

# Nancy G Love

## List of Publications by Year in descending order

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91  
papers

4,345  
citations

117453

34  
h-index

128067

60  
g-index

93  
all docs

93  
docs citations

93  
times ranked

5330  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological Wastewater Treatment. , 0, , .		525
2	A New Planning and Design Paradigm to Achieve Sustainable Resource Recovery from Wastewater. Environmental Science & Technology, 2009, 43, 6126-6130.	4.6	412
3	Navigating Wastewater Energy Recovery Strategies: A Life Cycle Comparison of Anaerobic Membrane Bioreactor and Conventional Treatment Systems with Anaerobic Digestion. Environmental Science & Technology, 2014, 48, 5972-5981.	4.6	239
4	The role of extracellular polymeric substances in the toxicity response of activated sludge bacteria to chemical toxins. Water Research, 2007, 41, 4177-4185.	5.3	182
5	Nitrification in Drinking Water Systems. Critical Reviews in Environmental Science and Technology, 2009, 39, 153-208.	6.6	150
6	Enhanced Biodegradation of Carbamazepine after UV/H <sub>2</sub> O <sub>2</sub> Advanced Oxidation. Environmental Science & Technology, 2012, 46, 6222-6227.	4.6	141
7	The role of effluent nitrate in trace organic chemical oxidation during UV disinfection. Water Research, 2012, 46, 5224-5234.	5.3	134
8	Estrogen Receptor Agonist Fate during Wastewater and Biosolids Treatment Processes: A Mass Balance Analysis. Environmental Science & Technology, 2002, 36, 4533-4539.	4.6	128
9	Sorption of 17 $\beta$ -Estradiol and 17 $\alpha$ -Ethinylestradiol by Colloidal Organic Carbon Derived from Biological Wastewater Treatment Systems. Environmental Science & Technology, 2004, 38, 3322-3329.	4.6	122
10	A Vista for Microbial Ecology and Environmental Biotechnology. Environmental Science & Technology, 2006, 40, 1096-1103.	4.6	118
11	Prospects for Biological Nitrogen Removal from Anaerobic Effluents during Mainstream Wastewater Treatment. Environmental Science and Technology Letters, 2015, 2, 234-244.	3.9	105
12	Reactivity and chemical characterization of effluent organic nitrogen from wastewater treatment plants determined by Fourier transform ion cyclotron resonance mass spectrometry. Water Research, 2012, 46, 622-634.	5.3	97
13	Effluent Organic Nitrogen (EON): Bioavailability and Photochemical and Salinity-Mediated Release. Environmental Science & Technology, 2010, 44, 5830-5835.	4.6	73
14	Sulfide inhibition of nitrite oxidation in activated sludge depends on microbial community composition. Water Research, 2018, 138, 241-249.	5.3	69
15	Effect of redox conditions on pharmaceutical loss during biological wastewater treatment using sequencing batch reactors. Journal of Hazardous Materials, 2015, 282, 106-115.	6.5	67
16	Physiological State, Growth Mode, and Oxidative Stress Play a Role in Cd(II)-Mediated Inhibition of <i>Nitrosomonas europaea</i> 19718. Applied and Environmental Microbiology, 2008, 74, 2447-2453.	1.4	64
17	Impact of microbial physiology and microbial community structure on pharmaceutical fate driven by dissolved oxygen concentration in nitrifying bioreactors. Water Research, 2016, 104, 189-199.	5.3	64
18	Assessment of the Legionnaires' disease outbreak in Flint, Michigan. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1730-E1739.	3.3	64

