

JÃ©rÃ©mie Pourchez

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

2,474
citations

201385

27
h-index

233125

45
g-index

103
all docs

103
docs citations

103
times ranked

3512
citing authors

#	ARTICLE	IF	CITATIONS
1	HPMC and HEMC influence on cement hydration. <i>Cement and Concrete Research</i> , 2006, 36, 288-294.	4.6	151
2	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. <i>Materials Science and Engineering C</i> , 2017, 70, 889-896.	3.8	145
3	Impact of cerium oxide nanoparticles shape on their in vitro cellular toxicity. <i>Toxicology in Vitro</i> , 2017, 38, 136-141.	1.1	107
4	Some aspects of cellulose ethers influence on water transport and porous structure of cement-based materials. <i>Cement and Concrete Research</i> , 2010, 40, 242-252.	4.6	99
5	Effect of polysaccharides on the hydration of cement suspension. <i>Journal of the European Ceramic Society</i> , 2006, 26, 1439-1445.	2.8	98
6	Changes in C3S hydration in the presence of cellulose ethers. <i>Cement and Concrete Research</i> , 2010, 40, 179-188.	4.6	91
7	Internalization pathways into cancer cells of gadolinium-based radiosensitizing nanoparticles. <i>Biomaterials</i> , 2013, 34, 181-195.	5.7	83
8	Impact of silica nanoparticle surface chemistry on protein corona formation and consequential interactions with biological cells. <i>Materials Science and Engineering C</i> , 2017, 75, 16-24.	3.8	79
9	Electrostatic interactions favor the binding of positive nanoparticles on cells: A reductive theory. <i>Nano Today</i> , 2015, 10, 677-680.	6.2	70
10	Current understanding of cellulose ethers impact on the hydration of C3A and C3A-sulphate systems. <i>Cement and Concrete Research</i> , 2009, 39, 664-669.	4.6	67
11	Alkaline stability of cellulose ethers and impact of their degradation products on cement hydration. <i>Cement and Concrete Research</i> , 2006, 36, 1252-1256.	4.6	63
12	HEC influence on cement hydration measured by conductometry. <i>Cement and Concrete Research</i> , 2006, 36, 1777-1780.	4.6	60
13	In vitro toxicity of carbon nanotubes, nano-graphite and carbon black, similar impacts of acid functionalization. <i>Toxicology in Vitro</i> , 2015, 30, 476-485.	1.1	49
14	Nano-delivery to the lung - by inhalation or other routes and why nano when micro is largely sufficient?. <i>Advanced Drug Delivery Reviews</i> , 2022, 183, 114173.	6.6	44
15	Characterization of aerosols containing <i>Legionella</i> generated upon nebulization. <i>Scientific Reports</i> , 2016, 6, 33998.	1.6	43
16	Sonic aerosol therapy to target maxillary sinuses. <i>European Annals of Otorhinolaryngology, Head and Neck Diseases</i> , 2012, 129, 244-250.	0.4	38
17	Particle Deposition in a Child Respiratory Tract Model: In Vivo Regional Deposition of Fine and Ultrafine Aerosols in Baboons. <i>PLoS ONE</i> , 2014, 9, e95456.	1.1	37
18	Impact of acoustic airflow nebulization on intrasinus drug deposition of a human plastinated nasal cast: New insights into the mechanisms involved. <i>International Journal of Pharmaceutics</i> , 2011, 421, 63-71.	2.6	35

