

Detection and fate of antibiotic resistant bacteria in wastewater treatment plants: a review

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Microbial selectivity of UV treatment on antibiotic-resistant heterotrophic bacteria in secondary effluents of a municipal wastewater treatment plant. <i>Water Research</i> , 2013, 47, 6388-6394.	5.3	113
2	Antibiotic resistance—the need for global solutions. <i>Lancet Infectious Diseases</i> , The, 2013, 13, 1057-1098.	4.6	3,184
3	Protozoans as indicators of sequential batch processes for phenol treatment; an autoecological approach. <i>Ecotoxicology and Environmental Safety</i> , 2013, 98, 210-218.	2.9	10
4	Ultraviolet reduction of erythromycin and tetracycline resistant heterotrophic bacteria and their resistance genes in municipal wastewater. <i>Chemosphere</i> , 2013, 93, 2864-2868.	4.2	103
5	Microbial assessment and prevalence of antibiotic resistance in polluted Oluwa River, Nigeria. <i>Egyptian Journal of Aquatic Research</i> , 2014, 40, 291-299.	1.0	53
6	Principles of Water Purification. , 2014, , 41-46.		0
7	Directions of practical application of mycelial wastes of microbiological production of antibiotics in various areas of industry and agriculture (Review). <i>Russian Journal of General Chemistry</i> , 2014, 84, 2664-2676.	0.3	5
8	Immobilized Heterogeneous Photocatalysis for Reuse of Water Contaminated by Recalcitrant Organic Compounds: The Case of Antibiotics. <i>Handbook of Environmental Chemistry</i> , 2014, , 171-195.	0.2	0
9	Functionalization, pH, and ionic strength influenced sorption of sulfamethoxazole on graphene. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 310-315.	3.3	63
10	The prevalence of antibiotic resistance genes among <i>Aeromonas</i> species in aquatic environments. <i>Annals of Microbiology</i> , 2014, 64, 921-934.	1.1	82
11	Antimicrobial susceptibility assays in paper-based portable culture devices. <i>Lab on A Chip</i> , 2014, 14, 167-171.	3.1	84
12	Development and Validation of a Fast Procedure To Analyze Amoxicillin in River Waters by Direct-Injection LC-MS/MS. <i>Journal of Chemical Education</i> , 2014, 91, 1961-1965.	1.1	22
13	Monitoring and assessing the impact of wastewater treatment on release of both antibiotic-resistant bacteria and their typical genes in a Chinese municipal wastewater treatment plant. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 1930-1937.	1.7	55
14	Fluoroquinolone antibiotics: An emerging class of environmental micropollutants. <i>Science of the Total Environment</i> , 2014, 500-501, 250-269.	3.9	526
15	Occurrence and behavior of antibiotics in water and sediments from the Huangpu River, Shanghai, China. <i>Chemosphere</i> , 2014, 95, 604-612.	4.2	385
16	Fate of antibiotic resistance genes in sewage treatment plant revealed by metagenomic approach. <i>Water Research</i> , 2014, 62, 97-106.	5.3	418
17	Impact of wastewater treatment processes on antimicrobial resistance genes and their co-occurrence with virulence genes in <i>Escherichia coli</i> . <i>Water Research</i> , 2014, 50, 245-253.	5.3	60
18	Adsorption of enrofloxacin in presence of Zn(II) on a calcareous soil. <i>Ecotoxicology and Environmental Safety</i> , 2015, 122, 470-476.	2.9	23

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19	The Detection of <i>Helicobacter hepaticus</i> Using Whispering-Gallery Mode Microcavity Optical Sensors. <i>Biosensors</i> , 2015, 5, 562-576.	2.3	22
20	Fate of Antibiotic Resistant Bacteria and Genes during Wastewater Chlorination: Implication for Antibiotic Resistance Control. <i>PLoS ONE</i> , 2015, 10, e0119403.	1.1	139
21	Source-Related Effects of Wastewater on Transcription Factor (AhR, CAR and PXR)-Mediated Induction of Gene Expression in Cultured Rat Hepatocytes and Their Association with the Prevalence of Antimicrobial-Resistant <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2015, 10, e0138391.	1.1	5
22	Enhancement of antibacterial properties of silver nanoparticles by ceftriaxone conjugate through <i>Mukia maderaspatana</i> leaf extract mediated synthesis. <i>Ecotoxicology and Environmental Safety</i> , 2015, 121, 135-141.	2.9	87
23	Presence of antibiotic resistant bacteria and antibiotic resistance genes in raw source water and treated drinking water. <i>International Biodeterioration and Biodegradation</i> , 2015, 102, 370-374.	1.9	136
24	Antimicrobial resistance: a global multifaceted phenomenon. <i>Pathogens and Global Health</i> , 2015, 109, 309-318.	1.0	1,621
25	Presence of antibiotic resistance genes in a sewage treatment plant in Thibodaux, Louisiana, USA. <i>Bioresource Technology</i> , 2015, 188, 79-83.	4.8	92
26	Metagenomics Shows That Low-Energy Anaerobic Aerobic Treatment Reactors Reduce Antibiotic Resistance Gene Levels from Domestic Wastewater. <i>Environmental Science &amp; Technology</i> , 2015, 49, 2577-2584.	4.6	147
27	Insights into the amplification of bacterial resistance to erythromycin in activated sludge. <i>Chemosphere</i> , 2015, 136, 79-85.	4.2	43
28	Detection and diversity of aeromonads from treated wastewater and fish inhabiting effluent and downstream waters. <i>Ecotoxicology and Environmental Safety</i> , 2015, 120, 235-242.	2.9	21
29	Effects of 100 years wastewater irrigation on resistance genes, class 1 integrons and IncP-1 plasmids in Mexican soil. <i>Frontiers in Microbiology</i> , 2015, 6, 163.	1.5	43
30	We Should Expect More out of Our Sewage Sludge. <i>Environmental Science &amp; Technology</i> , 2015, 49, 8271-8276.	4.6	218
31	Fate of antibiotic resistant cultivable heterotrophic bacteria and antibiotic resistance genes in wastewater treatment processes. <i>Chemosphere</i> , 2015, 135, 138-145.	4.2	93
32	Impact of wastewater from different sources on the prevalence of antimicrobial-resistant <i>Escherichia coli</i> in sewage treatment plants in South India. <i>Ecotoxicology and Environmental Safety</i> , 2015, 115, 203-208.	2.9	65
33	A Review of Heterogeneous Photocatalysis for Water and Surface Disinfection. <i>Molecules</i> , 2015, 20, 5574-5615.	1.7	186
34	Antibiotic resistance in wastewater: Occurrence and fate of <i>Enterobacteriaceae</i> producers of Class A and Class C $\beta$ -lactamases. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2015, 50, 26-39.	0.9	112
35	Removal of sulfamethoxazole and ciprofloxacin from aqueous solutions by graphene oxide. <i>Journal of Hazardous Materials</i> , 2015, 282, 201-207.	6.5	337
36	Conjugative multiple-antibiotic resistance plasmids in <i>Escherichia coli</i> isolated from environmental waters contaminated by human faecal wastes. <i>Journal of Applied Microbiology</i> , 2015, 118, 399-411.	1.4	14

