.	4.3	17
13	The Effect of Climate Change-Induced Temperature Increase on Performance and Environmental Impact of Intensive Pig Production Systems. <i>Sustainability</i> , 2020, 12, 9442.	3.2	18
14	Determination of ammonia and hydrogen sulfide emissions from a commercial dairy farm with an exercise yard and the health-related impact for residents. <i>Environmental Science and Pollution Research</i> , 2020, 27, 37684-37698.	5.3	11
15	Are Empirical Equations an Appropriate Tool to Assess Separation Distances to Avoid Odour Annoyance?. <i>Atmosphere</i> , 2020, 11, 678.	2.3	4
16	Environmental Odour: Emission, Dispersion, and the Assessment of Annoyance. <i>Atmosphere</i> , 2020, 11, 896.	2.3	3
17	Performance evaluation of approaches to predict sub-hourly peak odour concentrations. <i>Atmospheric Environment: X</i> , 2020, 7, 100076.	1.4	11
18	Global warming impact on confined livestock in buildings: efficacy of adaptation measures to reduce heat stress for growing-fattening pigs. <i>Climatic Change</i> , 2019, 156, 567-587.	3.6	25

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19	Impacts of global warming on confined livestock systems for growing-fattening pigs: simulation of heat stress for 1981 to 2017 in Central Europe. <i>International Journal of Biometeorology</i> , 2019, 63, 221-230.	3.0	26
20	A Comparative Analysis of Methods for Determining Odour-Related Separation Distances around a Dairy Farm in Beijing, China. <i>Atmosphere</i> , 2019, 10, 231.	2.3	9
21	Do odour impact criteria of different jurisdictions ensure analogous separation distances for an equivalent level of protection?. <i>Journal of Environmental Management</i> , 2019, 240, 394-403.	7.8	14
22	The Austrian UVA-€Network. <i>Photochemistry and Photobiology</i> , 2019, 95, 1258-1266.	2.5	6
23	Climate change impact on the dispersion of airborne emissions and the resulting separation distances to avoid odour annoyance. <i>Atmospheric Environment: X</i> , 2019, 2, 100021.	1.4	6
24	Assessing the inter-annual variability of separation distances around odour sources to protect the residents from odour annoyance. <i>Journal of Environmental Sciences</i> , 2019, 79, 11-24.	6.1	26
25	Impact of global warming on the odour and ammonia emissions of livestock buildings used for fattening pigs. <i>Biosystems Engineering</i> , 2018, 175, 106-114.	4.3	31
26	UV Effects on Living Organisms. , 2018, , 1-63.		3
27	Evaluation of the chemical composition and correlation between the calculated and measured odour concentration of odorous gases from a landfill in Beijing, China. <i>Atmospheric Environment</i> , 2017, 164, 337-347.	4.1	93
28	Modelled performance of energy saving air treatment devices to mitigate heat stress for confined livestock buildings in Central Europe. <i>Biosystems Engineering</i> , 2017, 164, 85-97.	4.3	39
29	How to transport veterinary drugs in insulated boxes to avoid thermal damage by heating or freezing. <i>BMC Veterinary Research</i> , 2017, 13, 140.	1.9	1
30	Cabin air temperature of parked vehicles in summer conditions: life-threatening environment for children and pets calculated by a dynamic model. <i>Theoretical and Applied Climatology</i> , 2017, 130, 107-118.	2.8	26
31	Factors influencing separation distances against odour annoyance calculated by Gaussian and Lagrangian dispersion models. <i>Atmospheric Environment</i> , 2016, 140, 69-83.	4.1	32
32	Conversion of the chemical concentration of odorous mixtures into odour concentration and odour intensity: A comparison of methods. <i>Atmospheric Environment</i> , 2016, 127, 283-292.	4.1	64
33	A comparison of separation distances against odour annoyance calculated with two models. <i>Atmospheric Environment</i> , 2015, 116, 22-35.	4.1	27
34	Site-dependent decrease of odour-related peak-to-mean factors with distance. <i>Advances in Science and Research</i> , 2014, 11, 69-73.	1.0	5
35	Odour emission scenarios for fattening pigs as input for dispersion models: A step from an annual mean value to time series. <i>Agriculture, Ecosystems and Environment</i> , 2014, 193, 108-116.	5.3	18
36	Comparability of separation distances between odour sources and residential areas determined by various national odour impact criteria. <i>Atmospheric Environment</i> , 2014, 95, 20-28.	4.1	33

