JÃ©rÃ©mie Pourchez

List of Publications by Year
in descending order

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Version: 2024-02-01

99	2,474	201575	233338
papers	citations	27 h-index	45 g-index

103	103	103	3512
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reuse of medical face masks in domestic and community settings without sacrificing safety: Ecological and economical lessons from the Covid-19 pandemic. Chemosphere, 2022, 288, 132364.	4.2	23
2	Comparison of bacterial filtration efficiency vs. particle filtration efficiency to assess the performance of non-medical face masks. Scientific Reports, 2022, 12, 1188.	1.6	17
3	Assessment of High-Power Electronic Nicotine Delivery System as an Alternative Aerosol Device for Terbutaline Delivery. Pharmaceutical Research, 2022, 39, 587-597.	1.7	3
4	Risk Exposure to Legionella pneumophila during Showering: The Difference between a Classical and a Water Saving Shower System. International Journal of Environmental Research and Public Health, 2022, 19, 3285.	1.2	5
5	Nano-delivery to the lung - by inhalation or other routes and why nano when micro is largely sufficient?. Advanced Drug Delivery Reviews, 2022, 183, 114173.	6.6	44
6	Aerosol regional deposition of electronic cigarette emissions using an original ex vivo respiratory model. Journal of Aerosol Science, 2021, 151, 105633.	1.8	5
7	Short Preirradiation of TiO₂ Nanoparticles Increases Cytotoxicity on Human Lung Coculture System. Chemical Research in Toxicology, 2021, 34, 733-742.	1.7	6
8	New insights into the standard method of assessing bacterial filtration efficiency of medical face masks. Scientific Reports, 2021, 11, 5887.	1.6	18
9	Occupational exposure during metal additive manufacturing: A case study of laser powder bed fusion of aluminum alloy. Journal of Occupational and Environmental Hygiene, 2021, 18, 223-236.	0.4	6
10	Relationship between Occupational Exposure to Airborne Nanoparticles, Nanoparticle Lung Burden and Lung Diseases. Toxics, 2021, 9, 204.	1.6	14
11	Graphene-Based Materials In Vitro Toxicity and Their Structureâ€“Activity Relationships: A Systematic Literature Review. Chemical Research in Toxicology, 2021, 34, 2003-2018.	1.7	28
12	Assessing biological oxidative damage induced by graphene-based materials: An asset for grouping approaches using the FRAS assay. Regulatory Toxicology and Pharmacology, 2021, 127, 105067.	1.3	4
13	Structureâ€“Activity Relationship of Graphene-Based Materials: Impact of the Surface Chemistry, Surface Specific Area and Lateral Size on Their In Vitro Toxicity. Nanomaterials, 2021, 11, 2963.	1.9	12
14	Exploring graphene-based materialsâ€™ genotoxicity: inputs of a screening method. Nanotoxicology, 2021, 15, 1279-1294.	1.6	4
15	Threeâ€dimensional quantitative MRI of aerosolized gadoliniumâ€based nanoparticles and contrast agents in isolated ventilated porcine lungs. Magnetic Resonance in Medicine, 2020, 83, 1774-1782.	1.9	5
16	A valuable experimental setup to model exposure to Legionellaâ€™s aerosols generated by shower-like systems. Water Research, 2020, 172, 115496.	5.3	13
17	Impact of the Physicochemical Features of TiO₂ Nanoparticles on Their In Vitro Toxicity. Chemical Research in Toxicology, 2020, 33, 2324-2337.	1.7	33
18	Controlled Heat and Humidity-Based Treatment for the Reuse of Personal Protective Equipment: A Pragmatic Proof-of-Concept to Address the Mass Shortage of Surgical Masks and N95/FFP2 Respirators and to Prevent the SARS-CoV2 Transmission. Frontiers in Medicine, 2020, 7, 584036.	1.2	12