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37	tet genes as indicators of changes in the water environment: Relationships between culture-dependent and culture-independent approaches. <i>Science of the Total Environment</i> , 2015, 505, 704-711.	3.9	47
38	Hospital and Municipal Wastewater: Identification of Relevant Pharmaceutical Compounds. <i>Water Environment Research</i> , 2016, 88, 871-877.	1.3	23
39	Removal of Chloramphenicol and Simultaneous Electricity Generation by Using Microbial Fuel Cell Technology. <i>International Journal of Electrochemical Science</i> , 2016, 11, 5128-5139.	0.5	25
40	Insights in Waste Management Bioprocesses Using Genomic Tools. <i>Advances in Applied Microbiology</i> , 2016, 97, 121-170.	1.3	13
41	Pathogen and Particle Associations in Wastewater. <i>Advances in Applied Microbiology</i> , 2016, 97, 63-119.	1.3	109
42	EVALUATION OF AEROBIC AND ANAEROBIC BIODEGRADABILITY AND TOXICITY ASSESSMENT OF REAL PHARMACEUTICAL WASTEWATER FROM INDUSTRIAL PRODUCTION OF ANTIBIOTICS. <i>Brazilian Journal of Chemical Engineering</i> , 2016, 33, 445-452.	0.7	15
43	Study of spatial and temporal distribution of antimicrobial in water and sediments from caging fish farms by on-line SPE-LC-MS/MS. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2016, 51, 634-643.	0.7	32
44	Modern Poisons. , 2016, , .		4
45	Removal of antibiotics from water in the coexistence of suspended particles and natural organic matters using amino-acid-modified-chitosan flocculants: A combined experimental and theoretical study. <i>Journal of Hazardous Materials</i> , 2016, 317, 593-601.	6.5	65
46	Analysis of a pharmaceutical reverse supply chain based on unwanted medications categories in household. , 2016, , .		2
47	Microbes in the Anthropocene: spillover of agriculturally selected bacteria and their impact on natural ecosystems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160896.	1.2	25
48	Can chlorination co-select antibiotic-resistance genes?. <i>Chemosphere</i> , 2016, 156, 412-419.	4.2	79
49	Removal of cephalosporin antibiotics 7-ACA from wastewater during the cultivation of lipid-accumulating microalgae. <i>Bioresource Technology</i> , 2016, 221, 284-290.	4.8	125
50	Biological evaluation of tetracationic compounds based on two 1,4-diazabicyclo[2.2.2]octane moieties connected by different linkers. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 6012-6020.	1.4	13
51	Antibiotic resistance genes fate and removal by a technological treatment solution for water reuse in agriculture. <i>Science of the Total Environment</i> , 2016, 571, 809-818.	3.9	46
52	Chemical Resistance. , 2016, , 164-173.		0
53	Multiple antibiotic resistance genes distribution in ten large-scale membrane bioreactors for municipal wastewater treatment. <i>Bioresource Technology</i> , 2016, 222, 100-106.	4.8	41
54	Fate of tetracycline and sulfamethoxazole and their corresponding resistance genes in microbial fuel cell coupled constructed wetlands. <i>RSC Advances</i> , 2016, 6, 95999-96005.	1.7	54

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55	Prevalence of bacterial resistance within an eco-agricultural system in Hangzhou, China. <i>Environmental Science and Pollution Research</i> , 2016, 23, 21369-21376.	2.7	11
56	Comparison of Microbial and Chemical Source Tracking Markers To Identify Fecal Contamination Sources in the Humber River (Toronto, Ontario, Canada) and Associated Storm Water Outfalls. <i>Applied and Environmental Microbiology</i> , 2016, 82, 6357-6366.	1.4	47
57	Effect of electrical stimulation on the fate of sulfamethoxazole and tetracycline with their corresponding resistance genes in three-dimensional biofilm-electrode reactors. <i>Chemosphere</i> , 2016, 164, 113-119.	4.2	81
58	Genetic redundancy and persistence of plasmid-mediated trimethoprim/sulfamethoxazole resistant effluent and stream water <i>Escherichia coli</i> . <i>Water Research</i> , 2016, 103, 197-204.	5.3	17
59	Photocatalytic degradation of veterinary antibiotics: Biodegradability and antimicrobial activity of intermediates. <i>Chemical Engineering Research and Design</i> , 2016, 103, 1-9.	2.7	42
60	Presence of antibiotic resistance genes in different salinity gradients of freshwater to saltwater marshes in southeast Louisiana, USA. <i>International Biodeterioration and Biodegradation</i> , 2016, 113, 80-87.	1.9	25
61	Removal and degradation of $\beta$ -lactam antibiotics in water using didodecyldimethylammonium bromide-modified montmorillonite organoclay. <i>Journal of Hazardous Materials</i> , 2016, 317, 677-685.	6.5	40
62	Reduction in horizontal transfer of conjugative plasmid by UV irradiation and low-level chlorination. <i>Water Research</i> , 2016, 91, 331-338.	5.3	85
63	A review of the influence of treatment strategies on antibiotic resistant bacteria and antibiotic resistance genes. <i>Chemosphere</i> , 2016, 150, 702-714.	4.2	557
64	Occurrence and risk assessment of antibiotics in river water in Hong Kong. <i>Ecotoxicology and Environmental Safety</i> , 2016, 125, 121-127.	2.9	120
65	Monitoring and evaluation of antibiotic resistance genes in four municipal wastewater treatment plants in Harbin, Northeast China. <i>Environmental Pollution</i> , 2016, 212, 34-40.	3.7	91
66	Dose-response behavior of the bacterium <i>Vibrio fischeri</i> exposed to pharmaceuticals and personal care products. <i>Ecotoxicology</i> , 2016, 25, 141-162.	1.1	34
67	Adsorption and co-adsorption of diclofenac and Cu(II) on calcareous soils. <i>Ecotoxicology and Environmental Safety</i> , 2016, 124, 386-392.	2.9	20
68	Effects of antibiotics on characteristics and microbial resistance of aerobic granules in sequencing batch reactors. <i>Desalination and Water Treatment</i> , 2016, 57, 8252-8261.	1.0	14
69	Solar photocatalysis as disinfection technique: Inactivation of <i>Klebsiella pneumoniae</i> in sewage and investigation of changes in antibiotic resistance profile. <i>Journal of Environmental Management</i> , 2017, 195, 140-147.	3.8	49
70	Removal of antibiotic cloxacillin by means of electrochemical oxidation, TiO <sub>2</sub> photocatalysis, and photo-Fenton processes: analysis of degradation pathways and effect of the water matrix on the elimination of antimicrobial activity. <i>Environmental Science and Pollution Research</i> , 2017, 24, 6339-6352.	2.7	55
71	Distribution of antibiotic resistance in the effluents of ten municipal wastewater treatment plants in China and the effect of treatment processes. <i>Chemosphere</i> , 2017, 172, 392-398.	4.2	157
72	Photodegradation of the antibiotic spiramycin studied by high-performance liquid chromatography-electrospray ionization-quadrupole time-of-flight mass spectrometry. <i>Toxicological and Environmental Chemistry</i> , 2017, 99, 624-640.	0.6	14

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73	The occurrence of antibiotic resistance genes in a Mediterranean river and their persistence in the riverbed sediment. <i>Environmental Pollution</i> , 2017, 223, 384-394.	3.7	106
74	Monitoring of micropollutants and resistant bacteria in wastewater and their effective removal by boron doped diamond electrode. <i>Monatshefte für Chemie</i> , 2017, 148, 539-548.	0.9	10
75	Characteristics of airborne bacteria and fungi in some Polish wastewater treatment plants. <i>International Journal of Environmental Science and Technology</i> , 2017, 14, 2181-2192.	1.8	55
76	On the photodegradation of azithromycin, erythromycin and tylosin and their transformation products – A kinetic study. <i>Sustainable Chemistry and Pharmacy</i> , 2017, 5, 131-140.	1.6	47
77	Estimation of amount of selected pharmaceuticals sorbed onto digested sludge from wastewater treatment plant Bratislava-Petržalka. <i>Environmental Research</i> , 2017, 155, 31-35.	3.7	25
78	Presence of Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA) in sewage treatment plant. <i>Bioresource Technology</i> , 2017, 240, 144-148.	4.8	38
79	Presence of sulfonamide and carbapenem resistance genes in a sewage treatment plant in southeast Louisiana, USA. <i>International Biodeterioration and Biodegradation</i> , 2017, 124, 10-16.	1.9	14
80	Development and Validation of a Multiclass, Multiresidue Method for Veterinary Drug Analysis in Infant Formula and Related Ingredients Using UHPLC-MS/MS. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 7268-7287.	2.4	21
81	Biological nutrient removal and molecular biological characteristics in an anaerobic-multistage anaerobic/oxic (A-MAO) process to treat municipal wastewater. <i>Bioresource Technology</i> , 2017, 241, 969-978.	4.8	79
82	Distribution of tetracycline resistance genes and AmpC $\beta$ -lactamase genes in representative non-urban sewage plants and correlations with treatment processes and heavy metals. <i>Chemosphere</i> , 2017, 170, 274-281.	4.2	48
83	The fate of carbapenem-resistant bacteria in a wastewater treatment plant. <i>Water Research</i> , 2017, 126, 232-239.	5.3	48
84	Performance comparison of secondary and tertiary treatment systems for treating antibiotic resistance. <i>Water Research</i> , 2017, 127, 172-182.	5.3	49
86	Study of the degradation process of ofloxacin with free chlorine by using ESI-LCMSMS: Kinetic study, by-products formation pathways and fragmentation mechanisms. <i>Chemosphere</i> , 2017, 189, 46-54.	4.2	19
87	Veterinary antibiotics in food, drinking water, and the urine of preschool children in Hong Kong. <i>Environment International</i> , 2017, 108, 246-252.	4.8	155
88	Photoinduced degradation of sulfonamides, kinetic, and structural characterization of transformation products and assessment of environmental toxicity. <i>Toxicological and Environmental Chemistry</i> , 2017, 99, 1304-1327.	0.6	23
89	Solids retention time, influent antibiotic concentrations, and temperature as selective pressures for antibiotic resistance in activated sludge systems. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 883-896.	1.2	9
90	Status of pathogens, antibiotic resistance genes and antibiotic residues in wastewater treatment systems. <i>Reviews in Environmental Science and Biotechnology</i> , 2017, 16, 491-515.	3.9	80
91	Behavior of antibiotic resistance genes during co-composting of swine manure with Chinese medicinal herbal residues. <i>Bioresource Technology</i> , 2017, 244, 252-260.	4.8	107

