

# Wesaal Khan

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

1,559  
citations

257450

24  
h-index

330143

37  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1630  
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimizing errors in RT-PCR detection and quantification of SARS-CoV-2 RNA for wastewater surveillance. <i>Science of the Total Environment</i> , 2022, 805, 149877.	8.0	153
2	Characterisation and antimicrobial activity of biosurfactant extracts produced by <i>Bacillus amyloliquefaciens</i> and <i>Pseudomonas aeruginosa</i> isolated from a wastewater treatment plant. <i>AMB Express</i> , 2017, 7, 108.	3.0	108
3	Distribution of Indigenous Bacterial Pathogens and Potential Pathogens Associated with Roof-Harvested Rainwater. <i>Applied and Environmental Microbiology</i> , 2014, 80, 2307-2316.	3.1	81
4	Domestic Rainwater Harvesting: Microbial and Chemical Water Quality and Point-of-Use Treatment Systems. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	76
5	Prevalence of ESKAPE pathogens in the environment: Antibiotic resistance status, community-acquired infection and risk to human health. <i>International Journal of Hygiene and Environmental Health</i> , 2022, 244, 114006.	4.3	69
6	A global review of the microbiological quality and potential health risks associated with roof-harvested rainwater tanks. <i>Npj Clean Water</i> , 2019, 2, .	8.0	67
7	Biosurfactants produced by <i>Serratia</i> species: Classification, biosynthesis, production and application. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 589-602.	3.6	57
8	Comparison of EMA-, PMA- and DNase qPCR for the determination of microbial cell viability. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 7371-7383.	3.6	56
9	Efficiency of a closed-coupled solar pasteurization system in treating roof harvested rainwater. <i>Science of the Total Environment</i> , 2015, 536, 206-214.	8.0	48
10	High resolution gravimetric, optical and electrochemical investigations of microbial biofilm formation in aqueous systems. <i>Electrochimica Acta</i> , 2003, 48, 3363-3372.	5.2	45
11	Broad-spectrum antimicrobial activity of secondary metabolites produced by <i>Serratia marcescens</i> strains. <i>Microbiological Research</i> , 2019, 229, 126329.	5.3	43
12	Prevalence of Virulence Genes Associated with Pathogenic <i>Escherichia coli</i> Strains Isolated from Domestically Harvested Rainwater during Low- and High-Rainfall Periods. <i>Applied and Environmental Microbiology</i> , 2014, 80, 1633-1638.	3.1	36
13	Efficiency of Microfiltration Systems for the Removal of Bacterial and Viral Contaminants from Surface and Rainwater. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	36
14	<i>Cryptosporidium</i> and <i>Giardia</i> in Wastewater and Surface Water Environments. <i>Journal of Environmental Quality</i> , 2018, 47, 1006-1023.	2.0	36
15	Predatory bacteria in combination with solar disinfection and solar photocatalysis for the treatment of rainwater. <i>Water Research</i> , 2020, 169, 115281.	11.3	36
16	Molecular detection of <i>Acanthamoeba</i> spp., <i>Naegleria fowleri</i> and <i>Vermamoeba</i> ( <i>Hartmannella</i> ) <i>vermiformis</i> as vectors for <i>Legionella</i> spp. in untreated and solar pasteurized harvested rainwater. <i>Parasites and Vectors</i> , 2016, 9, 539.	2.5	34
17	Microbial source tracking markers associated with domestic rainwater harvesting systems: Correlation to indicator organisms. <i>Environmental Research</i> , 2018, 161, 446-455.	7.5	34
18	Exploring the antimicrobial resistance profiles of WHO critical priority list bacterial strains. <i>BMC Microbiology</i> , 2019, 19, 303.	3.3	32

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19	Variants of lipopeptides and glycolipids produced by <i>Bacillus amyloliquefaciens</i> and <i>Pseudomonas aeruginosa</i> cultured in different carbon substrates. <i>AMB Express</i> , 2017, 7, 109.	3.0	30
20	Quality assessment and primary uses of harvested rainwater in Kleinmond, South Africa. <i>Water S A</i> , 2014, 40, 401.	0.4	29
21	Presence of microbial and chemical source tracking markers in roof-harvested rainwater and catchment systems for the detection of fecal contamination. <i>Environmental Science and Pollution Research</i> , 2016, 23, 16987-17001.	5.3	29
22	Co-Detection of Virulent <i>Escherichia coli</i> Genes in Surface Water Sources. <i>PLoS ONE</i> , 2015, 10, e0116808.	2.5	29
23	Electrochemically assisted photocatalysis for the disinfection of rainwater under solar irradiation. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119485.	20.2	27
24	EMA-qPCR to monitor the efficiency of a closed-coupled solar pasteurization system in reducing <i>Legionella</i> contamination of roof-harvested rainwater. <i>Science of the Total Environment</i> , 2016, 553, 662-670.	8.0	26
25	Distribution and diversity of biosurfactant-producing bacteria in a wastewater treatment plant. <i>Environmental Science and Pollution Research</i> , 2016, 23, 9993-10004.	5.3	23
26	Binary interactions between the yeast <i>Candida albicans</i> and two gut-associated <i>Bacteroides</i> species. <i>Microbial Pathogenesis</i> , 2019, 135, 103619.	2.9	23
27	Bioremediation of metal contamination in the Plankenburg River, Western Cape, South Africa. <i>International Biodeterioration and Biodegradation</i> , 2009, 63, 559-568.	3.9	22
28	Rainwater harvesting solar pasteurization treatment systems for the provision of an alternative water source in peri-urban informal settlements. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 291-302.	2.4	22
29	Comparative analysis of solar pasteurization versus solar disinfection for the treatment of harvested rainwater. <i>BMC Microbiology</i> , 2016, 16, 289.	3.3	21
30	A Metabolomics and Molecular Networking Approach to Elucidate the Structures of Secondary Metabolites Produced by <i>Serratia marcescens</i> Strains. <i>Frontiers in Chemistry</i> , 2021, 9, 633870.	3.6	21
31	Validation of large-volume batch solar reactors for the treatment of rainwater in field trials in sub-Saharan Africa. <i>Science of the Total Environment</i> , 2020, 717, 137223.	8.0	20
32	3M <sub>â„¢</sub> Molecular Detection system versus MALDI-TOF mass spectrometry and molecular techniques for the identification of <i>Escherichia coli</i> O157:H7, <i>Salmonella</i> spp. & <i>Listeria</i> spp.. <i>Journal of Microbiological Methods</i> , 2014, 101, 33-43.	1.6	17
33	Expression of novel cytosolic malate dehydrogenases (cMDH) in <i>Lupinus angustifolius</i> nodules during phosphorus starvation. <i>Journal of Plant Physiology</i> , 2014, 171, 1609-1618.	3.5	15
34	Compound parabolic collector solar disinfection system for the treatment of harvested rainwater. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 976-991.	2.4	15
35	Abundance of <i>Naegleria fowleri</i> in roof-harvested rainwater tank samples from two continents. <i>Environmental Science and Pollution Research</i> , 2018, 25, 5700-5710.	5.3	14
36	Rainwater treatment technologies: Research needs, recent advances and effective monitoring strategies. <i>Current Opinion in Environmental Science and Health</i> , 2020, 16, 28-33.	4.1	12

