

# Paige J Novak

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

2,149  
citations

201385

27  
h-index

233125

45  
g-index

86  
all docs

86  
docs citations

86  
times ranked

3100  
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural Niche for Organohalide-Respiring Chloroflexi. <i>Applied and Environmental Microbiology</i> , 2012, 78, 393-401.	1.4	172
2	Effect of Protein, Polysaccharide, and Oxygen Concentration Profiles on Biofilm Cohesiveness. <i>Applied and Environmental Microbiology</i> , 2007, 73, 2905-2910.	1.4	150
3	Sources and transport of contaminants of emerging concern: A two-year study of occurrence and spatiotemporal variation in a mixed land use watershed. <i>Science of the Total Environment</i> , 2016, 551-552, 605-613.	3.9	134
4	Root Exudate Enhanced Contaminant Desorption: An Abiotic Contribution to the Rhizosphere Effect. <i>Environmental Science &amp; Technology</i> , 2013, 47, 11545-11553.	4.6	124
5	Biofilm Cohesiveness Measurement Using a Novel Atomic Force Microscopy Methodology. <i>Applied and Environmental Microbiology</i> , 2007, 73, 2897-2904.	1.4	119
6	Sediment-water distribution of contaminants of emerging concern in a mixed use watershed. <i>Science of the Total Environment</i> , 2015, 505, 896-904.	3.9	74
7	Partitioning and Accumulation of Perfluoroalkyl Substances in Model Lipid Bilayers and Bacteria. <i>Environmental Science &amp; Technology</i> , 2018, 52, 10433-10440.	4.6	74
8	The Impacts of Triclosan on Anaerobic Community Structures, Function, and Antimicrobial Resistance. <i>Environmental Science &amp; Technology</i> , 2014, 48, 7393-7400.	4.6	67
9	Contaminants of Emerging Concern: Mass Balance and Comparison of Wastewater Effluent and Upstream Sources in a Mixed-Use Watershed. <i>Environmental Science &amp; Technology</i> , 2016, 50, 36-45.	4.6	67
10	Stimulating hydrogenotrophic denitrification in simulated groundwater containing high dissolved oxygen and nitrate concentrations. <i>Water Research</i> , 2007, 41, 1869-1876.	5.3	65
11	The role of biodegradation in limiting the accumulation of petroleum hydrocarbons in raingarden soils. <i>Water Research</i> , 2012, 46, 6753-6762.	5.3	65
12	The reductive dechlorination of 2,3,4,5-tetrachlorobiphenyl in three different sediment cultures: evidence for the involvement of phylogenetically similar Dehalococcoides-like bacterial populations. <i>FEMS Microbiology Ecology</i> , 2006, 55, 248-261.	1.3	64
13	Considerations for reducing food system energy demand while scaling up urban agriculture. <i>Environmental Research Letters</i> , 2017, 12, 125004.	2.2	63
14	Fate of Naphthalene in Laboratory-Scale Bioretention Cells: Implications for Sustainable Stormwater Management. <i>Environmental Science &amp; Technology</i> , 2012, 46, 995-1002.	4.6	58
15	Impact of Organic Carbon on the Biodegradation of Estrone in Mixed Culture Systems. <i>Environmental Science &amp; Technology</i> , 2013, 47, 12359-12365.	4.6	38
16	Phytoestrogens in the environment, I: Occurrence and exposure effects on fathead minnows. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 553-559.	2.2	38
17	Enrichment of anaerobic polychlorinated biphenyl dechlorinators from sediment with iron as a hydrogen source. <i>Water Research</i> , 2005, 39, 569-578.	5.3	35
18	Quantification of Phytoestrogens in Industrial Waste Streams. <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 2318-2323.	2.2	35

