

Guillaume Garcon

List of Publications by Year in descending order

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90
papers

4,850
citations

61857

43
h-index

98622

67
g-index

92
all docs

92
docs citations

92
times ranked

6495
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting Chelatable Iron as a Therapeutic Modality in Parkinson's Disease. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 195-210.	2.5	488
2	Behavior of <i>Trifolium repens</i> and <i>Lolium perenne</i> growing in a heavy metal contaminated field: Plant metal concentration and phytotoxicity. <i>Environmental Pollution</i> , 2007, 147, 546-553.	3.7	147
3	Mitochondrial oxidative stress is the achille's heel of melanoma cells resistant to Braf-mutant inhibitor. <i>Oncotarget</i> , 2013, 4, 1986-1998.	0.8	145
4	Polycyclic aromatic hydrocarbon derivatives in airborne particulate matter: sources, analysis and toxicity. <i>Environmental Chemistry Letters</i> , 2018, 16, 439-475.	8.3	141
5	Ambient particulate matter (PM2.5): Physicochemical characterization and metabolic activation of the organic fraction in human lung epithelial cells (A549). <i>Environmental Research</i> , 2007, 105, 212-223.	3.7	138
6	Activation of different pathways of apoptosis by air pollution particulate matter (PM2.5) in human epithelial lung cells (L132) in culture. <i>Toxicology</i> , 2006, 225, 12-24.	2.0	137
7	Prooxidant and Proinflammatory Potency of Air Pollution Particulate Matter (PM _{2.5} $\leq 0.3 \mu\text{m}$) Produced in Rural, Urban, or Industrial Surroundings in Human Bronchial Epithelial Cells (BEAS-2B). <i>Chemical Research in Toxicology</i> , 2012, 25, 904-919.	1.7	118
8	Dunkerque City air pollution particulate matter-induced cytotoxicity, oxidative stress and inflammation in human epithelial lung cells (L132) in culture. <i>Toxicology in Vitro</i> , 2006, 20, 519-528.	1.1	116
9	Panel of Oxidative Stress and Inflammatory Biomarkers in ALS: A Pilot Study. <i>Canadian Journal of Neurological Sciences</i> , 2017, 44, 90-95.	0.3	105
10	Air pollution-derived PM2.5 impairs mitochondrial function in healthy and chronic obstructive pulmonary diseased human bronchial epithelial cells. <i>Environmental Pollution</i> , 2018, 243, 1434-1449.	3.7	102
11	Temporal-spatial variations of the physicochemical characteristics of air pollution Particulate Matter (PM _{2.5} $\leq 0.3 \mu\text{m}$) and toxicological effects in human bronchial epithelial cells (BEAS-2B). <i>Environmental Research</i> , 2015, 137, 256-267.	3.7	93
12	A ferroptosis-based panel of prognostic biomarkers for Amyotrophic Lateral Sclerosis. <i>Scientific Reports</i> , 2019, 9, 2918.	1.6	91
13	Genotoxic potential of Polycyclic Aromatic Hydrocarbons-coated onto airborne Particulate Matter (PM2.5) in human lung epithelial A549 cells. <i>Cancer Letters</i> , 2008, 270, 144-155.	3.2	90
14	Could Conservative Iron Chelation Lead to Neuroprotection in Amyotrophic Lateral Sclerosis? © Caroline Moreau <i>et al</i>. 2018; Published by Mary Ann Liebert, Inc. This Open Access article distributed under the terms of the Creative Commons License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 742-748.	2.5	86
15	Role of nuclear factor-kappa B activation in the adverse effects induced by air pollution particulate matter (PM2.5) in human epithelial lung cells (L132) in culture. <i>Journal of Applied Toxicology</i> , 2007, 27, 284-290.	1.4	84
16	Ceruloplasmin activity and iron chelation treatment of patients with Parkinson's disease. <i>BMC Neurology</i> , 2015, 15, 74.	0.8	83
17	Pro-inflammatory effects of Dunkerque city air pollution particulate matter 2.5 in human epithelial lung cells (L132) in culture. <i>Journal of Applied Toxicology</i> , 2005, 25, 166-175.	1.4	79
18	Seasonal and annual variations of metal uptake, bioaccumulation, and toxicity in <i>Trifolium repens</i> and <i>Lolium perenne</i> growing in a heavy metal-contaminated field. <i>Environmental Science and Pollution Research</i> , 2009, 16, 42-53.	2.7	78