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19	Validation of Anatomical Models to Study Aerosol Deposition in Human Nasal Cavities. <i>Pharmaceutical Research</i> , 2014, 31, 228-237.	1.7	35
20	Detection and analysis of nanoparticles in patients: A critical review of the status quo of clinical nanotoxicology. <i>Biomaterials</i> , 2016, 76, 302-312.	5.7	35
21	The nanoparticle protein corona: The myth of average. <i>Nano Today</i> , 2016, 11, 700-703.	6.2	34
22	Size of submicrometric and nanometric particles affect cellular uptake and biological activity of macrophages <i>in vitro</i> . <i>Inhalation Toxicology</i> , 2012, 24, 580-588.	0.8	33
23	Impact of the Physicochemical Features of TiO ₂ Nanoparticles on Their <i>In Vitro</i> Toxicity. <i>Chemical Research in Toxicology</i> , 2020, 33, 2324-2337.	1.7	33
24	Testicular biodistribution of silica-gold nanoparticles after intramuscular injection in mice. <i>Biomedical Microdevices</i> , 2015, 17, 66.	1.4	32
25	Kinetic modelling of the thermal decomposition of ettringite into metaettringite. <i>Cement and Concrete Research</i> , 2006, 36, 2054-2060.	4.6	30
26	<i>In vitro</i> cellular responses to silicon carbide nanoparticles: impact of physico-chemical features on pro-inflammatory and pro-oxidative effects. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	29
27	Adsorption at cell surface and cellular uptake of silica nanoparticles with different surface chemical functionalizations: impact on cytotoxicity. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	28
28	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. <i>Pharmaceutical Research</i> , 2014, 31, 2335-2343.	1.7	28
29	Metals distribution in colorectal biopsies: New insight on the elemental fingerprint of tumour tissue. <i>Digestive and Liver Disease</i> , 2015, 47, 602-607.	0.4	28
30	Graphene-Based Materials <i>In Vitro</i> Toxicity and Their Structure-Activity Relationships: A Systematic Literature Review. <i>Chemical Research in Toxicology</i> , 2021, 34, 2003-2018.	1.7	28
31	Importance of Choosing Relevant Biological End Points To Predict Nanoparticle Toxicity with Computational Approaches for Human Health Risk Assessment. <i>Chemical Research in Toxicology</i> , 2019, 32, 1320-1326.	1.7	27
32	Plastinated nasal model: a new concept of anatomically realistic cast. <i>Rhinology</i> , 2011, 49, 30-36.	0.7	27
33	Quantification of microsized fluorescent particles phagocytosis to a better knowledge of toxicity mechanisms. <i>Inhalation Toxicology</i> , 2010, 22, 1091-1100.	0.8	26
34	Adsorption of Lactate Dehydrogenase Enzyme on Carbon Nanotubes: How to Get Accurate Results for the Cytotoxicity of These Nanomaterials. <i>Langmuir</i> , 2015, 31, 3635-3643.	1.6	25
35	Impact of power level and refill liquid composition on the aerosol output and particle size distribution generated by a new-generation e-cigarette device. <i>Aerosol Science and Technology</i> , 2018, 52, 359-369.	1.5	25
36	Biological response to purification and acid functionalization of carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	24

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37	Development of an ex vivo human-porcine respiratory model for preclinical studies. Scientific Reports, 2017, 7, 43121.	1.6	23
38	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
39	Micron-sized and submicron-sized aerosol deposition in a new ex vivo preclinical model. Respiratory Research, 2016, 17, 78.	1.4	22
40	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
41	Thermal annealing of carbon nanotubes reveals a toxicological impact of the structural defects. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	19
42	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
43	New insights into the standard method of assessing bacterial filtration efficiency of medical face masks. Scientific Reports, 2021, 11, 5887.	1.6	18
44	Assessing sinus aerosol deposition: Benefits of SPECTâ€“CT imaging. International Journal of Pharmaceutics, 2014, 462, 135-141.	2.6	17
45	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
46	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
47	Nicotine delivery from the refill liquid to the aerosol via high-power e-cigarette device. Scientific Reports, 2017, 7, 2592.	1.6	16
48	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
49	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
50	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
51	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
52	Relationship between Occupational Exposure to Airborne Nanoparticles, Nanoparticle Lung Burden and Lung Diseases. Toxics, 2021, 9, 204.	1.6	14
53	A valuable experimental setup to model exposure to Legionellaâ€™s aerosols generated by shower-like systems. Water Research, 2020, 172, 115496.	5.3	13
54	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