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37	Use of a Monte Carlo technique to complete a fragmented set of H ₂ S emission rates from a wastewater treatment plant. <i>Journal of Hazardous Materials</i> , 2013, 263, 694-701.	12.4	20
38	Plasma Exogenous Creatinine Excretion for the Assessment of Renal Function in Avian Medicine – Pharmacokinetic Modeling in Racing Pigeons (<i>Columba livia</i>). <i>Journal of Avian Medicine and Surgery</i> , 2013, 27, 173-179.	0.5	15
39	Empirical model of odor emission from deep-pit swine finishing barns to derive a standardized odor emission factor. <i>Atmospheric Environment</i> , 2013, 66, 84-90.	4.1	32
40	Characterization and quantification of the influence of season and gender on plasma chemistries of Hermann's tortoises (<i>Testudo hermanni</i> , Gmelin 1789). <i>Research in Veterinary Science</i> , 2013, 95, 59-68.	1.9	28
41	UV Effects on Living Organisms. , 2013, , 609-688.		4
42	Comparison of two peak-to-mean approaches for use in odour dispersion models. <i>Water Science and Technology</i> , 2012, 66, 1498-1501.	2.5	6
43	Empirical model derived from dispersion calculations to determine separation distances between livestock buildings and residential areas to avoid odour nuisance. <i>Atmospheric Environment</i> , 2012, 46, 508-515.	4.1	22
44	A new empirical model to calculate separation distances between livestock buildings and residential areas applied to the Austrian guideline to avoid odour nuisance. <i>Atmospheric Environment</i> , 2012, 47, 341-347.	4.1	14
45	Concept to assess the human perception of odour by estimating short-time peak concentrations from one-hour mean values. Reply to a comment by Janicke et al.. <i>Atmospheric Environment</i> , 2012, 54, 624-628.	4.1	37
46	UV Effects UV (ultraviolet) effects on Living Organisms. , 2012, , 11375-11427.		4
47	Odour emissions from a waste treatment plant using an inverse dispersion technique. <i>Atmospheric Environment</i> , 2011, 45, 1639-1647.	4.1	38
48	Facial Solar UV Exposure of Austrian Farmers During Occupation. <i>Photochemistry and Photobiology</i> , 2010, 86, 1404-1413.	2.5	43
49	Sensitivity of Erythemally Effective UV Irradiance and Daily Exposure to Temporal Variability in Total Ozone. <i>Photochemistry and Photobiology</i> , 2009, 85, 261-271.	2.5	7
50	Sensitivity of UV Erythemally Effective Irradiance and Daily Dose to Spatial Variability in Total Ozone. <i>Photochemistry and Photobiology</i> , 2008, 84, 1149-1163.	2.5	8
51	A sensitivity study of separation distances calculated with the Austrian Odour Dispersion Model (AODM). <i>Atmospheric Environment</i> , 2007, 41, 1725-1735.	4.1	39
52	Sensitivity of Erythemally Effective UV Irradiance and Daily Exposure to Uncertainties in Measured Total Ozone. <i>Photochemistry and Photobiology</i> , 2007, 83, 433-444.	2.5	6
53	A first approach in measuring, modeling, and forecasting the vitamin D effective UV radiation. , 2006, , .		4
54	Odour episodes in the vicinity of livestock buildings: A qualitative comparison of odour complaint statistics with model calculations. <i>Agriculture, Ecosystems and Environment</i> , 2006, 114, 185-194.	5.3	17

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55	A COMPARISON OF ODOUR COMPLAINT STATISTICS WITH MODEL CALCULATIONS OF ODOUR EPISODES. Proceedings of the Water Environment Federation, 2006, 2006, 275-288.	0.0	1
56	Requirements for the spatial resolution, temporal resolution, and measuring uncertainties of total ozone measurements to calculate the erythemally effective UV radiation with a pre-selected accuracy. , 2006, , .		0
57	Ultraviolet protective performance of photoprotective lipsticks: change of spectral transmittance because of ultraviolet exposure. Photodermatology Photoimmunology and Photomedicine, 2005, 21, 84-92.	1.5	28
58	Novel Approach for Assessing Performance of PCR Cyclers Used for Diagnostic Testing. Journal of Clinical Microbiology, 2005, 43, 2724-2728.	3.9	25
59	Global Forecast Model to Predict the Daily Dose of the Solar Erythemally Effective UV Radiation ^{Å¶} . Photochemistry and Photobiology, 2005, 81, 154-162.	2.5	3