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19	Perfluoroalkyl Substances Increase the Membrane Permeability and Quorum Sensing Response in <i>Aliivibrio fischeri</i> . <i>Environmental Science and Technology Letters</i> , 2018, 5, 26-31.	3.9	34
20	Effects of Ethanol-Based Fuel Contamination: Microbial Community Changes, Production of Regulated Compounds, and Methane Generation. <i>Environmental Science &amp; Technology</i> , 2010, 44, 4525-4530.	4.6	33
21	The effect of thermal hydrolysis pretreatment on the anaerobic degradation of nonylphenol and short-chain nonylphenol ethoxylates in digested biosolids. <i>Water Research</i> , 2012, 46, 2937-2946.	5.3	32
22	Novel Microbial Assemblages Dominate Weathered Sulfide-Bearing Rock from Copper-Nickel Deposits in the Duluth Complex, Minnesota, USA. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	32
23	Enhancing polychlorinated biphenyl dechlorination in fresh water sediment with biostimulation and bioaugmentation. <i>Chemosphere</i> , 2008, 71, 176-182.	4.2	31
24	Identifying sources of emerging organic contaminants in a mixed use watershed using principal components analysis. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 2390-2399.	1.7	31
25	Removal of chlorinated organic compounds during wastewater treatment: achievements and limits. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 6233-6242.	1.7	31
26	On the Need for a National (U.S.) Research Program to Elucidate the Potential Risks to Human Health and the Environment Posed by Contaminants of Emerging Concern. <i>Environmental Science &amp; Technology</i> , 2011, 45, 3829-3830.	4.6	28
27	Abundance and diversity of organohalide-respiring bacteria in lake sediments across a geographical sulfur gradient. <i>FEMS Microbiology Ecology</i> , 2013, 84, 248-258.	1.3	28
28	Estrone Degradation: Does Organic Matter (Quality), Matter?. <i>Environmental Science &amp; Technology</i> , 2015, 49, 498-503.	4.6	26
29	Dissolved oxygen concentrations affect the function but not the relative abundance of nitrifying bacterial populations in full-scale municipal wastewater treatment bioreactors during cold weather. <i>Science of the Total Environment</i> , 2021, 781, 146719.	3.9	26
30	The effect of varying levels of sodium bicarbonate on polychlorinated biphenyl dechlorination in Hudson River sediment cultures. <i>Environmental Microbiology</i> , 2006, 8, 1288-1298.	1.8	25
31	Novel Firmicutes Group Implicated in the Dechlorination of Two Chlorinated Xanthenes, Analogues of Natural Organochlorines. <i>Applied and Environmental Microbiology</i> , 2014, 80, 1210-1218.	1.4	22
32	Photodegradation of pharmaceutical compounds in partially nitrated wastewater during UV irradiation. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 897-909.	1.2	21
33	Presence, Diversity, and Enrichment of Respiratory Reductive Dehalogenase and Non-respiratory Hydrolytic and Oxidative Dehalogenase Genes in Terrestrial Environments. <i>Frontiers in Microbiology</i> , 2019, 10, 1258.	1.5	20
34	Investigation of cell exudates active in carbon tetrachloride and chloroform degradation. <i>Biotechnology and Bioengineering</i> , 2001, 74, 12-17.	1.7	19
35	A comparison of total maximum daily load (TMDL) calculations in urban streams using near real-time and periodic sampling data. <i>Journal of Environmental Monitoring</i> , 2010, 12, 234-241.	2.1	19
36	Correlations between in situ sensor measurements and trace organic pollutants in urban streams. <i>Journal of Environmental Monitoring</i> , 2010, 12, 225-233.	2.1	18

