Nathalie Tufenkji

List of Publications by Year
in descending order

155 papers	15,419 citations	25034 57 h-index	18130 120 g-index
164 all docs	164 docs citations	164 times ranked	14468 citing authors

#	Article	IF	Citations
1	Microplastics and Nanoplastics in Aquatic Environments: Aggregation, Deposition, and Enhanced Contaminant Transport. Environmental Science & Technology, 2018, 52, 1704-1724.	10.0	1,560
2	Aggregation and Deposition of Engineered Nanomaterials in Aquatic Environments: Role of Physicochemical Interactions. Environmental Science & Technology, 2010, 44, 6532-6549.	10.0	986
3	Correlation Equation for Predicting Single-Collector Efficiency in Physicochemical Filtration in Saturated Porous Media. Environmental Science & Technology, 2004, 38, 529-536.	10.0	983
4	Plastic Teabags Release Billions of Microparticles and Nanoparticles into Tea. Environmental Science & Technology, 2019, 53, 12300-12310.	10.0	591
5	Nano-enabled strategies to enhance crop nutrition and protection. Nature Nanotechnology, 2019, 14, 532-540.	31.5	551
6	Characterizing Manufactured Nanoparticles in the Environment: Multimethod Determination of Particle Sizes. Environmental Science & Technology, 2009, 43, 7277-7284.	10.0	500
7	Are There Nanoplastics in Your Personal Care Products?. Environmental Science and Technology Letters, 2017, 4, 280-285.	8.7	452
8	Separation and Analysis of Microplastics and Nanoplastics in Complex Environmental Samples. Accounts of Chemical Research, 2019, 52, 858-866.	15.6	418
9	Aggregation of Titanium Dioxide Nanoparticles: Role of a Fulvic Acid. Environmental Science & Technology, 2009, 43, 1282-1286.	10.0	409
10	Breakdown of Colloid Filtration Theory:Â Role of the Secondary Energy Minimum and Surface Charge Heterogeneities. Langmuir, 2005, 21, 841-852.	3.5	401
11	Nanoplastics are neither microplastics nor engineered nanoparticles. Nature Nanotechnology, 2021, 16, 501-507.	31.5	377
12	Deviation from the Classical Colloid Filtration Theory in the Presence of Repulsive DLVO Interactions. Langmuir, 2004, 20, 10818-10828.	3.5	372
13	Environmental performance of graphene-based 3D macrostructures. Nature Nanotechnology, 2019, 14, 107-119.	31.5	286
14	Modeling microbial transport in porous media: Traditional approaches and recent developments. Advances in Water Resources, 2007, 30, 1455-1469.	3.8	262
15	Effect of particle size and natural organic matter on the migration of nano- and microscale latex particles in saturated porous media. Journal of Colloid and Interface Science, 2008, 321, 74-83.	9.4	253
16	Technology readiness and overcoming barriers to sustainably implement nanotechnology-enabled plant agriculture. Nature Food, 2020, 1, 416-425.	14.0	239
17	The Swarming Motility of Pseudomonas aeruginosa Is Blocked by Cranberry Proanthocyanidins and Other Tannin-Containing Materials. Applied and Environmental Microbiology, 2011, 77, 3061-3067.	3.1	230
18	Peer Reviewed: The Promise of Bank Filtration. Environmental Science & Technology, 2002, 36, 422A-428A.	10.0	224

#	Article	IF	Citations
19	Understanding and Improving Microplastic Removal during Water Treatment: Impact of Coagulation and Flocculation. Environmental Science & Technology, 2020, 54, 8719-8727.	10.0	222
20	Transport ofCryptosporidiumOocysts in Porous Media:Â Role of Straining and Physicochemical Filtrationâ€. Environmental Science & Technology, 2004, 38, 5932-5938.	10.0	219
21	Amendment of Agricultural Soil with Metal Nanoparticles: Effects on Soil Enzyme Activity and Microbial Community Composition. Environmental Science & Technology, 2018, 52, 1908-1918.	10.0	188
22	Interpreting Deposition Patterns of Microbial Particles in Laboratory-Scale Column Experiments. Environmental Science & Technology, 2003, 37, 616-623.	10.0	168
23	Aggregation and deposition kinetics of carboxymethyl cellulose-modified zero-valent iron nanoparticles in porous media. Water Research, 2012, 46, 1735-1744.	11.3	139