60	Global Forecast Model to Predict the Daily Dose of the Solar Erythemally Effective UV Radiation ^{Å¶} . Photochemistry and Photobiology, 2005, 81, 154.	2.5	22
61	Evaluation of the goodness of fit of solar simulated radiation to a reference solar spectrum for photobiological experiments. Medical Physics, 2004, 31, 2509-2519.	3.0	7
62	Assessment of thickness of photoprotective lipsticks and frequency of reapplication: results from a laboratory test and a field experiment. British Journal of Dermatology, 2003, 148, 763-769.	1.5	10
63	Preprocessing of total ozone content as an input parameter to UV Index forecast calculations. Journal of Geophysical Research, 2003, 108, .	3.3	9
64	Temporal and spatial variability of total ozone content over Central Europe: analysis in respect to the biological effect on plants. Agricultural and Forest Meteorology, 2003, 120, 9-26.	4.8	12
65	Physical Characteristics of Six New Thermocyclers. Clinical Chemistry, 2003, 49, 960-963.	3.2	37
66	Determination of the received daily visible and UV radiation dose as a function of weather, environment, and activity. , 2003, , .		0
67	Global validation of a forecast model for irradiance of solar, erythemally effective ultraviolet radiation. Optical Engineering, 2002, 41, 3040.	1.0	18
68	<title>Total ozone content as input parameter for the prediction of the biologically effective UV radiation: analysis of the temporal and spatial variability over Austria</title>. , 2002, , .		0
69	<title>Worldwide forecast of the biologically effective UV radiation: UV index and daily dose</title>. , 2002, , .		1
70	ITâ€™Information Technology and the Human Interface. Biosystems Engineering, 2002, 82, 25-37.	4.3	26
71	Operational Nowcasting of the Sun Protection Factor for the Urban Area of Vienna. Journal of Applied Meteorology and Climatology, 2001, 40, 836-842.	1.7	1
72	A monitoring network for erythemally-effective solar ultraviolet radiation in Austria: determination of the measuring sites and visualisation of the spatial distribution. Theoretical and Applied Climatology, 2001, 69, 221-229.	2.8	32

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73	Comparison of measured and modelled uv indices for the assessment of health risks. Meteorological Applications, 2001, 8, 267-277.	2.1	53
74	Change of Ultraviolet Absorbance of Sunscreens by Exposure to Solar-Simulated Radiation. Journal of Investigative Dermatology, 2001, 117, 256-262.	0.7	98
75	Separation distance to avoid odour nuisance due to livestock calculated by the Austrian odour dispersion model (AODM). Agriculture, Ecosystems and Environment, 2001, 87, 13-28.	5.3	36
76	Diurnal and annual variation of the sensation distance of odour emitted by livestock buildings calculated by the Austrian odour dispersion model (AODM). Atmospheric Environment, 2000, 34, 4839-4851.	4.1	52
77	Steady-state balance model to calculate the indoor climate of livestock buildings, demonstrated for finishing pigs. International Journal of Biometeorology, 2000, 43, 154-162.	3.0	55
78	Validation of the Austrian forecast model for solar, biologically effective UV radiation-UV index for Vienna. Journal of Geophysical Research, 2000, 105, 26661-26667.	3.3	20
79	Comparison of a Gaussian diffusion model with guidelines for calculating the separation distance between livestock farming and residential areas to avoid odour annoyance. Atmospheric Environment, 1999, 33, 2219-2228.	4.1	34
80	Diurnal and Annual Variation of Odour Emission from Animal Houses: a Model Calculation for Fattening Pigs. Biosystems Engineering, 1999, 74, 251-259.	0.4	29
81	Comparison of Models Used for UV Index Calculations. Photochemistry and Photobiology, 1998, 67, 657-662.	2.5	122
82	Comparison of Models Used for UV Index Calculations. Photochemistry and Photobiology, 1998, 67, 657.	2.5	1
83	Anisotropic model for the diffuse biologically-effective irradiance of solar UV-radiation on inclined surfaces. Theoretical and Applied Climatology, 1992, 46, 45-51.	2.8	27
84	MODEL FOR THE GLOBAL IRRADIANCE OF THE SOLAR BIOLOGICALLY-EFFECTIVE ULTRAVIOLET-RADIATION ON INCLINED SURFACES. Photochemistry and Photobiology, 1990, 52, 1029-1032.	2.5	47