

Nathalie Tufenkji

List of Publications by Year in descending order

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Version: 2024-02-01

155
papers

15,419
citations

24978

57
h-index

18075

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. <i>Environmental Science & Technology</i> , 2018, 52, 1704-1724.	4.6	1,560
2	Aggregation and Deposition of Engineered Nanomaterials in Aquatic Environments: Role of Physicochemical Interactions. <i>Environmental Science & Technology</i> , 2010, 44, 6532-6549.	4.6	986
3	Correlation Equation for Predicting Single-Collector Efficiency in Physicochemical Filtration in Saturated Porous Media. <i>Environmental Science & Technology</i> , 2004, 38, 529-536.	4.6	983
4	Plastic Teabags Release Billions of Microparticles and Nanoparticles into Tea. <i>Environmental Science & Technology</i> , 2019, 53, 12300-12310.	4.6	591
5	Nano-enabled strategies to enhance crop nutrition and protection. <i>Nature Nanotechnology</i> , 2019, 14, 532-540.	15.6	551
6	Characterizing Manufactured Nanoparticles in the Environment: Multimethod Determination of Particle Sizes. <i>Environmental Science & Technology</i> , 2009, 43, 7277-7284.	4.6	500
7	Are There Nanoplastics in Your Personal Care Products?. <i>Environmental Science and Technology Letters</i> , 2017, 4, 280-285.	3.9	452
8	Separation and Analysis of Microplastics and Nanoplastics in Complex Environmental Samples. <i>Accounts of Chemical Research</i> , 2019, 52, 858-866.	7.6	418
9	Aggregation of Titanium Dioxide Nanoparticles: Role of a Fulvic Acid. <i>Environmental Science & Technology</i> , 2009, 43, 1282-1286.	4.6	409
10	Breakdown of Colloid Filtration Theory: A Role of the Secondary Energy Minimum and Surface Charge Heterogeneities. <i>Langmuir</i> , 2005, 21, 841-852.	1.6	401
11	Nanoplastics are neither microplastics nor engineered nanoparticles. <i>Nature Nanotechnology</i> , 2021, 16, 501-507.	15.6	377
12	Deviation from the Classical Colloid Filtration Theory in the Presence of Repulsive DLVO Interactions. <i>Langmuir</i> , 2004, 20, 10818-10828.	1.6	372
13	Environmental performance of graphene-based 3D macrostructures. <i>Nature Nanotechnology</i> , 2019, 14, 107-119.	15.6	286
14	Modeling microbial transport in porous media: Traditional approaches and recent developments. <i>Advances in Water Resources</i> , 2007, 30, 1455-1469.	1.7	262
15	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> , 2008, 321, 74-83.	5.0	253
16	Technology readiness and overcoming barriers to sustainably implement nanotechnology-enabled plant agriculture. <i>Nature Food</i> , 2020, 1, 416-425.	6.2	239
17	The Swarming Motility of <i>Pseudomonas aeruginosa</i> Is Blocked by Cranberry Proanthocyanidins and Other Tannin-Containing Materials. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3061-3067.	1.4	230
18	Peer Reviewed: The Promise of Bank Filtration. <i>Environmental Science & Technology</i> , 2002, 36, 422A-428A.	4.6	224