24	The road to nowhere: equilibrium partition coefficients for nanoparticles. Environmental Science: Nano, 2014, 1, 317-323.	4.3	129
25	Spatial Distributions ofCryptosporidiumOocysts in Porous Media:Â Evidence for Dual Mode Deposition. Environmental Science & Technology, 2005, 39, 3620-3629.	10.0	116
26	Straining of polyelectrolyte-stabilized nanoscale zero valent iron particles during transport through granular porous media. Water Research, 2014, 50, 80-89.	11.3	115
27	Toxicity Assessments of Micro- and Nanoplastics Can Be Confounded by Preservatives in Commercial Formulations. Environmental Science and Technology Letters, 2019, 6, 21-25.	8.7	114
28	Green synthesis of carbon dots and their applications. RSC Advances, 2021, 11, 25354-25363.	3.6	113
29	Nanodarts, nanoblades, and nanospikes: Mechano-bactericidal nanostructures and where to find them. Advances in Colloid and Interface Science, 2018, 252, 55-68.	14.7	109
30	Deposition of TiO₂ Nanoparticles onto Silica Measured Using a Quartz Crystal Microbalance with Dissipation Monitoring. Langmuir, 2009, 25, 6062-6069.	3.5	101
31	Spray- and spin-assisted layer-by-layer assembly of copper nanoparticles on thin-film composite reverse osmosis membrane forÂbiofouling mitigation. Water Research, 2016, 99, 188-199.	11.3	99
32	Weathering pathways and protocols for environmentally relevant microplastics and nanoplastics: What are we missing?. Journal of Hazardous Materials, 2022, 423, 126955.	12.4	98
33	Transport of two metal oxide nanoparticles in saturated granular porous media: Role of water chemistry and particle coating. Water Research, 2012, 46, 1273-1285.	11.3	97
34	Primary and Secondary Plastic Particles Exhibit Limited Acute Toxicity but Chronic Effects on <i>Daphnia magna</i>. Environmental Science & Technology, 2020, 54, 6859-6868.	10.0	97
35	Cellulose nanocrystals with tunable surface charge for nanomedicine. Nanoscale, 2015, 7, 16647-16657.	5.6	94
36	Mobility of Functionalized Quantum Dots and a Model Polystyrene Nanoparticle in Saturated Quartz Sand and Loamy Sand. Environmental Science & Technology, 2012, 46, 4449-4457.	10.0	93

#	Article	IF	Citations
37	Developing Antibacterial Nanocrystalline Cellulose Using Natural Antibacterial Agents. ACS Applied Materials & Interfaces, 2018, 10, 33827-33838.	8.0	92
38	Deposition of Carboxymethylcellulose-Coated Zero-Valent Iron Nanoparticles onto Silica: Roles of Solution Chemistry and Organic Molecules. Langmuir, 2010, 26, 12832-12840.	3.5	89
39	Rhamnolipid Biosurfactant and Soy Protein Act as Effective Stabilizers in the Aggregation and Transport of Palladium-Doped Zerovalent Iron Nanoparticles in Saturated Porous Media. Environmental Science & Technology, 2013, 47, 13355-13364.	10.0	89
40	Cranberry-derived proanthocyanidins impair virulence and inhibit quorum sensing of Pseudomonas aeruginosa. Scientific Reports, 2016, 6, 30169.	3.3	89
41	Transport Behavior of Selected Nanoparticles with different Surface Coatings in Granular Porous Media coated with <i>Pseudomonas aeruginosa</i> Biofilm. Environmental Science & Technology, 2012, 46, 6942-6949.	10.0	87
42	Using the Quartz Crystal Microbalance with Dissipation Monitoring to Evaluate the Size of Nanoparticles Deposited on Surfaces. ACS Nano, 2013, 7, 7833-7843.	14.6	87
43	<i>In Situ</i> Silver Decoration on Graphene Oxide-Treated Thin Film Composite Forward Osmosis Membranes: Biocidal Properties and Regeneration Potential. Environmental Science and Technology Letters, 2016, 3, 13-18.	8.7	86
44	Inhibition of Escherichia coli CFT073 <i>fliC</i> Expression and Motility by Cranberry Materials. Applied and Environmental Microbiology, 2011, 77, 6852-6857.	3.1	84
45	A QCM-D-based biosensor for E. coli O157:H7 highlighting the relevance of the dissipation slope as a transduction signal. Biosensors and Bioelectronics, 2009, 24, 2137-2142.	10.1	83