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92	Enhancing biodegradation of C16-alkyl quaternary ammonium compounds using an oxygen-based membrane biofilm reactor. <i>Water Research</i> , 2017, 123, 825-833.	5.3	57
93	Role of dams in the phase transfer of antibiotics in an urban river receiving wastewater treatment plant effluent. <i>Science of the Total Environment</i> , 2017, 607-608, 1173-1179.	3.9	28
94	Efficient enzymatic degradation used as pre-stage treatment for norfloxacin removal by activated sludge. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 1261-1270.	1.7	47
95	Impact of ciprofloxacin, carbamazepine and ibuprofen on a membrane bioreactor system: Kinetic study and biodegradation capacity. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2944-2951.	1.6	17
96	Microbial community response during the treatment of pharmaceutically active compounds (PhACs) in constructed wetland mesocosms. <i>Chemosphere</i> , 2017, 186, 823-831.	4.2	59
99	Quantitative and qualitative changes in antibiotic resistance genes after passing through treatment processes in municipal wastewater treatment plants. <i>Science of the Total Environment</i> , 2017, 605-606, 906-914.	3.9	130
100	Presence of antibiotic resistance genes in raw source water of a drinking water treatment plant in a rural community of USA. <i>International Biodeterioration and Biodegradation</i> , 2017, 124, 3-9.	1.9	52
101	The effects of ibuprofen on activated sludge: Shift in bacterial community structure and resistance to ciprofloxacin. <i>Journal of Hazardous Materials</i> , 2017, 340, 291-299.	6.5	37
102	Effects Oxytetracycline on Bacterial Diversity in Livestock Wastewater. <i>Environmental Engineering Science</i> , 2017, 34, 265-271.	0.8	14
103	Presence of tetracycline-resistant genes in manures from different-size farms situated close to Kazan (Russia). <i>International Journal of Environmental Technology and Management</i> , 2017, 20, 374.	0.1	1
104	Ecological and Public Health Implications of the Discharge of Multidrug-Resistant Bacteria and Physicochemical Contaminants from Treated Wastewater Effluents in the Eastern Cape, South Africa. <i>Water (Switzerland)</i> , 2017, 9, 562.	1.2	21
105	Anaerobic Membrane Bioreactor Effluent Reuse: A Review of Microbial Safety Concerns. <i>Fermentation</i> , 2017, 3, 39.	1.4	33
106	Occurrence and Variety of $\beta$ -Lactamase Genes among <i>Aeromonas</i> spp. Isolated from Urban Wastewater Treatment Plant. <i>Frontiers in Microbiology</i> , 2017, 8, 863.	1.5	75
107	Antimicrobial Susceptibility among Urban Wastewater and Wild Shellfish Isolates of Non-O1/Non-O139 <i>Vibrio cholerae</i> from La Rance Estuary (Brittany, France). <i>Frontiers in Microbiology</i> , 2017, 8, 1637.	1.5	35
108	Occurrence of Extended Spectrum $\beta$ -Lactamases, KPC-Type, and MCR-1.2-Producing Enterobacteriaceae from Wells, River Water, and Wastewater Treatment Plants in Oltrepavese Area, Northern Italy. <i>Frontiers in Microbiology</i> , 2017, 8, 2232.	1.5	85
109	Revisiting Antibiotic Resistance Spreading in Wastewater Treatment Plants – Bacteriophages as a Much Neglected Potential Transmission Vehicle. <i>Frontiers in Microbiology</i> , 2017, 8, 2298.	1.5	67
110	Salmonella in Wastewater: Identification, Antibiotic Resistance and the Impact on the Marine Environment. , 0, , .		6
111	Diagnosis and treatment of a multidrug-resistant <i>Escherichia coli</i> in a wild eastern box turtle ( <i>Terrapene carolina carolina</i> ). <i>Veterinary Record Case Reports</i> , 2017, 5, e000528.	0.1	3

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112	Degradation of Extracellular Antibiotic Resistance Genes with UV <sub>254</sub> Treatment. <i>Environmental Science &amp; Technology</i> , 2017, 51, 6185-6192.	4.6	129
113	Bioremediation of Cephalexin with non-living <i>Chlorella</i> sp., biomass after lipid extraction. <i>Bioresource Technology</i> , 2018, 257, 17-22.	4.8	51
114	A closer look at the antibiotic-resistant bacterial community found in urban wastewater treatment systems. <i>MicrobiologyOpen</i> , 2018, 7, e00589.	1.2	18
115	Effect of pyrolysis on the removal of antibiotic resistance genes and class I integrons from municipal wastewater biosolids. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1807-1818.	1.2	27
116	Antibiotic distribution, risk assessment, and microbial diversity in river water and sediment in Hong Kong. <i>Environmental Geochemistry and Health</i> , 2018, 40, 2191-2203.	1.8	41
117	Physical and chemical properties of pyrolyzed biosolids for utilization in sand-based turfgrass rootzones. <i>Waste Management</i> , 2018, 76, 98-105.	3.7	16
118	Antibiotic resistant bacteria are widespread in songbirds across rural and urban environments. <i>Science of the Total Environment</i> , 2018, 627, 1234-1241.	3.9	30
119	Encapsulation of Silica Nanotubes from Elephant Grass with Graphene Oxide/Reduced Graphene Oxide and Its Application in Remediation of Sulfamethoxazole from Aqueous Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4539-4548.	3.2	32
120	Effects of direct current on <i>Klebsiella</i> spp. viability and corresponding resistance gene expression in simulative bio-electrochemical reactors. <i>Chemosphere</i> , 2018, 196, 251-259.	4.2	32
121	Antibiotic resistance in urban and hospital wastewaters and their impact on a receiving freshwater ecosystem. <i>Chemosphere</i> , 2018, 206, 70-82.	4.2	138
122	Characterization of <i>Acinetobacter baumannii</i> from water and sludge line of secondary wastewater treatment plant. <i>Water Research</i> , 2018, 140, 261-267.	5.3	78
123	Prevalence of antibiotic-resistant coliform bacteria, <i>Enterococcus</i> spp. and <i>Staphylococcus</i> spp. in wastewater sewerage biofilm. <i>Journal of Global Antimicrobial Resistance</i> , 2018, 14, 145-151.	0.9	25
124	Electro-peroxone pretreatment for enhanced simulated hospital wastewater treatment and antibiotic resistance genes reduction. <i>Environment International</i> , 2018, 115, 70-78.	4.8	64
125	Effect of copper on the accumulation and elimination kinetics of fluoroquinolones in the zebrafish ( <i>Danio rerio</i> ). <i>Ecotoxicology and Environmental Safety</i> , 2018, 156, 135-140.	2.9	21
126	Evaluation of treatment of effluents contaminated with rifampicin by Fenton, electrochemical and associated processes. <i>Journal of Water Process Engineering</i> , 2018, 22, 250-257.	2.6	46
127	The Threat and Response to Infectious Diseases (Revised). <i>Microbial Ecology</i> , 2018, 76, 19-36.	1.4	10
128	Removal of five fluoroquinolone antibiotics during broiler manure composting. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 373-381.	1.2	21
129	The role of operating parameters and oxidative damage mechanisms of advanced chemical oxidation processes in the combat against antibiotic-resistant bacteria and resistance genes present in urban wastewater. <i>Water Research</i> , 2018, 129, 208-230.	5.3	187



