

# Nathalie Tufenkji

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3135823/nathalie-tufenkji-publications-by-citations.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

148  
papers

10,732  
citations

50  
h-index

101  
g-index

164  
ext. papers

12,953  
ext. citations

8.5  
avg, IF

7.06  
L-index

#	Paper	IF	Citations
148	Aggregation and deposition of engineered nanomaterials in aquatic environments: role of physicochemical interactions. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 6532-49	10.3	880
147	Microplastics and Nanoplastics in Aquatic Environments: Aggregation, Deposition, and Enhanced Contaminant Transport. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 1704-1724	10.3	834
146	Correlation equation for predicting single-collector efficiency in physicochemical filtration in saturated porous media. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 529-36	10.3	830
145	Characterizing manufactured nanoparticles in the environment: multimethod determination of particle sizes. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 7277-84	10.3	447
144	Aggregation of titanium dioxide nanoparticles: role of a fulvic acid. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 1282-6	10.3	377
143	Breakdown of colloid filtration theory: role of the secondary energy minimum and surface charge heterogeneities. <i>Langmuir</i> , <b>2005</b> , 21, 841-52	4	368
142	Deviation from the classical colloid filtration theory in the presence of repulsive DLVO interactions. <i>Langmuir</i> , <b>2004</b> , 20, 10818-28	4	313
141	Nano-enabled strategies to enhance crop nutrition and protection. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 532-540	28.7	284
140	Plastic Teabags Release Billions of Microparticles and Nanoparticles into Tea. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 12300-12310	10.3	276
139	Are There Nanoplastics in Your Personal Care Products?. <i>Environmental Science and Technology Letters</i> , <b>2017</b> , 4, 280-285	11	262
138	Modeling microbial transport in porous media: Traditional approaches and recent developments. <i>Advances in Water Resources</i> , <b>2007</b> , 30, 1455-1469	4.7	227
137	Separation and Analysis of Microplastics and Nanoplastics in Complex Environmental Samples. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 858-866	24.3	222
136	Effect of particle size and natural organic matter on the migration of nano- and microscale latex particles in saturated porous media. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 321, 74-83	9.3	214
135	Transport of Cryptosporidium oocysts in porous media: role of straining and physicochemical filtration. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 5932-8	10.3	204
134	Environmental performance of graphene-based 3D macrostructures. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 107-119	28.7	203
133	The promise of bank filtration. <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 422A-428A	10.3	197
132	The swarming motility of <i>Pseudomonas aeruginosa</i> is blocked by cranberry proanthocyanidins and other tannin-containing materials. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 3061-7	4.8	163

131	Interpreting deposition patterns of microbial particles in laboratory-scale column experiments. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 616-23	10.3	144
130	The road to nowhere: equilibrium partition coefficients for nanoparticles. <i>Environmental Science: Nano</i> , <b>2014</b> , 1, 317-323	7.1	116
129	Aggregation and deposition kinetics of carboxymethyl cellulose-modified zero-valent iron nanoparticles in porous media. <i>Water Research</i> , <b>2012</b> , 46, 1735-44	12.5	115
128	Amendment of Agricultural Soil with Metal Nanoparticles: Effects on Soil Enzyme Activity and Microbial Community Composition. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 1908-1918	10.3	114
127	Spatial distributions of Cryptosporidium oocysts in porous media: evidence for dual mode deposition. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 3620-9	10.3	109
126	Straining of polyelectrolyte-stabilized nanoscale zero valent iron particles during transport through granular porous media. <i>Water Research</i> , <b>2014</b> , 50, 80-9	12.5	94
125	Deposition of TiO <sub>2</sub> nanoparticles onto silica measured using a quartz crystal microbalance with dissipation monitoring. <i>Langmuir</i> , <b>2009</b> , 25, 6062-9	4	94
124	Technology readiness and overcoming barriers to sustainably implement nanotechnology-enabled plant agriculture. <i>Nature Food</i> , <b>2020</b> , 1, 416-425	14.4	90
123	Transport of two metal oxide nanoparticles in saturated granular porous media: role of water chemistry and particle coating. <i>Water Research</i> , <b>2012</b> , 46, 1273-85	12.5	89
122	Nanoplastics are neither microplastics nor engineered nanoparticles. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 501-507	28.7	89
121	Spray- and spin-assisted layer-by-layer assembly of copper nanoparticles on thin-film composite reverse osmosis membrane for biofouling mitigation. <i>Water Research</i> , <b>2016</b> , 99, 188-199	12.5	85
120	Deposition of carboxymethylcellulose-coated zero-valent iron nanoparticles onto silica: roles of solution chemistry and organic molecules. <i>Langmuir</i> , <b>2010</b> , 26, 12832-40	4	80
119	Understanding and Improving Microplastic Removal during Water Treatment: Impact of Coagulation and Flocculation. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 8719-8727	10.3	78
118	A QCM-D-based biosensor for E. coli O157:H7 highlighting the relevance of the dissipation slope as a transduction signal. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 2137-42	11.8	77
117	Mobility of functionalized quantum dots and a model polystyrene nanoparticle in saturated quartz sand and loamy sand. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 4449-57	10.3	76
116	Transport behavior of selected nanoparticles with different surface coatings in granular porous media coated with Pseudomonas aeruginosa biofilm. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 6942-9	10.3	76
115	Influence of solution chemistry on the deposition and detachment kinetics of a CdTe quantum dot examined using a quartz crystal microbalance. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 3176-82	10.3	76
114	Rhamnolipid biosurfactant and soy protein act as effective stabilizers in the aggregation and transport of palladium-doped zerovalent iron nanoparticles in saturated porous media. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 13355-64	10.3	74

