

Sylvain Billet

List of Publications by Year in descending order

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38
papers

1,639
citations

304743

22
h-index

345221

36
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38
all docs

38
docs citations

38
times ranked

2322
citing authors

#	ARTICLE	IF	CITATIONS
1	Ambient particulate matter (PM _{2.5}): Physicochemical characterization and metabolic activation of the organic fraction in human lung epithelial cells (A549). <i>Environmental Research</i> , 2007, 105, 212-223.	7.5	138
2	Activation of different pathways of apoptosis by air pollution particulate matter (PM _{2.5}) in human epithelial lung cells (L132) in culture. <i>Toxicology</i> , 2006, 225, 12-24.	4.2	137
3	Proinflammatory effects and oxidative stress within human bronchial epithelial cells exposed to atmospheric particulate matter (PM _{2.5} and PM _{2.5-10}) collected from Cotonou, Benin. <i>Environmental Pollution</i> , 2014, 185, 340-351.	7.5	136
4	Prooxidant and Proinflammatory Potency of Air Pollution Particulate Matter (PM _{2.5}) Produced in Rural, Urban, or Industrial Surroundings in Human Bronchial Epithelial Cells (BEAS-2B). <i>Chemical Research in Toxicology</i> , 2012, 25, 904-919.	3.3	118
5	Temporal and spatial variations of the physicochemical characteristics of air pollution Particulate Matter (PM _{2.5}) and toxicological effects in human bronchial epithelial cells (BEAS-2B). <i>Environmental Research</i> , 2015, 137, 256-267.	7.5	93
6	Genotoxic potential of Polycyclic Aromatic Hydrocarbons-coated onto airborne Particulate Matter (PM _{2.5}) in human lung epithelial A549 cells. <i>Cancer Letters</i> , 2008, 270, 144-155.	7.2	90
7	Role of nuclear factor- κ B activation in the adverse effects induced by air pollution particulate matter (PM _{2.5}) in human epithelial lung cells (L132) in culture. <i>Journal of Applied Toxicology</i> , 2007, 27, 284-290.	2.8	84
8	Relationship between physicochemical characterization and toxicity of fine particulate matter (PM _{2.5}) collected in Dakar city (Senegal). <i>Environmental Research</i> , 2012, 113, 1-13.	7.5	69
9	Fine and ultrafine atmospheric particulate matter at a multi-influenced urban site: Physicochemical characterization, mutagenicity and cytotoxicity. <i>Environmental Pollution</i> , 2017, 221, 130-140.	7.5	65
10	Oxidative damage induced in A549 cells by physically and chemically characterized air particulate matter (PM _{2.5}) collected in Abidjan, Côte d'Ivoire. <i>Journal of Applied Toxicology</i> , 2010, 30, 310-320.	2.8	56
11	Air pollution particulate matter (PM _{2.5})-induced gene expression of volatile organic compound and/or polycyclic aromatic hydrocarbon-metabolizing enzymes in an in vitro coculture lung model. <i>Toxicology in Vitro</i> , 2009, 23, 37-46.	2.4	52
12	Syngas production by the CO ₂ reforming of CH ₄ over Ni-Co-Mg-Al catalysts obtained from hydrotalcite precursors. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12818-12828.	7.1	52
13	Polycyclic aromatic hydrocarbons within airborne particulate matter (PM _{2.5}) produced DNA bulky stable adducts in a human lung cell coculture model. <i>Journal of Applied Toxicology</i> , 2013, 33, 109-119.	2.8	49
14	Comparative study of diesel and biodiesel exhausts on lung oxidative stress and genotoxicity in rats. <i>Environmental Pollution</i> , 2018, 235, 514-524.	7.5	47
15	Characterisation and seasonal variations of particles in the atmosphere of rural, urban and industrial areas: Organic compounds. <i>Journal of Environmental Sciences</i> , 2016, 44, 45-56.	6.1	44
16	Gene expression induction of volatile organic compound and/or polycyclic aromatic hydrocarbon-metabolizing enzymes in isolated human alveolar macrophages in response to airborne particulate matter (PM _{2.5}). <i>Toxicology</i> , 2008, 244, 220-230.	4.2	40
17	Mutagenicity and clastogenicity of native airborne particulate matter samples collected under industrial, urban or rural influence. <i>Toxicology in Vitro</i> , 2014, 28, 866-874.	2.4	40
18	Air Pollution modifies the association between successful and pathological aging throughout the frailty condition. <i>Ageing Research Reviews</i> , 2015, 24, 299-303.	10.9	40