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130	Biodegradation and Inhibitory Effects of Antibiotics on Biological Wastewater Treatment Systems. <i>Methods in Pharmacology and Toxicology</i> , 2018, , 29-55.	0.1	7
131	Antibiotic-Resistance Genes in Waste Water. <i>Trends in Microbiology</i> , 2018, 26, 220-228.	3.5	627
132	Addressing the Unknowns of Antimicrobial Resistance: Quantifying and Mapping the Drivers of Burden. <i>Clinical Infectious Diseases</i> , 2018, 66, 612-616.	2.9	15
133	Evaluation of domestic wastewater treatment using microalgal-bacterial processes: effect of CO <sub>2</sub> addition on pathogen removal. <i>Journal of Applied Phycology</i> , 2018, 30, 921-929.	1.5	34
134	Antibiotic resistant bacteria in urban sewage: Role of full-scale wastewater treatment plants on environmental spreading. <i>Chemosphere</i> , 2018, 191, 761-769.	4.2	74
135	Antibiotic resistance and wastewater: Correlation, impact and critical human health challenges. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 52-58.	3.3	166
136	Removal of veterinary antibiotics from wastewater by electrocoagulation. <i>Chemosphere</i> , 2018, 194, 381-389.	4.2	117
137	Efflux pumps genes of clinical origin are related to those from fluconazole-resistant <i>Candida albicans</i> isolates from environmental water. <i>Water Science and Technology</i> , 2018, 77, 899-908.	1.2	8
138	Systematic Review: Impact of point sources on antibiotic-resistant bacteria in the natural environment. <i>Zoonoses and Public Health</i> , 2018, 65, e162-e184.	0.9	48
139	Antituberculosis drugs degradation by UV-based advanced oxidation processes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 26-33.	2.0	39
140	Determination of pharmaceutical compounds in hospital wastewater and their elimination by advanced oxidation processes. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2018, 53, 213-221.	0.9	37
141	Removal of antibiotics, antibiotic-resistant bacteria and their associated genes by graphene-based TiO <sub>2</sub> composite photocatalysts under solar radiation in urban wastewaters. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 810-824.	10.8	263
143	Managing the emergence of pathogen resistance via spatially targeted antimicrobial use. <i>Evolutionary Applications</i> , 2018, 11, 1822-1841.	1.5	3
144	The Changing Face of Water: A Dynamic Reflection of Antibiotic Resistance Across Landscapes. <i>Frontiers in Microbiology</i> , 2018, 9, 1894.	1.5	29
145	Dynamic transport of antibiotics and antibiotic resistance genes under different treatment processes in a typical pharmaceutical wastewater treatment plant. <i>Environmental Science and Pollution Research</i> , 2018, 25, 30191-30198.	2.7	27
146	Removal of antibiotic residues, antibiotic resistant bacteria and antibiotic resistance genes in municipal wastewater by membrane bioreactor systems. <i>Water Research</i> , 2018, 145, 498-508.	5.3	253
147	Research progress on distribution, migration, transformation of antibiotics and antibiotic resistance genes (ARGs) in aquatic environment. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 1195-1208.	5.1	169
148	Determination of flumequine enantiomers and 7-hydroxyflumequine in water and sediment by chiral HPLC coupled with hybrid quadrupole-time-of-flight mass spectrometer. <i>Scientific Reports</i> , 2018, 8, 7582.	1.6	7

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149	Fate of cefotaxime-resistant Enterobacteriaceae and ESBL-producers over a full-scale wastewater treatment process with UV disinfection. <i>Science of the Total Environment</i> , 2018, 639, 1028-1037.	3.9	28
150	Deciphering the factors influencing the discrepant fate of antibiotic resistance genes in sludge and water phases during municipal wastewater treatment. <i>Bioresource Technology</i> , 2018, 265, 310-319.	4.8	51
151	Fate of antibiotic resistance genes in two Arctic tundra wetlands impacted by municipal wastewater. <i>Science of the Total Environment</i> , 2018, 642, 1415-1428.	3.9	27
152	Reduction of the fitness cost of antibiotic resistance caused by chromosomal mutations under poor nutrient conditions. <i>Environment International</i> , 2018, 120, 63-71.	4.8	55
153	Presence of fluoroquinolone resistance with persistent occurrence of <i>gyrA</i> gene mutations in a municipal wastewater treatment plant in India. <i>Chemosphere</i> , 2018, 211, 817-825.	4.2	22
154	Simultaneous quantitative monitoring of four indicator contaminants of emerging concern (CEC) in different water sources of Central India using SPE/LC-(ESI)MS-MS. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 489.	1.3	17
155	The Evaluation of Hazards to Man and the Environment during the Composting of Sewage Sludge. <i>Sustainability</i> , 2018, 10, 2618.	1.6	25
156	Seasonal and spatial distribution of antibiotic resistance genes in the sediments along the Yangtze Estuary, China. <i>Environmental Pollution</i> , 2018, 242, 576-584.	3.7	93
157	Simulated wastewater reduced <i>Klebsiella michiganensis</i> strain LH-2 viability and corresponding antibiotic resistance gene abundance in bio-electrochemical reactors. <i>Ecotoxicology and Environmental Safety</i> , 2018, 162, 376-382.	2.9	7
158	Tracking antibiotic resistome during wastewater treatment using high throughput quantitative PCR. <i>Environment International</i> , 2018, 117, 146-153.	4.8	152
159	Antimicrobial Susceptibility of Environmental Non-O1/Non-O139 <i>Vibrio cholerae</i> Isolates. <i>Frontiers in Microbiology</i> , 2018, 9, 1726.	1.5	15
160	Toxicological interaction of multi-component mixtures to <i>Vibrio qinghaiensis</i> sp.-Q67 induced by at least three components. <i>Science of the Total Environment</i> , 2018, 635, 432-442.	3.9	33
161	Cephalosporin antibiotics in the aquatic environment: A critical review of occurrence, fate, ecotoxicity and removal technologies. <i>Environmental Pollution</i> , 2018, 241, 1153-1166.	3.7	125
162	Influence of Natural Plant Extracts in Reducing Soil and Water Contaminants. <i>Handbook of Environmental Chemistry</i> , 2018, , 161-188.	0.2	2
163	Spatiotemporal profile of tetracycline and sulfonamide and their resistance on a catchment scale. <i>Environmental Pollution</i> , 2018, 241, 1098-1105.	3.7	26
164	Performance of secondary wastewater treatment methods for the removal of contaminants of emerging concern implicated in crop uptake and antibiotic resistance spread: A review. <i>Science of the Total Environment</i> , 2019, 648, 1052-1081.	3.9	328
165	Occurrence and risk assessment of antibiotics in the Xi'an section of the Weihe River, northwestern China. <i>Marine Pollution Bulletin</i> , 2019, 146, 794-800.	2.3	28
166	Screening and evaluation of heavy metals facilitating antibiotic resistance gene transfer in a sludge bacterial community. <i>Science of the Total Environment</i> , 2019, 695, 133862.	3.9	57