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19	Chemical Evaluation of Electronic Cigarettes: Multicomponent Analysis of Liquid Refills and their Corresponding Aerosols. <i>Journal of Analytical Toxicology</i> , 2017, 41, 670-678.	1.7	77
20	Biomonitoring of the adverse effects induced by the chronic exposure to lead and cadmium on kidney function: Usefulness of alpha-glutathione S-transferase. <i>Science of the Total Environment</i> , 2007, 377, 165-172.	3.9	76
21	In vitro evaluation of organic extractable matter from ambient PM _{2.5} using human bronchial epithelial BEAS-2B cells: Cytotoxicity, oxidative stress, pro-inflammatory response, genotoxicity, and cell cycle deregulation. <i>Environmental Research</i> , 2019, 171, 510-522.	3.7	74
22	Genetic and epigenetic alterations in normal and sensitive COPD-diseased human bronchial epithelial cells repeatedly exposed to air pollution-derived PM 2.5. <i>Environmental Pollution</i> , 2017, 230, 163-177.	3.7	73
23	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. <i>Journal of Hazardous Materials</i> , 2021, 401, 123417.	6.5	73
24	Glucose metabolism and NRF2 coordinate the antioxidant response in melanoma resistant to MAPK inhibitors. <i>Cell Death and Disease</i> , 2018, 9, 325.	2.7	71
25	Assessment of fly ash-aided phytostabilisation of highly contaminated soils after an 8-year field trial. <i>Science of the Total Environment</i> , 2011, 409, 647-654.	3.9	70
26	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.	3.7	69
27	Effects of environmental cadmium and lead exposure on adults neighboring a discharge: Evidences of adverse health effects. <i>Environmental Pollution</i> , 2015, 206, 247-255.	3.7	67
28	Biologic Markers of Oxidative Stress and Nephrotoxicity as Studied in Biomonitoring of Adverse Effects of Occupational Exposure to Lead and Cadmium. <i>Journal of Occupational and Environmental Medicine</i> , 2004, 46, 1180-1186.	0.9	64
29	A pharmaco-metabolomics approach in a clinical trial of ALS: Identification of predictive markers of progression. <i>PLoS ONE</i> , 2018, 13, e0198116.	1.1	64
30	Influence of fly ash aided phytostabilisation of Pb, Cd and Zn highly contaminated soils on <i>Lolium perenne</i> and <i>Trifolium repens</i> metal transfer and physiological stress. <i>Environmental Pollution</i> , 2011, 159, 1721-1729.	3.7	60
31	Comparison of cellular and transcriptomic effects between electronic cigarette vapor and cigarette smoke in human bronchial epithelial cells. <i>Toxicology in Vitro</i> , 2017, 45, 417-425.	1.1	59
32	Assessment of fly ash-aided phytostabilisation of highly contaminated soils after an 8-year field trial. <i>Science of the Total Environment</i> , 2011, 409, 4504-4510.	3.9	58
33	Differential responses of healthy and chronic obstructive pulmonary diseased human bronchial epithelial cells repeatedly exposed to air pollution-derived PM ₄ . <i>Environmental Pollution</i> , 2016, 218, 1074-1088.	3.7	58
34	Mycorrhization alleviates benzo[a]pyrene-induced oxidative stress in an in vitro chicory root model. <i>Phytochemistry</i> , 2009, 70, 1421-1427.	1.4	57
35	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.	1.4	56
36	In vitro short-term exposure to air pollution PM _{2.5-0.3} induced cell cycle alterations and genetic instability in a human lung cell coculture model. <i>Environmental Research</i> , 2016, 147, 146-158.	3.7	54