113	In Situ Silver Decoration on Graphene Oxide-Treated Thin Film Composite Forward Osmosis Membranes: Biocidal Properties and Regeneration Potential. <i>Environmental Science and Technology Letters</i> , <b>2016</b> , 3, 13-18	11	72
112	Using the quartz crystal microbalance with dissipation monitoring to evaluate the size of nanoparticles deposited on surfaces. <i>ACS Nano</i> , <b>2013</b> , 7, 7833-43	16.7	72
111	Inhibition of Escherichia coli CFT073 fliC expression and motility by cranberry materials. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 6852-7	4.8	69
110	Cellulose nanocrystals with tunable surface charge for nanomedicine. <i>Nanoscale</i> , <b>2015</b> , 7, 16647-57	7.7	68
109	Nanodarts, nanoblades, and nanopikes: Mechano-bactericidal nanostructures and where to find them. <i>Advances in Colloid and Interface Science</i> , <b>2018</b> , 252, 55-68	14.3	68
108	Transport of selected bacterial pathogens in agricultural soil and quartz sand. <i>Water Research</i> , <b>2010</b> , 44, 1182-92	12.5	63
107	Developing Antibacterial Nanocrystalline Cellulose Using Natural Antibacterial Agents. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 33827-33838	9.5	63
106	Cranberry-derived proanthocyanidins impair virulence and inhibit quorum sensing of <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , <b>2016</b> , 6, 30169	4.9	62
105	Formation of biofilms under phage predation: considerations concerning a biofilm increase. <i>Biofouling</i> , <b>2013</b> , 29, 457-68	3.3	61
104	Hierarchically porous, ultra-strong reduced graphene oxide-cellulose nanocrystal sponges for exceptional adsorption of water contaminants. <i>Nanoscale</i> , <b>2018</b> , 10, 7171-7184	7.7	58
103	Toxicity Assessments of Micro- and Nanoplastics Can Be Confounded by Preservatives in Commercial Formulations. <i>Environmental Science and Technology Letters</i> , <b>2019</b> , 6, 21-25	11	56
102	Transport of industrial PVP-stabilized silver nanoparticles in saturated quartz sand coated with <i>Pseudomonas aeruginosa</i> PAO1 biofilm of variable age. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 2715-23	10.3	55
101	Bacterial capture efficiency and antimicrobial activity of phage-functionalized model surfaces. <i>Langmuir</i> , <b>2011</b> , 27, 5472-80	4	54
100	Cranberry derived proanthocyanidins reduce bacterial adhesion to selected biomaterials. <i>Langmuir</i> , <b>2008</b> , 24, 10273-81	4	52
99	Multi-scale <i>Cryptosporidium</i> /sand interactions in water treatment. <i>Water Research</i> , <b>2006</b> , 40, 3315-31	12.5	52
98	Electrochemical disinfection of bacteria-laden water using antimony-doped tin-tungsten-oxide electrodes. <i>Water Research</i> , <b>2017</b> , 126, 299-307	12.5	49
97	Going viral: designing bioactive surfaces with bacteriophage. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 124, 2-16	6	48
96	Evolution of <i>Pseudomonas aeruginosa</i> virulence as a result of phage predation. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 6110-6	4.8	47