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37	Assessment of predatory bacteria and prey interactions using culture-based methods and EMA-qPCR. <i>Microbiological Research</i> , 2019, 228, 126305.	5.3	11
38	Resistance of <i>Legionella</i> and <i>Acanthamoeba mauritaniensis</i> to heat treatment as determined by relative and quantitative polymerase chain reactions. <i>Environmental Research</i> , 2017, 158, 82-93.	7.5	9
39	Persistence of Viable Bacteria in Solar Pasteurised Harvested Rainwater. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	2.4	9
40	Development and small-scale validation of a novel pigeon-associated mitochondrial DNA source tracking marker for the detection of fecal contamination in harvested rainwater. <i>Science of the Total Environment</i> , 2018, 615, 99-106.	8.0	8
41	EMA-amplicon-based taxonomic characterisation of the viable bacterial community present in untreated and SODIS treated roof-harvested rainwater. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 91-101.	2.4	8
42	EMA-amplicon-based sequencing informs risk assessment analysis of water treatment systems. <i>Science of the Total Environment</i> , 2020, 743, 140717.	8.0	8
43	Human Pathogenic Bacteria Detected in Rainwater: Risk Assessment and Correlation to Microbial Source Tracking Markers and Traditional Indicators. <i>Frontiers in Microbiology</i> , 2021, 12, 659784.	3.5	8
44	Microbial and Physico-chemical Characteristics Associated with the Incidence of <i>Legionella</i> spp. and <i>Acanthamoeba</i> spp. in Rainwater Harvested from Different Roofing Materials. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	2.4	7
45	Expression of attack and growth phase genes of <i>Bdellovibrio bacteriovorus</i> in the presence of Gram-negative and Gram-positive prey. <i>Microbiological Research</i> , 2020, 235, 126437.	5.3	7
46	Insights into <i>Bdellovibrio</i> spp. mechanisms of action and potential applications. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 85.	3.6	7
47	Metabolomics and Genomics Approach for the Discovery of Serrawettin W2 Lipopeptides from <i>Serratia marcescens</i> NP2. <i>Journal of Natural Products</i> , 2022, .	3.0	6
48	Biological Control of <i>Acinetobacter baumannii</i> : In Vitro and In Vivo Activity, Limitations, and Combination Therapies. <i>Microorganisms</i> , 2022, 10, 1052.	3.6	6
49	Identification of Point Sources of Metal Pollution in the Berg River, Western Cape, South Africa. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	5
50	<i>Podoviridae</i> bacteriophage for the biocontrol of <i>Pseudomonas aeruginosa</i> in rainwater. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 87-102.	2.4	4
51	Antimicrobial and biodegradable materials based on $\epsilon$ -caprolactone derivatives. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49903.	2.6	4
52	EMA- Versus PMA-Amplicon-Based Sequencing to Elucidate the Viable Bacterial Community in Rainwater. <i>Water, Air, and Soil Pollution</i> , 2022, 233, 1.	2.4	4
53	Interaction of <i>Bdellovibrio bacteriovorus</i> with Gram-Negative and Gram-Positive Bacteria in Dual Species and Polymicrobial Communities. <i>Microorganisms</i> , 2022, 10, 793.	3.6	4
54	Integration of <i>Bdellovibrio</i> spp. with SODIS and <i>Moringa oleifera</i> flocculation to target multi-drug resistant <i>Klebsiella pneumoniae</i> and <i>Pseudomonas aeruginosa</i> . <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107962.	6.7	2

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55	Comparison of a South African and Canadian Isolate of the Nucleopolyhedrosis Virus Infecting the Insect <i>Trichoplusia ni</i> . <i>African Entomology</i> , 2017, 25, 341-360.	0.6	0