

Vinka Oyanedel-Craver

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,972
citations

331670

21
h-index

243625

44
g-index

52
all docs

52
docs citations

52
times ranked

2559
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the impact of testing conditions on the performance and quality control of locally manufactured, point-of-use ceramic water filters. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 510-522.	2.4	5
2	Assessing Flow Rate and Nominal Pore Diameter as Parameters for Predicting the Removal of Microorganisms by Ceramic Water Filters. <i>ACS ES&T Engineering</i> , 2021, 1, 543-550.	7.6	4
3	Representation justice as a research agenda for socio-hydrology and water governance. <i>Hydrological Sciences Journal</i> , 2021, 66, 1611-1624.	2.6	14
4	WTP for water filters and water quality testing services in Guatemala. <i>Water Resources and Economics</i> , 2020, 31, 100139.	2.2	8
5	Prediction of the Limiting Flux and Its Correlation with the Reynolds Number during the Microfiltration of Skim Milk Using an Improved Model. <i>Foods</i> , 2020, 9, 1621.	4.3	5
6	A Critical Review of Extraction and Identification Methods of Microplastics in Wastewater and Drinking Water. <i>Environmental Science & Technology</i> , 2020, 54, 7037-7049.	10.0	121
7	Development of Ceramic Water Filter Clay Selection Criteria. <i>Water (Switzerland)</i> , 2020, 12, 1657.	2.7	7
8	Performance of silver nanoparticle-impregnated ovoid ceramic water filters. <i>Environmental Science: Nano</i> , 2020, 7, 1772-1780.	4.3	15
9	Synthesis of silver nanoparticles using a modified Tollens's™ method in conjunction with phytochemicals and assessment of their antimicrobial activity. <i>PeerJ</i> , 2019, 7, e6413.	2.0	40
10	Pulse UV light effect on microbial biomolecules and organic pollutants degradation in aqueous solutions. <i>Chemosphere</i> , 2019, 216, 677-683.	8.2	9
11	Desalination using low biofouling nanocomposite membranes: From batch-scale to continuous-scale membrane fabrication. <i>Desalination</i> , 2019, 451, 81-91.	8.2	17
12	Bio-inspired immobilization of casein-coated silver nanoparticles on cellulose acetate membranes for biofouling control. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 2480-2491.	6.7	23
13	Contaminant Accumulation in Stormwater Retention and Detention Pond Sediments: Implications for Maintenance and Ecological Health. <i>ACS Symposium Series</i> , 2018, , 123-153.	0.5	2
14	Kinetic, metabolic and macromolecular response of bacteria to chronic nanoparticle exposure in continuous culture. <i>Environmental Science: Nano</i> , 2018, 5, 1386-1396.	4.3	25
15	Nanofiller Presence Enhances Polycyclic Aromatic Hydrocarbon (PAH) Profile on Nanoparticles Released during Thermal Decomposition of Nano-enabled Thermoplastics: Potential Environmental Health Implications. <i>Environmental Science & Technology</i> , 2017, 51, 5222-5232.	10.0	26
16	Women's Water Nexus for Sustainable Global Water Resources. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, 01817001.	2.6	3
17	Synergistic effects of engineered nanoparticles and organics released from laser printers using nano-enabled toners: potential health implications from exposures to the emitted organic aerosol. <i>Environmental Science: Nano</i> , 2017, 4, 2144-2156.	4.3	26
18	Understanding the microbiological, organic and inorganic contaminant removal capacity of ceramic water filters doped with different silver nanoparticles. <i>Environmental Science: Nano</i> , 2017, 4, 2348-2355.	4.3	21

