

Julien Gigault

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

2,489
citations

25
h-index

49
g-index

63
ext. papers

3,405
ext. citations

7.1
avg, IF

5.66
L-index

#	Paper	IF	Citations
59	Current opinion: What is a nanoplastic?. <i>Environmental Pollution</i> , 2018 , 235, 1030-1034	9.3	502
58	Nanoplastic in the North Atlantic Subtropical Gyre. <i>Environmental Science & Technology</i> , 2017 , 51, 13689-13697	10.3	339
57	Marine plastic litter: the unanalyzed nano-fraction. <i>Environmental Science: Nano</i> , 2016 , 3, 346-350	7.1	204
56	Rational strategy for characterization of nanoscale particles by asymmetric-flow field flow fractionation: a tutorial. <i>Analytica Chimica Acta</i> , 2014 , 809, 9-24	6.6	107
55	Nanoplastics are neither microplastics nor engineered nanoparticles. <i>Nature Nanotechnology</i> , 2021 , 16, 501-507	28.7	89
54	Trace metals in polyethylene debris from the North Atlantic subtropical gyre. <i>Environmental Pollution</i> , 2019 , 245, 371-379	9.3	77
53	Nanoplastic occurrence in a soil amended with plastic debris. <i>Chemosphere</i> , 2021 , 262, 127784	8.4	76
52	Hyphenated analytical techniques for multidimensional characterisation of submicron particles: a review. <i>Analytica Chimica Acta</i> , 2011 , 692, 26-41	6.6	72
51	Asymmetrical flow field flow fractionation methods to characterize submicron particles: application to carbon-based aggregates and nanoplastics. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 6761-6769	4.4	66
50	Nanoplastic from mechanically degraded primary and secondary microplastics for environmental assessments. <i>NanoImpact</i> , 2020 , 17, 100206	5.6	65
49	Are nanoplastics able to bind significant amount of metals? The lead example. <i>Environmental Pollution</i> , 2019 , 249, 940-948	9.3	62
48	Soot aggregate restructuring during water processing. <i>Journal of Aerosol Science</i> , 2013 , 66, 209-219	4.3	62
47	Discriminating the states of matter in metallic nanoparticle transformations: what are we missing?. <i>ACS Nano</i> , 2013 , 7, 2491-9	16.7	50
46	Differentiation and characterization of isotopically modified silver nanoparticles in aqueous media using asymmetric-flow field flow fractionation coupled to optical detection and mass spectrometry. <i>Analytica Chimica Acta</i> , 2013 , 763, 57-66	6.6	48
45	Ecotoxicity of polyethylene nanoplastics from the North Atlantic oceanic gyre on freshwater and marine organisms (microalgae and filter-feeding bivalves). <i>Environmental Science and Pollution Research</i> , 2020 , 27, 3746-3755	5.1	46
44	Observation of size-independent effects in nanoparticle retention behavior during asymmetric-flow field-flow fractionation. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 6251-8	4.4	44
43	Gold nanorod separation and characterization by asymmetric-flow field flow fractionation with UV-Vis detection. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 1191-202	4.4	43

42	Highly stable positively charged dendron-encapsulated gold nanoparticles. <i>Langmuir</i> , 2014 , 30, 3883-93	4	42
41	Nano-litter from cigarette butts: Environmental implications and urgent consideration. <i>Chemosphere</i> , 2018 , 194, 125-130	8.4	36
40	Saponins: a renewable and biodegradable surfactant from its microwave-assisted extraction to the synthesis of monodisperse lattices. <i>Biomacromolecules</i> , 2014 , 15, 856-62	6.9	34
39	Single walled carbon nanotube length determination by asymmetrical-flow field-flow fractionation hyphenated to multi-angle laser-light scattering. <i>Journal of Chromatography A</i> , 2010 , 1217, 7891-7	4.5	32
38	Nanoplastics on the coast exposed to the North Atlantic Gyre: Evidence and traceability. <i>NanoImpact</i> , 2020 , 20, 100262	5.6	29
37	Characterization of iron-organic matter nano-aggregate networks through a combination of SAXS/SANS and XAS analyses: impact on As binding. <i>Environmental Science: Nano</i> , 2017 , 4, 938-954	7.1	28
36	Quantitative analysis of dendron-conjugated cisplatin-complexed gold nanoparticles using scanning particle mobility mass spectrometry. <i>Nanoscale</i> , 2013 , 5, 5390-5	7.7	27
35	Nanoparticle characterization by cyclical electrical field-flow fractionation. <i>Analytical Chemistry</i> , 2011 , 83, 6565-72	7.8	26
34	Soap- and metal-free polystyrene latex particles as a nanoplastic model. <i>Environmental Science: Nano</i> , 2019 , 6, 2253-2258	7.1	22
33	Unexpected Changes in Functionality and Surface Coverage for Au Nanoparticle PEI Conjugates: Implications for Stability and Efficacy in Biological Systems. <i>Langmuir</i> , 2015 , 31, 7673-83	4	16
32	Size characterization of the associations between carbon nanotubes and humic acids in aqueous media by asymmetrical flow field-flow fractionation combined with multi-angle light scattering. <i>Chemosphere</i> , 2012 , 86, 177-82	8.4	16
31	Multi-wall carbon nanotube aqueous dispersion monitoring by using A4F-UV-MALS. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 3345-53	4.4	16
30	PEGylated gold nanorod separation based on aspect ratio: characterization by asymmetric-flow field flow fractionation with UV-Vis detection. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 1651-9	4.4	15
29	Trace element distribution in marine microplastics using laser ablation-ICP-MS. <i>Marine Pollution Bulletin</i> , 2020 , 160, 111716	6.7	13
28	A new analytical approach based on asymmetrical flow field-flow fractionation coupled to ultraviolet spectrometry and light scattering detection for SWCNT aqueous dispersion studies. <i>Analyst, The</i> , 2012 , 137, 917-23	5	12
27	Nanoplastics Identification in Complex Environmental Matrices: Strategies for Polystyrene and Polypropylene. <i>Environmental Science & Technology</i> , 2021 , 55, 8753-8759	10.3	12
26	Accurate determination of the length of carbon nanotubes using multi-angle light scattering. <i>Mikrochimica Acta</i> , 2011 , 175, 265-271	5.8	11
25	The removal of colloidal lead during estuarine mixing: seasonal variations and importance of iron oxides and humic substances. <i>Marine and Freshwater Research</i> , 2011 , 62, 329	2.2	11