#	ARTICLE	IF	CITATIONS
167	Performance improvement and model of a bio-electrochemical system built-in up-flow anaerobic sludge blanket for treating $\beta$ -lactams pharmaceutical wastewater under different hydraulic retention time. <i>Water Research</i> , 2019, 164, 114915.	5.3	17
168	Implications of microbial adaptation for the assessment of environmental persistence of chemicals. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 2220-2255.	6.6	88
169	Spatial ecology of a wastewater network defines the antibiotic resistance genes in downstream receiving waters. <i>Water Research</i> , 2019, 162, 347-357.	5.3	108
170	High-Throughput Detection of Bacterial Community and Its Drug-Resistance Profiling From Local Reclaimed Wastewater Plants. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 303.	1.8	16
171	Use of literature mining for early identification of emerging contaminants in freshwater resources. <i>Environmental Evidence</i> , 2019, 8, .	1.1	9
172	Incidence and molecular characterization of multidrug resistance in Gram-negative bacteria of clinical importance from pharmaceutical wastewaters in South-western Nigeria. <i>Environmental DNA</i> , 2019, 1, 268-280.	3.1	4
173	Heterotrophic Kinetic Study and Nitrogen Removal of a Membrane Bioreactor System Treating Real Urban Wastewater under a Pharmaceutical Compounds Shock: Effect of the Operative Variables. <i>Water (Switzerland)</i> , 2019, 11, 1785.	1.2	5
174	Comparative diversity of microbiomes and Resistomes in beef feedlots, downstream environments and urban sewage influent. <i>BMC Microbiology</i> , 2019, 19, 197.	1.3	34
175	Occurrence and Risk Assessment of Antibiotics in Manure, Soil, Wastewater, Groundwater from Livestock and Poultry Farms in Xuzhou, China. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019, 103, 590-596.	1.3	46
176	Abundance and Antimicrobial Resistance of Three Bacterial Species along a Complete Wastewater Pathway. <i>Microorganisms</i> , 2019, 7, 312.	1.6	24
177	Antibiotic resistance genes identified in wastewater treatment plant systems – A review. <i>Science of the Total Environment</i> , 2019, 697, 134023.	3.9	396
178	Occurrence and removal of sulfonamides and their acetyl metabolites in a biological aerated filter (BAF) of wastewater treatment plant in Xiamen, South China. <i>Environmental Science and Pollution Research</i> , 2019, 26, 33363-33372.	2.7	14
179	Transfer of antibiotic resistance genes between <i>Enterococcus faecalis</i> strains in filter feeding zooplankton <i>Daphnia magna</i> and <i>Daphnia pulex</i> . <i>Science of the Total Environment</i> , 2019, 659, 1168-1175.	3.9	22
180	Antibiotics bioremediation: Perspectives on its ecotoxicity and resistance. <i>Environment International</i> , 2019, 124, 448-461.	4.8	377
181	Antibiotic resistance in major rivers in the world: A systematic review on occurrence, emergence, and management strategies. <i>Journal of Cleaner Production</i> , 2019, 234, 1484-1505.	4.6	294
182	Assessment of antibiotic resistance genes in dialysis water treatment processes. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	3.3	1
183	Insights on the current status of occurrence and removal of antibiotics in wastewater by advanced oxidation processes. <i>Journal of Environmental Management</i> , 2019, 246, 51-62.	3.8	243
184	Enhanced inactivation of antibiotic-resistant bacteria isolated from secondary effluents by g-C <sub>3</sub> N <sub>4</sub> photocatalysis. <i>Environmental Science and Pollution Research</i> , 2019, 26, 18730-18738.	2.7	26

#	ARTICLE	IF	CITATIONS
185	Evaluation of a constructed wetland for wastewater treatment: Addressing emerging organic contaminants and antibiotic resistant bacteria. <i>New Biotechnology</i> , 2019, 52, 94-103.	2.4	55
186	Enterococci: Between Emerging Pathogens and Potential Probiotics. <i>BioMed Research International</i> , 2019, 2019, 1-13.	0.9	138
187	Removal of sulfamethoxazole antibiotic from aqueous solutions by silver@reduced graphene oxide nanocomposite. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 374.	1.3	9
188	Feasibility of anaerobic packed and structured-bed reactors for sulfamethoxazole and ciprofloxacin removal from domestic sewage. <i>Science of the Total Environment</i> , 2019, 678, 419-429.	3.9	32
189	Pharmaceuticals, drugs, and resistant microorganisms – environmental impact on population health. <i>Current Opinion in Environmental Science and Health</i> , 2019, 9, 40-48.	2.1	35
190	Antibiotic resistance genes attenuated with salt accumulation in saline soil. <i>Journal of Hazardous Materials</i> , 2019, 374, 35-42.	6.5	56
191	Annual changes in the occurrence of antibiotic-resistant coliform bacteria and enterococci in municipal wastewater. <i>Environmental Science and Pollution Research</i> , 2019, 26, 18470-18483.	2.7	17
192	Antibiotics in the Soil Environment – Degradation and Their Impact on Microbial Activity and Diversity. <i>Frontiers in Microbiology</i> , 2019, 10, 338.	1.5	511
193	Critical review of ARGs reduction behavior in various sludge and sewage treatment processes in wastewater treatment plants. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 1623-1674.	6.6	66
194	Bacteriophages as Environmental Reservoirs of Antibiotic Resistance. <i>Trends in Microbiology</i> , 2019, 27, 570-577.	3.5	113
195	Assessment of the Role of Wastewater Treatment Plant in Spread of Antibiotic Resistance and Bacterial Pathogens. <i>Indian Journal of Microbiology</i> , 2019, 59, 261-265.	1.5	14
196	Bio-Electron-Fenton (BEF) process driven by sediment microbial fuel cells (SMFCs) for antibiotics desorption and degradation. <i>Biosensors and Bioelectronics</i> , 2019, 136, 8-15.	5.3	43
197	Screening of pesticides and veterinary drugs in small streams in the European Union by liquid chromatography high resolution mass spectrometry. <i>Science of the Total Environment</i> , 2019, 670, 1204-1225.	3.9	105
198	Biotransformation of the antibiotic agent cephadroxyl and the synthetic dye Reactive Black 5 by <i>Leptosphaerulina</i> sp. immobilised on <i>Luffa</i> ( <i>Luffa cylindrica</i> ) sponge. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 18, 101051.	1.5	7
199	The impact of on-site hospital wastewater treatment on the downstream communal wastewater system in terms of antibiotics and antibiotic resistance genes. <i>International Journal of Hygiene and Environmental Health</i> , 2019, 222, 635-644.	2.1	131
200	Impact of Dairy Manure Processing Using Polyacrylamide on Antibiotic-Resistant Bacterial Level. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	1.1	1
201	Selection and Transmission of Antibiotic-Resistant Bacteria. , 2019, , 117-137.		2
203	Gut carriage of antimicrobial resistance genes among young children in urban Maputo, Mozambique: Associations with enteric pathogen carriage and environmental risk factors. <i>PLoS ONE</i> , 2019, 14, e0225464.	1.1	16

#	ARTICLE	IF	CITATIONS
204	Recent advances in Bisphenol A UV/H <sub>2</sub> O <sub>2</sub> degradation. IOP Conference Series: Materials Science and Engineering, 2019, 696, 012006.	0.3	3
205	Performance of wild-Serbian <i>Ganoderma lucidum</i> mycelium in treating synthetic sewage loading using batch bioreactor. Scientific Reports, 2019, 9, 16109.	1.6	24
206	Electrochemical techniques to detect and quantify Enrofloxacin in presence of highly potential interferences: Assays in Chilean aqueous-soil matrices. Journal of Electroanalytical Chemistry, 2019, 832, 329-335.	1.9	14
207	Antibiotic-resistance gene transfer in antibiotic-resistance bacteria under different light irradiation: Implications from oxidative stress and gene expression. Water Research, 2019, 149, 282-291.	5.3	115
208	Î <sup>3</sup> -FeOOH graphene polyacrylamide carbonized aerogel as air-cathode in electro-Fenton process for enhanced degradation of sulfamethoxazole. Chemical Engineering Journal, 2019, 359, 914-923.	6.6	74
209	Conjugative potential of antibiotic resistance plasmids to activated sludge bacteria from wastewater treatment plants. International Biodeterioration and Biodegradation, 2019, 138, 33-40.	1.9	20
210	Assessment of thin-film photocatalysis inactivation of different bacterial indicators and effect on their antibiotic resistance profile. Applied Catalysis B: Environmental, 2019, 244, 612-619.	10.8	20
211	Influence of nalidixic acid on tandem heterotrophic-autotrophic kinetics in a "NIPHO" activated sludge reactor. Chemosphere, 2019, 218, 128-137.	4.2	4
212	Microbial diversity and antibiotic resistance in a final effluent-receiving lake. Science of the Total Environment, 2019, 650, 2951-2961.	3.9	57
213	Selection and Transmission of Antibiotic-Resistant Bacteria. Microbiology Spectrum, 2017, 5, .	1.2	55
214	Sources, behaviour and health risks of antimicrobial resistance genes in wastewaters: A hotspot reservoir. Journal of Environmental Chemical Engineering, 2020, 8, 102220.	3.3	56
215	Elimination of carbapenem resistant <i>Klebsiella pneumoniae</i> in water by UV-C, UV-C/persulfate and UV-C/H <sub>2</sub> O <sub>2</sub> . Evaluation of response to antibiotic, residual effect of the processes and removal of resistance gene. Journal of Environmental Chemical Engineering, 2020, 8, 102196.	3.3	30
216	Sewage mediated transfer of antibiotic resistance to River Yamuna in Delhi, India. Journal of Environmental Chemical Engineering, 2020, 8, 102088.	3.3	14
217	Sources, Occurrence, and Environmental Risk Assessment of Antibiotics and Antimicrobial-Resistant Bacteria in Aquatic Environments of Poland. Handbook of Environmental Chemistry, 2020, , 179-193.	0.2	3
218	Removal of metronidazole from aqueous media by <i>C. vulgaris</i> . Journal of Hazardous Materials, 2020, 384, 121400.	6.5	65
219	Boron doped diamond electrode " The elimination of psychoactive drugs and resistant bacteria from wastewater. Vacuum, 2020, 171, 108957.	1.6	14
220	Effect and mechanism of quorum sensing on horizontal transfer of multidrug plasmid RP4 in BAC biofilm. Science of the Total Environment, 2020, 698, 134236.	3.9	51
221	Ecological safety hazards of wastewater. , 2020, , 101-123.		4

