Vinka Oyanedel-Craver

List of Publications by Year
in descending order

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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	Sustainable Colloidal-Silver-Impregnated Ceramic Filter for Point-of-Use Water Treatment. Environmental Science & Technology, 2008, 42, 927-933.	10.0	330
2	Toward Understanding the Efficacy and Mechanism of Opuntia spp. as a Natural Coagulant for Potential Application in Water Treatment. Environmental Science & Technology, 2008, 42, 4274-4279.	10.0	222
3	The effect of natural water conditions on the anti-bacterial performance and stability of silver nanoparticles capped with different polymers. Water Research, 2012, 46, 691-699.	11.3	161
4	Fourier transform infrared spectroscopy to assess molecular-level changes in microorganisms exposed to nanoparticles. Nanotechnology for Environmental Engineering, 2016, 1, 1.	3.3	147
5	A Critical Review of Extraction and Identification Methods of Microplastics in Wastewater and Drinking Water. Environmental Science & Technology, 2020, 54, 7037-7049.	10.0	121
6	Ceramic Filters Impregnated with Silver Nanoparticles for Point-of-Use Water Treatment in Rural Guatemala. Journal of Environmental Engineering, ASCE, 2011, 137, 407-415.	1.4	117
7	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
8	Comparison of the bacterial removal performance of silver nanoparticles and a polymer based quaternary amine functiaonalized silsesquioxane coated point-of-use ceramic water filters. Journal of Hazardous Materials, 2013, 260, 272-277.	12.4	59
9	An innovative biofilm-suspended biomass hybrid membrane bioreactor for wastewater treatment. Desalination, 2005, 179, 171-179.	8.2	57
10	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. Journal of Water and Health, 2014, 12, 288-300.	2.6	57
11	Simultaneous sorption of benzene and heavy metals onto two organoclays. Journal of Colloid and Interface Science, 2007, 309, 485-492.	9.4	56
12	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. ACS Sustainable Chemistry and Engineering, 2013, 1, 737-745.	6.7	53
13	Evaluation of the Disinfectant Performance of Silver Nanoparticles in Different Water Chemistry Conditions. Journal of Environmental Engineering, ASCE, 2012, 138, 58-66.	1.4	42
14	Synthesis of silver nanoparticles using a modified Tollensâ€™ method in conjunction with phytochemicals and assessment of their antimicrobial activity. PeerJ, 2019, 7, e6413.	2.0	40
15	Disinfection action of electrostatic versus steric-stabilized silver nanoparticles on E. coli under different water chemistries. Colloids and Surfaces B: Biointerfaces, 2014, 113, 77-84.	5.0	34
16	Comparative study between chemostat and batch reactors to quantify membrane permeability changes on bacteria exposed to silver nanoparticles. Science of the Total Environment, 2016, 565, 841-848.	8.0	34
17	Relative Metal Ion Sorption on Natural and Engineered Sorbents: Batch and Column Studies. Environmental Engineering Science, 2005, 22, 400-410.	1.6	31
18	Nanofiller Presence Enhances Polycyclic Aromatic Hydrocarbon (PAH) Profile on Nanoparticles Released during Thermal Decomposition of Nano-enabled Thermoplastics: Potential Environmental Health Implications. Environmental Science & Technology, 2017, 51, 5222-5232.	10.0	26

