Nancy G Love

List of Publications by Citations

85	3,146	31	54
papers	citations	h-index	g-index
93	3,604	6.7	5.35
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
85	A new planning and design paradigm to achieve sustainable resource recovery from wastewater. *Environmental Science & Technology*, **2009**, 43, 6126-30	10.3	335
84	Biological Wastewater Treatment		202
83	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, 5972-81	10.3	180
82	The role of extracellular polymeric substances in the toxicity response of activated sludge bacteria to chemical toxins. *Water Research*, **2007**, 41, 4177-85	12.5	157
81	Enhanced biodegradation of carbamazepine after UV/H2O2 advanced oxidation. *Environmental Science & Technology*, **2012**, 46, 6222-7	10.3	118
80	Nitrification in Drinking Water Systems. *Critical Reviews in Environmental Science and Technology*, **2009**, 39, 153-208	11.1	115
79	Estrogen receptor agonist fate during wastewater and biosolids treatment processes: a mass balance analysis. *Environmental Science & Technology*, **2002**, 36, 4533-9	10.3	114
78	Sorption of 17beta-estradiol and 17alpha-ethinylestradiol by colloidal organic carbon derived from biological wastewater treatment systems. *Environmental Science & Technology*, **2004**, 38, 3322-9	10.3	107
77	The role of effluent nitrate in trace organic chemical oxidation during UV disinfection. *Water Research*, **2012**, 46, 5224-34	12.5	104
76	A vista for microbial ecology and environmental biotechnology. *Environmental Science & Technology*, **2006**, 40, 1096-103	10.3	103
75	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, 622-34	12.5	82
74	Prospects for Biological Nitrogen Removal from Anaerobic Effluents during Mainstream Wastewater Treatment. *Environmental Science and Technology Letters*, **2015**, 2, 234-244	11	77
73	Effluent organic nitrogen (EON): bioavailability and photochemical and salinity-mediated release. *Environmental Science & Technology*, **2010**, 44, 5830-5	10.3	58
72	Physiological state, growth mode, and oxidative stress play a role in Cd(II)-mediated inhibition of Nitrosomonas europaea 19718. *Applied and Environmental Microbiology*, **2008**, 74, 2447-53	4.8	52
71	Assessment of the LegionnairesTdisease outbreak in Flint, Michigan. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E1730-E1739	11.5	49
70	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	12.5	48
69	Effect of redox conditions on pharmaceutical loss during biological wastewater treatment using sequencing batch reactors. *Journal of Hazardous Materials*, **2015**, 282, 106-15	12.8	46

68	Micropollutant fate in wastewater treatment: redefining "removal". *Environmental Science & Technology*, **2012**, 46, 10485-6	10.3	46
67	Sulfide inhibition of nitrite oxidation in activated sludge depends on microbial community composition. *Water Research*, **2018**, 138, 241-249	12.5	45
66	The impact of floc size on respiration inhibition by soluble toxicants--a comparative investigation. *Water Research*, **2005**, 39, 2559-68	12.5	45
65	Flame synthesis of carbon nanostructures on stainless steel anodes for use in microbial fuel cells. *Journal of Power Sources*, **2011**, 196, 5829-5834	8.9	43
64	Transcriptome analysis reveals that multidrug efflux genes are upregulated to protect Pseudomonas aeruginosa from pentachlorophenol stress. *Applied and Environmental Microbiology*, **2007**, 73, 4550-8	4.8	43
63	Life cycle comparison of environmental emissions from three disposal options for unused pharmaceuticals. *Environmental Science & Technology*, **2012**, 46, 5535-41	10.3	42
62	The effect of cationic salt addition on the settling and dewatering properties of an industrial activated sludge. *Water Environment Research*, **1998**, 70, 984-996	2.8	41
61	Triclosan promotes Staphylococcus aureus nasal colonization. *MBio*, **2014**, 5, e01015	7.8	38
60	Quantifying the Urban Food-Energy-Water Nexus: The Case of the Detroit Metropolitan Area. *Environmental Science & Technology*, **2019**, 53, 779-788	10.3	37
59	A stability assessment tool for anaerobic codigestion. *Water Research*, **2017**, 112, 19-28	12.5	36
58	Autotrophic Nitrogen Removal in a Membrane-Aerated Biofilm Reactor Under Continuous Aeration: A Demonstration. *Environmental Engineering Science*, **2013**, 30, 38-45	2	35
57	A GIS based national assessment of algal bio-oil production potential through flue gas and wastewater co-utilization. *Biomass and Bioenergy*, **2014**, 63, 76-85	5.3	34
56	Application of metabolite profiling tools and time-of-flight mass spectrometry in the identification of transformation products of iopromide and iopamidol during advanced oxidation. *Environmental Science & Technology*, **2015**, 49, 2983-90	10.3	33
55	The immunochemical detection of stress proteins in activated sludge exposed to toxic chemicals. *Water Research*, **2001**, 35, 91-100	12.5	32
54	Metabolic footprinting: a new approach to identify physiological changes in complex microbial communities upon exposure to toxic chemicals. *Environmental Science & Technology*, **2007**, 41, 3945-51	10.3	30
53	Chlorinated phenols control the expression of the multidrug resistance efflux pump MexAB-OprM in Pseudomonas aeruginosa by interacting with NalC. *Molecular Microbiology*, **2011**, 79, 1547-56	4.1	29
52	Source Separation of Urine as an Alternative Solution to Nutrient Management in Biological Nutrient Removal Treatment Plants. *Water Environment Research*, **2015**, 87, 2120-9	2.8	28
51	Lumped pathway metabolic model of organic carbon accumulation and mobilization by the alga Chlamydomonas reinhardtii. *Environmental Science & Technology*, **2013**, 47, 3258-67	10.3	28