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55	Toxicity of boehmite nanoparticles: impact of the ultrafine fraction and of the agglomerates size on cytotoxicity and pro-inflammatory response. <i>Inhalation Toxicology</i> , 2014, 26, 545-553.	0.8	12
56	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. <i>Toxicology in Vitro</i> , 2014, 28, 856-865.	1.1	12
57	Toward smart Nebulization: Engineering acoustic airflow to penetrate maxillary sinuses in chronic rhinosinusitis. <i>International Journal of Pharmaceutics</i> , 2018, 546, 188-193.	2.6	12
58	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. <i>Frontiers in Medicine</i> , 2020, 7, 584036.	1.2	12
59	Structure-Activity Relationship of Graphene-Based Materials: Impact of the Surface Chemistry, Surface Specific Area and Lateral Size on Their In Vitro Toxicity. <i>Nanomaterials</i> , 2021, 11, 2963.	1.9	12
60	New insight into artifactual phenomena during in vitro toxicity assessment of engineered nanoparticles: Study of TNF- α adsorption on alumina oxide nanoparticle. <i>Toxicology in Vitro</i> , 2013, 27, 1049-1056.	1.1	11
61	Impact of the chemical composition of poly-substituted hydroxyapatite particles on the in vitro pro-inflammatory response of macrophages. <i>Biomedical Microdevices</i> , 2016, 18, 27.	1.4	11
62	Biological Monitoring of Inhaled Nanoparticles in Patients: An Appealing Approach To Study Causal Link between Human Respiratory Pathology and Exposure to Nanoparticles. <i>Chemical Research in Toxicology</i> , 2017, 30, 1655-1660.	1.7	11
63	Generation and characterization of radiolabelled nanosized carbonaceous aerosols for human inhalation studies. <i>Journal of Aerosol Science</i> , 2013, 55, 1-11.	1.8	10
64	Quantification of nanoparticle endocytosis based on double fluorescent pH-sensitive nanoparticles. <i>Biomedical Microdevices</i> , 2015, 17, 42.	1.4	9
65	Metal load assessment in patient pulmonary lavages: towards a comprehensive mineralogical analysis including the nano-sized fraction. <i>Nanotoxicology</i> , 2017, 11, 1211-1224.	1.6	9
66	Deposition pattern of aerosolized Legionella using an ex vivo human-porcine respiratory model. <i>International Journal of Hygiene and Environmental Health</i> , 2018, 221, 252-259.	2.1	9
67	End-of-life incineration of nanocomposites: new insights into nanofiller partitioning into by-products and biological outcomes of airborne emission and residual ash. <i>Environmental Science: Nano</i> , 2018, 5, 1951-1964.	2.2	9
68	Development of an ex vivo respiratory pediatric model of bronchopulmonary dysplasia for aerosol deposition studies. <i>Scientific Reports</i> , 2019, 9, 5720.	1.6	9
69	Development of an ex vivo preclinical respiratory model of idiopathic pulmonary fibrosis for aerosol regional studies. <i>Scientific Reports</i> , 2019, 9, 17949.	1.6	9
70	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. <i>Nanomaterials</i> , 2020, 10, 319.	1.9	8
71	Testicular biodistribution of 450 nm fluorescent latex particles after intramuscular injection in mice. <i>Biomedical Microdevices</i> , 2013, 15, 427-436.	1.4	7
72	A method for the quantitative extraction of gold nanoparticles from human bronchoalveolar lavage fluids through a glycerol gradient. <i>Nanoscale</i> , 2018, 10, 2955-2969.	2.8	7

