

Stéphane Le Calvé

List of Publications by Year in descending order

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92
papers

2,286
citations

201575

27
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265120

42
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93
all docs

93
docs citations

93
times ranked

2374
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a Portable and Modular Gas Generator: Application to Formaldehyde Analysis. <i>Chemosensors</i> , 2022, 10, 131.	1.8	2
2	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
3	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
4	An Assessment of Indoor Air Quality in the Arrivals Hall of Beirutâ€™Rafic Hariri International Airport: Monitoring of VOCs and NO ₂ . <i>Atmosphere</i> , 2021, 12, 400.	1.0	5
5	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
6	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
7	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
8	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
9	A review of optical interferometry techniques for VOC detection. <i>Sensors and Actuators A: Physical</i> , 2020, 302, 111782.	2.0	53
10	Adsorbent screening for airborne BTEX analysis and removal. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103563.	3.3	3
11	Characterization of a modular microfluidic photoionization detector. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128667.	4.0	11
12	Miniaturization of fluorescence sensing in optofluidic devices. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	1.0	31
13	Optofluidic Formaldehyde Sensing: Towards On-Chip Integration. <i>Micromachines</i> , 2020, 11, 673.	1.4	6
14	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
15	On-Line Gaseous Formaldehyde Detection Based on a Closed-Microfluidic-Circuit Analysis. <i>Chemosensors</i> , 2020, 8, 57.	1.8	6
16	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
17	Adsorptive removal of gaseous formaldehyde at realistic concentrations. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103986.	3.3	24
18	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

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19	Prototyping a Microfluidic Sensor for Real-Time Detection of Airborne Formaldehyde. International Journal of Chemical Engineering and Applications (IJCEA), 2020, 11, 23-28.	0.3	5
20	Micro Milled Microfluidic Photoionization Detector for Volatile Organic Compounds. Micromachines, 2019, 10, 228.	1.4	15
21	Design of a Novel Axial Gas Pulses Micromixer and Simulations of its Mixing Abilities via Computational Fluid Dynamics. Micromachines, 2019, 10, 205.	1.4	6
22	Development of a Toluene Detector Based on Deep UV Absorption Spectrophotometry Using Glass and Aluminum Capillary Tube Gas Cells with a LED Source. Micromachines, 2019, 10, 193.	1.4	16
23	Sub-ppb Level Detection of BTEX Gaseous Mixtures with a Compact Prototype GC Equipped with a Preconcentration Unit. Micromachines, 2019, 10, 187.	1.4	20
24	Micro photoionization detectors. Sensors and Actuators B: Chemical, 2019, 287, 86-94.	4.0	36
25	Near Real-Time Monitoring of Formaldehyde in a Low-Energy School Building. Atmosphere, 2019, 10, 763.	1.0	9
26	Gas Detection Using Portable Deep-UV Absorption Spectrophotometry: A Review. Sensors, 2019, 19, 5210.	2.1	43
27	Development and Optimization of an Airborne Formaldehyde Microfluidic Analytical Device Based on Passive Uptake through a Microporous Tube. Micromachines, 2019, 10, 807.	1.4	8
28	An assessment of indoor air quality in the maintenance room at Beirut-Rafic Hariri International Airport. Atmospheric Pollution Research, 2019, 10, 701-711.	1.8	14
29	VOC tracers from aircraft activities at Beirut Rafic Hariri International Airport. Atmospheric Pollution Research, 2019, 10, 537-551.	1.8	9
30	Optofluidic fluorescence cell for the detection of low concentration toxic gases. Sensors and Actuators B: Chemical, 2018, 255, 3441-3446.	4.0	6
31	Identifying the impact of Beirut Airport's activities on local air quality - Part I: Emissions inventory of NO2 and VOCs. Atmospheric Environment, 2018, 187, 435-444.	1.9	21
32	BTEX near real-time monitoring in two primary schools in La Rochelle, France. Air Quality, Atmosphere and Health, 2018, 11, 1091-1107.	1.5	12
33	On-line gaseous formaldehyde detection by a microfluidic analytical method based on simultaneous uptake and derivatization in a temperature controlled annular flow. Talanta, 2017, 172, 102-108.	2.9	20
34	Development of microfluidic analytical method for on-line gaseous Formaldehyde detection. Sensors and Actuators B: Chemical, 2017, 243, 963-970.	4.0	22
35	Data on comparison between FLEC and CLIMPAQ methods used for fast sorption measurements of VOCs on building materials. Data in Brief, 2016, 7, 518-523.	0.5	4
36	An IoT-based scheme for real time indoor personal exposure assessment. , 2016, , .		8