50	Investigating a mechanistic cause for activated-sludge deflocculation in response to shock loads of toxic electrophilic chemicals. *Water Environment Research*, **2002**, 74, 306-15	2.8	27
49	Perspectives on modelling micropollutants in wastewater treatment plants. *Water Science and Technology*, **2013**, 68, 448-61	2.2	26
48	Application of rbcL based molecular diversity analysis to algae in wastewater treatment plants. *Bioresource Technology*, **2011**, 102, 3619-22	11	26
47	Investigation of sorption behavior between pyrene and colloidal organic carbon from activated sludge processes. *Environmental Science & Technology*, **2004**, 38, 4987-94	10.3	26
46	Urine Bacterial Community Convergence through Fertilizer Production: Storage, Pasteurization, and Struvite Precipitation. *Environmental Science & Technology*, **2016**, 50, 11619-11626	10.3	26
45	Biodegradability of iopromide products after UV/H□□advanced oxidation. *Chemosphere*, **2016**, 144, 989-94	8.4	24
44	Guide for using green infrastructure in urban environments for stormwater management. *Environmental Science: Water Research and Technology*, **2019**, 5, 643-659	4.2	22
43	The Bioavailability of Effluent-derived Organic Nitrogen along an Estuarine Salinity Gradient. *Estuaries and Coasts*, **2011**, 34, 269-280	2.8	21
42	Elucidating the impact of microbial community biodiversity on pharmaceutical biotransformation during wastewater treatment. *Microbial Biotechnology*, **2018**, 11, 995-1007	6.3	21
41	Implicating the glutathione-gated potassium efflux system as a cause of electrophile-induced activated sludge deflocculation. *Applied and Environmental Microbiology*, **2004**, 70, 5569-78	4.8	19
40	Activated sludge inhibition by chemical stressors--a comprehensive study. *Water Environment Research*, **2007**, 79, 940-51	2.8	17
39	Method to Partition Between Attached and Unattached E. coli in Runoff From Agricultural Lands1. *Journal of the American Water Resources Association*, **2008**, 44, 1591-1599	2.1	16
38	Humidity and Deposition Solution Play a Critical Role in Virus Inactivation by Heat Treatment of N95 Respirators. *MSphere*, **2020**, 5,	5	16
37	ConsumersTAcceptance of Agricultural Fertilizers Derived from Diverted and Recycled Human Urine. *Environmental Science & Technology*, **2020**, 54, 5297-5305	10.3	15
36	Life Cycle Assessment of Urine Diversion and Conversion to Fertilizer Products at the City Scale. *Environmental Science & Technology*, **2021**, 55, 593-603	10.3	15
35	Application of temperature gradient gel electrophoresis to the characterization of a nitrifying bioaugmentation product. *FEMS Microbiology Ecology*, **2003**, 43, 277-86	4.3	14
34	Validation of N95 Filtering Facepiece Respirator Decontamination Methods Available at a Large University Hospital. *Open Forum Infectious Diseases*, **2021**, 8, ofaa610	1	14
33	Prevalence of Infection-Competent Serogroup 6 within Premise Plumbing in Southeast Michigan. *MBio*, **2018**, 9,	7.8	13

