

Stéphane Le Calvé

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6304995/publications.pdf>

Version: 2024-02-01

92
papers

2,286
citations

201575

27
h-index

265120

42
g-index

93
all docs

93
docs citations

93
times ranked

2374
citing authors

#	ARTICLE	IF	CITATIONS
1	Aldehyde measurements in indoor environments in Strasbourg (France). <i>Atmospheric Environment</i> , 2006, 40, 1336-1345.	1.9	111
2	Transportable, fast and high sensitive near real-time analyzers: Formaldehyde detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 551-558.	4.0	104
3	Inhaled formaldehyde exposure: effect on bronchial response to mite allergen in sensitized asthma patients. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2006, 61, 1344-1350.	2.7	101
4	Kinetic Studies of OH Reactions with a Series of Ketones. <i>Journal of Physical Chemistry A</i> , 1998, 102, 4579-4584.	1.1	78
5	Near-UV molar absorptivities of acetone, alachlor, metolachlor, diazinon and dichlorvos in aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 174, 76-81.	2.0	74
6	Temperature Dependence for the Rate Coefficients of the Reactions of the OH Radical with a Series of Formates. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5489-5493.	1.1	71
7	Concentrations and determinants of gaseous aldehydes in 162 homes in Strasbourg (France). <i>Atmospheric Environment</i> , 2008, 42, 505-516.	1.9	66
8	Kinetic Studies of OH Reactions with a Series of Acetates. <i>The Journal of Physical Chemistry</i> , 1996, 100, 12364-12368.	2.9	61
9	Formaldehyde measurements in libraries: Comparison between infrared diode laser spectroscopy and a DNPH-derivatization method. <i>Atmospheric Environment</i> , 2006, 40, 5768-5775.	1.9	53
10	A review of optical interferometry techniques for VOC detection. <i>Sensors and Actuators A: Physical</i> , 2020, 302, 111782.	2.0	53
11	Uptake study of ClONO ₂ and BrONO ₂ by Halide containing droplets. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 1291-1299.	1.9	51
12	Henry's law constant measurements for formaldehyde and benzaldehyde as a function of temperature and water composition. <i>Atmospheric Environment</i> , 2011, 45, 2991-2998.	1.9	49
13	Portable, miniature, fast and high sensitive real-time analyzers: BTEX detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 446-452.	4.0	48
14	Adsorption of acetic acid on ice: Experiments and molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2005, 122, 194707.	1.2	46
15	Experimental performances study of a transportable GC-PID and two thermo-desorption based methods coupled to FID and MS detection to assess BTEX exposure at sub-ppb level in air. <i>Talanta</i> , 2014, 127, 33-42.	2.9	44
16	Henry's law constant measurements for phenol, o-, m-, and p-cresol as a function of temperature. <i>Atmospheric Environment</i> , 2004, 38, 5577-5588.	1.9	43
17	Atmospheric Fate of Dichlorvos: Photolysis and OH-Initiated Oxidation Studies. <i>Environmental Science & Technology</i> , 2006, 40, 850-857.	4.6	43
18	Gas Detection Using Portable Deep-UV Absorption Spectrophotometry: A Review. <i>Sensors</i> , 2019, 19, 5210.	2.1	43