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19	Understanding and Improving Microplastic Removal during Water Treatment: Impact of Coagulation and Flocculation. <i>Environmental Science & Technology</i> , 2020, 54, 8719-8727.	4.6	222
20	Transport of <i>Cryptosporidium</i> Oocysts in Porous Media: A Role of Straining and Physicochemical Filtration. <i>Environmental Science & Technology</i> , 2004, 38, 5932-5938.	4.6	219
21	Amendment of Agricultural Soil with Metal Nanoparticles: Effects on Soil Enzyme Activity and Microbial Community Composition. <i>Environmental Science & Technology</i> , 2018, 52, 1908-1918.	4.6	188
22	Interpreting Deposition Patterns of Microbial Particles in Laboratory-Scale Column Experiments. <i>Environmental Science & Technology</i> , 2003, 37, 616-623.	4.6	168
23	Aggregation and deposition kinetics of carboxymethyl cellulose-modified zero-valent iron nanoparticles in porous media. <i>Water Research</i> , 2012, 46, 1735-1744.	5.3	139
24	The road to nowhere: equilibrium partition coefficients for nanoparticles. <i>Environmental Science: Nano</i> , 2014, 1, 317-323.	2.2	129
25	Spatial Distributions of <i>Cryptosporidium</i> Oocysts in Porous Media: Evidence for Dual Mode Deposition. <i>Environmental Science & Technology</i> , 2005, 39, 3620-3629.	4.6	116
26	Straining of polyelectrolyte-stabilized nanoscale zero valent iron particles during transport through granular porous media. <i>Water Research</i> , 2014, 50, 80-89.	5.3	115
27	Toxicity Assessments of Micro- and Nanoplastics Can Be Confounded by Preservatives in Commercial Formulations. <i>Environmental Science and Technology Letters</i> , 2019, 6, 21-25.	3.9	114
28	Green synthesis of carbon dots and their applications. <i>RSC Advances</i> , 2021, 11, 25354-25363.	1.7	113
29	Nanodarts, nanoblades, and nanospikes: Mechano-bactericidal nanostructures and where to find them. <i>Advances in Colloid and Interface Science</i> , 2018, 252, 55-68.	7.0	109
30	Deposition of TiO_2 Nanoparticles onto Silica Measured Using a Quartz Crystal Microbalance with Dissipation Monitoring. <i>Langmuir</i> , 2009, 25, 6062-6069.	1.6	101
31	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> , 2016, 99, 188-199.	5.3	99
32	Weathering pathways and protocols for environmentally relevant microplastics and nanoplastics: What are we missing?. <i>Journal of Hazardous Materials</i> , 2022, 423, 126955.	6.5	98
33	Transport of two metal oxide nanoparticles in saturated granular porous media: Role of water chemistry and particle coating. <i>Water Research</i> , 2012, 46, 1273-1285.	5.3	97
34	Primary and Secondary Plastic Particles Exhibit Limited Acute Toxicity but Chronic Effects on <i>Daphnia magna</i> . <i>Environmental Science & Technology</i> , 2020, 54, 6859-6868.	4.6	97
35	Cellulose nanocrystals with tunable surface charge for nanomedicine. <i>Nanoscale</i> , 2015, 7, 16647-16657.	2.8	94
36	Mobility of Functionalized Quantum Dots and a Model Polystyrene Nanoparticle in Saturated Quartz Sand and Loamy Sand. <i>Environmental Science & Technology</i> , 2012, 46, 4449-4457.	4.6	93

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37	Developing Antibacterial Nanocrystalline Cellulose Using Natural Antibacterial Agents. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33827-33838.	4.0	92
38	Deposition of Carboxymethylcellulose-Coated Zero-Valent Iron Nanoparticles onto Silica: Roles of Solution Chemistry and Organic Molecules. <i>Langmuir</i> , 2010, 26, 12832-12840.	1.6	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. <i>Environmental Science & Technology</i> , 2013, 47, 13355-13364.	4.6	89
40	Cranberry-derived proanthocyanidins impair virulence and inhibit quorum sensing of <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2016, 6, 30169.	1.6	89
41	Transport Behavior of Selected Nanoparticles with different Surface Coatings in Granular Porous Media coated with <i>Pseudomonas aeruginosa</i> Biofilm. <i>Environmental Science & Technology</i> , 2012, 46, 6942-6949.	4.6	87
42	Using the Quartz Crystal Microbalance with Dissipation Monitoring to Evaluate the Size of Nanoparticles Deposited on Surfaces. <i>ACS Nano</i> , 2013, 7, 7833-7843.	7.3	87
43	<i>In Situ</i> Silver Decoration on Graphene Oxide-Treated Thin Film Composite Forward Osmosis Membranes: Biocidal Properties and Regeneration Potential. <i>Environmental Science and Technology Letters</i> , 2016, 3, 13-18.	3.9	86
44	Inhibition of <i>Escherichia coli</i> CFT073 <i>fliC</i> Expression and Motility by Cranberry Materials. <i>Applied and Environmental Microbiology</i> , 2011, 77, 6852-6857.	1.4	84
45	A QCM-D-based biosensor for <i>E. coli</i> O157:H7 highlighting the relevance of the dissipation slope as a transduction signal. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2137-2142.	5.3	83
46	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> , 2020, 8, 5566-5575.	3.2	81
47	Influence of Solution Chemistry on the Deposition and Detachment Kinetics of a CdTe Quantum Dot Examined Using a Quartz Crystal Microbalance. <i>Environmental Science & Technology</i> , 2009, 43, 3176-3182.	4.6	79
48	Transport of selected bacterial pathogens in agricultural soil and quartz sand. <i>Water Research</i> , 2010, 44, 1182-1192.	5.3	78
49	Electrochemical disinfection of bacteria-laden water using antimony-doped tin-tungsten-oxide electrodes. <i>Water Research</i> , 2017, 126, 299-307.	5.3	75
50	Hierarchically porous, ultra-strong reduced graphene oxide-cellulose nanocrystal sponges for exceptional adsorption of water contaminants. <i>Nanoscale</i> , 2018, 10, 7171-7184.	2.8	75
51	Formation of biofilms under phage predation: considerations concerning a biofilm increase. <i>Biofouling</i> , 2013, 29, 457-468.	0.8	74
52	Evolution of <i>Pseudomonas aeruginosa</i> Virulence as a Result of Phage Predation. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6110-6116.	1.4	74
53	Partitioning and Accumulation of Perfluoroalkyl Substances in Model Lipid Bilayers and Bacteria. <i>Environmental Science & Technology</i> , 2018, 52, 10433-10440.	4.6	74
54	Going viral: Designing bioactive surfaces with bacteriophage. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 124, 2-16.	2.5	69