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37	Kinetics of alachlor transformation and identification of metabolites under anaerobic conditions. <i>Water Research</i> , 1997, 31, 3107-3115.	5.3	16
38	Comparison of pulsed and continuous addition of H <sub>2</sub> gas via membranes for stimulating PCE biodegradation in soil columns. <i>Water Research</i> , 2006, 40, 1155-1166.	5.3	15
39	Zone of influence of a gas permeable membrane system for delivery of gases to groundwater. <i>Water Resources Research</i> , 2005, 41, .	1.7	14
40	Stimulating In Situ Hydrogenotrophic Denitrification with Membrane-Delivered Hydrogen under Passive and Pumped Groundwater Conditions. <i>Journal of Environmental Engineering, ASCE</i> , 2009, 135, 666-676.	0.7	14
41	Effects of various environmental conditions on the transformation of chlorinated solvents by <i>Methanosarcina thermophila</i> cell exudates. <i>Biotechnology and Bioengineering</i> , 2001, 75, 634-641.	1.7	13
42	Novel application of oxygen-transferring membranes to improve anaerobic wastewater treatment. <i>Biotechnology and Bioengineering</i> , 2005, 89, 373-380.	1.7	13
43	The Impact of Sediment Characteristics on Polychlorinated Biphenyls: Dechlorinating Cultures: Implications for Bioaugmentation. <i>Bioremediation Journal</i> , 2006, 10, 143-151.	1.0	11
44	Discovering Flow Anomalies: A SWEET Approach. , 2008, , .		11
45	Achieving high-rate hydrogen recovery from wastewater using customizable alginate polymer gel matrices encapsulating biomass. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1867-1876.	1.2	11
46	Aqueous film forming foam and associated perfluoroalkyl substances inhibit methane production and Co-contaminant degradation in an anaerobic microbial community. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1915-1925.	1.7	11
47	Enhanced Nitrogen Removal and Anammox Bacteria Retention with Zeolite-Coated Membrane in Simulated Mainstream Wastewater. <i>Environmental Science and Technology Letters</i> , 2021, 8, 468-473.	3.9	11
48	Encapsulating microorganisms to enhance biological nitrogen removal in wastewater: recent advancements and future opportunities. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 1402-1416.	1.2	10
49	Contaminants of Emerging Concern in the Lower Volta River, Ghana, West Africa: The Agriculture, Aquaculture, and Urban Development Nexus. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 369-381.	2.2	9
50	Performance of a composite bioactive membrane for H <sub>2</sub> production and capture from high strength wastewater. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 848-857.	1.2	8
51	Effects of encapsulation on the chemical inhibition of anaerobic hydrogen- and methane-producing microbial cells. <i>Bioresource Technology Reports</i> , 2020, 11, 100451.	1.5	8
52	Phytoestrogens in the environment, II: Microbiological degradation of phytoestrogens and the response of fathead minnows to degrade exposure. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 560-566.	2.2	6
53	Estrone biodegradation in laboratory-scale systems designed for total nitrogen removal from wastewater. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 1051-1060.	1.2	6
54	Encapsulation technology to improve biological resource recovery: recent advancements and research opportunities. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 16-23.	1.2	6