#	ARTICLE	IF	CITATIONS
19	Kinetic Studies of OH Reactions with a Series of Methyl Esters. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9137-9141.	1.1	42
20	Development of a novel portable miniaturized GC for near real-time low level detection of BTEX. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 159-169.	4.0	38
21	Experimental and Theoretical Adsorption Study of Ethanol on Ice Surfaces. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17425-17432.	1.2	37
22	Temperature dependence of Henry's law constants of metolachlor and diazinon. <i>Chemosphere</i> , 2004, 57, 319-327.	4.2	37
23	An analytical method coupling accelerated solvent extraction and HPLC-fluorescence for the quantification of particle-bound PAHs in indoor air sampled with a 3-stages cascade impactor. <i>Talanta</i> , 2015, 131, 386-394.	2.9	36
24	Micro photoionization detectors. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 86-94.	4.0	36
25	Adsorption studies of acetone and 2,3-butanedione on ice surfaces between 193 and 223 K. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1277-1284.	1.3	35
26	Miniaturization of fluorescence sensing in optofluidic devices. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	1.0	31
27	Adsorption of Benzaldehyde at the Surface of Ice, Studied by Experimental Method and Computer Simulation. <i>Langmuir</i> , 2010, 26, 9596-9606.	1.6	29
28	Uptake Measurements of Ethanol on Ice Surfaces and on Supercooled Aqueous Solutions Doped with Nitric Acid between 213 and 243 K. <i>Journal of Physical Chemistry A</i> , 2007, 111, 925-931.	1.1	28
29	Kinetic Studies of OH and O ₃ Reactions with Allyl and Isopropenyl Acetate. <i>Journal of Atmospheric Chemistry</i> , 2000, 37, 161-172.	1.4	26
30	Photolysis of Chloral under Atmospheric Conditions. <i>Environmental Science & Technology</i> , 2004, 38, 831-837.	4.6	26
31	Uptake Measurements of Acetaldehyde on Solid Ice Surfaces and on Solid/Liquid Supercooled Mixtures Doped with HNO ₃ in the Temperature Range 203~253 K. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5091-5098.	1.1	26
32	In-cloud multiphase behaviour of acetone in the troposphere: Gas uptake, Henry's law equilibrium and aqueous phase photooxidation. <i>Chemosphere</i> , 2010, 81, 312-320.	4.2	25
33	Vapor Pressure Measurements of Hydroxyacetaldehyde and Hydroxyacetone in the Temperature Range (273 to 356) K. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 852-855.	1.0	24
34	Studies on atmospheric degradation of diazinon in the EUPHORE simulation chamber. <i>Chemosphere</i> , 2011, 85, 724-730.	4.2	24
35	Adsorptive removal of gaseous formaldehyde at realistic concentrations. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103986.	3.3	24
36	Development of microfluidic analytical method for on-line gaseous Formaldehyde detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 963-970.	4.0	22

#	ARTICLE	IF	CITATIONS
37	Experimental Uptake Study of Ethanol by Water Droplets and Its Theoretical Modeling of Cluster Formation at the Interface. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7237-7245.	1.2	21
38	Identifying the impact of Beirut Airport's activities on local air quality - Part I: Emissions inventory of NO ₂ and VOCs. <i>Atmospheric Environment</i> , 2018, 187, 435-444.	1.9	21
39	Portable novel micro-device for BTEX real-time monitoring: Assessment during a field campaign in a low consumption energy junior high school classroom. <i>Atmospheric Environment</i> , 2016, 126, 211-217.	1.9	20
40	On-line gaseous formaldehyde detection by a microfluidic analytical method based on simultaneous uptake and derivatization in a temperature controlled annular flow. <i>Talanta</i> , 2017, 172, 102-108.	2.9	20
41	Sub-ppb Level Detection of BTEX Gaseous Mixtures with a Compact Prototype GC Equipped with a Preconcentration Unit. <i>Micromachines</i> , 2019, 10, 187.	1.4	20
42	Henry's law constants measurements of alachlor and dichlorvos between 283 and 298K. <i>Atmospheric Environment</i> , 2003, 37, 2347-2353.	1.9	19
43	Henry's law constants measurements of the nonylphenol isomer 4-(3,5-dimethyl-3-heptyl)-phenol, tertiary octylphenol and ¹³ C-hexachlorocyclohexane between 278 and 298 K. <i>Atmospheric Environment</i> , 2004, 38, 4859-4868.	1.9	19
44	A dynamic system for single and repeated exposure of airway epithelial cells to gaseous pollutants. <i>Toxicology in Vitro</i> , 2013, 27, 632-640.	1.1	19
45	Particle-bound PAHs quantification using a 3-stages cascade impactor in French indoor environments. <i>Environmental Pollution</i> , 2014, 195, 64-72.	3.7	19
46	Volatile organic compounds (VOCs) removal capacity of ZSM-5 zeolite adsorbents for near real-time BTEX detection. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103724.	3.3	19
47	Atmospheric Loss Processes of Dimethyl and Diethyl Carbonate. <i>Journal of Atmospheric Chemistry</i> , 2002, 43, 151-174.	1.4	18
48	Adsorption Study of Acetone on Acid-Doped Ice Surfaces between 203 and 233 K. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14112-14117.	1.2	18
49	Human Exposure Chamber for Known Formaldehyde Levels: Generation and Validation. <i>Indoor and Built Environment</i> , 2005, 14, 173-182.	1.5	17
50	Development of a Toluene Detector Based on Deep UV Absorption Spectrophotometry Using Glass and Aluminum Capillary Tube Gas Cells with a LED Source. <i>Micromachines</i> , 2019, 10, 193.	1.4	16
51	Recent developments and trends in miniaturized gas preconcentrators for portable gas chromatography systems: A review. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130449.	4.0	16
52	Micro Milled Microfluidic Photoionization Detector for Volatile Organic Compounds. <i>Micromachines</i> , 2019, 10, 228.	1.4	15
53	The influence of reaction conditions on the photooxidation of diisopropyl ether. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 176, 86-97.	2.0	14
54	An assessment of indoor air quality in the maintenance room at Beirut-Rafic Hariri International Airport. <i>Atmospheric Pollution Research</i> , 2019, 10, 701-711.	1.8	14

