Jianyin Xiong

List of Publications by Year in descending order

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58	1,864	218381	276539
papers	citations	26 h-index	41 g-index

60	60	60	1195
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	C-History Method: Rapid Measurement of the Initial Emittable Concentration, Diffusion and Partition Coefficients for Formaldehyde and VOCs in Building Materials. Environmental Science & Technology, 2011, 45, 3584-3590.	4.6	111
2	Experimental and numerical study on a new multi-effect solar still with enhanced condensation surface. Energy Conversion and Management, 2013, 73, 176-185.	4.4	90
3	Impact of Temperature on the Ratio of Initial Emittable Concentration to Total Concentration for Formaldehyde in Building Materials: Theoretical Correlation and Validation. Environmental Science & Technology, 2015, 49, 1537-1544.	4.6	86
4	Comprehensive influence of environmental factors on the emission rate of formaldehyde and VOCs in building materials: Correlation development and exposure assessment. Environmental Research, 2016, 151, 734-741.	3.7	84
5	Air quality inside motor vehicles' cabins: A review. Indoor and Built Environment, 2018, 27, 452-465.	1.5	80
6	Macroâ€“meso two-scale model for predicting the VOC diffusion coefficients and emission characteristics of porous building materials. Atmospheric Environment, 2008, 42, 5278-5290.	1.9	73
7	Characterizing sources and emissions of volatile organic compounds in a northern California residence using spaceâ€•and timeâ€resolved measurements. Indoor Air, 2019, 29, 630-644.	2.0	70
8	Understanding and controlling airborne organic compounds in the indoor environment: mass transfer analysis and applications. Indoor Air, 2016, 26, 39-60.	2.0	65
9	Impact of temperature on the initial emittable concentration of formaldehyde in building materials: experimental observation. Indoor Air, 2010, 20, 523-529.	2.0	63
10	A rapid and accurate method, ventilated chamber C-history method, of measuring the emission characteristic parameters of formaldehyde/VOCs in building materials. Journal of Hazardous Materials, 2013, 261, 542-549.	6.5	61
11	Predicting VOC emissions from materials in vehicle cabins: Determination of the key parameters and the influence of environmental factors. International Journal of Heat and Mass Transfer, 2017, 110, 671-679.	2.5	51
12	Predicting the emission characteristics of VOCs in a simulated vehicle cabin environment based on small-scale chamber tests: Parameter determination and validation. Environment International, 2020, 142, 105817.	4.8	51
13	A general analytical model for formaldehyde and VOC emission/sorption in single-layer building materials and its application in determining the characteristic parameters. Atmospheric Environment, 2012, 47, 288-294.	1.9	50
14	Detailed investigation of ventilation rates and airflow patterns in a northern California residence. Indoor Air, 2018, 28, 572-584.	2.0	50
15	Predicting Indoor Emissions of Cyclic Volatile Methylsiloxanes from the Use of Personal Care Products by University Students. Environmental Science & Technology, 2018, 52, 14208-14215.	4.6	40
16	Variable Volume Loading Method: A Convenient and Rapid Method for Measuring the Initial Emittable Concentration and Partition Coefficient of Formaldehyde and Other Aldehydes in Building Materials. Environmental Science & Technology, 2011, 45, 10111-10116.	4.6	38
17	Modeling the Time-Dependent Concentrations of Primary and Secondary Reaction Products of Ozone with Squalene in a University Classroom. Environmental Science & Technology, 2019, 53, 8262-8270.	4.6	35
18	Measurement of the key parameters of VOC emissions from wooden furniture, and the impact of temperature. Atmospheric Environment, 2021, 259, 118510.	1.9	35

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19	An improved extraction method to determine the initial emittable concentration and the partition coefficient of VOCs in dry building materials. Atmospheric Environment, 2009, 43, 4102-4107.	1.9	34
20	An improved mechanism-based model for predicting the long-term formaldehyde emissions from composite wood products with exposed edges and seams. Environment International, 2019, 132, 105086.	4.8	34
21	Physicalâ€“Chemical Coupling Model for Characterizing the Reaction of Ozone with Squalene in Realistic Indoor Environments. Environmental Science & Technology, 2021, 55, 1690-1698.	4.6	33
22	Association between the Emission Rate and Temperature for Chemical Pollutants in Building Materials: General Correlation and Understanding. Environmental Science & Technology, 2013, 47, 130709124156006.	4.6	32
23	Experimental and numerical investigation on a novel solar still with vertical ripple surface. Energy Conversion and Management, 2015, 98, 151-160.	4.4	31
24	Influence of humidity on the initial emittable concentration of formaldehyde and hexaldehyde in building materials: experimental observation and correlation. Scientific Reports, 2016, 6, 23388.	1.6	31
25	Selection of hydrogel electrolytes for flexible zincâ€“air batteries. Materials Today Chemistry, 2021, 21, 100538.	1.7	30
26	Determination of the equivalent emission parameters of wood-based furniture by applying C-history method. Atmospheric Environment, 2011, 45, 5602-5611.	1.9	29
27	Measuring the characteristic parameters of VOC emission from paints. Building and Environment, 2013, 66, 65-71.	3.0	27
28	Early stage C-history method: Rapid and accurate determination of the key SVOC emission or sorption parameters of indoor materials. Building and Environment, 2016, 95, 314-321.	3.0	25
29	Transient Method for Determining Indoor Chemical Concentrations Based on SPME: Model Development and Calibration. Environmental Science & Technology, 2016, 50, 9452-9459.	4.6	24
30	Thermodynamic analysis of an idealised solar tower thermal power plant. Applied Thermal Engineering, 2015, 81, 271-278.	3.0	23
31	Characterization of VOC emissions from composite wood furniture: Parameter determination and simplified model. Building and Environment, 2019, 161, 106237.	3.0	23
32	Characterization of VOC Emission from Materials in Vehicular Environment at Varied Temperatures: Correlation Development and Validation. PLoS ONE, 2015, 10, e0140081.	1.1	23
33	Fluorescent biological aerosol particles: Concentrations, emissions, and exposures in a northern California residence. Indoor Air, 2018, 28, 559-571.	2.0	22
34	Using a machine learning approach to predict the emission characteristics of VOCs from furniture. Building and Environment, 2021, 196, 107786.	3.0	20
35	Characterization of phthalates in sink and source materials: Measurement methods and the impact on exposure assessment. Journal of Hazardous Materials, 2020, 396, 122689.	6.5	19
36	A rapid and robust method to determine the key parameters of formaldehyde emissions from building and vehicle cabin materials: Principle, multi-source application and exposure assessment. Journal of Hazardous Materials, 2022, 430, 128422.	6.5	19