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19	Nebulised Gadolinium-Based Nanoparticles for a Multimodal Approach: Quantitative and Qualitative Lung Distribution Using Magnetic Resonance and Scintigraphy Imaging in Isolated Ventilated Porcine Lungs . International Journal of Nanomedicine, 2020, Volume 15, 7251-7262.	3.3	3
20	Low-Frequency Intrapulmonary Percussive Ventilation Increases Aerosol Penetration in a 2-Compartment Physical Model of Fibrotic Lung Disease. Frontiers in Bioengineering and Biotechnology, 2020, 8, 1022.	2.0	1
21	Aerosol droplet-size distribution and airborne nicotine portioning in particle and gas phases emitted by electronic cigarettes. Scientific Reports, 2020, 10, 21707.	1.6	13
22	Quantitative Flow Cytometric Evaluation of Oxidative Stress and Mitochondrial Impairment in RAW 264.7 Macrophages after Exposure to Pristine, Acid Functionalized, or Annealed Carbon Nanotubes. Nanomaterials, 2020, 10, 319.	1.9	8
23	Elemental fingerprint of human amniotic fluids and relationship with potential sources of maternal exposure. Journal of Trace Elements in Medicine and Biology, 2020, 60, 126477.	1.5	6
24	Importance of Choosing Relevant Biological End Points To Predict Nanoparticle Toxicity with Computational Approaches for Human Health Risk Assessment. Chemical Research in Toxicology, 2019, 32, 1320-1326.	1.7	27
25	Towards an alternative to nano-QSAR for nanoparticle toxicity ranking in case of small datasets. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	16
26	Development of an ex vivo respiratory pediatric model of bronchopulmonary dysplasia for aerosol deposition studies. Scientific Reports, 2019, 9, 5720.	1.6	9
27	Nano to micron-sized particle detection in patients' lungs and its pathological significance. Environmental Science: Nano, 2019, 6, 1343-1350.	2.2	7
28	Development of an ex vivo preclinical respiratory model of idiopathic pulmonary fibrosis for aerosol regional studies. Scientific Reports, 2019, 9, 17949.	1.6	9
29	Aerosol delivery during invasive mechanical ventilation: development of a preclinical ex vivo respiratory model for aerosol regional deposition. Scientific Reports, 2019, 9, 17930.	1.6	7
30	Effect of E Cigarette Emissions on Tracheal Cells Monitored at the Airâ€“Liquid Interface Using an Organic Electrochemical Transistor. Advanced Biology, 2019, 3, e1800249.	3.0	14
31	Physical, morphological and chemical modification of Al-based nanofillers in by-products of incinerated nanocomposites and related biological outcome. Journal of Hazardous Materials, 2019, 365, 405-412.	6.5	14
32	E-cigarettes: from nicotine to cannabinoids, the French situation. Lancet Respiratory Medicine,the, 2018, 6, e16.	5.2	6
33	Impact of power level and refill liquid composition on the aerosol output and particle size distribution generated by a new-generation e-cigarette device. Aerosol Science and Technology, 2018, 52, 359-369.	1.5	25
34	A method for the quantitative extraction of gold nanoparticles from human bronchoalveolar lavage fluids through a glycerol gradient. Nanoscale, 2018, 10, 2955-2969.	2.8	7
35	Deposition pattern of aerosolized Legionella using an ex vivo human-porcine respiratory model. International Journal of Hygiene and Environmental Health, 2018, 221, 252-259.	2.1	9
36	Ex vivodetection and quantification of gold nanoparticles in human seminal and follicular fluids. Analyst, The, 2018, 143, 475-486.	1.7	7

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37	Toward smart Nebulization: Engineering acoustic airflow to penetrate maxillary sinuses in chronic rhinosinusitis. International Journal of Pharmaceutics, 2018, 546, 188-193.	2.6	12
38	Physical and chemical assessment of 1,3 Propanediol as a potential substitute of propylene glycol in refill liquid for electronic cigarettes. Scientific Reports, 2018, 8, 10702.	1.6	19
39	End-of-life incineration of nanocomposites: new insights into nanofiller partitioning into by-products and biological outcomes of airborne emission and residual ash. Environmental Science: Nano, 2018, 5, 1951-1964.	2.2	9
40	Late Breaking Abstract - Development of an ex vivo pediatric preclinical model of bronchopulmonary dysplasia for aerosol regional deposition studies. , 2018, , .		0
41	Assessment of new-generation high-power electronic nicotine delivery system as thermal aerosol generation device for inhaled bronchodilators. International Journal of Pharmaceutics, 2017, 518, 264-269.	2.6	16
42	Development of an ex vivo human-porcine respiratory model for preclinical studies. Scientific Reports, 2017, 7, 43121.	1.6	23
43	Impact of silica nanoparticle surface chemistry on protein corona formation and consequential interactions with biological cells. Materials Science and Engineering C, 2017, 75, 16-24.	3.8	79
44	Nicotine delivery from the refill liquid to the aerosol via high-power e-cigarette device. Scientific Reports, 2017, 7, 2592.	1.6	16
45	Biological Monitoring of Inhaled Nanoparticles in Patients: An Appealing Approach To Study Causal Link between Human Respiratory Pathology and Exposure to Nanoparticles. Chemical Research in Toxicology, 2017, 30, 1655-1660.	1.7	11
46	Metal load assessment in patient pulmonary lavages: towards a comprehensive mineralogical analysis including the nano-sized fraction. Nanotoxicology, 2017, 11, 1211-1224.	1.6	9
47	Preferential binding of positive nanoparticles on cell membranes is due to electrostatic interactions: A too simplistic explanation that does not take into account the nanoparticle protein corona. Materials Science and Engineering C, 2017, 70, 889-896.	3.8	145
48	Impact of cerium oxide nanoparticles shape on their in vitro cellular toxicity. Toxicology in Vitro, 2017, 38, 136-141.	1.1	107
49	Experimental human-like model to assess the part of viable Legionella reaching the thoracic region after nebulization. PLoS ONE, 2017, 12, e0186042.	1.1	7
50	Deposition pattern of aerosolized Legionella using an ex vivo human-porcine respiratory model. , 2017, , .		0
51	Micron-sized and submicron-sized aerosol deposition in a new ex vivo preclinical model. Respiratory Research, 2016, 17, 78.	1.4	22
52	Characterization of aerosols containing Legionella generated upon nebulization. Scientific Reports, 2016, 6, 33998.	1.6	43
53	A new Strategy to Improve Drug Delivery to the Maxillary Sinuses: The Frequency Sweep Acoustic Airflow. Pharmaceutical Research, 2016, 33, 1074-1084.	1.7	14
54	Impact of the chemical composition of poly-substituted hydroxyapatite particles on the in vitro pro-inflammatory response of macrophages. Biomedical Microdevices, 2016, 18, 27.	1.4	11

