

Sylvain Billet

List of Publications by Citations

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38
papers

1,332
citations

21
h-index

36
g-index

38
ext. papers

1,480
ext. citations

5.2
avg, IF

3.86
L-index

#	Paper	IF	Citations
38	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, 212-23	7.9	123
37	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	4.4	118
36	Proinflammatory effects and oxidative stress within human bronchial epithelial cells exposed to atmospheric particulate matter (PM _{2.5} and PM(>2.5)) collected from Cotonou, Benin. <i>Environmental Pollution</i> , 2014 , 185, 340-51	9.3	116
35	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, 904-19	4	102
34	Temporal-spatial variations of the physicochemical characteristics of air pollution Particulate Matter (PM _{2.5-0.3}) and toxicological effects in human bronchial epithelial cells (BEAS-2B). <i>Environmental Research</i> , 2015 , 137, 256-67	7.9	82
33	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, 144-55	9.9	78
32	Role of nuclear factor-kappa 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, 284-90	4.1	77
31	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	7.9	58
30	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	9.3	54
29	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	3.6	46
28	Oxidative damage induced in A549 cells by physically and chemically characterized air particulate matter (PM _{2.5}) collected in Abidjan, Cte d'Ivoire. <i>Journal of Applied Toxicology</i> , 2010 , 30, 310-20	4.1	44
27	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, 109-19	4.1	39
26	Comparative study of diesel and biodiesel exhausts on lung oxidative stress and genotoxicity in rats. <i>Environmental Pollution</i> , 2018 , 235, 514-524	9.3	38
25	Mutagenicity and clastogenicity of native airborne particulate matter samples collected under industrial, urban or rural influence. <i>Toxicology in Vitro</i> , 2014 , 28, 866-74	3.6	36
24	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	6.4	35
23	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, 220-30	4.4	34
22	Syngas production by the CO ₂ reforming of CH ₄ over NiCoMgAl catalysts obtained from hydrotalcite precursors. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 12818-12828	6.7	33

21	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	6.4	26
20	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, 558-65	5	23
19	Air Pollution modifies the association between successful and pathological aging throughout the frailty condition. <i>Ageing Research Reviews</i> , 2015 , 24, 299-303	12	22
18	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, 703-134.1	4.1	22
17	Smoker extracellular vesicles influence status of human bronchial epithelial cells. <i>International Journal of Hygiene and Environmental Health</i> , 2017 , 220, 445-454	6.9	21
16	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	2.7	17
15	Usefulness of toxicological validation of VOCs catalytic degradation by air-liquid interface exposure system. <i>Environmental Research</i> , 2017 , 152, 328-335	7.9	13
14	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	5.8	13
13	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	5.1	12
12	Benzo[a]pyrene, aflatoxine B ₁ and acetaldehyde mutational patterns in TP53 gene using a functional assay: relevance to human cancer aetiology. <i>PLoS ONE</i> , 2012 , 7, e30921	3.7	9
11	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	3.6	8
10	Impact of Sea Breeze Dynamics on Atmospheric Pollutants and Their Toxicity in Industrial and Urban Coastal Environments. <i>Remote Sensing</i> , 2020 , 12, 648	5	7
9	Extracellular vesicles as actors in the air pollution related cardiopulmonary diseases. <i>Critical Reviews in Toxicology</i> , 2020 , 50, 402-423	5.7	6
8	Toxicological Impact of Air Pollution Particulate Matter (PM2.5) 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	0.5	5
7	Influence of aging in the modulation of epigenetic biomarkers of carcinogenesis after exposure to air pollution. <i>Experimental Gerontology</i> , 2018 , 110, 125-132	4.5	5
6	Inflammation at the Crossroads: the Combined Effects of COVID-19, Ageing, and Air Pollution. <i>Journal of Frailty & Aging, the</i> , 2021 , 10, 281-285	2.6	4
5	The toxicity of SiO 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	2.9	3
4	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	0.4	2

3	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> , 2021 , 41, 1262-1274	4.1	1
2	A prospective pilot study of the T-lymphocyte response to fine particulate matter exposure. <i>Journal of Applied Toxicology</i> , 2020 , 40, 619-630	4.1	0
1	Metabolic Activation of the Organic Fraction Coated-Onto Air Pollution PM2.5 and its Genotoxicity in a Co-Culture Model of Human Lung Cells. <i>Advanced Materials Research</i> , 2011 , 324, 473-476	0.5	