95	Transformations of silver nanoparticles in wastewater effluents: links to Ag bioavailability. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 1339-1349	7.1	46
94	Hydrophobicity of biofilm coatings influences the transport dynamics of polystyrene nanoparticles in biofilm-coated sand. <i>Water Research</i> , <b>2016</b> , 92, 113-20	12.5	45
93	Primary and Secondary Plastic Particles Exhibit Limited Acute Toxicity but Chronic Effects on. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 6859-6868	10.3	44
92	Partitioning and Accumulation of Perfluoroalkyl Substances in Model Lipid Bilayers and Bacteria. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 10433-10440	10.3	44
91	Relevance of nontoxigenic strains as surrogates for Escherichia coli O157:H7 in groundwater contamination potential: role of temperature and cell acclimation time. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 4332-8	10.3	44
90	Polyphenolic extract from maple syrup potentiates antibiotic susceptibility and reduces biofilm formation of pathogenic bacteria. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 3782-92	4.8	43
89	Deposition kinetics of quantum dots and polystyrene latex nanoparticles onto alumina: role of water chemistry and particle coating. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 2212-20	10.3	43
88	Physicochemical characterization of engineered nanoparticles under physiological conditions: effect of culture media components and particle surface coating. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2012</b> , 91, 198-204	6	41
87	Assessing the transport potential of polymeric nanocapsules developed for crop protection. <i>Water Research</i> , <b>2017</b> , 111, 10-17	12.5	40
86	Tannin derived materials can block swarming motility and enhance biofilm formation in <i>Pseudomonas aeruginosa</i> . <i>Biofouling</i> , <b>2012</b> , 28, 1063-76	3.3	39
85	Effects of Rhamnolipid and Carboxymethylcellulose Coatings on Reactivity of Palladium-Doped Nanoscale Zerovalent Iron Particles. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 1812-20	10.3	38
84	Reduced transport potential of a palladium-doped zero valent iron nanoparticle in a water saturated loamy sand. <i>Water Research</i> , <b>2015</b> , 68, 354-63	12.5	37
83	Method for the direct observation and quantification of survival of bacteria attached to negatively or positively charged surfaces in an aqueous medium. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 8345-51	10.3	37
82	A modified microbial adhesion to hydrocarbons assay to account for the presence of hydrocarbon droplets. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 344, 492-6	9.3	37
81	Mobility of nanosized cerium dioxide and polymeric capsules in quartz and loamy sands saturated with model and natural groundwaters. <i>Water Research</i> , <b>2013</b> , 47, 5889-900	12.5	36
80	Real-time microgravimetric quantification of <i>Cryptosporidium parvum</i> in the presence of potential interferents. <i>Water Research</i> , <b>2009</b> , 43, 2631-8	12.5	32
79	Alkaloids modulate motility, biofilm formation and antibiotic susceptibility of uropathogenic <i>Escherichia coli</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e112093	3.7	31
78	Bacteriophage-based strategies for biofouling control in ultrafiltration: In situ biofouling mitigation, biocidal additives and biofilm cleanser. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 523, 254-265	9.3	28