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19	Polycyclic Aromatic Hydrocarbon Contamination in Soils of San Mateo Ixtat'ñ, Guatemala: Occurrence, Sources, and Health Risk Assessment. <i>Journal of Environmental Quality</i> , 2016, 45, 1635-1643.	2.0	7
20	Bacteria Removal from Stormwater Runoff Using Tree Filters: A Comparison of a Conventional and an Innovative System. <i>Water (Switzerland)</i> , 2016, 8, 76.	2.7	16
21	Fourier transform infrared spectroscopy to assess molecular-level changes in microorganisms exposed to nanoparticles. <i>Nanotechnology for Environmental Engineering</i> , 2016, 1, 1.	3.3	147
22	Comparative study between chemostat and batch reactors to quantify membrane permeability changes on bacteria exposed to silver nanoparticles. <i>Science of the Total Environment</i> , 2016, 565, 841-848.	8.0	34
23	Effects of dysprosium oxide nanoparticles on <i>Escherichia coli</i> . <i>Environmental Science: Nano</i> , 2016, 3, 67-73.	4.3	16
24	New Antimicrobially Amended Media for Improved Nonpoint Source Bacterial Pollution Treatment. <i>Environmental Science & Technology</i> , 2015, 49, 14383-14391.	10.0	14
25	Comparison of Three Household Water Treatment Technologies in San Mateo Ixtat'ñ, Guatemala. <i>Journal of Environmental Engineering, ASCE</i> , 2015, 141, .	1.4	12
26	Ceramic water filters impregnated with silver nanoparticles as a point-of-use water-treatment intervention for HIV-positive individuals in Limpopo Province, South Africa: a pilot study of technological performance and human health benefits. <i>Journal of Water and Health</i> , 2014, 12, 288-300.	2.6	57
27	Enhanced containment of polycyclic aromatic hydrocarbons through organic modification of soils. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 47-54.	2.3	7
28	Enhancement of Surface Runoff Quality Using Modified Sorbents. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1609-1615.	6.7	13
29	Effect of local materials on the silver sorption and strength of ceramic water filters. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 841-848.	6.7	20
30	Disinfection action of electrostatic versus steric-stabilized silver nanoparticles on <i>E. coli</i> under different water chemistries. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 77-84.	5.0	34
31	Laboratory Investigation into the Effect of Silver Application on the Bacterial Removal Efficacy of Filter Material for Use on Locally Produced Ceramic Water Filters for Household Drinking Water Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 737-745.	6.7	53
32	Comparison of the bacterial removal performance of silver nanoparticles and a polymer based quaternary amine functionalized silsesquioxane coated point-of-use ceramic water filters. <i>Journal of Hazardous Materials</i> , 2013, 260, 272-277.	12.4	59
33	Evaluation of the Disinfectant Performance of Silver Nanoparticles in Different Water Chemistry Conditions. <i>Journal of Environmental Engineering, ASCE</i> , 2012, 138, 58-66.	1.4	42
34	The effect of natural water conditions on the anti-bacterial performance and stability of silver nanoparticles capped with different polymers. <i>Water Research</i> , 2012, 46, 691-699.	11.3	161
35	Ceramic Filters Impregnated with Silver Nanoparticles for Point-of-Use Water Treatment in Rural Guatemala. <i>Journal of Environmental Engineering, ASCE</i> , 2011, 137, 407-415.	1.4	117
36	A Characterization of Bacterial Disinfection Kinetics Using Silver Nanoparticles. <i>Proceedings of the Water Environment Federation</i> , 2011, 2011, 84-91.	0.0	0

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37	Impact of Silver Nanoparticle Concentration and Size in Colloidal-Silver-Impregnated Ceramic Filters for Point-of-Use Removal of <i>E. coli</i> and MS-2 Phage. Proceedings of the Water Environment Federation, 2011, 2011, 72-79.	0.0	0
38	Ceramic Water Filters Impregnated with Silver Nanoparticles for Point-of-Use Water Treatment: Results of Field Studies in Guatemala and South Africa. , 2010, , .		0
39	Comparative Study between a Hybrid System and a Biofilm System for the Treatment of Ammonia and Organic Matter in Wastewaters. Journal of Environmental Engineering, ASCE, 2009, 135, 351-358.	1.4	5
40	Salt-water recycling for brine production at road-salt storage facilities. Environmental Progress and Sustainable Energy, 2009, 28, 565-575.	2.3	0
41	Field Evaluation of Locally Produced Silver-Impregnated Ceramic Filters for Point-Of-Use Water Purification in San Mateo Ixtatán, Guatemala. Proceedings of the Water Environment Federation, 2009, 2009, 19-30.	0.0	3
42	Sustainable Colloidal-Silver-Impregnated Ceramic Filter for Point-of-Use Water Treatment. Environmental Science & Technology, 2008, 42, 927-933.	10.0	330
43	Toward Understanding the Efficacy and Mechanism of <i>Opuntia</i> spp. as a Natural Coagulant for Potential Application in Water Treatment. Environmental Science & Technology, 2008, 42, 4274-4279.	10.0	222
44	Recycling of Salt-Contaminated Storm Water Runoff for Brine Production at Virginia Department of Transportation Road-Salt Storage Facilities. Transportation Research Record, 2008, 2055, 99-105.	1.9	7
45	Simultaneous sorption of benzene and heavy metals onto two organoclays. Journal of Colloid and Interface Science, 2007, 309, 485-492.	9.4	56
46	Effect of quaternary ammonium cation loading and pH on heavy metal sorption to Ca bentonite and two organobentonites. Journal of Hazardous Materials, 2006, 137, 1102-1114.	12.4	62
47	Development of a membrane-assisted hybrid bioreactor for ammonia and COD removal in wastewaters. Journal of Chemical Technology and Biotechnology, 2005, 80, 206-215.	3.2	10
48	An innovative biofilm-suspended biomass hybrid membrane bioreactor for wastewater treatment. Desalination, 2005, 179, 171-179.	8.2	57
49	Relative Metal Ion Sorption on Natural and Engineered Sorbents: Batch and Column Studies. Environmental Engineering Science, 2005, 22, 400-410.	1.6	31
50	Nitrite Accumulation in Activated Sludge and Airlift Reactors: Process Performance Comparison. Environmental Engineering Science, 2005, 22, 450-458.	1.6	8