

VÃ©ronique Riffault

List of Publications by Year in descending order

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66
papers

1,633
citations

304602

22
h-index

345118

36
g-index

89
all docs

89
docs citations

89
times ranked

2240
citing authors

#	ARTICLE	IF	CITATIONS
1	ACTRIS ACSM intercomparison " Part 2: Intercomparison of ME-2 organic source apportionment results from 15 individual, co-located aerosol mass spectrometers. Atmospheric Measurement Techniques, 2015, 8, 2555-2576.	1.2	118
2	ACTRIS ACSM intercomparison " Part 1: Reproducibility of concentration and fragment results from 13 individual Quadrupole Aerosol Chemical Speciation Monitors (Q-ACSM) and consistency with co-located instruments. Atmospheric Measurement Techniques, 2015, 8, 5063-5087.	1.2	104
3	Genetic and epigenetic alterations in normal and sensitive COPD-diseased human bronchial epithelial cells repeatedly exposed to air pollution-derived PM 2.5. Environmental Pollution, 2017, 230, 163-177.	3.7	73
4	Comparison of the chemical composition of aerosols from heated tobacco products, electronic cigarettes and tobacco cigarettes and their toxic impacts on the human bronchial epithelial BEAS-2B cells. Journal of Hazardous Materials, 2021, 401, 123417.	6.5	73
5	VOC in an urban and industrial harbor on the French North Sea coast during two contrasted meteorological situations. Environmental Pollution, 2009, 157, 3001-3009.	3.7	65
6	Simultaneous determination by ultra-performance liquid chromatography"atmospheric pressure chemical ionization time-of-flight mass spectrometry of nitrated and oxygenated PAHs found in air and soot particles. Analytical and Bioanalytical Chemistry, 2010, 397, 243-256.	1.9	55
7	Geochemistry of PM₁₀ over Europe during the EMEP intensive measurement periods in summer 2012 and winter 2013. Atmospheric Chemistry and Physics, 2016, 16, 6107-6129.	1.9	54
8	Polyols and glucose particulate species as tracers of primary biogenic organic aerosols at 28 French sites. Atmospheric Chemistry and Physics, 2019, 19, 3357-3374.	1.9	53
9	Fine and Ultrafine Particles in the Vicinity of Industrial Activities: A Review. Critical Reviews in Environmental Science and Technology, 2015, 45, 2305-2356.	6.6	50
10	Aerosol formation yields from the reaction of catechol with ozone. Atmospheric Environment, 2009, 43, 2360-2365.	1.9	41
11	Evaluation of receptor and chemical transport models for PM10 source apportionment. Atmospheric Environment: X, 2020, 5, 100053.	0.8	41
12	European aerosol phenomenology " 8: Harmonised source apportionment of organic aerosol using 22 Year-long ACSM/AMS datasets. Environment International, 2022, 166, 107325.	4.8	41
13	Particulate metal bioaccessibility in physiological fluids and cell culture media: Toxicological perspectives. Environmental Research, 2017, 156, 148-157.	3.7	40
14	Investigating the Heterogeneous Interaction of VOCs with Natural Atmospheric Particles: Adsorption of Limonene and Toluene on Saharan Mineral Dusts. Journal of Physical Chemistry A, 2016, 120, 1197-1212.	1.1	35
15	Arabitol, mannitol, and glucose as tracers of primary biogenic organic aerosol: the influence of environmental factors on ambient air concentrations and spatial distribution over France. Atmospheric Chemistry and Physics, 2019, 19, 11013-11030.	1.9	35
16	Investigating water adsorption onto natural mineral dust particles: Linking DRIFTS experiments and BET theory. Aeolian Research, 2017, 27, 35-45.	1.1	34
17	Kinetic study of the reactions of OH and OD with HBr and DBr. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 128, 15-25.	2.0	32
18	Thermal Decomposition of HO ₂ NO ₂ (Peroxynitric Acid, PNA): Rate Coefficient and Determination of the Enthalpy of Formation. Journal of Physical Chemistry A, 2005, 109, 586-596.	1.1	30