#	ARTICLE	IF	CITATIONS
55	Kinetic studies of OH reactions with propylal, butylal and 1,3-dioxolane. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5622-5626.	1.3	12
56	Uptake Measurements of Dibasic Esters by Water Droplets and Determination of Their Henry's Law Constants. <i>Journal of Physical Chemistry A</i> , 2003, 107, 11433-11439.	1.1	12
57	Fast sorption measurements of volatile organic compounds on building materials: Part 1 "Methodology developed for field applications. <i>Building and Environment</i> , 2016, 99, 200-209.	3.0	12
58	BTEX near real-time monitoring in two primary schools in La Rochelle, France. <i>Air Quality, Atmosphere and Health</i> , 2018, 11, 1091-1107.	1.5	12
59	Easy-to-manufacture micro gas preconcentrator integrated in a portable GC for enhanced trace detection of BTEX. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128690.	4.0	12
60	Le formaldéhyde inhalé et la réponse bronchique. <i>Revue Des Maladies Respiratoires</i> , 2006, 23, 3S25-3S34.	1.7	11
61	Molar absorptivities of 2,4-D, cymoxanil, fenpropidin, isoproturon and pyrimethanil in aqueous solution in the near-UV. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 63, 103-110.	2.0	11
62	Adsorption of Hydroxyacetone on Pure Ice Surfaces. <i>ChemPhysChem</i> , 2010, 11, 3921-3927.	1.0	11
63	Fluorescence Microscopy Analysis of Particulate Matter from Biomass Burning: Polyaromatic Hydrocarbons as Main Contributors. <i>Aerosol Science and Technology</i> , 2015, 49, 1160-1169.	1.5	11
64	Characterization of a modular microfluidic photoionization detector. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128667.	4.0	11
65	Fast sorption measurements of VOCs on building materials: Part 2 "Comparison between FLEC and CLIMPAQ methods. <i>Building and Environment</i> , 2016, 99, 239-251.	3.0	10
66	Low-volume PEEK gas cell for BTEX detection using portable deep-UV absorption spectrophotometry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 243, 118727.	2.0	10
67	Photoinduced Proton Transfer Promoted by Peripheral Subunits for Some Hantzsch Esters. <i>Journal of Physical Chemistry A</i> , 2015, 119, 39-49.	1.1	9
68	Near Real-Time Monitoring of Formaldehyde in a Low-Energy School Building. <i>Atmosphere</i> , 2019, 10, 763.	1.0	9
69	VOC tracers from aircraft activities at Beirut Rafic Hariri International Airport. <i>Atmospheric Pollution Research</i> , 2019, 10, 537-551.	1.8	9
70	Continuous aldehydes monitoring in primary schools in France: Evaluation of emission sources and ventilation practices over 5 weeks. <i>Atmospheric Pollution Research</i> , 2021, 12, 340-351.	1.8	9
71	Near-UV molar absorptivities of alachlor, mecroprop-p, pendimethalin, propanil and trifluralin in methanol. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 193, 237-244.	2.0	8
72	An IoT-based scheme for real time indoor personal exposure assessment. , 2016, , .		8