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37	Interpretation of standard effective temperature (SET) and explorations on its modification and development. Building and Environment, 2022, 210, 108714.	3.0	18
38	Residential building materials: An important source of ambient formaldehyde in mainland China. Environment International, 2022, 158, 106909.	4.8	17
39	A Novel Method for Measuring the Diffusion, Partition and Convective Mass Transfer Coefficients of Formaldehyde and VOC in Building Materials. PLoS ONE, 2012, 7, e49342.	1.1	16
40	Predicting the concentrations of VOCs in a controlled chamber and an occupied classroom via a deep learning approach. Building and Environment, 2022, 207, 108525.	3.0	14
41	The analytical solutions for the stress distributions within elastic hollow spheres under the diametrical point loads. Archive of Applied Mechanics, 2015, 85, 817-830.	1.2	12
42	Predicting the emissions of VOCs/SVOCs in source and sink materials: Development of analytical model and determination of the key parameters. Environment International, 2022, 160, 107064.	4.8	12
43	Influence of Precision of Emission Characteristic Parameters on Model Prediction Error of VOCs/Formaldehyde from Dry Building Material. PLoS ONE, 2013, 8, e80736.	1.1	11
44	Experimental and numerical study on the self-balancing heating performance of a thermosyphon during the process of oil production. Applied Thermal Engineering, 2014, 73, 1270-1278.	3.0	11
45	Association between the emissions of volatile organic compounds from vehicular cabin materials and temperature: Correlation and exposure analysis. Indoor and Built Environment, 2019, 28, 362-371.	1.5	11
46	A general regression method for accurately determining the key parameters of VOC emissions from building materials/furniture in a ventilated chamber. Atmospheric Environment, 2020, 231, 117527.	1.9	11
47	VOC emissions from two-layer building and vehicle cabin materials: Measurements and independent validation. Atmospheric Environment, 2021, 267, 118772.	1.9	10
48	Investigation on the Direct Transfer of SVOCs from Source to Settled Dust: Analytical Model and Key Parameter Determination. Environmental Science & Technology, 2022, 56, 5489-5496.	4.6	9
49	The Impact of Relative Humidity on the Emission Behaviour of Formaldehyde in Building Materials. Procedia Engineering, 2015, 121, 59-66.	1.2	8
50	Determination of the key parameters of VOCs emitted from multi-layer leather furniture using a region traversal approach. Science of the Total Environment, 2022, 819, 153126.	3.9	8
51	The association between daily-diagnosed COVID-19 morbidity and short-term exposure to PM1 is larger than associations with PM2.5 and PM10. Environmental Research, 2022, 210, 113016.	3.7	8
52	Short-term exposure to ambient particle gamma radioactivity is associated with increased risk for all-cause non-accidental and cardiovascular mortality. Science of the Total Environment, 2020, 721, 137793.	3.9	7
53	Characterization of the off-body squalene ozonolysis on indoor surfaces. Chemosphere, 2022, 291, 132772.	4.2	7
54	Emissions of DEHP from vehicle cabin materials: parameter determination, impact factors and exposure analysis. Environmental Sciences: Processes and Impacts, 2019, 21, 1323-1333.	1.7	6

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55	Highly efficient hydrogen production via a zinc-carbon @ nickel system. International Journal of Hydrogen Energy, 2022, 47, 5354-5360.	3.8	5
56	Znâ€“Ni reaction in the alkaline zinc-air battery using a nickel-supported air electrode. Materials Today Energy, 2021, 21, 100823.	2.5	4
57	Study on the Effect of an Intermittent Ventilation Strategy on Controlling Formaldehyde Concentrations in Office Rooms. Atmosphere, 2022, 13, 102.	1.0	3
58	High Volatility Organic Compounds (VVOCs). , 2021, , 1-34.		0