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55	The nanoparticle protein corona: The myth of average. Nano Today, 2016, 11, 700-703.	6.2	34
56	Detection and analysis of nanoparticles in patients: A critical review of the status quo of clinical nanotoxicology. Biomaterials, 2016, 76, 302-312.	5.7	35
57	Testicular biodistribution of silica-gold nanoparticles after intramuscular injection in mice. Biomedical Microdevices, 2015, 17, 66.	1.4	32
58	Metals distribution in colorectal biopsies: New insight on the elemental fingerprint of tumour tissue. Digestive and Liver Disease, 2015, 47, 602-607.	0.4	28
59	Electrostatic interactions favor the binding of positive nanoparticles on cells: A reductive theory. Nano Today, 2015, 10, 677-680.	6.2	70
60	Adsorption of Lactate Dehydrogenase Enzyme on Carbon Nanotubes: How to Get Accurate Results for the Cytotoxicity of These Nanomaterials. Langmuir, 2015, 31, 3635-3643.	1.6	25
61	Thermal annealing of carbon nanotubes reveals a toxicological impact of the structural defects. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	19
62	Quantification of nanoparticle endocytosis based on double fluorescent pH-sensitive nanoparticles. Biomedical Microdevices, 2015, 17, 42.	1.4	9
63	Impact of acoustic airflow on intrasinus drug deposition: New insights into the vibrating mode and the optimal acoustic frequency to enhance the delivery of nebulized antibiotic. International Journal of Pharmaceutics, 2015, 494, 227-234.	2.6	21
64	In vitro toxicity of carbon nanotubes, nano-graphite and carbon black, similar impacts of acid functionalization. Toxicology in Vitro, 2015, 30, 476-485.	1.1	49
65	A human-likeex vivopreclinical model for aerosol deposition studies. , 2015, , .		0
66	Particle Deposition in a Child Respiratory Tract Model: In Vivo Regional Deposition of Fine and Ultrafine Aerosols in Baboons. PLoS ONE, 2014, 9, e95456.	1.1	37
67	Toxicity of boehmite nanoparticles: impact of the ultrafine fraction and of the agglomerates size on cytotoxicity and pro-inflammatory response. Inhalation Toxicology, 2014, 26, 545-553.	0.8	12
68	Assessing sinus aerosol deposition: Benefits of SPECTâ€“CT imaging. International Journal of Pharmaceutics, 2014, 462, 135-141.	2.6	17
69	Validation of Anatomical Models to Study Aerosol Deposition in Human Nasal Cavities. Pharmaceutical Research, 2014, 31, 228-237.	1.7	35
70	Adsorption at cell surface and cellular uptake of silica nanoparticles with different surface chemical functionalizations: impact on cytotoxicity. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	28
71	Impact of Airborne Particle Size, Acoustic Airflow and Breathing Pattern on Delivery of Nebulized Antibiotic into the Maxillary Sinuses Using a Realistic Human Nasal Replica. Pharmaceutical Research, 2014, 31, 2335-2343.	1.7	28
72	In vitro cellular responses to silicon carbide particles manufactured through the Acheson process: Impact of physico-chemical features on pro-inflammatory and pro-oxidative effects. Toxicology in Vitro, 2014, 28, 856-865.	1.1	12

