

Dominique Courcot

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

3,164
citations

147726

31
h-index

161767

54
g-index

83
all docs

83
docs citations

83
times ranked

3944
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Polycyclic aromatic hydrocarbon derivatives in airborne particulate matter: sources, analysis and toxicity. <i>Environmental Chemistry Letters</i> , 2018, 16, 439-475. | 8.3 | 141 |
| 2 | 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. | 3.7 | 138 |
| 3 | 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. | 2.0 | 137 |
| 4 | Proinflammatory effects and oxidative stress within human bronchial epithelial cells exposed to atmospheric particulate matter (PM _{2.5} and PM ₁₀) collected from Cotonou, Benin. <i>Environmental Pollution</i> , 2014, 185, 340-351. | 3.7 | 136 |
| 5 | Catalysts for NO _x selective catalytic reduction by hydrocarbons (HC-SCR). <i>Applied Catalysis A: General</i> , 2015, 504, 542-548. | 2.2 | 122 |
| 6 | 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. | 1.7 | 118 |
| 7 | 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 |
| 8 | Chemical profile identification of fugitive and confined particle emissions from an integrated iron and steelmaking plant. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 246-255. | 6.5 | 113 |
| 9 | Temporal-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. | 3.7 | 93 |
| 10 | 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, 284-290. | 1.4 | 84 |
| 11 | Contributions of local and regional anthropogenic sources of metals in PM _{2.5} at an urban site in northern France. <i>Chemosphere</i> , 2017, 181, 713-724. | 4.2 | 81 |
| 12 | 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 |
| 13 | Identification of Vanadium Oxide Species and Trapped Single Electrons in Interaction with the CeVO ₄ Phase in Vanadium-Cerium Oxide Systems. 51V MAS NMR, EPR, Raman, and Thermal Analysis Studies. <i>Chemistry of Materials</i> , 2002, 14, 4118-4125. | 3.2 | 78 |
| 14 | 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 |
| 15 | 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 |
| 16 | Genotoxic and epigenotoxic effects of fine particulate matter from rural and urban sites in Lebanon on human bronchial epithelial cells. <i>Environmental Research</i> , 2015, 136, 352-362. | 3.7 | 68 |
| 17 | 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 |
| 18 | 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. | 3.7 | 65 |