46	Green Synthesis of High Quantum Yield Carbon Dots from Phenylalanine and Citric Acid: Role of Stoichiometry and Nitrogen Doping. ACS Sustainable Chemistry and Engineering, 2020, 8, 5566-5575.	6.7	81
47	Influence of Solution Chemistry on the Deposition and Detachment Kinetics of a CdTe Quantum Dot Examined Using a Quartz Crystal Microbalance. Environmental Science & Technology, 2009, 43, 3176-3182.	10.0	79
48	Transport of selected bacterial pathogens in agricultural soil and quartz sand. Water Research, 2010, 44, 1182-1192.	11.3	78
49	Electrochemical disinfection of bacteria-laden water using antimony-doped tin-tungsten-oxide electrodes. Water Research, 2017, 126, 299-307.	11.3	75
50	Hierarchically porous, ultra-strong reduced graphene oxide-cellulose nanocrystal sponges for exceptional adsorption of water contaminants. Nanoscale, 2018, 10, 7171-7184.	5.6	75
51	Formation of biofilms under phage predation: considerations concerning a biofilm increase. Biofouling, 2013, 29, 457-468.	2.2	74
52	Evolution of Pseudomonas aeruginosa Virulence as a Result of Phage Predation. Applied and Environmental Microbiology, 2013, 79, 6110-6116.	3.1	74
53	Partitioning and Accumulation of Perfluoroalkyl Substances in Model Lipid Bilayers and Bacteria. Environmental Science & Technology, 2018, 52, 10433-10440.	10.0	74
54	Going viral: Designing bioactive surfaces with bacteriophage. Colloids and Surfaces B: Biointerfaces, 2014, 124, 2-16.	5.0	69

#	Article	IF	Citations
55	Hydrophobicity of biofilm coatings influences the transport dynamics of polystyrene nanoparticles in biofilm-coated sand. Water Research, 2016, 92, 113-120.	11.3	66
56	Bacterial Capture Efficiency and Antimicrobial Activity of Phage-Functionalized Model Surfaces. Langmuir, 2011, 27, 5472-5480.	3.5	62
57	Polyphenolic Extract from Maple Syrup Potentiates Antibiotic Susceptibility and Reduces Biofilm Formation of Pathogenic Bacteria. Applied and Environmental Microbiology, 2015, 81, 3782-3792.	3.1	62
58	Transport of Industrial PVP-Stabilized Silver Nanoparticles in Saturated Quartz Sand Coated with <i>Pseudomonas aeruginosa</i> PAO1 Biofilm of Variable Age. Environmental Science & Technology, 2014, 48, 2715-2723.	10.0	61
59	Highly Absorbent Antibacterial and Biofilm-Disrupting Hydrogels from Cellulose for Wound Dressing Applications. ACS Applied Materials & Interfaces, 2020, 12, 39991-40001.	8.0	60
60	Hydrophilic Mechano-Bactericidal Nanopillars Require External Forces to Rapidly Kill Bacteria. Nano Letters, 2020, 20, 5720-5727.	9.1	57
61	Multi-scale Cryptosporidium/sand interactions in water treatment. Water Research, 2006, 40, 3315-3331.	11.3	55
62	Cranberry Derived Proanthocyanidins Reduce Bacterial Adhesion to Selected Biomaterials. Langmuir, 2008, 24, 10273-10281.	3.5	54
63	Assessing the transport potential of polymeric nanocapsules developed for crop protection. Water Research, 2017, 111, 10-17.	11.3	54
64	A modified microbial adhesion to hydrocarbons assay to account for the presence of hydrocarbon droplets. Journal of Colloid and Interface Science, 2010, 344, 492-496.	9.4	51
65	Deposition Kinetics of Quantum Dots and Polystyrene Latex Nanoparticles onto Alumina: Role of Water Chemistry and Particle Coating. Environmental Science & Technology, 2013, 47, 2212-2220.	10.0	51
66	Exposure of nanoplastics to freeze-thaw leads to aggregation and reduced transport in model groundwater environments. Water Research, 2021, 189, 116533.	11.3	51
67	Relevance of Nontoxigenic Strains as Surrogates forEscherichia coliO157:H7 in Groundwater Contamination Potential:Â Role of Temperature and Cell Acclimation Time. Environmental Science & Technology, 2007, 41, 4332-4338.	10.0	49
68	Transformations of silver nanoparticles in wastewater effluents: links to Ag bioavailability. Environmental Science: Nano, 2017, 4, 1339-1349.	4.3	49