#	ARTICLE	IF	CITATIONS
73	Development and Optimization of an Airborne Formaldehyde Microfluidic Analytical Device Based on Passive Uptake through a Microporous Tube. <i>Micromachines</i> , 2019, 10, 807.	1.4	8
74	Simultaneous Monitoring of Particle-Bound PAHs Inside a Low-Energy School Building and Outdoors over Two Weeks in France. <i>Atmosphere</i> , 2021, 12, 108.	1.0	8
75	Optofluidic fluorescence cell for the detection of low concentration toxic gases. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3441-3446.	4.0	6
76	Design of a Novel Axial Gas Pulses Micromixer and Simulations of its Mixing Abilities via Computational Fluid Dynamics. <i>Micromachines</i> , 2019, 10, 205.	1.4	6
77	Optofluidic Formaldehyde Sensing: Towards On-Chip Integration. <i>Micromachines</i> , 2020, 11, 673.	1.4	6
78	On-Line Gaseous Formaldehyde Detection Based on a Closed-Microfluidic-Circuit Analysis. <i>Chemosensors</i> , 2020, 8, 57.	1.8	6
79	UV absorption spectrum and Henry's law constant of EPTC. <i>Atmospheric Environment</i> , 2008, 42, 7940-7946.	1.9	5
80	An Assessment of Indoor Air Quality in the Arrivals Hall of Beirut's Rafic Hariri International Airport: Monitoring of VOCs and NO ₂ . <i>Atmosphere</i> , 2021, 12, 400.	1.0	5
81	Prototyping a Microfluidic Sensor for Real-Time Detection of Airborne Formaldehyde. <i>International Journal of Chemical Engineering and Applications (IJCEA)</i> , 2020, 11, 23-28.	0.3	5
82	Tropospheric multiphase chemistry of 2,5- and 2,6-dimethylphenols: determination of the mass accommodation coefficients and the Henry's law constants. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1714.	1.3	4
83	Data on comparison between FLEC and CLIMPAQ methods used for fast sorption measurements of VOCs on building materials. <i>Data in Brief</i> , 2016, 7, 518-523.	0.5	4
84	A Sensitive and Portable Deep-UV Absorbance Detector with a Microliter Gas Cell Compatible with Micro GC. <i>Chemosensors</i> , 2021, 9, 63.	1.8	4
85	Specific accumulation of CYP94A1 transcripts after exposure to gaseous benzaldehyde: Induction of lauric acid 13-hydroxylase activity in <i>Vicia sativa</i> exposed to atmospheric pollutants. <i>Environmental Research</i> , 2011, 111, 37-44.	3.7	3
86	Fast sorption measurements of volatile organic compounds on building materials: Part 1 – Methodology developed for field applications. <i>Data in Brief</i> , 2016, 6, 953-958.	0.5	3
87	Adsorbent screening for airborne BTEX analysis and removal. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103563.	3.3	3
88	Experimental Validation of a Novel Generator of Gas Mixtures Based on Axial Gas Pulses Coupled to a Micromixer. <i>Micromachines</i> , 2021, 12, 715.	1.4	2
89	Development of a Portable and Modular Gas Generator: Application to Formaldehyde Analysis. <i>Chemosensors</i> , 2022, 10, 131.	1.8	2
90	Le formaldéhyde inhalé et la réponse bronchique. <i>Revue Française D'allergologie Et D'immunologie Clinique</i> , 2007, 47, 80-83.	0.1	0

#	ARTICLE	IF	CITATIONS
91	Numerical simulation of the sorption phenomena during the transport of VOCs inside a capillary GC column. <i>Chemical Engineering Science</i> , 2021, 234, 116445.	1.9	0
92	In-situ measurements of sorption parameters with a Field and Laboratory Emission Cell (FLEC): a comparison to the test emission chamber method. <i>WIT Transactions on Ecology and the Environment</i> , 2015, , .	0.0	0