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19	Quantifying the Urban Food-Energy-Water Nexus: The Case of the Detroit Metropolitan Area. <i>Environmental Science &amp; Technology</i> , 2019, 53, 779-788.	4.6	56
20	Life Cycle Comparison of Environmental Emissions from Three Disposal Options for Unused Pharmaceuticals. <i>Environmental Science &amp; Technology</i> , 2012, 46, 5535-5541.	4.6	54
21	Micropollutant Fate in Wastewater Treatment: Redefining "Removal". <i>Environmental Science &amp; Technology</i> , 2012, 46, 10485-10486.	4.6	53
22	Flame synthesis of carbon nanostructures on stainless steel anodes for use in microbial fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 5829-5834.	4.0	50
23	The effect of cationic salt addition on the settling and dewatering properties of an industrial activated sludge. <i>Water Environment Research</i> , 1998, 70, 984-996.	1.3	49
24	The impact of floc size on respiration inhibition by soluble toxicants—a comparative investigation. <i>Water Research</i> , 2005, 39, 2559-2568.	5.3	49
25	Autotrophic Nitrogen Removal in a Membrane-Aerated Biofilm Reactor Under Continuous Aeration: A Demonstration. <i>Environmental Engineering Science</i> , 2013, 30, 38-45.	0.8	48
26	Triclosan Promotes <i>Staphylococcus aureus</i> Nasal Colonization. <i>MBio</i> , 2014, 5, e01015.	1.8	48
27	A stability assessment tool for anaerobic codigestion. <i>Water Research</i> , 2017, 112, 19-28.	5.3	48
28	Transcriptome Analysis Reveals that Multidrug Efflux Genes Are Upregulated To Protect <i>Pseudomonas aeruginosa</i> from Pentachlorophenol Stress. <i>Applied and Environmental Microbiology</i> , 2007, 73, 4550-4558.	1.4	44
29	Guide for using green infrastructure in urban environments for stormwater management. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 643-659.	1.2	43
30	Life Cycle Assessment of Urine Diversion and Conversion to Fertilizer Products at the City Scale. <i>Environmental Science &amp; Technology</i> , 2021, 55, 593-603.	4.6	43
31	Urine Bacterial Community Convergence through Fertilizer Production: Storage, Pasteurization, and Struvite Precipitation. <i>Environmental Science &amp; Technology</i> , 2016, 50, 11619-11626.	4.6	42
32	Source Separation of Urine as an Alternative Solution to Nutrient Management in Biological Nutrient Removal Treatment Plants. <i>Water Environment Research</i> , 2015, 87, 2120-2129.	1.3	40
33	A GIS based national assessment of algal bio-oil production potential through flue gas and wastewater co-utilization. <i>Biomass and Bioenergy</i> , 2014, 63, 76-85.	2.9	39
34	Application of Metabolite Profiling Tools and Time-of-Flight Mass Spectrometry in the Identification of Transformation Products of Iopromide and Iopamidol during Advanced Oxidation. <i>Environmental Science &amp; Technology</i> , 2015, 49, 2983-2990.	4.6	39
35	Investigating a Mechanistic Cause for Activated-Sludge Deflocculation in Response to Shock Loads of Toxic Electrophilic Chemicals. <i>Water Environment Research</i> , 2002, 74, 306-315.	1.3	37
36	Prevalence of Infection-Competent Serogroup 6 <i>Legionella pneumophila</i> within Premise Plumbing in Southeast Michigan. <i>MBio</i> , 2018, 9, .	1.8	36