69	Tannin derived materials can block swarming motility and enhance biofilm formation in<i>Pseudomonas aeruginosa</i>. Biofouling, 2012, 28, 1063-1076.	2.2	46
70	Effects of Rhamnolipid and Carboxymethylcellulose Coatings on Reactivity of Palladium-Doped Nanoscale Zerovalent Iron Particles. Environmental Science & Technology, 2016, 50, 1812-1820.	10.0	46
71	Physicochemical characterization of engineered nanoparticles under physiological conditions: Effect of culture media components and particle surface coating. Colloids and Surfaces B: Biointerfaces, 2012, 91, 198-204.	5.0	45
72	Proanthocyanidin Interferes with Intrinsic Antibiotic Resistance Mechanisms of Gramâ€Negative Bacteria. Advanced Science, 2019, 6, 1802333.	11.2	45

#	Article	IF	Citations
73	Reduced transport potential of a palladium-doped zero valent iron nanoparticle in a water saturated loamy sand. Water Research, 2015, 68, 354-363.	11.3	43
74	Probing the Interaction between Nanoparticles and Lipid Membranes by Quartz Crystal Microbalance with Dissipation Monitoring. Frontiers in Chemistry, 2016, 4, 46.	3.6	43
75	Method for the Direct Observation and Quantification of Survival of Bacteria Attached to Negatively or Positively Charged Surfaces in an Aqueous Medium. Environmental Science & Technology, 2011, 45, 8345-8351.	10.0	41
76	Mobility of nanosized cerium dioxide and polymeric capsules in quartz and loamy sands saturated with model and natural groundwaters. Water Research, 2013, 47, 5889-5900.	11.3	40
77	Alkaloids Modulate Motility, Biofilm Formation and Antibiotic Susceptibility of Uropathogenic Escherichia coli. PLoS ONE, 2014, 9, e112093.	2.5	39
78	Investigating electrochemical removal of bacterial biofilms from stainless steel substrates. Colloids and Surfaces B: Biointerfaces, 2014, 117, 152-157.	5.0	39
79	Bacteriophage-based strategies for biofouling control in ultrafiltration: In situ biofouling mitigation, biocidal additives and biofilm cleanser. Journal of Colloid and Interface Science, 2018, 523, 254-265.	9.4	37
80	Biofilm formation by marine bacteria is impacted by concentration and surface functionalization of polystyrene nanoparticles in a speciesâ€specific manner. Environmental Microbiology Reports, 2020, 12, 203-213.	2.4	36
81	Real-time microgravimetric quantification of Cryptosporidium parvum in the presence of potential interferents. Water Research, 2009, 43, 2631-2638.	11.3	35
82	QCM-D for non-destructive real-time assessment of Pseudomonas aeruginosa biofilm attachment to the substratum during biofilm growth. Colloids and Surfaces B: Biointerfaces, 2015, 136, 928-934.	5.0	35
83	Effect of gold nanoparticles on extracellular nutrient-cycling enzyme activity and bacterial community in soil slurries: role of nanoparticle size and surface coating. Environmental Science: Nano, 2017, 4, 907-918.	4.3	35
84	Single- and Multi-Element Quantification and Characterization of TiO2 Nanoparticles Released From Outdoor Stains and Paints. Frontiers in Environmental Science, 2020, 8, .	3.3	33
85	Development and characterization of silver-doped sol-gel-derived borate glasses with anti-bacterial activity. Journal of Non-Crystalline Solids, 2019, 505, 438-446.	3.1	32
86	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. Environmental Science: Nano, 2020, 7, 13-36.	4.3	32
87	Application of a dual deposition mode model to evaluate transport ofEscherichia coliD21 in porous media. Water Resources Research, 2006, 42, .	4.2	29
88	Optimal preparation and purification of PRD1-like bacteriophages for use in environmental fate and transport studies. Water Research, 2010, 44, 1114-1125.	11.3	29
89	Optimizing Bacteriophage Surface Densities for Bacterial Capture and Sensing in Quartz Crystal Microbalance with Dissipation Monitoring. ACS Applied Materials & Interfaces, 2016, 8, 13698-13706.	8.0	29