77	Probing the Interaction between Nanoparticles and Lipid Membranes by Quartz Crystal Microbalance with Dissipation Monitoring. <i>Frontiers in Chemistry</i> , <b>2016</b> , 4, 46	5	28
76	Investigating electrochemical removal of bacterial biofilms from stainless steel substrates. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 117, 152-7	6	27
75	Effect of gold nanoparticles on extracellular nutrient-cycling enzyme activity and bacterial community in soil slurries: role of nanoparticle size and surface coating. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 907-918	7.1	26
74	QCM-D for non-destructive real-time assessment of <i>Pseudomonas aeruginosa</i> biofilm attachment to the substratum during biofilm growth. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 136, 928-34	6	25
73	Toward More Free-Floating Model Cell Membranes: Method Development and Application to Their Interaction with Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14339-48	9.5	25
72	Optimal preparation and purification of PRD1-like bacteriophages for use in environmental fate and transport studies. <i>Water Research</i> , <b>2010</b> , 44, 1114-25	12.5	24
71	Application of a dual deposition mode model to evaluate transport of <i>Escherichia coli</i> D21 in porous media. <i>Water Resources Research</i> , <b>2006</b> , 42,	5.4	24
70	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 13-36	7.1	23
69	Highly Absorbent Antibacterial and Biofilm-Disrupting Hydrogels from Cellulose for Wound Dressing Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 39991-40001	9.5	23
68	Optimizing Bacteriophage Surface Densities for Bacterial Capture and Sensing in Quartz Crystal Microbalance with Dissipation Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 13698-706	9.5	23
67	Hydrophilic Mechano-Bactericidal Nanopillars Require External Forces to Rapidly Kill Bacteria. <i>Nano Letters</i> , <b>2020</b> , 20, 5720-5727	11.5	22
66	Green Synthesis of High Quantum Yield Carbon Dots from Phenylalanine and Citric Acid: Role of Stoichiometry and Nitrogen Doping. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 5566-5575	8.3	22
65	Direct detection of the gel-fluid phase transition of a single supported phospholipid bilayer using quartz crystal microbalance with dissipation monitoring. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 8017-20	7.8	22
64	Colloid and Microbe Migration in Granular Environments: A Discussion of Modelling Methods <b>2007</b> , 119-142		22
63	Proanthocyanidin Interferes with Intrinsic Antibiotic Resistance Mechanisms of Gram-Negative Bacteria. <i>Advanced Science</i> , <b>2019</b> , 6, 1802333	13.6	21
62	Green synthesis of carbon dots and their applications.. <i>RSC Advances</i> , <b>2021</b> , 11, 25354-25363	3.7	21
61	Short-term inactivation rates of selected Gram-positive and Gram-negative bacteria attached to metal oxide mineral surfaces: role of solution and surface chemistry. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 5729-37	10.3	20
60	Biofilm formation by marine bacteria is impacted by concentration and surface functionalization of polystyrene nanoparticles in a species-specific manner. <i>Environmental Microbiology Reports</i> , <b>2020</b> , 12, 203-213	3.7	20



59	Antibacterial Properties of PLGA Electrospun Scaffolds Containing Ciprofloxacin Incorporated by Blending or Physisorption.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 627-635	4.1	20
58	Release of TiO <sub>2</sub> nanoparticles from painted surfaces in cold climates: characterization using a high sensitivity single-particle ICP-MS. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 139-148	7.1	19
57	Single- and Multi-Element Quantification and Characterization of TiO <sub>2</sub> Nanoparticles Released From Outdoor Stains and Paints. <i>Frontiers in Environmental Science</i> , <b>2020</b> , 8,	4.8	19
56	Development and characterization of silver-doped sol-gel-derived borate glasses with anti-bacterial activity. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 505, 438-446	3.9	19
55	Transport, motility, biofilm forming potential and survival of Bacillus subtilis exposed to cold temperature and freeze-thaw. <i>Water Research</i> , <b>2014</b> , 58, 239-47	12.5	18
54	Exposure of nanoplastics to freeze-thaw leads to aggregation and reduced transport in model groundwater environments. <i>Water Research</i> , <b>2021</b> , 189, 116533	12.5	18
53	Effects of environmental and clinical interferents on the host capture efficiency of immobilized bacteriophages. <i>Langmuir</i> , <b>2014</b> , 30, 3184-90	4	17
52	Pomegranate materials inhibit flagellin gene expression and flagellar-propelled motility of uropathogenic Escherichia coli strain CFT073. <i>FEMS Microbiology Letters</i> , <b>2012</b> , 334, 87-94	2.9	17
51	Role of cold climate and freeze-thaw on the survival, transport, and virulence of Yersinia enterocolitica. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 14169-77	10.3	17
50	Investigation of Laboratory-Scale and Pilot-Scale Attached Growth Ammonia Removal Kinetics at Cold Temperature and Low Influent Carbon. <i>Water Quality Research Journal of Canada</i> , <b>2010</b> , 45, 427-436	1.7	17
49	Antimicrobial Hierarchically Porous Graphene Oxide Sponges for Water Treatment.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 1578-1590	4.1	17
48	One-pot green synthesis of anisotropic silver nanoparticles. <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 1259-1264	12.64	16
47	Perturbation of host cell cytoskeleton by cranberry proanthocyanidins and their effect on enteric infections. <i>PLoS ONE</i> , <b>2011</b> , 6, e27267	3.7	16
46	Cranberry impairs selected behaviors essential for virulence in Proteus mirabilis HI4320. <i>Canadian Journal of Microbiology</i> , <b>2013</b> , 59, 430-6	3.2	15
45	Interpreting Deposition Behavior of Polydisperse Surface-Modified Nanoparticles Using QCM-D and Sand-Packed Columns. <i>Environmental Engineering Science</i> , <b>2014</b> , 31, 326-337	2	15
44	Induction of a state of iron limitation in uropathogenic Escherichia coli CFT073 by cranberry-derived proanthocyanidins as revealed by microarray analysis. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 1532-5	4.8	15
43	Preparation and Thermo-Mechanical Characterization of Chitosan Loaded Methylcellulose-Based Biodegradable Films: Effects of Gamma Radiation. <i>Journal of Polymers and the Environment</i> , <b>2012</b> , 20, 43-52	4.5	14
42	Effect of dissolved oxygen on two bacterial pathogens examined using ATR-FTIR spectroscopy, microelectrophoresis, and potentiometric titration. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 4136-41	10.3	14