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37	Benzo(a)pyrene-coated onto Fe ₂ O ₃ particles-induced lung tissue injury: role of free radicals. <i>Cancer Letters</i> , 2001, 167, 7-15.	3.2	53
38	Low-dose aspirin prevents age-related endothelial dysfunction in a mouse model of physiological aging. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H1562-H1570.	1.5	53
39	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.	1.1	52
40	Influence of puffing conditions on the carbonyl composition of e-cigarette aerosols. <i>International Journal of Hygiene and Environmental Health</i> , 2019, 222, 136-146.	2.1	52
41	In vitro evaluation of the oxidative stress and genotoxic potentials of anthracene on mycorrhizal chicory roots. <i>Environmental and Experimental Botany</i> , 2008, 64, 120-127.	2.0	51
42	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.	1.4	49
43	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.	3.2	44
44	Low-level environmental exposure to lead and renal adverse effects: A cross-sectional study in the population of children bordering the Mbeubeuss landfill near Dakar, Senegal. <i>Human and Experimental Toxicology</i> , 2012, 31, 1280-1291.	1.1	43
45	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.	2.0	40
46	Particulate metal bioaccessibility in physiological fluids and cell culture media: Toxicological perspectives. <i>Environmental Research</i> , 2017, 156, 148-157.	3.7	40
47	Trace elements in e-liquids - Development and validation of an ICP-MS method for the analysis of electronic cigarette refills. <i>Regulatory Toxicology and Pharmacology</i> , 2016, 79, 144-148.	1.3	39
48	Antioxidant defense disruption by polycyclic aromatic hydrocarbons-coated onto Fe ₂ O ₃ particles in human lung cells (A549). <i>Toxicology</i> , 2001, 166, 129-137.	2.0	38
49	Mutagenicity and genotoxicity of PM _{2.5} issued from an urbano-industrialized area of Dunkerque (France). <i>Journal of Applied Toxicology</i> , 2011, 31, 131-138.	1.4	38
50	Pulmonary induction of proinflammatory mediators following the rat exposure to benzo(a)pyrene-coated onto Fe ₂ O ₃ particles. <i>Toxicology Letters</i> , 2001, 121, 107-117.	0.4	37
51	Co-Mg-Al oxides issued of hydrotalcite precursors for total oxidation of volatile organic compounds. Identification and toxicological impact of the by-products. <i>Comptes Rendus Chimie</i> , 2010, 13, 494-501.	0.2	37
52	Mitochondrial alterations triggered by repeated exposure to fine (PM _{2.5-0.18}) and quasi-ultrafine (PM _{0.18}) fractions of ambient particulate matter. <i>Environment International</i> , 2020, 142, 105830.	4.8	37
53	Polycyclic aromatic hydrocarbon coated onto Fe ₂ O ₃ particles: assessment of cellular membrane damage and antioxidant system disruption in human epithelial lung cells (L132) in culture. <i>Toxicology Letters</i> , 2000, 117, 25-35.	0.4	33
54	Environmental lead exposure and its relationship to traffic density among Senegalese children: a cross-sectional study. <i>Human and Experimental Toxicology</i> , 2006, 25, 637-644.	1.1	33

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55	Role of air pollution Particulate Matter (PM2.5) in the occurrence of loss of heterozygosity in multiple critical regions of 3p chromosome in human epithelial lung cells (L132). <i>Toxicology Letters</i> , 2009, 187, 172-179.	0.4	33
56	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.	1.4	31
57	Effects of engineered iron nanoparticles on the bryophyte, <i>Physcomitrella patens</i> (Hedw.) Bruch & Schimp, after foliar exposure. <i>Ecotoxicology and Environmental Safety</i> , 2015, 113, 499-505.	2.9	29
58	Arbuscular mycorrhiza partially protect chicory roots against oxidative stress induced by two fungicides, fenpropimorph and fenhexamid. <i>Mycorrhiza</i> , 2010, 20, 167-178.	1.3	28
59	Toxicity of fine and quasi-ultrafine particles: Focus on the effects of organic extractable and non-extractable matter fractions. <i>Chemosphere</i> , 2020, 243, 125440.	4.2	28
60	Sampling analysis and characterization of particles in the atmosphere of rural, urban and industrial areas. <i>Procedia Environmental Sciences</i> , 2011, 4, 218-227.	1.3	27
61	Individual exposure level following indoor and outdoor air pollution exposure in Dakar (Senegal). <i>Environmental Pollution</i> , 2019, 248, 397-407.	3.7	27
62	Occurrence of molecular abnormalities of cell cycle in L132 cells after in vitro short-term exposure to air pollution PM2.5. <i>Chemico-Biological Interactions</i> , 2010, 188, 558-565.	1.7	26
63	Toxicological effects of ambient fine (PM2.5-0.18) and ultrafine (PM0.18) particles in healthy and diseased 3D organo-typic mucociliary-phenotype models. <i>Environmental Research</i> , 2019, 176, 108538.	3.7	26
64	Benzo(a)pyrene-coated onto Fe2O3 particles-induced apoptotic events in the lungs of Sprague-Dawley rats. <i>Toxicology Letters</i> , 2003, 143, 223-232.	0.4	25
65	Environmental lead exposure and its relationship to traffic density among Senegalese children: a pilot study. <i>Human and Experimental Toxicology</i> , 2003, 22, 559-564.	1.1	24
66	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
67	Study of in vitro and in vivo genotoxic effects of air pollution fine (PM2.5-0.18) and quasi-ultrafine (PM0.18) particles on lung models. <i>Science of the Total Environment</i> , 2020, 711, 134666.	3.9	22
68	Toxicological appraisal of the chemical fractions of ambient fine (PM2.5-0.3) and quasi-ultrafine (PM0.3) particles in human bronchial epithelial BEAS-2B cells. <i>Environmental Pollution</i> , 2020, 263, 114620.	3.7	22
69	Effect of Fe2O3 on the capacity of benzo(a)pyrene to induce polycyclic aromatic hydrocarbon-metabolizing enzymes in the respiratory tract of Sprague-Dawley rats. <i>Toxicology Letters</i> , 2004, 150, 179-189.	0.4	21
70	Renal impairment assessment on adults living nearby a landfill: Early kidney dysfunction biomarkers linked to the environmental exposure to heavy metals. <i>Toxicology Reports</i> , 2021, 8, 386-394.	1.6	18
71	Continuous cerebroventricular administration of dopamine: A new treatment for severe dyskinesia in Parkinson's disease?. <i>Neurobiology of Disease</i> , 2017, 103, 24-31.	2.1	17
72	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.	1.1	16