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19	Toxicological effects of ambient fine (PM _{2.5-0.18}) and ultrafine (PM _{0.18}) particles in healthy and diseased 3D organo-typic mucociliary-phenotype models. <i>Environmental Research</i> , 2019, 176, 108538.	3.7	26
20	Long-range and local air pollution: what can we learn from chemical speciation of particulate matter at paired sites?. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 409-429.	1.9	24
21	Overview of the French Operational Network for In Situ Observation of PM Chemical Composition and Sources in Urban Environments (CARA Program). <i>Atmosphere</i> , 2021, 12, 207.	1.0	23
22	A European aerosol phenomenology - 7: High-time resolution chemical characteristics of submicron particulate matter across Europe. <i>Atmospheric Environment: X</i> , 2021, 10, 100108.	0.8	23
23	Heterogeneous Interaction of Isopropanol with Natural Gobi Dust. <i>Environmental Science & Technology</i> , 2016, 50, 11714-11722.	4.6	22
24	Fine particles sampled at an urban background site and an industrialized coastal site in Northern France – Part 1: Seasonal variations and chemical characterization. <i>Science of the Total Environment</i> , 2017, 578, 203-218.	3.9	22
25	Exposure to Atmospheric Ultrafine Particles Induces Severe Lung Inflammatory Response and Tissue Remodeling in Mice. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1210.	1.2	22
26	Characterization and variability of inorganic aerosols and their gaseous precursors at a suburban site in northern France over one year (2015–2016). <i>Atmospheric Environment</i> , 2019, 200, 142-157.	1.9	22
27	Intercomparison and characterization of 23 Aethalometers under laboratory and ambient air conditions: procedures and unit-to-unit variabilities. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3195-3216.	1.2	22
28	Kinetic Study of the Reactions of BrO Radicals with HO ₂ and DO ₂ . <i>Journal of Physical Chemistry A</i> , 2001, 105, 3167-3175.	1.1	21
29	Limonene photocatalytic oxidation at ppb levels: Assessment of gas phase reaction intermediates and secondary organic aerosol heterogeneous formation. <i>Applied Catalysis B: Environmental</i> , 2015, 168-169, 183-194.	10.8	21
30	Development and validation of an ultra-high-performance liquid chromatography coupled to time-of-flight mass spectrometry method to quantify benzoic acid and long-chain monocarboxylic acids (C ₁₂ –C ₂₈) in atmospheric aerosols. <i>Journal of Chromatography A</i> , 2009, 1216, 6481-6489.	1.8	19
31	Heterogeneous Interaction of Isoprene with Natural Gobi Dust. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 236-243.	1.2	18
32	Reactive and Nonreactive Ozone Uptake during Aging of Oleic Acid Particles. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9471-9481.	1.1	17
33	Chemical characterization and source apportionment of submicron aerosols measured in Senegal during the 2015 SHADOW campaign. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10291-10314.	1.9	17
34	Kinetics and mechanism of the reaction of OH with ClO. <i>International Journal of Chemical Kinetics</i> , 2001, 33, 587-599.	1.0	16
35	Kinetics and Mechanism of the O Atom Reaction with Dimethyl Sulfoxide. <i>Journal of Physical Chemistry A</i> , 2003, 107, 5404-5411.	1.1	16
36	Experimental Study of the Reactions of Limonene with OH and OD Radicals: Kinetics and Products. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9482-9490.	1.1	16