#	ARTICLE	IF	CITATIONS
222	ANTIBIOTIC RESISTANT BACTERIA IN WILDLIFE: PERSPECTIVES ON TRENDS, ACQUISITION AND DISSEMINATION, DATA GAPS, AND FUTURE DIRECTIONS. <i>Journal of Wildlife Diseases</i> , 2020, 56, 1.	0.3	75
223	Reducing residual antibiotic levels in animal feces using intestinal <i>Escherichia coli</i> with surface-displayed erythromycin esterase. <i>Journal of Hazardous Materials</i> , 2020, 388, 122032.	6.5	24
224	Bioaccumulation, trophic transfer, and human health risk of quinolones antibiotics in the benthic food web from a macrophyte-dominated shallow lake, North China. <i>Science of the Total Environment</i> , 2020, 712, 136557.	3.9	34
225	Exploring the antibiotic resistome in activated sludge and anaerobic digestion sludge in an urban wastewater treatment plant via metagenomic analysis. <i>Journal of Microbiology</i> , 2020, 58, 123-130.	1.3	48
226	Inactivation and change of tetracycline-resistant <i>Escherichia coli</i> in secondary effluent by visible light-driven photocatalytic process using Ag/AgBr/g-C <sub>3</sub> N <sub>4</sub> . <i>Science of the Total Environment</i> , 2020, 705, 135639.	3.9	39
227	Evidence of mutations conferring resistance to clarithromycin in wastewater and activated sludge. <i>3 Biotech</i> , 2020, 10, 7.	1.1	6
228	Microbial regulation of natural antibiotic resistance: Understanding the protist-bacteria interactions for evolution of soil resistome. <i>Science of the Total Environment</i> , 2020, 705, 135882.	3.9	63
229	Antibiotic Resistance Profile of Bacteria Isolated from Wastewater Systems in Eastern Ethiopia. <i>Journal of Environmental and Public Health</i> , 2020, 2020, 1-10.	0.4	12
230	The Role of Urban Wastewater in the Environmental Transmission of Antimicrobial Resistance: The Current Situation in Italy (2010â€“2019). <i>Microorganisms</i> , 2020, 8, 1567.	1.6	21
231	Human faeces-associated extended-spectrum $\beta$ -lactamase-producing <i>Escherichia coli</i> discharge into sanitation systems in 2015 and 2030: a global and regional analysis. <i>Lancet Planetary Health</i> , The, 2020, 4, e246-e255.	5.1	17
232	Nanotechnology as a viable alternative for the removal of antimicrobial resistance determinants from discharged municipal effluents and associated watersheds: A review. <i>Journal of Environmental Management</i> , 2020, 275, 111234.	3.8	25
233	Modelling the scaling up of sustainable farming into Agroecology Territories: Potentials and bottlenecks at the landscape level in a Mediterranean case study. <i>Journal of Cleaner Production</i> , 2020, 275, 124043.	4.6	19
234	Multidrug-resistant genes and pathogenic bacteria in hospital wastewater. , 2020, , 177-202.		0
235	Genotypic and phenotypic traits of blaCTX-M-carrying <i>Escherichia coli</i> strains from an UV-C-treated wastewater effluent. <i>Water Research</i> , 2020, 184, 116079.	5.3	13
236	Antibiotic Resistance in Recreational Waters: State of the Science. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8034.	1.2	40
237	Prevalence of diversified antibiotic resistant bacteria within sanitation related facilities of human populated workplaces in Abbottabad. <i>PLoS ONE</i> , 2020, 15, e0233325.	1.1	5
238	Genetic characterization of ESBL-producing <i>Escherichia coli</i> and <i>Klebsiella pneumoniae</i> isolated from wastewater and river water in Tunisia: predominance of CTX-M-15 and high genetic diversity. <i>Environmental Science and Pollution Research</i> , 2020, 27, 44368-44377.	2.7	27
239	Study on the effects and changes of soil degradation under the influence of antibiotics. <i>E3S Web of Conferences</i> , 2020, 180, 03018.	0.2	3

#	ARTICLE	IF	CITATIONS
240	Remarkable Removal of Antibiotic-Resistant Bacteria During Dairy Wastewater Treatment Using Hybrid Full-scale Constructed Wetland. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	8
241	Ciprofloxacin, diclofenac, ibuprofen and 17 $\beta$ -ethinylestradiol differentially affect the activity of acetogens and methanogens in anaerobic communities. <i>Ecotoxicology</i> , 2020, 29, 866-875.	1.1	19
242	Antibacterials in Aquatic Environment and Their Toxicity to Fish. <i>Pharmaceuticals</i> , 2020, 13, 189.	1.7	77
243	Solar Photocatalysis for Emerging Micro-Pollutants Abatement and Water Disinfection: A Mini-Review. <i>Sustainability</i> , 2020, 12, 10047.	1.6	7
244	Removal of antibiotic resistance genes (ARGs) in various wastewater treatment processes: An overview. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 571-630.	6.6	85
245	Impact of PhACs on Soil Microorganisms. <i>Handbook of Environmental Chemistry</i> , 2020, , 267-310.	0.2	2
246	Adsorption of Sulfonamide Antibiotic onto Activated Carbon Prepared from an Agro-industrial By-Product as Low-Cost Adsorbent: Equilibrium, Thermodynamic, and Kinetic Studies. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	24
247	Nanostructured porous graphene for efficient removal of emerging contaminants (pharmaceuticals) from water. <i>Chemical Engineering Journal</i> , 2020, 398, 125440.	6.6	102
248	Simultaneous ozonation of 90 organic micropollutants including illicit drugs and their metabolites in different water matrices. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2465-2478.	1.2	19
249	Introduction to wastewater microbiology: special emphasis on hospital wastewater. , 2020, , 1-41.		3
250	Drug and multidrug resistance in waterborne pathogens. , 2020, , 279-300.		1
251	Photodegradation of chloramphenicol and paracetamol using PbS/TiO <sub>2</sub> nanocomposites produced by green synthesis. <i>Journal of the Iranian Chemical Society</i> , 2020, 17, 2013-2031.	1.2	32
252	On Column Binding a Real-Time Biosensor for $\beta$ -lactam Antibiotics Quantification. <i>Molecules</i> , 2020, 25, 1248.	1.7	4
253	Remediation of ciprofloxacin-contaminated soil by nanosecond pulsed dielectric barrier discharge plasma: Influencing factors and degradation mechanisms. <i>Chemical Engineering Journal</i> , 2020, 393, 124768.	6.6	44
254	Metagenomic Profiles of Antibiotic Resistance Genes in Activated Sludge, Dewatered Sludge and Bioaerosols. <i>Water (Switzerland)</i> , 2020, 12, 1516.	1.2	14
255	The effect of CO <sub>2</sub> addition and hydraulic retention time on pathogens removal in HRAPs. <i>Water Science and Technology</i> , 2020, 82, 1184-1192.	1.2	14
256	Wastewater treatment plants and release: The vase of Odin for emerging bacterial contaminants, resistance and determinant of environmental wellness. <i>Emerging Contaminants</i> , 2020, 6, 212-224.	2.2	18
257	Non-antimicrobial pharmaceuticals can affect the development of antibiotic resistance in hospital wastewater. <i>Environmental Science and Pollution Research</i> , 2020, 27, 13501-13511.	2.7	15