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55	Hydrophobicity of biofilm coatings influences the transport dynamics of polystyrene nanoparticles in biofilm-coated sand. <i>Water Research</i> , 2016, 92, 113-120.	5.3	66
56	Bacterial Capture Efficiency and Antimicrobial Activity of Phage-Functionalized Model Surfaces. <i>Langmuir</i> , 2011, 27, 5472-5480.	1.6	62
57	Polyphenolic Extract from Maple Syrup Potentiates Antibiotic Susceptibility and Reduces Biofilm Formation of Pathogenic Bacteria. <i>Applied and Environmental Microbiology</i> , 2015, 81, 3782-3792.	1.4	62
58	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 & Technology</i> , 2014, 48, 2715-2723.	4.6	61
59	Highly Absorbent Antibacterial and Biofilm-Disrupting Hydrogels from Cellulose for Wound Dressing Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39991-40001.	4.0	60
60	Hydrophilic Mechano-Bactericidal Nanopillars Require External Forces to Rapidly Kill Bacteria. <i>Nano Letters</i> , 2020, 20, 5720-5727.	4.5	57
61	Multi-scale <i>Cryptosporidium</i> /sand interactions in water treatment. <i>Water Research</i> , 2006, 40, 3315-3331.	5.3	55
62	Cranberry Derived Proanthocyanidins Reduce Bacterial Adhesion to Selected Biomaterials. <i>Langmuir</i> , 2008, 24, 10273-10281.	1.6	54
63	Assessing the transport potential of polymeric nanocapsules developed for crop protection. <i>Water Research</i> , 2017, 111, 10-17.	5.3	54
64	A modified microbial adhesion to hydrocarbons assay to account for the presence of hydrocarbon droplets. <i>Journal of Colloid and Interface Science</i> , 2010, 344, 492-496.	5.0	51
65	Deposition Kinetics of Quantum Dots and Polystyrene Latex Nanoparticles onto Alumina: Role of Water Chemistry and Particle Coating. <i>Environmental Science & Technology</i> , 2013, 47, 2212-2220.	4.6	51
66	Exposure of nanoplastics to freeze-thaw leads to aggregation and reduced transport in model groundwater environments. <i>Water Research</i> , 2021, 189, 116533.	5.3	51
67	Relevance of Nontoxic Strains as Surrogates for <i>Escherichia coli</i> O157:H7 in Groundwater Contamination Potential: A Role of Temperature and Cell Acclimation Time. <i>Environmental Science & Technology</i> , 2007, 41, 4332-4338.	4.6	49
68	Transformations of silver nanoparticles in wastewater effluents: links to Ag bioavailability. <i>Environmental Science: Nano</i> , 2017, 4, 1339-1349.	2.2	49
69	Tannin derived materials can block swarming motility and enhance biofilm formation in <i>Pseudomonas aeruginosa</i> . <i>Biofouling</i> , 2012, 28, 1063-1076.	0.8	46
70	Effects of Rhamnolipid and Carboxymethylcellulose Coatings on Reactivity of Palladium-Doped Nanoscale Zerovalent Iron Particles. <i>Environmental Science & Technology</i> , 2016, 50, 1812-1820.	4.6	46
71	Physicochemical characterization of engineered nanoparticles under physiological conditions: Effect of culture media components and particle surface coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 91, 198-204.	2.5	45
72	Proanthocyanidin Interferes with Intrinsic Antibiotic Resistance Mechanisms of Gram-Negative Bacteria. <i>Advanced Science</i> , 2019, 6, 1802333.	5.6	45