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73	<i>Ex vivo</i> detection and quantification of gold nanoparticles in human seminal and follicular fluids. <i>The Analyst</i> , 2018, 143, 475-486.	1.7	7
74	Nano to micron-sized particle detection in patients' lungs and its pathological significance. <i>Environmental Science: Nano</i> , 2019, 6, 1343-1350.	2.2	7
75	Aerosol delivery during invasive mechanical ventilation: development of a preclinical <i>ex vivo</i> respiratory model for aerosol regional deposition. <i>Scientific Reports</i> , 2019, 9, 17930.	1.6	7
76	Experimental human-like model to assess the part of viable <i>Legionella</i> reaching the thoracic region after nebulization. <i>PLoS ONE</i> , 2017, 12, e0186042.	1.1	7
77	E-cigarettes: from nicotine to cannabinoids, the French situation. <i>Lancet Respiratory Medicine</i> , 2018, 6, e16.	5.2	6
78	Elemental fingerprint of human amniotic fluids and relationship with potential sources of maternal exposure. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020, 60, 126477.	1.5	6
79	Short Preirradiation of TiO ₂ Nanoparticles Increases Cytotoxicity on Human Lung Coculture System. <i>Chemical Research in Toxicology</i> , 2021, 34, 733-742.	1.7	6
80	Occupational exposure during metal additive manufacturing: A case study of laser powder bed fusion of aluminum alloy. <i>Journal of Occupational and Environmental Hygiene</i> , 2021, 18, 223-236.	0.4	6
81	Quantitative cellular uptake of double fluorescent core-shelled model submicronic particles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	5
82	Three-dimensional quantitative MRI of aerosolized gadolinium-based nanoparticles and contrast agents in isolated ventilated porcine lungs. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1774-1782.	1.9	5
83	Aerosol regional deposition of electronic cigarette emissions using an original <i>ex vivo</i> respiratory model. <i>Journal of Aerosol Science</i> , 2021, 151, 105633.	1.8	5
84	Risk Exposure to <i>Legionella pneumophila</i> during Showering: The Difference between a Classical and a Water Saving Shower System. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 3285.	1.2	5
85	Assessing biological oxidative damage induced by graphene-based materials: An asset for grouping approaches using the FRAS assay. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 127, 105067.	1.3	4
86	Exploring graphene-based materials' genotoxicity: inputs of a screening method. <i>Nanotoxicology</i> , 2021, 15, 1279-1294.	1.6	4
87	Nebulised Gadolinium-Based Nanoparticles for a Multimodal Approach: Quantitative and Qualitative Lung Distribution Using Magnetic Resonance and Scintigraphy Imaging in Isolated Ventilated Porcine Lungs. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 7251-7262.	3.3	3
88	Assessment of High-Power Electronic Nicotine Delivery System as an Alternative Aerosol Device for Terbutaline Delivery. <i>Pharmaceutical Research</i> , 2022, 39, 587-597.	1.7	3
89	Synchrotron X-Ray Microtomography: a High Resolution, Fast and Quantitative Tool for Rock Characterization. <i>Journal of Applied Crystallography</i> , 2010, 43, 125-133.		2
90	18: Toxicity assessment of nanoparticles: impact of physico-chemical properties and adsorption artefacts on biological responses. <i>Bulletin Du Cancer</i> , 2010, 97, S18.	0.6	1

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91	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
92	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
93	14: Development of innovative pH sensor to evaluate phagocytosis of nanoparticles. Bulletin Du Cancer, 2010, 97, S15-S16.	0.6	0
94	Development of innovative pH sensor to evaluate phagocytosis of nanoparticles. Journal of Physics: Conference Series, 2011, 304, 012055.	0.3	0
95	WS24.3 Evaluation of the performance of sonic nebuliser to target maxillary sinuses. Journal of Cystic Fibrosis, 2012, 11, S53.	0.3	0
96	A human-like <i>ex vivo</i> preclinical model for aerosol deposition studies. , 2015, , .		0
97	Deposition pattern of aerosolized Legionella using an <i>ex vivo</i> human-porcine respiratory model. , 2017, , .		0
98	Late Breaking Abstract - Development of an <i>ex vivo</i> pediatric preclinical model of bronchopulmonary dysplasia for aerosol regional deposition studies. , 2018, , .		0
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