32	Fate of the Urinary Tract Virus BK Human Polyomavirus in Source-Separated Urine. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	13
31	An automated toolchain for the data-driven and dynamical modeling of combined sewer systems. *Water Research*, **2017**, 126, 88-100	12.5	13
30	Evaluation of a filtration/dispersion method for enumeration of particle-associated Escherichia coli. *Journal of Environmental Quality*, **2009**, 38, 980-6	3.4	12
29	Optimizing extraction and analysis of pharmaceuticals in human urine, struvite, food crops, soil, and lysimeter water by liquid chromatography-tandem mass spectrometry. *Analytical Methods*, **2017**, 9, 5952-5962	3.2	11
28	The microbial colonization of activated carbon block point-of-use (PoU) filters with and without chlorinated phenol disinfection by-products. *Environmental Science: Water Research and Technology* , **2017**, 3, 830-843	4.2	11
27	Integrative Advanced Oxidation and Biofiltration for Treating Pharmaceuticals in Wastewater. *Water Environment Research*, **2016**, 88, 1985-1993	2.8	11
26	Validation of N95 filtering facepiece respirator decontamination methods available at a large university hospital		10
25	Oxygen Half-Saturation Constants for Pharmaceuticals in Activated Sludge and Microbial Community Activity under Varied Oxygen Levels. *Environmental Science & Technology*, **2019**, 53, 1918-1927	10.3	9
24	Transforming Environmental Engineering and Science Education, Research, and Practice. *Environmental Engineering Science*, **2017**, 34, 42-50	2	8
23	Balancing water quality and flows in combined sewer systems using real-time control. *Environmental Science: Water Research and Technology*, **2020**, 6, 1357-1369	4.2	8
22	Biodegradation of a PAH Mixture by Native Subsurface Microbiota. *Bioremediation Journal*, **2002**, 6, 9-24	2.3	8
21	Oxime Inhibition of Nitrification During Treatment of an Ammonia-Containing Industrial Wastewater. *Water Environment Research*, **1999**, 71, 418-426	2.8	8
20	Sensor-mediated granular sludge reactor for nitrogen removal and reduced aeration demand using a dilute wastewater. *Water Environment Research*, **2020**, 92, 1006-1016	2.8	7
19	A Study of Glutathione-Gated Potassium Efflux in Biofilms Using Potassium Microelectrodes. *Environmental Engineering Science*, **2005**, 22, 489-495	2	7
18	Chlorinated phenol-induced physiological antibiotic resistance in Pseudomonas aeruginosa. *FEMS Microbiology Letters*, **2015**, 362,	2.9	6
17	Fate of Extracellular DNA in the Production of Fertilizers from Source-Separated Urine. *Environmental Science & Technology*, **2020**, 54, 1808-1815	10.3	5
16	Sulfide alters microbial functional potential in a methane and nitrogen cycling biofilm reactor. *Environmental Microbiology*, **2021**, 23, 1481-1495	5.2	5
15	Phenotypic variations in persistence and infectivity between and within environmentally transmitted pathogen populations impact population-level epidemic dynamics. *BMC Infectious Diseases*, **2019**, 19, 449	4	3

14	Humidity and deposition solution play a critical role in virus inactivation by heat treatment on N95 respirators		3
13	Assessing membrane aerated biofilm reactor configurations in mainstream anammox applications.. *Water Science and Technology*, **2022**, 85, 943-960	2.2	2
12	Advancing the Design and Operating Conditions for Block Freeze Concentration of Urine-Derived Fertilizer. *ACS ES&T Engineering*,		2
11	University-utility partnerships: Best practices for water innovation and collaboration. *Water Environment Research*, **2020**, 92, 314-319	2.8	2
10	U.S.-China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development. *Environmental Science & Technology*, **2021**, 55, 9622-9626	10.3	2
9	Evaluating tannery wastewater treatment performance based on physicochemical and microbiological characteristics: An Ethiopian case study. *Water Environment Research*, **2021**, 93, 658-669	2.8	2
8	Bacterial transmission and colonization in activated carbon block (ACB) point-of-use (PoU) filters. *Environmental Science: Water Research and Technology*,	4.2	2
7	Leveraging integrative research for inclusive innovation: urine diversion and re-use in agriculture. *Elementa*, **2020**, 8,	3.6	1
6	Nutrient Removal from Mainstream Anaerobic Processes using a Membrane Biofilm Reactor and a Granular Sludge Sequencing Batch Reactor. *Proceedings of the Water Environment Federation*, **2015**, 2015, 1266-1273		1
5	Author response to letter from Gomez et al. *International Journal of Infectious Diseases*, **2020**, 91, 268-269	10.5	1
4	Nested risks and responsibilities: Perspectives on fertilizer from human urine in two U.S. regions. *Journal of Agriculture, Food Systems, and Community Development*,1-22	2.4	1
3	Communicating the Risks and Benefits of Human Urine-Derived Fertilizer. *Sustainability*, **2020**, 12, 9973	3.6	0
2	Increasing accuracy of field-scale studies to investigate plant uptake and soil dissipation of pharmaceuticals. *Analytical Methods*, **2021**, 13, 3077-3085	3.2	
1	Effect of alum addition on the performance of submerged membranes for wastewater treatment. *Water Environment Research*, **2004**, 76, 2699-702	2.8	