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73	Reduced transport potential of a palladium-doped zero valent iron nanoparticle in a water saturated loamy sand. <i>Water Research</i> , 2015, 68, 354-363.	5.3	43
74	Probing the Interaction between Nanoparticles and Lipid Membranes by Quartz Crystal Microbalance with Dissipation Monitoring. <i>Frontiers in Chemistry</i> , 2016, 4, 46.	1.8	43
75	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 & Technology</i> , 2011, 45, 8345-8351.	4.6	41
76	Mobility of nanosized cerium dioxide and polymeric capsules in quartz and loamy sands saturated with model and natural groundwaters. <i>Water Research</i> , 2013, 47, 5889-5900.	5.3	40
77	Alkaloids Modulate Motility, Biofilm Formation and Antibiotic Susceptibility of Uropathogenic <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2014, 9, e112093.	1.1	39
78	Investigating electrochemical removal of bacterial biofilms from stainless steel substrates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 117, 152-157.	2.5	39
79	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> , 2018, 523, 254-265.	5.0	37
80	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> , 2020, 12, 203-213.	1.0	36
81	Real-time microgravimetric quantification of <i>Cryptosporidium parvum</i> in the presence of potential interferents. <i>Water Research</i> , 2009, 43, 2631-2638.	5.3	35
82	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> , 2015, 136, 928-934.	2.5	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. <i>Environmental Science: Nano</i> , 2017, 4, 907-918.	2.2	35
84	Single- and Multi-Element Quantification and Characterization of TiO ₂ Nanoparticles Released From Outdoor Stains and Paints. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	33
85	Development and characterization of silver-doped sol-gel-derived borate glasses with anti-bacterial activity. <i>Journal of Non-Crystalline Solids</i> , 2019, 505, 438-446.	1.5	32
86	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. <i>Environmental Science: Nano</i> , 2020, 7, 13-36.	2.2	32
87	Application of a dual deposition mode model to evaluate transport of <i>Escherichia coli</i> D21 in porous media. <i>Water Resources Research</i> , 2006, 42, .	1.7	29
88	Optimal preparation and purification of PRD1-like bacteriophages for use in environmental fate and transport studies. <i>Water Research</i> , 2010, 44, 1114-1125.	5.3	29
89	Optimizing Bacteriophage Surface Densities for Bacterial Capture and Sensing in Quartz Crystal Microbalance with Dissipation Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13698-13706.	4.0	29
90	Toward More Free-Floating Model Cell Membranes: Method Development and Application to Their Interaction with Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14339-14348.	4.0	29