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19	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. Environmental Science: Nano, 2017, 4, 2144-2156.	4.3	26
20	Kinetic, metabolic and macromolecular response of bacteria to chronic nanoparticle exposure in continuous culture. Environmental Science: Nano, 2018, 5, 1386-1396.	4.3	25
21	Bio-inspired immobilization of casein-coated silver nanoparticles on cellulose acetate membranes for biofouling control. Journal of Environmental Chemical Engineering, 2018, 6, 2480-2491.	6.7	23
22	Understanding the microbiological, organic and inorganic contaminant removal capacity of ceramic water filters doped with different silver nanoparticles. Environmental Science: Nano, 2017, 4, 2348-2355.	4.3	21
23	Effect of local materials on the silver sorption and strength of ceramic water filters. Journal of Environmental Chemical Engineering, 2014, 2, 841-848.	6.7	20
24	Desalination using low biofouling nanocomposite membranes: From batch-scale to continuous-scale membrane fabrication. Desalination, 2019, 451, 81-91.	8.2	17
25	Bacteria Removal from Stormwater Runoff Using Tree Filters: A Comparison of a Conventional and an Innovative System. Water (Switzerland), 2016, 8, 76.	2.7	16
26	Effects of dysprosium oxide nanoparticles on Escherichia coli. Environmental Science: Nano, 2016, 3, 67-73.	4.3	16
27	Performance of silver nanoparticle-impregnated ovoid ceramic water filters. Environmental Science: Nano, 2020, 7, 1772-1780.	4.3	15
28	New Antimicrobially Amended Media for Improved Nonpoint Source Bacterial Pollution Treatment. Environmental Science & Technology, 2015, 49, 14383-14391.	10.0	14
29	Representation justice as a research agenda for socio-hydrology and water governance. Hydrological Sciences Journal, 2021, 66, 1611-1624.	2.6	14
30	Enhancement of Surface Runoff Quality Using Modified Sorbents. ACS Sustainable Chemistry and Engineering, 2014, 2, 1609-1615.	6.7	13
31	Comparison of Three Household Water Treatment Technologies in San Mateo IxtatÃ¡n, Guatemala. Journal of Environmental Engineering, ASCE, 2015, 141, .	1.4	12
32	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
33	Pulse UV light effect on microbial biomolecules and organic pollutants degradation in aqueous solutions. Chemosphere, 2019, 216, 677-683.	8.2	9
34	Nitrite Accumulation in Activated Sludge and Airlift Reactors: Process Performance Comparison. Environmental Engineering Science, 2005, 22, 450-458.	1.6	8
35	WTP for water filters and water quality testing services in Guatemala. Water Resources and Economics, 2020, 31, 100139.	2.2	8
36	Enhanced containment of polycyclic aromatic hydrocarbons through organic modification of soils. Environmental Progress and Sustainable Energy, 2014, 33, 47-54.	2.3	7

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37	Polycyclic Aromatic Hydrocarbon Contamination in Soils of San Mateo IxtatÃ¡n, Guatemala: Occurrence, Sources, and Health Risk Assessment. Journal of Environmental Quality, 2016, 45, 1635-1643.	2.0	7
38	Development of Ceramic Water Filter Clay Selection Criteria. Water (Switzerland), 2020, 12, 1657.	2.7	7
39	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
40	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
41	Prediction of the Limiting Flux and Its Correlation with the Reynolds Number during the Microfiltration of Skim Milk Using an Improved Model. Foods, 2020, 9, 1621.	4.3	5
42	A review of the impact of testing conditions on the performance and quality control of locally manufactured, point-of-use ceramic water filters. Environmental Science: Water Research and Technology, 2022, 8, 510-522.	2.4	5
43	Assessing Flow Rate and Nominal Pore Diameter as Parameters for Predicting the Removal of Microorganisms by Ceramic Water Filters. ACS ES&T Engineering, 2021, 1, 543-550.	7.6	4
44	Field Evaluation of Locally Produced Silver-Impregnated Ceramic Filters for Point-Of-Use Water Purification in San Mateo IxtatÃ¡n, Guatemala. Proceedings of the Water Environment Federation, 2009, 2009, 19-30.	0.0	3
45	Womenâ€“Water Nexus for Sustainable Global Water Resources. Journal of Water Resources Planning and Management - ASCE, 2017, 143, 01817001.	2.6	3
46	Contaminant Accumulation in Stormwater Retention and Detention Pond Sediments: Implications for Maintenance and Ecological Health. ACS Symposium Series, 2018, , 123-153.	0.5	2
47	Saltâ€water recycling for brine production at roadâ€saltâ€storage facilities. Environmental Progress and Sustainable Energy, 2009, 28, 565-575.	2.3	0
48	Ceramic Water Filters Impregnated with Silver Nanoparticles for Point-of-Use Water Treatment: Results of Field Studies in Guatemala and South Africa. , 2010, , .		0
49	A Characterization of Bacterial Disinfection Kinetics Using Silver Nanoparticles. Proceedings of the Water Environment Federation, 2011, 2011, 84-91.	0.0	0
50	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