#	ARTICLE	IF	CITATIONS
258	Freestanding PAC/CNT microtubes remove sulfamethoxazole from water through a temperature-assisted cyclic process. <i>Journal of Hazardous Materials</i> , 2020, 392, 122133.	6.5	13
259	Correlation appraisal of antibiotic resistance with fecal, metal and microplastic contamination in a tropical Indian river, lakes and sewage. <i>Npj Clean Water</i> , 2020, 3, .	3.1	68
260	Hybrid advanced oxidation process (HAOP) as highly efficient and powerful treatment for complete demineralization of antibiotics. <i>Separation and Purification Technology</i> , 2020, 241, 116728.	3.9	20
261	Reduction of erythromycin resistance gene <i>erm</i> (F) and class 1 integron-integrase genes in wastewater by Bardenpho treatment. <i>Water Environment Research</i> , 2020, 92, 1042-1050.	1.3	9
262	Antibiotic resistant and extended-spectrum $\beta$ -lactamase producing faecal coliforms in wastewater treatment plant effluent. <i>Environmental Pollution</i> , 2020, 262, 114244.	3.7	23
263	The Contribution of Wastewater to the Transmission of Antimicrobial Resistance in the Environment: Implications of Mass Gathering Settings. <i>Tropical Medicine and Infectious Disease</i> , 2020, 5, 33.	0.9	92
264	Characterization of antibiotic resistance genes and bacterial community in selected municipal and industrial sewage treatment plants beside Poyang Lake. <i>Water Research</i> , 2020, 174, 115603.	5.3	45
265	Winter is coming – Impact of temperature on the variation of beta-lactamase and mcr genes in a wastewater treatment plant. <i>Science of the Total Environment</i> , 2020, 712, 136499.	3.9	55
266	Fabrication of Cu <sub>2</sub> O/Bi <sub>2</sub> FeO <sub>4</sub> nanocomposite and its enhanced photocatalytic mechanism and degradation pathways of sulfamethoxazole. <i>Materials Science in Semiconductor Processing</i> , 2020, 109, 104932.	1.9	36
267	Treatment enhances the prevalence of antibiotic-resistant bacteria and antibiotic resistance genes in the wastewater of Sri Lanka, and India. <i>Environmental Research</i> , 2020, 183, 109179.	3.7	63
268	Utilisation of appropriately treated wastewater for some further beneficial purposes: a review of the disinfection method of treated wastewater using UV radiation technology. <i>Reviews on Environmental Health</i> , 2020, 35, 139-146.	1.1	4
269	The effects of ultraviolet disinfection on vancomycin-resistant <i>Enterococcus faecalis</i> . <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 418-429.	1.7	10
270	Responses of Exogenous Bacteria to Soluble Extracellular Polymeric Substances in Wastewater: A Mechanistic Study and Implications on Bioaugmentation. <i>Environmental Science &amp; Technology</i> , 2020, 54, 6919-6928.	4.6	11
271	Antibiotic Resistance, Sanitation, and Public Health. <i>Handbook of Environmental Chemistry</i> , 2020, , 189-216.	0.2	6
272	Anticipating Xenogenic Pollution at the Source: Impact of Sterilizations on DNA Release From Microbial Cultures. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 171.	2.0	11
273	Imaging Single Bacterial Cells with Electro-optical Impedance Microscopy. <i>ACS Sensors</i> , 2021, 6, 348-354.	4.0	6
274	Antibiotic resistome in the livestock and aquaculture industries: Status and solutions. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 2159-2196.	6.6	109
275	Graphene oxide as a new generation adsorbent for the removal of antibiotics from waters. <i>Separation Science and Technology</i> , 2021, 56, 453-461.	1.3	37



#	ARTICLE	IF	CITATIONS
276	Comparative removal of two antibiotic resistant bacteria and genes by the simultaneous use of chlorine and UV irradiation (UV/chlorine): Influence of free radicals on gene degradation. Science of the Total Environment, 2021, 755, 142696.	3.9	44
277	Simultaneous elimination of amoxicillin and antibiotic resistance genes in activated sludge process: Contributions of easy-to-biodegrade food. Science of the Total Environment, 2021, 764, 142907.	3.9	20
278	Genetic characterization of extended-spectrum $\beta$ -lactamase-producing <i>Enterobacteriaceae</i> from a biological industrial wastewater treatment plant in Tunisia with detection of the colistin-resistance <i>mcr-1</i> gene. FEMS Microbiology Ecology, 2021, 97, .	1.3	20
279	Enhancement of UV disinfection of urine matrixes by electrochemical oxidation. Journal of Hazardous Materials, 2021, 410, 124548.	6.5	23
280	Early and differential bacterial colonization on microplastics deployed into the effluents of wastewater treatment plants. Science of the Total Environment, 2021, 757, 143832.	3.9	60
281	Exploring antibiotic resistance in environmental integron-cassettes through <i>int1-attC</i> amplicons deep sequencing. Brazilian Journal of Microbiology, 2021, 52, 363-372.	0.8	8
282	Degradation Kinetics of Antibiotic Resistance Gene <i>mecA</i> of Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) during Water Disinfection with Chlorine, Ozone, and Ultraviolet Light. Environmental Science & Technology, 2021, 55, 2541-2552.	4.6	45
283	Fate and persistence of antibiotic-resistant bacteria and genes through a multi-barrier treatment facility for direct potable reuse. Journal of Water Reuse and Desalination, 2021, 11, 373-390.	1.2	13
284	Prevalence of multidrug resistance bacterial isolates from infected wound patients in Dhaka, Bangladesh: A cross-sectional study. International Journal of Surgery Open, 2021, 28, 56-62.	0.2	15
285	Antibiotic-resistant bacteria and antibiotic resistance genes profile in wastewater treatment plants by using genomic approaches. , 2021, , 567-582.		2
286	Remoción de cefalosporinas con aluminosilicatos. Cultura Científica Y Tecnológica, 0, , 1-16.	0.0	0
287	Characterization of Environmental and Cultivable Antibiotic-Resistant Microbial Communities Associated with Wastewater Treatment. Antibiotics, 2021, 10, 352.	1.5	5
288	Preparation and properties of novel activated carbon doped with aluminum oxide and silver for water treatment. Journal of Alloys and Compounds, 2021, 858, 158372.	2.8	10
289	Antibiotic resistance in the environment: a critical insight on its occurrence, fate, and eco-toxicity. Environmental Science and Pollution Research, 2021, 28, 24889-24916.	2.7	53
290	An Update on Wastewater Multi-Resistant Bacteria: Identification of Clinical Pathogens Such as <i>Escherichia coli</i> O25b:H4-B2-ST131-Producing CTX-M-15 ESBL and KPC-3 Carbapenemase-Producing <i>Klebsiella oxytoca</i> . Microorganisms, 2021, 9, 576.	1.6	10
291	Biological absorption as main route for amoxicillin reduction and heterotrophic kinetic modeling in a NIPHO-bioreactor. Journal of Environmental Chemical Engineering, 2021, 9, 104775.	3.3	1
292	Comparison of Graphitic Carbon Nitrides Synthetized from Melamine and Melamine-Cyanurate Complex: Characterization and Photocatalytic Decomposition of Ofloxacin and Ampicillin. Materials, 2021, 14, 1967.	1.3	6
293	Elevated Incidences of Antimicrobial Resistance and Multidrug Resistance in the Maumee River (Ohio.) Tj ETQq1 1 Q.784314 rgBT /Over	1.6	4