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73	Changes in Fatty Acid Composition and Content of Two Plants (<i>Lolium perenne</i> and <i>Trifolium repens</i>) Grown During 6 and 18 Months in a Metal (Pb, Cd, Zn) Contaminated Field. <i>Water, Air, and Soil Pollution</i> , 2008, 192, 281-291.	1.1	15
74	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.	1.9	14
75	Physico-chemical characterization and in vitro inflammatory and oxidative potency of atmospheric particles collected in Dakar city's (Senegal). <i>Environmental Pollution</i> , 2019, 245, 568-581.	3.7	13
76	Peripheral markers (clara cell protein and γ -glutamyltransferase) and lipid peroxidation (malondialdehyde) assessment in Sprague-Dawley rats instilled with haematite and benzo[a]pyrene. , 1998, 18, 39-45.		12
77	Influence of iron (Fe ₂ O ₃ or Fe ₃ O ₄) in the upregulation of cytochrome P4501A1 by benzo[a]pyrene in the respiratory tract of Sprague-Dawley rats. <i>Journal of Applied Toxicology</i> , 2004, 24, 249-256.	1.4	12
78	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
79	Comparison of the in vivo genotoxicity of electronic and conventional cigarettes aerosols after subacute, subchronic and chronic exposures.. <i>Journal of Hazardous Materials</i> , 2022, 423, 127246.	6.5	9
80	Whole and fractionated human platelet lysate biomaterials-based biotherapy induces strong neuroprotection in experimental models of amyotrophic lateral sclerosis. <i>Biomaterials</i> , 2022, 280, 121311.	5.7	9
81	Modification of the proteinase/anti-proteinase balance in the respiratory tract of Sprague-Dawley rats after single intratracheal instillation of benzo[A]pyrene-coated onto Fe ₂ O ₃ particles. <i>Journal of Applied Toxicology</i> , 2000, 20, 265-271.	1.4	8
82	SYNTHESIS OF NEW FLUORESCENT β -CYCLODEXTRIN SENSOR. <i>Heterocyclic Communications</i> , 2005, 11, .	0.6	7
83	A New Strategy to Preserve and Assess Oxygen Consumption in Murine Tissues. <i>International Journal of Molecular Sciences</i> , 2022, 23, 109.	1.8	7
84	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
85	Involvement of oxidative stress in the toxicity of 4-monochlorophenol in Hep G2 cells in culture. <i>Journal of Applied Toxicology</i> , 2003, 23, 109-114.	1.4	4
86	Metal enriched quasi-ultrafine particles from stainless steel gas metal arc welding induced genetic and epigenetic alterations in BEAS-2B cells. <i>NanoImpact</i> , 2021, 23, 100346.	2.4	4
87	Short-term and residential exposure to air pollution: Associations with inflammatory biomarker levels in adults living in northern France. <i>Science of the Total Environment</i> , 2022, 833, 154985.	3.9	3
88	Mécanismes cellulaires de la synergie d'action de polluants atmosphériques (Fe ₂ O ₃ ET HPA) dans l'apparition du cancer broncho-pulmonaire. <i>Revue Française Des Laboratoires</i> , 2003, 2003, 59-68.	0.0	1
89	Toxicity of iron nanoparticles towards primary cultures of human bronchial epithelial cells. <i>Journal of Applied Toxicology</i> , 2021, 41, 203-215.	1.4	1
90	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. <i>Advanced Materials Research</i> , 2011, 324, 473-476.	0.3	0