41	Cranberry derived proanthocyanidins can prevent pathogen invasion of kidney epithelial cells. <i>Food Research International</i> , <b>2010</b> , 43, 922-924	7	14
40	Comparing TiO <sub>2</sub> nanoparticle formulations: stability and photoreactivity are key factors in acute toxicity to <i>Daphnia magna</i> . <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 2532-2543	7.1	13
39	Role of oxygen tension on the transport and retention of two pathogenic bacteria in saturated porous media. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 9178-83	10.3	13
38	Microfluidic Shear Assay to Distinguish between Bacterial Adhesion and Attachment Strength on Stiffness-Tunable Silicone Substrates. <i>Langmuir</i> , <b>2019</b> , 35, 8840-8849	4	12
37	Fate and Transport of Microbial Contaminants in Groundwater <b>2011</b> , 715-726		12
36	Weathering pathways and protocols for environmentally relevant microplastics and nanoplastics: What are we missing?. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 126955	12.8	12
35	Interaction between palladium-doped zerovalent iron nanoparticles and biofilm in granular porous media: characterization, transport and viability. <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 127-137	7.1	11
34	Cranberry derivatives enhance biofilm formation and transiently impair swarming motility of the uropathogen <i>Proteus mirabilis</i> HI4320. <i>Canadian Journal of Microbiology</i> , <b>2016</b> , 62, 464-74	3.2	10
33	Inhibition of bacterial motility and spreading via release of cranberry derived materials from silicone substrates. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 110, 275-80	6	9
32	Reply to Comment on Breakdown of Colloid Filtration Theory: Role of the Secondary Energy Minimum and Surface Charge Heterogeneities. <i>Langmuir</i> , <b>2005</b> , 21, 10896-10897	4	9
31	Graphene oxide sponge as adsorbent for organic contaminants: comparison with granular activated carbon and influence of water chemistry. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 2669-2680	7.1	9
30	Polystyrene micro- and nanoplastics affect locomotion and daily activity of <i>Drosophila melanogaster</i> . <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 110-121	7.1	9
29	Anodized Aluminum with Nanoholes Impregnated with Quaternary Ammonium Compounds Can Kill Pathogenic Bacteria within Seconds of Contact. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 41207-41214	9.5	9
28	Role of Cell Appendages in Initial Attachment and Stability of <i>E. coli</i> on Silica Monitored by Nondestructive TIRF Microscopy. <i>Langmuir</i> , <b>2017</b> , 33, 4066-4075	4	8
27	Effect of freeze/thaw on aggregation and transport of nano-TiO <sub>2</sub> in saturated porous media. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 1781-1793	7.1	8
26	Evaluating the binding of selected biomolecules to cranberry derived proanthocyanidins using the quartz crystal microbalance. <i>Biomacromolecules</i> , <b>2014</b> , 15, 1375-81	6.9	8
25	Self-Assembly of Ultralarge Graphene Oxide Nanosheets and Alginate into Layered Nanocomposites for Robust Packaging Materials. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 1431-1444	5.6	7
24	Microfluidics in microbiology: putting a magnifying glass on microbes. <i>Integrative Biology (United Kingdom)</i> , <b>2016</b> , 8, 914-917	3.7	7