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91	Colloid and Microbe Migration in Granular Environments: A Discussion of Modelling Methods. , 2007, , 119-142.		28
92	Role of Cold Climate and Freeze–Thaw on the Survival, Transport, and Virulence of <i>Yersinia enterocolitica</i> . Environmental Science & Technology, 2013, 47, 14169-14177.	4.6	27
93	Transport, motility, biofilm forming potential and survival of <i>Bacillus subtilis</i> exposed to cold temperature and freeze–thaw. Water Research, 2014, 48, 239-247.	5.3	27
94	Antibacterial Properties of PLGA Electrospun Scaffolds Containing Ciprofloxacin Incorporated by Blending or Physisorption. ACS Applied Bio Materials, 2018, 1, 627-635.	2.3	27
95	Surface Wettability Is a Key Feature in the Mechano-Bactericidal Activity of Nanopillars. ACS Applied Materials & Interfaces, 2022, 14, 27564-27574.	4.0	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.	4.6	26
97	Release of TiO ₂ nanoparticles from painted surfaces in cold climates: characterization using a high sensitivity single-particle ICP-MS. Environmental Science: Nano, 2020, 7, 139-148.	2.2	26
98	Polystyrene micro- and nanoplastics affect locomotion and daily activity of <i>Drosophila melanogaster</i> . Environmental Science: Nano, 2021, 8, 110-121.	2.2	26
99	Direct Detection of the Gel–Fluid Phase Transition of a Single Supported Phospholipid Bilayer Using Quartz Crystal Microbalance with Dissipation Monitoring. Analytical Chemistry, 2014, 86, 8017-8020.	3.2	25
100	Microfluidic Shear Assay to Distinguish between Bacterial Adhesion and Attachment Strength on Stiffness-Tunable Silicone Substrates. Langmuir, 2019, 35, 8840-8849.	1.6	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.	2.2	24
102	Sustainable strategies to treat urban runoff needed. Nature Sustainability, 2022, 5, 366-369.	11.5	24
103	Pomegranate materials inhibit flagellin gene expression and flagellar-propelled motility of uropathogenic <i>Escherichia coli</i> strain CFT073. FEMS Microbiology Letters, 2012, 334, 87-94.	0.7	22
104	Perturbation of Host Cell Cytoskeleton by Cranberry Proanthocyanidins and Their Effect on Enteric Infections. PLoS ONE, 2011, 6, e27267.	1.1	22
105	Single-Particle Resolution Fluorescence Microscopy of Nanoplastics. Environmental Science & Technology, 2022, 56, 6426-6435.	4.6	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.	1.2	21
107	Cranberry impairs selected behaviors essential for virulence in <i>Proteus mirabilis</i> HI4320. Canadian Journal of Microbiology, 2013, 59, 430-436.	0.8	21
108	One-pot green synthesis of anisotropic silver nanoparticles. Environmental Science: Nano, 2016, 3, 1259-1264.	2.2	21

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109	Comparing TiO ₂ nanoparticle formulations: stability and photoreactivity are key factors in acute toxicity to <i>Daphnia magna</i> . <i>Environmental Science: Nano</i> , 2019, 6, 2532-2543.	2.2	21
110	Antimicrobial Hierarchically Porous Graphene Oxide Sponges for Water Treatment. <i>ACS Applied Bio Materials</i> , 2019, 2, 1578-1590.	2.3	21
111	Interpreting Deposition Behavior of Polydisperse Surface-Modified Nanoparticles Using QCM-D and Sand-Packed Columns. <i>Environmental Engineering Science</i> , 2014, 31, 326-337.	0.8	20
112	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> , 2019, 116, 25156-25161.	3.3	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. <i>Applied and Environmental Microbiology</i> , 2011, 77, 1532-1535.	1.4	19
114	Preparation and Thermo-Mechanical Characterization of Chitosan Loaded Methylcellulose-Based Biodegradable Films: Effects of Gamma Radiation. <i>Journal of Polymers and the Environment</i> , 2012, 20, 43-52.	2.4	19
115	Effect of Dissolved Oxygen on Two Bacterial Pathogens Examined using ATR-FTIR Spectroscopy, Microelectrophoresis, and Potentiometric Titration. <i>Environmental Science & Technology</i> , 2010, 44, 4136-4141.	4.6	18
116	Effects of Environmental and Clinical Interferents on the Host Capture Efficiency of Immobilized Bacteriophages. <i>Langmuir</i> , 2014, 30, 3184-3190.	1.6	18
117	Anodized Aluminum with Nanoholes Impregnated with Quaternary Ammonium Compounds Can Kill Pathogenic Bacteria within Seconds of Contact. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41207-41214.	4.0	18
118	Self-Assembly of Ultralarge Graphene Oxide Nanosheets and Alginate into Layered Nanocomposites for Robust Packaging Materials. <i>ACS Applied Nano Materials</i> , 2019, 2, 1431-1444.	2.4	17
119	Cranberry derived proanthocyanidins can prevent pathogen invasion of kidney epithelial cells. <i>Food Research International</i> , 2010, 43, 922-924.	2.9	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. <i>Environmental Science & Technology</i> , 2008, 42, 9178-9183.	4.6	14
122	Cranberry derivatives enhance biofilm formation and transiently impair swarming motility of the uropathogen <i>Proteus mirabilis</i> HI4320. <i>Canadian Journal of Microbiology</i> , 2016, 62, 464-474.	0.8	13
123	Polymer-Free Emulsion-Templated Graphene-Based Sponges for Contaminant Removal. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52095-52103.	4.0	13
124	Inhibition of bacterial motility and spreading via release of cranberry derived materials from silicone substrates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 275-280.	2.5	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. <i>Canadian Journal of Microbiology</i> , 2015, 61, 487-494.	0.8	12
126	Interaction between palladium-doped zerovalent iron nanoparticles and biofilm in granular porous media: characterization, transport and viability. <i>Environmental Science: Nano</i> , 2016, 3, 127-137.	2.2	12