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55	Innovation Promoted by Regulatory Flexibility. <i>Environmental Science &amp; Technology</i> , 2015, 49, 13908-13909.	4.6	5
56	Modeling alginate encapsulation system for biological hydrogen production. <i>Biotechnology and Bioengineering</i> , 2019, 116, 3189-3199.	1.7	4
57	Porous Polyethylene-Supported Zeolite Carriers for Improved Wastewater Deammonification. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 1104-1112.	3.7	4
58	Encapsulation technology for decentralized brewery wastewater treatment: A small pilot experiment. <i>Bioresource Technology</i> , 2022, 347, 126435.	4.8	4
59	Structure and Function of Assemblages of <i>Bacteria</i> and <i>Archaea</i> in Model Anaerobic Aquifer Columns: Can Functional Instability Be Practically Beneficial?. <i>Environmental Science &amp; Technology</i> , 2012, 46, 10137-10144.	4.6	3
60	The Effect of Perfluorooctane Sulfonate, Exposure Time, and Chemical Mixtures on Methanogenic Community Structure and Function. <i>Microbiology Insights</i> , 2015, 8s2, MBI.S31345.	0.9	3
61	The potential for bacteria from carbon-limited deep terrestrial environments to participate in chlorine cycling. <i>FEMS Microbiology Ecology</i> , 2022, 98, .	1.3	3
62	Geomembranes Containing Powdered Activated Carbon Have the Potential to Improve Containment of Chlorinated Aromatic Contaminants. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8916-8922.	4.6	2
63	Effects of estrone and organic carbon exposure on the transformation of estrone. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 457-464.	1.2	2
64	Rapid Enrichment of Dehalococcoides-Like Bacteria by Partial Hydrophobic Separation. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	2
65	Offering authors a choice: introduction of optional double-blind peer review. <i>Environmental Science: Nano</i> , 2020, 7, 11-12.	2.2	2
66	Unraveling encapsulated growth of <i>Nitrosomonas europaea</i> in alginate: An experimental and modeling study. <i>Water Research</i> , 2022, 208, 117857.	5.3	2
67	2019 Best Papers published in the Environmental Science journals of the Royal Society of Chemistry. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 860-862.	1.7	1
68	Anaerobic technology. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1720-1720.	1.2	0
69	A journal with real impact: responsive, reliable, and thought-provoking. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 9-10.	1.2	0
70	Best Papers from 2018 in the <i>Environmental Science</i> family of journals: great science with a global reach. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 603-604.	1.7	0
71	Best Papers from 2018 in the Environmental Science family of journals: great science with a global reach. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 629-630.	1.2	0
72	Best Papers from 2018 in the Environmental Science family of journals: great science with a global reach. <i>Environmental Science: Nano</i> , 2019, 6, 1004-1005.	2.2	0

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73	Offering authors a choice: introduction of optional double-blind peer review. Environmental Sciences: Processes and Impacts, 2020, 22, 10-11.	1.7	0
74	Offering authors a choice: introduction of optional double-blind peer review. Environmental Science: Water Research and Technology, 2020, 6, 10-11.	1.2	0
75	Diverse dechlorinators and dechlorination genes enriched through amendment of chlorinated natural organic matter fractions. Environmental Sciences: Processes and Impacts, 2020, 22, 595-605.	1.7	0
76	2019 Best Papers published in the <i>Environmental Science</i> journals of the Royal Society of Chemistry. Environmental Science: Nano, 2020, 7, 1630-1632.	2.2	0
77	2019 Best Papers published in the <i>Environmental Science</i> journals of the Royal Society of Chemistry. Environmental Science: Water Research and Technology, 2020, 6, 1210-1212.	1.2	0
78	Best Papers from 2020 published in the Environmental Science journals of the Royal Society of Chemistry. Environmental Science: Nano, 2021, 8, 2411-2413.	2.2	0
79	Best papers from 2020 published in the Environmental Science journals of the Royal Society of Chemistry. Environmental Sciences: Processes and Impacts, 2021, 23, 1252-1254.	1.7	0
80	Best Papers from 2020 published in the <i>Environmental Science</i> journals of the Royal Society of Chemistry. Environmental Science: Water Research and Technology, 2021, 7, 1542-1544.	1.2	0
81	Performance of a composite bioactive membrane for enhanced BioH <sub>2</sub> production and capture from wastewater. Proceedings of the Water Environment Federation, 2015, 2015, 4412-4412.	0.0	0
82	Best Papers from 2021 published in the <i>Environmental Science</i> journals of the Royal Society of Chemistry. Environmental Science Atmospheres, 0, , .	0.9	0
83	Best Papers from 2021 published in the <i>Environmental Science</i> journals of the Royal Society of Chemistry. Environmental Science: Nano, 0, , .	2.2	0
84	Best Papers from 2021 published in the <i>Environmental Science</i> journals of the Royal Society of Chemistry. Environmental Science: Water Research and Technology, 0, , .	1.2	0
85	Best Papers from 2021 published in the <i>Environmental Science</i> journals of the Royal Society of Chemistry. Environmental Sciences: Processes and Impacts, 2022, 24, 848-850.	1.7	0