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37	Elucidating the impact of microbial community biodiversity on pharmaceutical biotransformation during wastewater treatment. <i>Microbial Biotechnology</i> , 2018, 11, 995-1007.	2.0	35
38	The immunochemical detection of stress proteins in activated sludge exposed to toxic chemicals. <i>Water Research</i> , 2001, 35, 91-100.	5.3	34
39	Chlorinated phenols control the expression of the multidrug resistance efflux pump MexAB-OprM in <i>Pseudomonas aeruginosa</i> by interacting with NalC. <i>Molecular Microbiology</i> , 2011, 79, 1547-1556.	1.2	34
40	Lumped Pathway Metabolic Model of Organic Carbon Accumulation and Mobilization by the Alga <i>Chlamydomonas reinhardtii</i> . <i>Environmental Science &amp; Technology</i> , 2013, 47, 3258-3267.	4.6	34
41	Consumers' Acceptance of Agricultural Fertilizers Derived from Diverted and Recycled Human Urine. <i>Environmental Science &amp; Technology</i> , 2020, 54, 5297-5305.	4.6	33
42	Metabolic Footprinting: A New Approach to Identify Physiological Changes in Complex Microbial Communities upon Exposure to Toxic Chemicals. <i>Environmental Science &amp; Technology</i> , 2007, 41, 3945-3951.	4.6	30
43	Perspectives on modelling micropollutants in wastewater treatment plants. <i>Water Science and Technology</i> , 2013, 68, 448-461.	1.2	30
44	Biodegradability of iopromide products after UV/H <sub>2</sub> O <sub>2</sub> advanced oxidation. <i>Chemosphere</i> , 2016, 144, 989-994.	4.2	30
45	Investigation of Sorption Behavior between Pyrene and Colloidal Organic Carbon from Activated Sludge Processes. <i>Environmental Science &amp; Technology</i> , 2004, 38, 4987-4994.	4.6	29
46	Application of rbcL based molecular diversity analysis to algae in wastewater treatment plants. <i>Bioresource Technology</i> , 2011, 102, 3619-3622.	4.8	29
47	Humidity and Deposition Solution Play a Critical Role in Virus Inactivation by Heat Treatment of N95 Respirators. <i>MSphere</i> , 2020, 5, .	1.3	28
48	Validation of N95 Filtering Facepiece Respirator Decontamination Methods Available at a Large University Hospital. <i>Open Forum Infectious Diseases</i> , 2021, 8, ofaa610.	0.4	26
49	The Bioavailability of Effluent-derived Organic Nitrogen along an Estuarine Salinity Gradient. <i>Estuaries and Coasts</i> , 2011, 34, 269-280.	1.0	23
50	The microbial colonization of activated carbon block point-of-use (PoU) filters with and without chlorinated phenol disinfection by-products. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 830-843.	1.2	23
51	Implicating the Glutathione-Gated Potassium Efflux System as a Cause of Electrophile-Induced Activated Sludge Deflocculation. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5569-5578.	1.4	22
52	Activated Sludge Inhibition by Chemical Stressors—A Comprehensive Study. <i>Water Environment Research</i> , 2007, 79, 940-951.	1.3	22
53	Method to Partition Between Attached and Unattached <i>E. coli</i> in Runoff From Agricultural Lands. <i>Journal of the American Water Resources Association</i> , 2008, 44, 1591-1599.	1.0	21
54	An automated toolchain for the data-driven and dynamical modeling of combined sewer systems. <i>Water Research</i> , 2017, 126, 88-100.	5.3	21

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55	Application of temperature gradient gel electrophoresis to the characterization of a nitrifying bioaugmentation product. <i>FEMS Microbiology Ecology</i> , 2003, 43, 277-286.	1.3	18
56	Fate of the Urinary Tract Virus BK Human Polyomavirus in Source-Separated Urine. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	18
57	Sulfide alters microbial functional potential in a methane and nitrogen cycling biofilm reactor. <i>Environmental Microbiology</i> , 2021, 23, 1481-1495.	1.8	15
58	Evaluation of a Filtration/Dispersion Method for Enumeration of Particle-associated <i>Escherichia coli</i> . <i>Journal of Environmental Quality</i> , 2009, 38, 980-986.	1.0	14
59	Optimizing extraction and analysis of pharmaceuticals in human urine, struvite, food crops, soil, and lysimeter water by liquid chromatography-tandem mass spectrometry. <i>Analytical Methods</i> , 2017, 9, 5952-5962.	1.3	14
60	Balancing water quality and flows in combined sewer systems using real-time control. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1357-1369.	1.2	14
61	Oxime Inhibition of Nitrification During Treatment of an Ammonia-Containing Industrial Wastewater. <i>Water Environment Research</i> , 1999, 71, 418-426.	1.3	12
62	Integrative Advanced Oxidation and Biofiltration for Treating Pharmaceuticals in Wastewater. <i>Water Environment Research</i> , 2016, 88, 1985-1993.	1.3	12
63	Oxygen Half-Saturation Constants for Pharmaceuticals in Activated Sludge and Microbial Community Activity under Varied Oxygen Levels. <i>Environmental Science &amp; Technology</i> , 2019, 53, 1918-1927.	4.6	11
64	Assessing membrane aerated biofilm reactor configurations in mainstream anammox applications. <i>Water Science and Technology</i> , 2022, 85, 943-960.	1.2	11
65	Biodegradation of a PAH Mixture by Native Subsurface Microbiota. <i>Bioremediation Journal</i> , 2002, 6, 9-24.	1.0	10
66	A Study of Glutathione-Gated Potassium Efflux in Biofilms Using Potassium Microelectrodes. <i>Environmental Engineering Science</i> , 2005, 22, 489-495.	0.8	10
67	Fate of Extracellular DNA in the Production of Fertilizers from Source-Separated Urine. <i>Environmental Science &amp; Technology</i> , 2020, 54, 1808-1815.	4.6	10
68	U.S.'s China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development. <i>Environmental Science &amp; Technology</i> , 2021, 55, 9622-9626.	4.6	10
69	Transforming Environmental Engineering and Science Education, Research, and Practice. <i>Environmental Engineering Science</i> , 2017, 34, 42-50.	0.8	9
70	Chlorinated phenol-induced physiological antibiotic resistance in <i>Pseudomonas aeruginosa</i> . <i>FEMS Microbiology Letters</i> , 2015, 362, fmv172.	0.7	8
71	Phenotypic variations in persistence and infectivity between and within environmentally transmitted pathogen populations impact population-level epidemic dynamics. <i>BMC Infectious Diseases</i> , 2019, 19, 449.	1.3	8
72	Sensor-mediated granular sludge reactor for nitrogen removal and reduced aeration demand using a dilute wastewater. <i>Water Environment Research</i> , 2020, 92, 1006-1016.	1.3	8