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73	Biological response to purification and acid functionalization of carbon nanotubes. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	24
74	Testicular biodistribution of 450Ânm fluorescent latex particles after intramuscular injection in mice. Biomedical Microdevices, 2013, 15, 427-436.	1.4	7
75	Generation and characterization of radiolabelled nanosized carbonaceous aerosols for human inhalation studies. Journal of Aerosol Science, 2013, 55, 1-11.	1.8	10
76	Internalization pathways into cancer cells of gadolinium-based radiosensitizing nanoparticles. Biomaterials, 2013, 34, 181-195.	5.7	83
77	New insight into artifactual phenomena during in vitro toxicity assessment of engineered nanoparticles: Study of TNF-Î± adsorption on alumina oxide nanoparticle. Toxicology in Vitro, 2013, 27, 1049-1056.	1.1	11
78	WS24.3 Evaluation of the performance of sonic nebuliser to target maxillary sinuses. Journal of Cystic Fibrosis, 2012, 11, S53.	0.3	0
79	In vitro cellular responses to silicon carbide nanoparticles: impact of physico-chemical features on pro-inflammatory and pro-oxidative effects. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	29
80	Quantitative cellular uptake of double fluorescent core-shelled model submicronic particles. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	5
81	Sonic aerosol therapy to target maxillary sinuses. European Annals of Otorhinolaryngology, Head and Neck Diseases, 2012, 129, 244-250.	0.4	38
82	Size of submicrometric and nanometric particles affect cellular uptake and biological activity of macrophagesin vitro. Inhalation Toxicology, 2012, 24, 580-588.	0.8	33
83	Study on the toxicity of inhaled alumina nanoparticles: impact of physicochemical properties and adsorption artifacts on the measurement of biological responses. Journal of Physics: Conference Series, 2011, 304, 012041.	0.3	1
84	Development of innovative pH sensor to evaluate phagocytosis of nanoparticles. Journal of Physics: Conference Series, 2011, 304, 012055.	0.3	0
85	Impact of acoustic airflow nebulization on intrasinus drug deposition of a human plastinated nasal cast: New insights into the mechanisms involved. International Journal of Pharmaceutics, 2011, 421, 63-71.	2.6	35
86	Plastinated nasal model: a new concept of anatomically realistic cast. Rhinology, 2011, 49, 30-36.	0.7	27
87	Some aspects of cellulose ethers influence on water transport and porous structure of cement-based materials. Cement and Concrete Research, 2010, 40, 242-252.	4.6	99
88	Changes in C3S hydration in the presence of cellulose ethers. Cement and Concrete Research, 2010, 40, 179-188.	4.6	91
89	14: Development of innovative pH sensor to evaluate phagocytosis of nanoparticles. Bulletin Du Cancer, 2010, 97, S15-S16.	0.6	0
90	18: Toxicity assessment of nanoparticles: impact of physico-chemical properties and adsorption artefacts on biological responses. Bulletin Du Cancer, 2010, 97, S18.	0.6	1

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91	Quantification of microsized fluorescent particles phagocytosis to a better knowledge of toxicity mechanisms. Inhalation Toxicology, 2010, 22, 1091-1100.	0.8	26
92	Current understanding of cellulose ethers impact on the hydration of C3A and C3A-sulphate systems. Cement and Concrete Research, 2009, 39, 664-669.	4.6	67
93	HPMC and HEMC influence on cement hydration. Cement and Concrete Research, 2006, 36, 288-294.	4.6	151
94	Alkaline stability of cellulose ethers and impact of their degradation products on cement hydration. Cement and Concrete Research, 2006, 36, 1252-1256.	4.6	63
95	HEC influence on cement hydration measured by conductometry. Cement and Concrete Research, 2006, 36, 1777-1780.	4.6	60
96	Kinetic modelling of the thermal decomposition of ettringite into metaettringite. Cement and Concrete Research, 2006, 36, 2054-2060.	4.6	30
97	Effect of polysaccharides on the hydration of cement suspension. Journal of the European Ceramic Society, 2006, 26, 1439-1445.	2.8	98
98	Synchrotron X-Ray Microtomography: a High Resolution, Fast and Quantitative Tool for Rock Characterization. , 0, , 125-133.		2
99	Ultrafine aerosol transient phase measurement with real-time monitoring instrument applied to cleaning process of L-Pbf machine. Toxicology and Environmental Health Sciences, 0, , .	1.1	0