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|----|---|------|-----------|
| 19 | 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 |
| 20 | Influence of ship emissions on NO _x , SO ₂ , O ₃ and PM concentrations in a North-Sea harbor in France. <i>Journal of Environmental Sciences</i> , 2018, 71, 56-66. | 3.2 | 56 |
| 21 | 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 |
| 22 | Effect of potassium on the surface potential of titania. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 895. | 1.7 | 51 |
| 23 | 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 |
| 24 | Study of active species of Cu-K/ZrO ₂ catalysts involved in the oxidation of soot. <i>Journal of Catalysis</i> , 2006, 241, 456-464. | 3.1 | 43 |
| 25 | Copper-vanadium-cerium oxide catalysts for carbon black oxidation. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 247-253. | 10.8 | 43 |
| 26 | PM _{2.5} source apportionment in a French urban coastal site under steelworks emission influences using constrained non-negative matrix factorization receptor model. <i>Journal of Environmental Sciences</i> , 2016, 40, 114-128. | 3.2 | 42 |
| 27 | 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. | 1.1 | 40 |
| 28 | Effect of the sequence of potassium introduction to V ₂ O ₅ /TiO ₂ catalysts on their physicochemical properties and catalytic performance in oxidative dehydrogenation of propane. <i>Catalysis Today</i> , 1997, 33, 109-118. | 2.2 | 39 |
| 29 | Effect of potassium addition to the TiO ₂ support on the structure of V ₂ O ₅ /TiO ₂ and its catalytic properties in the oxidative dehydrogenation of propane. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 1609. | 1.7 | 37 |
| 30 | 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. | 3.2 | 35 |
| 31 | Cellular response and extracellular vesicles characterization of human macrophages exposed to fine atmospheric particulate matter. <i>Environmental Pollution</i> , 2019, 254, 112933. | 3.7 | 34 |
| 32 | Characterization of iron and manganese species in atmospheric aerosols from anthropogenic sources. <i>Atmospheric Research</i> , 2006, 82, 622-632. | 1.8 | 32 |
| 33 | Comparison between ultrafine and fine particulate matter collected in Lebanon: Chemical characterization, in vitro cytotoxic effects and metabolizing enzymes gene expression in human bronchial epithelial cells. <i>Environmental Pollution</i> , 2015, 205, 250-260. | 3.7 | 32 |
| 34 | Traffic-related air pollution. A pilot exposure assessment in Beirut, Lebanon. <i>Chemosphere</i> , 2014, 96, 122-128. | 4.2 | 31 |
| 35 | PM _{2.5} -bound polycyclic aromatic hydrocarbons (PAHs) and nitrated PAHs (NPAHs) in rural and suburban areas in Shandong and Henan Provinces during the 2016 Chinese New Year's holiday. <i>Environmental Pollution</i> , 2019, 250, 782-791. | 3.7 | 30 |
| 36 | A summer and winter apportionment of particulate matter at urban and rural areas in northern France. <i>Atmospheric Research</i> , 2006, 82, 633-642. | 1.8 | 28 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Assessment of the PM _{2.5} oxidative potential in a coastal industrial city in Northern France: Relationships with chemical composition, local emissions and long range sources. <i>Science of the Total Environment</i> , 2020, 748, 141448. | 3.9 | 27 |
| 40 | Characterization by solid state 51V NMR spectroscopy. <i>Catalysis Today</i> , 2000, 56, 379-387. | 2.2 | 26 |
| 41 | Potential of Supported Copper and Potassium Oxide Catalysts in the Combustion of Carbonaceous Particles. <i>Kinetics and Catalysis</i> , 2004, 45, 580-588. | 0.3 | 26 |
| 42 | Smoker extracellular vesicles influence status of human bronchial epithelial cells. <i>International Journal of Hygiene and Environmental Health</i> , 2017, 220, 445-454. | 2.1 | 26 |
| 43 | PM _{2.5} characterization of primary and secondary organic aerosols in two urban-industrial areas in the East Mediterranean. <i>Journal of Environmental Sciences</i> , 2021, 101, 98-116. | 3.2 | 26 |
| 44 | Human health risk assessment for PAHs, phthalates, elements, PCDD/Fs, and DL-PCBs in PM _{2.5} and for NMVOCs in two East-Mediterranean urban sites under industrial influence. <i>Atmospheric Pollution Research</i> , 2022, 13, 101261. | 1.8 | 26 |
| 45 | Chemical characteristics of PM _{2.5} and PM _{0.3} and consequence of a dust storm episode at an urban site in Lebanon. <i>Atmospheric Research</i> , 2016, 180, 274-286. | 1.8 | 25 |
| 46 | An in vitro model to evaluate the impact of environmental fine particles (PM _{0.3-2.5}) on skin damage. <i>Toxicology Letters</i> , 2019, 305, 94-102. | 0.4 | 25 |
| 47 | 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. | 0.2 | 22 |
| 48 | Toxicological appraisal of the chemical fractions of ambient fine (PM _{2.5-0.3}) and quasi-ultrafine (PM _{0.3}) particles in human bronchial epithelial BEAS-2B cells. <i>Environmental Pollution</i> , 2020, 263, 114620. | 3.7 | 22 |
| 49 | Formation of CeVO ₄ phase during the preparation of CuV Ce oxide catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 3863-3867. | 1.7 | 21 |
| 50 | EPR Investigation and Reactivity of Diesel Soot Activated (or not) with Cerium Compounds. <i>Topics in Catalysis</i> , 2001, 16/17, 263-268. | 1.3 | 20 |
| 51 | Non-negative Matrix Factorization under equality constraints—a study of industrial source identification. <i>Applied Numerical Mathematics</i> , 2014, 85, 1-15. | 1.2 | 20 |
| 52 | Investigation of Binary and Ternary Cu-V-Ce Oxides by X-ray Diffraction, Thermal Analysis, and Electron Paramagnetic Resonance. <i>Chemistry of Materials</i> , 2001, 13, 3862-3870. | 3.2 | 19 |
| 53 | Essential oil components decrease pulmonary and hepatic cells inflammation induced by air pollution particulate matter. <i>Environmental Chemistry Letters</i> , 2016, 14, 345-351. | 8.3 | 18 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | Characterization of manganese-bearing particles in the vicinities of a manganese alloy plant. <i>Chemosphere</i> , 2017, 175, 411-424. | 4.2 | 17 |
| 56 | Sustainability of an in situ aided phytostabilisation on highly contaminated soils using fly ashes: Effects on the vertical distribution of physicochemical parameters and trace elements. <i>Journal of Environmental Management</i> , 2016, 171, 204-216. | 3.8 | 16 |
| 57 | Usefulness of toxicological validation of VOCs catalytic degradation by air-liquid interface exposure system. <i>Environmental Research</i> , 2017, 152, 328-335. | 3.7 | 16 |
| 58 | Physico-chemical study of impregnated Cu and V species on CeO ₂ support by thermal analysis, XRD, EPR, 51V-MAS-NMR and XPS. <i>Journal of Materials Science</i> , 2007, 42, 6188-6196. | 1.7 | 15 |
| 59 | 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. | 2.7 | 14 |
| 60 | Chemical profiles of PM _{2.5} emitted from various anthropogenic sources of the Eastern Mediterranean: Cooking, wood burning, and diesel generators. <i>Environmental Research</i> , 2022, 211, 113032. | 3.7 | 14 |
| 61 | VOCs removal in the presence of NO _x on Cs-Cu/ZrO ₂ catalysts. <i>Catalysis Today</i> , 2011, 176, 120-125. | 2.2 | 13 |
| 62 | 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 |
| 63 | EPR investigation of iron in size segregated atmospheric aerosols collected at Dunkerque, Northern France. <i>Atmospheric Environment</i> , 2004, 38, 1201-1210. | 1.9 | 12 |
| 64 | Electron Paramagnetic Resonance investigation of the nature of active species involved in carbon black oxidation on ZrO ₂ and Cu/ZrO ₂ catalysts. <i>Catalysis Communications</i> , 2012, 17, 64-70. | 1.6 | 12 |
| 65 | 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. | 1.1 | 12 |
| 66 | Extracellular vesicles as actors in the air pollution related cardiopulmonary diseases. <i>Critical Reviews in Toxicology</i> , 2020, 50, 402-423. | 1.9 | 11 |
| 67 | Investigation of Cs-Cu/ZrO ₂ systems for simultaneous NO _x reduction and carbonaceous particles oxidation. <i>Catalysis Today</i> , 2012, 191, 90-95. | 2.2 | 10 |
| 68 | Spectroscopic and surface potential variations study of a CuCe oxide catalyst using H ₂ S as a probe molecule. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 154, 335-342. | 2.3 | 9 |
| 69 | Influence of the environmental relative humidity on the inflammatory response of skin model after exposure to various environmental pollutants. <i>Environmental Research</i> , 2021, 196, 110350. | 3.7 | 9 |
| 70 | Methods for the assessment of health risk induced by contaminants in atmospheric particulate matter: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 3289-3311. | 8.3 | 7 |
| 71 | VOCs and carbonaceous particles removal assisted by NO _x on alkali _{0.15} /ZrO ₂ and Cs _x M _{0.1} /ZrO ₂ catalysts (M = Cu or Co). <i>Comptes Rendus Chimie</i> , 2010, 13, 515-526. | 0.2 | 6 |
| 72 | Informed Weighted Non-Negative Matrix Factorization Using $\hat{\mu}^2$ -Divergence Applied to Source Apportionment. <i>Entropy</i> , 2019, 21, 253. | 1.1 | 6 |