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37	Investigation on the near-field evolution of industrial plumes from metalworking activities. <i>Science of the Total Environment</i> , 2019, 668, 443-456.	3.9	16
38	Analysis of phthalic, isophthalic and long-chain (C ₄ –C ₁₂) dicarboxylic acids in atmospheric aerosols by UPLC/ESI/ToF-MS. <i>Analytical Methods</i> , 2011, 3, 1172.	1.3	15
39	Large-scale particulate air pollution and chemical fingerprint of volcanic sulfate aerosols from the 2014–2015 Holuhraun flood lava eruption of Bárðunga volcano (Iceland). <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14253-14287.	1.9	15
40	Kinetics and Mechanism of the OH and OD Reactions with BrO. <i>Journal of Physical Chemistry A</i> , 2001, 105, 6154-6166.	1.1	14
41	Kinetic Study of the Reactions of Br with HO ₂ and DO ₂ . <i>Journal of Physical Chemistry A</i> , 2001, 105, 573-578.	1.1	14
42	Source and behavior of isoprenoid compounds at a southern France remote site. <i>Atmospheric Environment</i> , 2013, 77, 272-282.	1.9	14
43	Investigation of the geographical origins of PM ₁₀ based on long, medium and short-range air mass back-trajectories impacting Northern France during the period 2009–2013. <i>Atmospheric Environment</i> , 2018, 193, 143-152.	1.9	14
44	Quantum yields for OH production in the photodissociation of HNO ₃ at 248 and 308 nm and H ₂ O ₂ at 308 and 320 nm. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1079.	1.3	13
45	Development of a New Flow Reactor for Kinetic Studies. Application to the Ozonolysis of a Series of Alkenes. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6169-6179.	1.1	13
46	Characterizing the regional contribution to PM ₁₀ pollution over northern France using two complementary approaches: Chemistry transport and trajectory-based receptor models. <i>Atmospheric Research</i> , 2019, 223, 1-14.	1.8	13
47	Overtone Dissociation of Peroxynitric Acid (HO ₂ NO ₂): Absorption Cross Sections and Photolysis Products. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9296-9303.	1.1	12
48	Kinetic and mechanistic study of the reactions of OH with IBr and HOI. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 176, 155-161.	2.0	11
49	Isoprene Heterogeneous Uptake and Reactivity on TiO ₂ : A Kinetic and Product Study. <i>International Journal of Chemical Kinetics</i> , 2017, 49, 773-788.	1.0	11
50	Real-time assessment of wintertime organic aerosol characteristics and sources at a suburban site in northern France. <i>Atmospheric Environment</i> , 2019, 203, 48-61.	1.9	11
51	Investigation of PM ₁₀ , PM _{2.5} , PM ₁ in an unoccupied airflow-controlled room: How reliable to neglect resuspension and assume unreactive particles?. <i>Building and Environment</i> , 2020, 186, 107357.	3.0	10
52	Kinetic and mechanistic study of the X and XO (X = Cl, Br) reactions with dimethyl sulfoxide. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 2828-2835.	1.3	9
53	Fine particles sampled at an urban background site and an industrialized coastal site in Northern France—Part 2: Comparison of offline and online analyses for carbonaceous aerosols. <i>Aerosol Science and Technology</i> , 2018, 52, 287-299.	1.5	9
54	Heterogeneous Interaction of Various Natural Dust Samples with Isopropyl Alcohol as a Probe VOC. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4911-4919.	1.1	9

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55	Near real-time PM1 chemical composition measurements at a French urban background and coastal site under industrial influence over more than a year: Temporal variability and assessment of sulfur-containing emissions. <i>Atmospheric Environment</i> , 2021, 244, 117960.	1.9	9
56	Kinetics and mechanism of the reaction of Cl atoms with HO2 radicals. <i>International Journal of Chemical Kinetics</i> , 2001, 33, 317-327.	1.0	8
57	Classical Molecular Dynamics Study of Small-Chain Carboxylic Acid Aerosol Particles. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 380-389.	1.2	7
58	Characterization and source apportionment of single particles from metalworking activities. <i>Environmental Pollution</i> , 2021, 270, 116078.	3.7	7
59	Chemically speciated mass size distribution, particle density, shape and origin of non-refractory PM₁ measured at a rural background site in central Europe. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5829-5858.	1.9	7
60	Aerosol variability induced by atmospheric dynamics in a coastal area of Senegal, North-Western Africa. <i>Atmospheric Environment</i> , 2019, 203, 228-241.	1.9	6
61	Temperature Dependence of the Rate Constant for the Reaction F(2P) + Cl2 → FCl + Cl at T = 180–360 K. <i>Journal of Physical Chemistry A</i> , 2004, 108, 1726-1730.	1.1	4
62	Using Real Time Measurements to Derive the Indoor and Outdoor Contributions of Submicron Particulate Species and Trace Gases. <i>Toxics</i> , 2022, 10, 161.	1.6	4
63	Modeling of the chemical composition of fine particulate matter: Development and performance assessment of EASYWRF-Chem. <i>Atmospheric Research</i> , 2016, 170, 41-51.	1.8	3
64	Temperature-Dependent Rate Coefficients and Theoretical Calculations for the OH+Cl2 O Reaction. <i>ChemPhysChem</i> , 2010, 11, 4060-4068.	1.0	1
65	Ozonolysis of a Series of Methylated Alkenes: Reaction Rate Coefficients and Gas-Phase Products. <i>International Journal of Chemical Kinetics</i> , 2015, 47, 596-605.	1.0	1
66	Thermal Decomposition of HO2NO2 (Peroxynitric Acid, PNA): Rate Coefficient and Determination of the Enthalpy of Formation.. <i>ChemInform</i> , 2005, 36, no.	0.1	0