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55	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
56	Adsorption of Hydroxyacetone on Pure Ice Surfaces. <i>ChemPhysChem</i> , 2010, 11, 3921-3927.	1.0	11
57	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
58	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
59	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
60	Concentrations and determinants of gaseous aldehydes in 162 homes in Strasbourg (France). <i>Atmospheric Environment</i> , 2008, 42, 505-516.	1.9	66
61	UV absorption spectrum and Henry's law constant of EPTC. <i>Atmospheric Environment</i> , 2008, 42, 7940-7946.	1.9	5
62	Le formaldéhyde inhalé et la réponse bronchique. <i>Revue Francaise D'allergologie Et D'immunologie Clinique</i> , 2007, 47, 80-83.	0.1	0
63	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
64	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
65	Le formaldéhyde inhalé et la réponse bronchique. <i>Revue Des Maladies Respiratoires</i> , 2006, 23, 3S25-3S34.	1.7	11
66	Atmospheric Fate of Dichlorvos: Photolysis and OH-Initiated Oxidation Studies. <i>Environmental Science & Technology</i> , 2006, 40, 850-857.	4.6	43
67	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
68	Molar absorptivities of 2,4-D, cymoxanil, fenpropidin, isotroturon 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
69	Aldehyde measurements in indoor environments in Strasbourg (France). <i>Atmospheric Environment</i> , 2006, 40, 1336-1345.	1.9	111
70	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
71	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
72	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

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73	Human Exposure Chamber for Known Formaldehyde Levels: Generation and Validation. <i>Indoor and Built Environment</i> , 2005, 14, 173-182.	1.5	17
74	Adsorption of acetic acid on ice: Experiments and molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2005, 122, 194707.	1.2	46
75	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
76	Henry's law constants measurements of the nonylphenol isomer 4-(3,5-dimethyl-3-heptyl)-phenol, tertiary octylphenol and β -hexachlorocyclohexane between 278 and 298 K. <i>Atmospheric Environment</i> , 2004, 38, 4859-4868.	1.9	19
77	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
78	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
79	Photolysis of Chloral under Atmospheric Conditions. <i>Environmental Science & Technology</i> , 2004, 38, 831-837.	4.6	26
80	Experimental and Theoretical Adsorption Study of Ethanol on Ice Surfaces. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17425-17432.	1.2	37
81	Temperature dependence of Henry's law constants of metolachlor and diazinon. <i>Chemosphere</i> , 2004, 57, 319-327.	4.2	37
82	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
83	Henry's law constants measurements of alachlor and dichlorvos between 283 and 298K. <i>Atmospheric Environment</i> , 2003, 37, 2347-2353.	1.9	19
84	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
85	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
86	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
87	Atmospheric Loss Processes of Dimethyl and Diethyl Carbonate. <i>Journal of Atmospheric Chemistry</i> , 2002, 43, 151-174.	1.4	18
88	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
89	Kinetic Studies of OH Reactions with a Series of Ketones. <i>Journal of Physical Chemistry A</i> , 1998, 102, 4579-4584.	1.1	78
90	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

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91	Temperature Dependence for the Rate Coefficients of the Reactions of the OH Radical with a Series of Formates. Journal of Physical Chemistry A, 1997, 101, 5489-5493.	1.1	71
92	Kinetic Studies of OH Reactions with a Series of Acetates. The Journal of Physical Chemistry, 1996, 100, 12364-12368.	2.9	61