24	Improving the understanding of fullerene (nC) aggregate structures: Fractal dimension characterization by static light scattering coupled to asymmetrical flow field flow fractionation. <i>Journal of Colloid and Interface Science</i> , 2017 , 502, 193-200	9.3	10
23	Selection of an appropriate aqueous nano-fullerene (nC60) preparation protocol for studying its environmental fate and behavior. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 80, 1-11	14.6	10
22	Measurement Bias on Nanoparticle Size Characterization by Asymmetric Flow Field-Flow Fractionation Using Dynamic Light-Scattering Detection. <i>Chromatographia</i> , 2017 , 80, 287-294	2.1	9
21	Accurate determination of the size distribution for polydisperse, cationic metallic nanomaterials by asymmetric-flow field flow fractionation. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	9
20	Deposition of environmentally relevant nanoplastic models in sand during transport experiments. <i>Chemosphere</i> , 2020 , 255, 126912	8.4	8
19	Estuary-on-a-chip: unexpected results for the fate and transport of nanoparticles. <i>Environmental Science: Nano</i> , 2018 , 5, 1231-1236	7.1	8
18	Asymmetrical flow field-flow fractionation analysis of water suspensions of polymer nanofibers synthesized via RAFT-mediated emulsion polymerization. <i>Analytica Chimica Acta</i> , 2014 , 819, 116-21	6.6	8
17	Metals in microplastics: determining which are additive, adsorbed, and bioavailable. <i>Environmental Sciences: Processes and Impacts</i> , 2021 , 23, 553-558	4.3	8
16	Stabilization of Fragmental Polystyrene Nanoplastic by Natural Organic Matter: Insight into Mechanisms. <i>ACS ES&T Water</i> , 2021 , 1, 1198-1208		8
15	Optimization of flow field-flow fractionation for the characterization of natural colloids. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 1639-49	4.4	7
14	Environmental Fate Modeling of Nanoplastics in a Salinity Gradient Using a Lab-on-a-Chip: Where Does the Nanoscale Fraction of Plastic Debris Accumulate?. <i>Environmental Science & Technology</i> , 2021 , 55, 3001-3008	10.3	7
13	In situ monitoring, separation, and characterization of gold nanorod transformation during seed-mediated synthesis. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 2195-201	4.4	6
12	Nanoplastics: From model materials to colloidal fate. <i>Current Opinion in Colloid and Interface Science</i> , 2021 , 57, 101528	7.6	6
11	Field Flow Fractionation 2015 , 1143-1176		5
10	Molecular Impacts of Dietary Exposure to Nanoplastics Combined or Not with Arsenic in the Caribbean Mangrove Oysters (). <i>Nanomaterials</i> , 2021 , 11,	5.4	5
9	An assessment of retention behavior for gold nanorods in asymmetrical flow field-flow fractionation. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 6977-6984	4.4	5
8	Micro- and nanoplastic transfer in freezing saltwater: implications for their fate in polar waters. <i>Environmental Sciences: Processes and Impacts</i> , 2021 , 23, 1759-1770	4.3	4
7	Heteroaggregates of Polystyrene Nanospheres and Organic Matter: Preparation, Characterization and Evaluation of Their Toxicity to Algae in Environmentally Relevant Conditions. <i>Nanomaterials</i> , 2021 , 11,	5.4	4

6	Molecular impacts of dietary exposure to nanoplastics combined with arsenic in Canadian oysters (<i>Crassostrea virginica</i>) and bioaccumulation comparison with Caribbean oysters (<i>Isognomon alatus</i>). <i>Chemosphere</i> , 2021 , 277, 130331	8.4	4
5	Fate of nanoplastics in the environment: Implication of the cigarette butts. <i>Environmental Pollution</i> , 2021 , 268, 115170	9.3	3
4	The underestimated toxic effects of nanoplastics coming from marine sources: A demonstration on oysters (<i>Isognomon alatus</i>).. <i>Chemosphere</i> , 2022 , 133824	8.4	2
3	Metals and metalloids concentrations in three genotypes of pelagic Sargassum from the Atlantic Ocean Basin-scale.. <i>Marine Pollution Bulletin</i> , 2022 , 178, 113564	6.7	2
2	Examining the Relevance of the Microplastic-Associated Additive Fraction in Environmental Compartments. <i>ACS ES&T Water</i> , 2022 , 2, 405-413		0
1	Early molecular responses of mangrove oysters to nanoplastics using a microfluidic device to mimic environmental exposure. <i>Journal of Hazardous Materials</i> , 2022 , 129283	12.8	0