90	Toward More Free-Floating Model Cell Membranes: Method Development and Application to Their Interaction with Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 14339-14348.	8.0	29

#	Article	IF	Citations
91	Colloid and Microbe Migration in Granular Environments: A Discussion of Modelling Methods. , 2007, , 119-142.		28
92	Role of Cold Climate and Freezeâ€“Thaw on the Survival, Transport, and Virulence of <i>Yersinia enterocolitica</i>. Environmental Science & Technology, 2013, 47, 14169-14177.	10.0	27
93	Transport, motility, biofilm forming potential andÂsurvival of Bacillus subtilis exposed to cold temperature and freezeâ€“thaw. Water Research, 2014, 58, 239-247.	11.3	27
94	Antibacterial Properties of PLGA Electrospun Scaffolds Containing Ciprofloxacin Incorporated by Blending or Physisorption. ACS Applied Bio Materials, 2018, 1, 627-635.	4.6	27
95	Surface Wettability Is a Key Feature in the Mechano-Bactericidal Activity of Nanopillars. ACS Applied Materials & Interfaces, 2022, 14, 27564-27574.	8.0	27
96	Short-Term Inactivation Rates of Selected Gram-Positive and Gram-Negative Bacteria Attached to Metal Oxide Mineral Surfaces: Role of Solution and Surface Chemistry. Environmental Science & Technology, 2013, 47, 5729-5737.	10.0	26
97	Release of TiO₂nanoparticles from painted surfaces in cold climates: characterization using a high sensitivity single-particle ICP-MS. Environmental Science: Nano, 2020, 7, 139-148.	4.3	26
98	Polystyrene micro- and nanoplastics affect locomotion and daily activity of<i>Drosophila melanogaster</i>. Environmental Science: Nano, 2021, 8, 110-121.	4.3	26
99	Direct Detection of the Gelâ€“Fluid Phase Transition of a Single Supported Phospholipid Bilayer Using Quartz Crystal Microbalance with Dissipation Monitoring. Analytical Chemistry, 2014, 86, 8017-8020.	6.5	25
100	Microfluidic Shear Assay to Distinguish between Bacterial Adhesion and Attachment Strength on Stiffness-Tunable Silicone Substrates. Langmuir, 2019, 35, 8840-8849.	3.5	25
101	Graphene oxide sponge as adsorbent for organic contaminants: comparison with granular activated carbon and influence of water chemistry. Environmental Science: Nano, 2020, 7, 2669-2680.	4.3	24
102	Sustainable strategies to treat urban runoff needed. Nature Sustainability, 2022, 5, 366-369.	23.7	24
103	Pomegranate materials inhibit flagellin gene expression and flagellar-propelled motility of uropathogenic Escherichia coli strain CFT073. FEMS Microbiology Letters, 2012, 334, 87-94.	1.8	22
104	Perturbation of Host Cell Cytoskeleton by Cranberry Proanthocyanidins and Their Effect on Enteric Infections. PLoS ONE, 2011, 6, e27267.	2.5	22
105	Single-Particle Resolution Fluorescence Microscopy of Nanoplastics. Environmental Science & Technology, 2022, 56, 6426-6435.	10.0	22
106	Investigation of Laboratory-Scale and Pilot-Scale Attached Growth Ammonia Removal Kinetics at Cold Temperature and Low Influent Carbon. Water Quality Research Journal of Canada, 2010, 45, 427-436.	2.7	21
107	Cranberry impairs selected behaviors essential for virulence in<i>Proteus mirabilis</i>HI4320. Canadian Journal of Microbiology, 2013, 59, 430-436.	1.7	21
108	One-pot green synthesis of anisotropic silver nanoparticles. Environmental Science: Nano, 2016, 3, 1259-1264.	4.3	21

#	Article	IF	Citations
109	Comparing TiO₂ nanoparticle formulations: stability and photoreactivity are key factors in acute toxicity to <i>Daphnia magna</i>. Environmental Science: Nano, 2019, 6, 2532-2543.	4.3	21
110	Antimicrobial Hierarchically Porous Graphene Oxide Sponges for Water Treatment. ACS Applied Bio Materials, 2019, 2, 1578-1590.	4.6	21
111	Interpreting Deposition Behavior of Polydisperse Surface-Modified Nanoparticles Using QCM-D and Sand-Packed Columns. Environmental Engineering Science, 2014, 31, 326-337.	1.6	20