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19	Chemical characterization of fine and ultrafine PM, direct and indirect genotoxicity of PM and their organic extracts on pulmonary cells. <i>Journal of Environmental Sciences</i> , 2018, 71, 168-178.	6.1	35
20	Xenobiotic metabolism induction and bulky DNA adducts generated by particulate matter pollution in BEAS-2B cell line: geographical and seasonal influence. <i>Journal of Applied Toxicology</i> , 2014, 34, 703-713.	2.8	31
21	Occurrence of molecular abnormalities of cell cycle in L132 cells after in vitro short-term exposure to air pollution PM _{2.5} . <i>Chemico-Biological Interactions</i> , 2010, 188, 558-565.	4.0	26
22	Smoker extracellular vesicles influence status of human bronchial epithelial cells. <i>International Journal of Hygiene and Environmental Health</i> , 2017, 220, 445-454.	4.3	26
23	Identification of by-products issued from the catalytic oxidation of toluene by chemical and biological methods. <i>Comptes Rendus Chimie</i> , 2015, 18, 1084-1093.	0.5	22
24	Impact of Sea Breeze Dynamics on Atmospheric Pollutants and Their Toxicity in Industrial and Urban Coastal Environments. <i>Remote Sensing</i> , 2020, 12, 648.	4.0	20
25	Usefulness of toxicological validation of VOCs catalytic degradation by air-liquid interface exposure system. <i>Environmental Research</i> , 2017, 152, 328-335.	7.5	16
26	Benzo[a]pyrene, Aflatoxine B1 and Acetaldehyde Mutational Patterns in TP53 Gene Using a Functional Assay: Relevance to Human Cancer Aetiology. <i>PLoS ONE</i> , 2012, 7, e30921.	2.5	16
27	Benzene-induced mutational pattern in the tumour suppressor gene TP53 analysed by use of a functional assay, the functional analysis of separated alleles in yeast, in human lung cells. <i>Archives of Toxicology</i> , 2010, 84, 99-107.	4.2	14
28	Physicochemical characteristics, mutagenicity and genotoxicity of airborne particles under industrial and rural influences in Northern Lebanon. <i>Environmental Science and Pollution Research</i> , 2017, 24, 18782-18797.	5.3	14
29	In vitro toxicological evaluation of emissions from catalytic oxidation removal of industrial VOCs by air/liquid interface (ALI) exposure system in repeated mode. <i>Toxicology in Vitro</i> , 2019, 58, 110-117.	2.4	12
30	Extracellular vesicles as actors in the air pollution related cardiopulmonary diseases. <i>Critical Reviews in Toxicology</i> , 2020, 50, 402-423.	3.9	11
31	Caractérisation physico-chimique et effets cytotoxiques de particules atmosphériques PM _{2,5} de la ville de Dakar (Sénégal). <i>Toxicologie Analytique Et Clinique</i> , 2011, 23, 157-167.	0.1	11
32	Influence of aging in the modulation of epigenetic biomarkers of carcinogenesis after exposure to air pollution. <i>Experimental Gerontology</i> , 2018, 110, 125-132.	2.8	9
33	The toxicity of SiO ₂ NPs on cell proliferation and cellular uptake of human lung fibroblastic cell line during the variation of calcination temperature and its modeling by artificial neural network. <i>Journal of Environmental Health Science & Engineering</i> , 2021, 19, 985-995.	3.0	9
34	Inflammation at the Crossroads: the Combined Effects of COVID-19, Ageing, and Air Pollution. <i>Journal of Frailty & Aging</i> , 2021, 10, 1-5.	1.3	7
35	Toxicological Impact of Air Pollution Particulate Matter (PM _{2.5}) Collected under Urban, Industrial or Rural Influence: Occurrence of Oxidative Stress and Inflammatory Reaction in BEAS-2B Human Bronchial Epithelial Cells (Corrected Version). <i>Advanced Materials Research</i> , 2011, 324, 489-492.	0.3	5
36	Toxicological responses of BEAS-2B cells to repeated exposures to benzene, toluene, m-xylene, and mesitylene using air-liquid interface method. <i>Journal of Applied Toxicology</i> , 2020, 41, 1262-1274.	2.8	3

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37	A prospective pilot study of the Tâ€lymphocyte response to fine particulate matter exposure. Journal of Applied Toxicology, 2020, 40, 619-630.	2.8	2
38	Metabolic Activation of the Organic Fraction Coated-Onto Air Pollution PM_{2.5} and its Genotoxicity in a Co-Culture Model of Human Lung Cells. Advanced Materials Research, 2011, 324, 473-476.	0.3	0