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|----|--|-----|-----------|
| 73 | 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 |
| 74 | Atmospheric aerosols behaviour at an industrial area in Northern France. <i>International Journal of Environment and Pollution</i> , 2009, 39, 286. | 0.2 | 4 |
| 75 | Preparation of Alkali-M/ZrO ₂ (M = Co or Cu) for VOCs oxidation in the presence of NO _x or carbonaceous particles. <i>Studies in Surface Science and Catalysis</i> , 2010, , 747-750. | 1.5 | 4 |
| 76 | 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. | 1.4 | 3 |
| 77 | Inorganic Chemical Composition of Atmospheric Particulate Matter around Industrial Sites in Northern Lebanon. <i>Advanced Materials Research</i> , 0, 324, 477-480. | 0.3 | 2 |
| 78 | Comparison between Cs-Cu/ZrO ₂ and Cs-Co/ZrO ₂ catalysts for NO _x reduction by toluene. <i>Catalysis Today</i> , 2012, 191, 42-46. | 2.2 | 2 |
| 79 | A prospective pilot study of the T lymphocyte response to fine particulate matter exposure. <i>Journal of Applied Toxicology</i> , 2020, 40, 619-630. | 1.4 | 2 |
| 80 | Estimating airborne heavy metal concentrations in Dunkerque (northern France). <i>Arabian Journal of Geosciences</i> , 2016, 9, 1. | 0.6 | 1 |
| 81 | Preparation of highly dispersed copper oxide by thermal destruction of binuclear CuII monofluoroacetate in zeolite Y cavities. <i>Russian Chemical Bulletin</i> , 2000, 49, 1365-1368. | 0.4 | 0 |
| 82 | The Use of a Non Negative Matrix Factorization Method Combined to PM _{2.5} Chemical Data for a Source Apportionment Study in Different Environments. <i>Springer Proceedings in Complexity</i> , 2014, , 79-84. | 0.2 | 0 |