112	Artificial turf infill associated with systematic toxicity in an amniote vertebrate. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25156-25161.	7.1	20
113	Induction of a State of Iron Limitation in Uropathogenic <i>Escherichia coli</i> CFT073 by Cranberry-Derived Proanthocyanidins as Revealed by Microarray Analysis. Applied and Environmental Microbiology, 2011, 77, 1532-1535.	3.1	19
114	Preparation and Thermo-Mechanical Characterization of Chitosan Loaded Methylcellulose-Based Biodegradable Films: Effects of Gamma Radiation. Journal of Polymers and the Environment, 2012, 20, 43-52.	5.0	19
115	Effect of Dissolved Oxygen on Two Bacterial Pathogens Examined using ATR-FTIR Spectroscopy, Microelectrophoresis, and Potentiometric Titration. Environmental Science & Technology, 2010, 44, 4136-4141.	10.0	18
116	Effects of Environmental and Clinical Interferents on the Host Capture Efficiency of Immobilized Bacteriophages. Langmuir, 2014, 30, 3184-3190.	3.5	18
117	Anodized Aluminum with Nanoholes Impregnated with Quaternary Ammonium Compounds Can Kill Pathogenic Bacteria within Seconds of Contact. ACS Applied Materials & Interfaces, 2018, 10, 41207-41214.	8.0	18
118	Self-Assembly of Ultralarge Graphene Oxide Nanosheets and Alginate into Layered Nanocomposites for Robust Packaging Materials. ACS Applied Nano Materials, 2019, 2, 1431-1444.	5.0	17
119	Cranberry derived proanthocyanidins can prevent pathogen invasion of kidney epithelial cells. Food Research International, 2010, 43, 922-924.	6.2	16
120	Fate and Transport of Microbial Contaminants in Groundwater. , 2011, , 715-726.		16
121	Role of Oxygen Tension on the Transport and Retention of Two Pathogenic Bacteria in Saturated Porous Media. Environmental Science & Technology, 2008, 42, 9178-9183.	10.0	14
122	Cranberry derivatives enhance biofilm formation and transiently impair swarming motility of the uropathogen<i>Proteus mirabilis</i>HI4320. Canadian Journal of Microbiology, 2016, 62, 464-474.	1.7	13
123	Polymer-Free Emulsion-Templated Graphene-Based Sponges for Contaminant Removal. ACS Applied Materials & Interfaces, 2020, 12, 52095-52103.	8.0	13
124	Inhibition of bacterial motility and spreading via release of cranberry derived materials from silicone substrates. Colloids and Surfaces B: Biointerfaces, 2013, 110, 275-280.	5.0	12
125	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. Canadian Journal of Microbiology, 2015, 61, 487-494.	1.7	12
126	Interaction between palladium-doped zerovalent iron nanoparticles and biofilm in granular porous media: characterization, transport and viability. Environmental Science: Nano, 2016, 3, 127-137.	4.3	12

#	Article	IF	Citations
127	Natural freeze-thaw cycles may increase the risk associated with Salmonella contamination in surface and groundwater environments. Water Research X, 2018, 1, 100005.	6.1	12
128	Response to Comment on â€œPlastic Teabags Release Billions of Microparticles and Nanoparticles into Teaâ€• Environmental Science & Technology, 2020, 54, 14136-14137.	10.0	12
129	Effect of freeze/thaw on aggregation and transport of nano-TiO₂ in saturated porous media. Environmental Science: Nano, 2020, 7, 1781-1793.	4.3	12
130	Fate of microfibres from single-use face masks: Release to the environment and removal during wastewater treatment. Journal of Hazardous Materials, 2022, 438, 129408.	12.4	12
131	Role of Cell Appendages in Initial Attachment and Stability of <i>E. coli</i> on Silica Monitored by Nondestructive TIRF Microscopy. Langmuir, 2017, 33, 4066-4075.	3.5	11
132	From freshwaters to bivalves: Microplastic distribution along the Saint-Lawrence river-to-sea continuum. Journal of Hazardous Materials, 2022, 435, 128977.	12.4	11
133	Reply to Comment on Breakdown of Colloid Filtration Theory:Â Role of the Secondary Energy Minimum and Surface Charge Heterogeneities. Langmuir, 2005, 21, 10896-10897.	3.5	10