23	Effect of tannic and gallic acids alone or in combination with carbenicillin or tetracycline on <i>Chromobacterium violaceum</i> CV026 growth, motility, and biofilm formation. <i>Canadian Journal of Microbiology</i> , <b>2015</b> , 61, 487-94	3.2	7
22	Natural freeze-thaw cycles may increase the risk associated with contamination in surface and groundwater environments. <i>Water Research X</i> , <b>2018</b> , 1, 100005	8.1	7
21	<i>Chlamydomonas reinhardtii</i> displays aversive swimming response to silver nanoparticles. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 1328-1338	7.1	6
20	Artificial turf infill associated with systematic toxicity in an amniote vertebrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 25156-25161	11.5	6
19	Polymer-Free Emulsion-Templated Graphene-Based Sponges for Contaminant Removal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 52095-52103	9.5	5
18	QCM-D and NanoTweezer measurements to characterize the effect of soil cellulase on the deposition of PEG-coated TiO <sub>2</sub> nanoparticles in model subsurface environments. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 2172-2183	7.1	5
17	Impact of Media Aging on the Removal of <i>Cryptosporidium</i> in Granular Media Filters. <i>Journal of Environmental Engineering, ASCE</i> , <b>2013</b> , 139, 603-611	2	4
16	Exposure to Freeze-Thaw Conditions Increases Virulence of <i>Pseudomonas aeruginosa</i> to <i>Drosophila melanogaster</i> . <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 14180-14186	10.3	4
15	Overcoming Interfacial Scaling Using Engineered Nanocelluloses: A QCM-D Study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 34553-34560	9.5	4
14	An improved experimental methodology to evaluate the effectiveness of protective gloves against nanoparticles in suspension. <i>Journal of Occupational and Environmental Hygiene</i> , <b>2017</b> , 14, D95-D101	2.9	3
13	Response to Comment on "Plastic Teabags Release Billions of Microparticles and Nanoparticles into Tea". <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 14136-14137	10.3	3
12	Engineering Polymer Forest on Membranes: Tuning Density, Thickness, and Architecture for Biofouling Control. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 4592-4603	4.3	3
11	Evaluating the Cell Membrane Penetration Potential of Lipid-Soluble Compounds Using Supported Phospholipid Bilayers. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 11174-11178	7.8	3
10	Single-Particle Resolution Fluorescence Microscopy of Nanoplastics.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> , 56, 6426-6435	10.3	3
9	Impact of kaolinite clay particles on the filtration of <i>Cryptosporidium</i> -sized microspheres. <i>Water Science and Technology: Water Supply</i> , <b>2013</b> , 13, 1583-1592	1.4	2
8	Response to Comment on "Correlation Equation for Predicting Single-Collector Efficiency in Physicochemical Filtration in Saturated Porous Media" <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 5496-5497	10.3	2
7	Silver-doped sol-gel borate glasses: Dose-dependent effect on <i>Pseudomonas aeruginosa</i> biofilms and keratinocyte function. <i>Journal of the American Ceramic Society</i> ,	3.8	2
6	Reply to the 'Comment on "Hierarchically porous, ultra-strong reduced graphene oxide-cellulose nanocrystal sponges for exceptional adsorption of water contaminants"' by J. Ma, Y. Xiong and F. Yu, <i>Nanoscale</i> , 2019, 11, DOI: 10.1039/C8NR08780F. <i>Nanoscale</i> , <b>2020</b> , 12, 9899-9901	7.7	1

5	Sustainable iron-grafted cellulose fibers enable coagulant recycling and improve contaminant removal in water treatment. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 132927	14.7	1
4	Metabolic Consequences of Developmental Exposure to Polystyrene Nanoplastics, the Flame Retardant BDE-47 and Their Combination in Zebrafish.. <i>Frontiers in Pharmacology</i> , <b>2022</b> , 13, 822111	5.6	0
3	From freshwaters to bivalves: Microplastic distribution along the Saint-Lawrence river-to-sea continuum.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 435, 128977	12.8	0
2	Mitigation of Urban Stormwater and Polluted River Water Impacts on Water Quality with Riverbank Filtration <b>2010</b> , 165-198		
1	Student Expectations from an Environmental Professional Society. <i>Environmental Engineering Science</i> , <b>2007</b> , 24, 1201-1217		2