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73	Bacterial transmission and colonization in activated carbon block (ACB) point-of-use (PoU) filters. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1114-1124.	1.2	6
74	Advancing the Design and Operating Conditions for Block Freeze Concentration of Urine-Derived Fertilizer. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 446-455.	3.7	6
75	Evaluating tannery wastewater treatment performance based on physicochemical and microbiological characteristics: An Ethiopian case study. <i>Water Environment Research</i> , 2021, 93, 658-669.	1.3	5
76	Application of plasma for the removal of pharmaceuticals in synthetic urine. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 523-533.	1.2	5
77	Leveraging integrative research for inclusive innovation: urine diversion and re-use in agriculture. <i>Elementa</i> , 2020, 8, .	1.1	4
78	An Automated Toolchain for Camera-Enabled Sensing of Drinking Water Chlorine Residual. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 1697-1708.	3.7	4
79	Communicating the Risks and Benefits of Human Urine-Derived Fertilizer. <i>Sustainability</i> , 2020, 12, 9973.	1.6	3
80	Treatment of a Wastewater Containing Nitrification-Inhibiting Oximes Using a Single-Sludge Nitrogen Removal Treatment System. <i>Water Environment Research</i> , 1999, 71, 94-101.	1.3	2
81	University-utility partnerships: Best practices for water innovation and collaboration. <i>Water Environment Research</i> , 2020, 92, 314-319.	1.3	2
82	Nested risks and responsibilities: Perspectives on fertilizer from human urine in two U.S. regions. <i>Journal of Agriculture, Food Systems, and Community Development</i> , 0, , 1-22.	2.4	2
83	Author response to letter from Gomez et al.. <i>International Journal of Infectious Diseases</i> , 2020, 91, 268-269.	1.5	1
84	Launch of ACS ES&T Engineering and Redefining Environmental Engineering. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 1-2.	3.7	1
85	Increasing accuracy of field-scale studies to investigate plant uptake and soil dissipation of pharmaceuticals. <i>Analytical Methods</i> , 2021, 13, 3077-3085.	1.3	1
86	Nutrient Removal from Mainstream Anaerobic Processes using a Membrane Biofilm Reactor and a Granular Sludge Sequencing Batch Reactor. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 1266-1273.	0.0	1
87	Introducing the Inaugural Editorial Board of ACS ES&T Engineering. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 154-156.	3.7	0
88	Impact of Low Dissolved Oxygen and Microbial Community on Pharmaceutical Biotransformations during Wastewater Treatment. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 5470-5476.	0.0	0
89	Effect of alum addition on the performance of submerged membranes for wastewater treatment. <i>Water Environment Research</i> , 2004, 76, 2699-702.	1.3	0
90	<sc>Point-of-use</sc> carbon block drinking water filters change gut microbiome of larval zebrafish. <i>Environmental Microbiology Reports</i> , 2022, , .	1.0	0

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91	Improved Decision-Making: A Sociotechnical Utility-Based Framework for Drinking Water Investment. ACS ES&T Engineering, 2022, 2, 1475-1490.	3.7	0