134	Silverâ€doped solâ€gel borate glasses: Doseâ€dependent effect on <i>Pseudomonas aeruginosa</i> biofilms and keratinocyte function. Journal of the American Ceramic Society, 2022, 105, 1711-1722.	3.8	10
135	Evaluating the Binding of Selected Biomolecules to Cranberry Derived Proanthocyanidins Using the Quartz Crystal Microbalance. Biomacromolecules, 2014, 15, 1375-1381.	5.4	9
136	Engineering Polymer Forest on Membranes: Tuning Density, Thickness, and Architecture for Biofouling Control. ACS Applied Polymer Materials, 2020, 2, 4592-4603.	4.4	9
137	Cranberry-Derived Proanthocyanidins Potentiate Î²-Lactam Antibiotics against Resistant Bacteria. Applied and Environmental Microbiology, 2021, 87, .	3.1	9
138	Microfluidics in microbiology: putting a magnifying glass on microbes. Integrative Biology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	8
139	QCM-D and NanoTweezer measurements to characterize the effect of soil cellulase on the deposition of PEG-coated TiO2 nanoparticles in model subsurface environments. Environmental Science: Nano, 2018, 5, 2172-2183.	4.3	8
140	Sustainable iron-grafted cellulose fibers enable coagulant recycling and improve contaminant removal in water treatment. Chemical Engineering Journal, 2022, 430, 132927.	12.7	8
141	Super-bridging fibrous materials for water treatment. Npj Clean Water, 2022, 5, .	8.0	8
142	Impact of Media Aging on the Removal of <i>Cryptosporidium</i> in Granular Media Filters. Journal of Environmental Engineering, ASCE, 2013, 139, 603-611.	1.4	7
143	Chlamydomonas reinhardtii displays aversive swimming response to silver nanoparticles. Environmental Science: Nano, 2017, 4, 1328-1338.	4.3	7
144	Evaluating the Cell Membrane Penetration Potential of Lipid-Soluble Compounds Using Supported Phospholipid Bilayers. Analytical Chemistry, 2018, 90, 11174-11178.	6.5	7

#	Article	IF	Citations
145	Overcoming Interfacial Scaling Using Engineered Nanocelluloses: A QCM-D Study. ACS Applied Materials & Interfaces, 2018, 10, 34553-34560.	8.0	7
146	Exposure to Freezeâ€“Thaw Conditions Increases Virulence of <i>Pseudomonas aeruginosa</i> to <i>Drosophila melanogaster</i>. Environmental Science & Technology, 2018, 52, 14180-14186.	10.0	6
147	Metabolic Consequences of Developmental Exposure to Polystyrene Nanoplastics, the Flame Retardant BDE-47 and Their Combination in Zebrafish. Frontiers in Pharmacology, 2022, 13, 822111.	3.5	5
148	Mechanistic understanding of the aggregation kinetics of nanoplastics in marine environments: Comparing synthetic and natural water matrices. Journal of Hazardous Materials Advances, 2022, 7, 100115.	3.0	4
149	Response to Comment on â€œCorrelation Equation for Predicting Single-Collector Efficiency in Physicochemical Filtration in Saturated Porous Mediaâ€ Environmental Science & Technology, 2005, 39, 5496-5497.	10.0	3
150	An improved experimental methodology to evaluate the effectiveness of protective gloves against nanoparticles in suspension. Journal of Occupational and Environmental Hygiene, 2017, 14, D95-D101.	1.0	3
151	Microfluidic Study of Bacterial Attachment on and Detachment from Zinc Oxide Nanopillars. ACS Biomaterials Science and Engineering, 0, , .	5.2	3
152	Impact of kaolinite clay particles on the filtration of Cryptosporidium-sized microspheres. Water Science and Technology: Water Supply, 2013, 13, 1583-1592.	2.1	2
153	Reply to the â€˜Comment on â€œHierarchically porous, ultra-strong reduced graphene oxideâ€“cellulose nanocrystal sponges for exceptional adsorption of water contaminantsâ€â€™ by J. Ma, Y. Xiong and F. Yu, Nanoscale, 2019, 11, DOI: 10.1039/C8NR08780F. Nanoscale, 2020, 12, 9899-9901.	5.6	2
154	Student Expectations from an Environmental Professional Society. Environmental Engineering Science, 2007, 24, 1201-1217.	1.6	1
155	Mitigation of Urban Stormwater and Polluted River Water Impacts on Water Quality with Riverbank Filtration. , 2010, , 165-198.		0