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127	Natural freeze-thaw cycles may increase the risk associated with Salmonella contamination in surface and groundwater environments. <i>Water Research X</i> , 2018, 1, 100005.	2.8	12
128	Response to Comment on "Plastic Teabags Release Billions of Microparticles and Nanoparticles into Tea". <i>Environmental Science & Technology</i> , 2020, 54, 14136-14137.	4.6	12
129	Effect of freeze/thaw on aggregation and transport of nano-TiO ₂ in saturated porous media. <i>Environmental Science: Nano</i> , 2020, 7, 1781-1793.	2.2	12
130	Fate of microfibrils from single-use face masks: Release to the environment and removal during wastewater treatment. <i>Journal of Hazardous Materials</i> , 2022, 438, 129408.	6.5	12
131	Role of Cell Appendages in Initial Attachment and Stability of <i>E. coli</i> on Silica Monitored by Nondestructive TIRF Microscopy. <i>Langmuir</i> , 2017, 33, 4066-4075.	1.6	11
132	From freshwaters to bivalves: Microplastic distribution along the Saint-Lawrence river-to-sea continuum. <i>Journal of Hazardous Materials</i> , 2022, 435, 128977.	6.5	11
133	Reply to Comment on Breakdown of Colloid Filtration Theory: A Role of the Secondary Energy Minimum and Surface Charge Heterogeneities. <i>Langmuir</i> , 2005, 21, 10896-10897.	1.6	10
134	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> , 2022, 105, 1711-1722.	1.9	10
135	Evaluating the Binding of Selected Biomolecules to Cranberry Derived Proanthocyanidins Using the Quartz Crystal Microbalance. <i>Biomacromolecules</i> , 2014, 15, 1375-1381.	2.6	9
136	Engineering Polymer Forest on Membranes: Tuning Density, Thickness, and Architecture for Biofouling Control. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4592-4603.	2.0	9
137	Cranberry-Derived Proanthocyanidins Potentiate β -Lactam Antibiotics against Resistant Bacteria. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	9
138	Microfluidics in microbiology: putting a magnifying glass on microbes. <i>Integrative Biology (United States)</i> , 2016, 8, 107-116.	0.6	10
139	QCM-D and NanoTweezer measurements to characterize the effect of soil cellulase on the deposition of PEG-coated TiO ₂ nanoparticles in model subsurface environments. <i>Environmental Science: Nano</i> , 2018, 5, 2172-2183.	2.2	8
140	Sustainable iron-grafted cellulose fibers enable coagulant recycling and improve contaminant removal in water treatment. <i>Chemical Engineering Journal</i> , 2022, 430, 132927.	6.6	8
141	Super-bridging fibrous materials for water treatment. <i>Npj Clean Water</i> , 2022, 5, .	3.1	8
142	Impact of Media Aging on the Removal of <i>Cryptosporidium</i> in Granular Media Filters. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 603-611.	0.7	7
143	<i>Chlamydomonas reinhardtii</i> displays aversive swimming response to silver nanoparticles. <i>Environmental Science: Nano</i> , 2017, 4, 1328-1338.	2.2	7
144	Evaluating the Cell Membrane Penetration Potential of Lipid-Soluble Compounds Using Supported Phospholipid Bilayers. <i>Analytical Chemistry</i> , 2018, 90, 11174-11178.	3.2	7

#	ARTICLE	IF	CITATIONS
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