#	ARTICLE	IF	CITATIONS
294	Pharmaceutical effluent: a critical link in the interconnected ecosystem promoting antimicrobial resistance. <i>Environmental Science and Pollution Research</i> , 2021, 28, 32111-32124.	2.7	51
295	Distribution of genetic elements associated with antibiotic resistance in treated and untreated animal husbandry waste and wastewater. <i>Environmental Science and Pollution Research</i> , 2021, 28, 26380-26403.	2.7	19
296	Removal of clarithromycin from aqueous solution using water/triton X-100/ ethanol/ olive oil green nanoemulsion method. <i>Journal of Water Process Engineering</i> , 2021, 40, 101973.	2.6	13
297	Application of Green Nanoemulsion for Elimination of Rifampicin from a Bulk Aqueous Solution. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5835.	1.2	11
298	Increased Antimicrobial and Multidrug Resistance Downstream of Wastewater Treatment Plants in an Urban Watershed. <i>Frontiers in Microbiology</i> , 2021, 12, 657353.	1.5	34
299	Distinct Resistomes and Microbial Communities of Soils, Wastewater Treatment Plants and Households Suggest Development of Antibiotic Resistances Due to Distinct Environmental Conditions in Each Environment. <i>Antibiotics</i> , 2021, 10, 514.	1.5	8
300	Reduced Bacterial Counts from a Sewage Treatment Plant but Increased Counts and Antibiotic Resistance in the Recipient Stream in Accra, Ghana—A Cross-Sectional Study. <i>Tropical Medicine and Infectious Disease</i> , 2021, 6, 79.	0.9	6
301	Wastewater treatment from pharmaceuticals: a review. <i>Voprosy Khimii I Khimicheskoi Tekhnologii</i> , 2021, , 4-31.	0.1	1
302	Efficiency of hospital wastewater treatment system in removal of level of toxic, microbial, and organic pollutant. <i>Toxin Reviews</i> , 2022, 41, 721-730.	1.5	7
303	An Optical and Temperature Assisted CMOS ISFET Sensor Array for Robust E. Coli Detection. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021, 15, 497-508.	2.7	13
304	Traditional and Emerging Water Disinfection Technologies Challenging the Control of Antibiotic-Resistant Bacteria and Antibiotic Resistance Genes. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 1046-1064.	3.7	66
305	Tetracyclines in the environment: An overview on the occurrence, fate, toxicity, detection, removal methods, and sludge management. <i>Science of the Total Environment</i> , 2021, 771, 145291.	3.9	250
306	Evolutionary Pathways and Trajectories in Antibiotic Resistance. <i>Clinical Microbiology Reviews</i> , 2021, 34, e0005019.	5.7	71
307	Pathogenic and Indigenous Denitrifying Bacteria are Transcriptionally Active and Key Multi-Antibiotic-Resistant Players in Wastewater Treatment Plants. <i>Environmental Science &amp; Technology</i> , 2021, 55, 10862-10874.	4.6	60
308	Reducing the Risk of Transmission of Critical Antimicrobial Resistance Determinants From Contaminated Pork Products to Humans in South-East Asia. <i>Frontiers in Microbiology</i> , 2021, 12, 689015.	1.5	15
309	Antibiotic Resistance in Wastewater and Its Impact on a Receiving River: A Case Study of WWTP Brno-Modřice, Czech Republic. <i>Water (Switzerland)</i> , 2021, 13, 2309.	1.2	11
310	Virulence and Antibiotic Resistance Characteristics of <i>Vibrio</i> Isolates From Rustic Environmental Freshwaters. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 732001.	1.8	27
311	Removal of Ampicillin by Heterogeneous Photocatalysis: Combined Experimental and DFT Study. <i>Nanomaterials</i> , 2021, 11, 1992.	1.9	10

#	ARTICLE	IF	CITATIONS
312	Composting of Pig Effluent as a Proposal for the Treatment of Veterinary Drugs. , 0, , .		0
313	Photocatalytic degradation of antibiotic-resistant genes and bacteria using 2D nanomaterials: What is known and what are the challenges?. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 30, 100471.	3.2	5
314	The association between antimicrobials and the antimicrobial-resistant phenotypes and resistance genes of <i>Escherichia coli</i> isolated from hospital wastewaters and adjacent surface waters in Sri Lanka. <i>Chemosphere</i> , 2021, 279, 130591.	4.2	11
315	Differences in chlorine and peracetic acid disinfection kinetics of <i>Enterococcus faecalis</i> and <i>Escherichia fergusonii</i> and their susceptible strains based on gene expressions and genomics. <i>Water Research</i> , 2021, 203, 117480.	5.3	9
316	Predicting antibiotic resistance gene abundance in activated sludge using shotgun metagenomics and machine learning. <i>Water Research</i> , 2021, 202, 117384.	5.3	40
317	Anaerobic digestion in the elimination of antibiotics and antibiotic-resistant genes from the environment – A comprehensive review. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 106423.	3.3	45
318	Multiresidue antibiotic-metabolite quantification method using ultra-performance liquid chromatography coupled with tandem mass spectrometry for environmental and public exposure estimation. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 5901-5920.	1.9	16
319	Highly efficient removal of organic pollutants from wastewater using a recyclable graphene oxide membrane intercalated with g-C <sub>3</sub> N <sub>4</sub> @TiO <sub>2</sub> -nanowires. <i>Journal of Molecular Liquids</i> , 2021, 337, 116461.	2.3	11
320	How anammox responds to the emerging contaminants: Status and mechanisms. <i>Journal of Environmental Management</i> , 2021, 293, 112906.	3.8	22
321	Investigation of Antibiotic-Resistant Bacterial Communities and Antibiotic-Resistant Genes in Wastewater Treatment Plants: Removal of Antibiotic-Resistant Genes by the BBR Process. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021, , 1.	1.3	2
322	Performance of full scale constructed wetlands in removing antibiotics and antibiotic resistance genes. <i>Science of the Total Environment</i> , 2021, 786, 147368.	3.9	48
323	Fe(III) greatly promotes peroxydisulfate activation by WS <sub>2</sub> for efficient carbamazepine degradation and <i>Escherichia coli</i> disinfection. <i>Science of the Total Environment</i> , 2021, 787, 147724.	3.9	34
324	Irreversible inactivation of carbapenem-resistant <i>Klebsiella pneumoniae</i> and its genes in water by photo-electro-oxidation and photo-electro-Fenton - Processes action modes. <i>Science of the Total Environment</i> , 2021, 792, 148360.	3.9	10
325	Structure-Degradation efficiency studies in the remediation of aqueous solutions of dyes using nanosecond-pulsed DBD plasma. <i>Separation and Purification Technology</i> , 2021, 274, 119031.	3.9	27
326	Mobility of antibiotic resistance and its co-occurrence with metal resistance in pathogens under oxidative stress. <i>Journal of Environmental Management</i> , 2021, 297, 113315.	3.8	23
327	High efficiency of osmotically stable laccase for biotransformation and micro-detoxification of levofloxacin in the urea-containing solution: Catalytic performance and mechanism. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 207, 112022.	2.5	16
328	Kinetics, structural effects and transformation pathways for norfloxacin oxidation using the UV/chlorine process. <i>Journal of Water Process Engineering</i> , 2021, 44, 102324.	2.6	10
329	Graphene-boron nitride composite aerogel: A high efficiency adsorbent for ciprofloxacin removal from water. <i>Separation and Purification Technology</i> , 2021, 278, 119605.	3.9	26

#	ARTICLE	IF	CITATIONS
330	Characterization of the genetic structure of mcr-1 gene among Escherichia coli isolates recovered from surface waters and sediments from Ecuador. <i>Science of the Total Environment</i> , 2022, 806, 150566.	3.9	7
331	Remoção de cefalosporinas com aluminossilicatos. <i>Cultura Científica Y Tecnológica</i> , 2021, 18, 1-16.	0.0	0
332	High throughput sequencing reveals the abundance and diversity of antibiotic-resistant bacteria in aquaculture wastewaters, Shandong, China. <i>3 Biotech</i> , 2021, 11, 104.	1.1	5
333	Tertiary treatment technologies for removal of antibiotics and antibiotic resistance genes from wastewater. , 2020, , 1-41.		1
334	Determining the composition of bacterial community and relative abundance of specific antibiotics resistance genes via thermophilic anaerobic digestion of sewage sludge. <i>Bioresource Technology</i> , 2020, 311, 123510.	4.8	29
335	Adsorption of sulfamethoxazole and reactive blue 19 using graphene oxide modified with imidazolium based ionic liquid. <i>Environmental Technology and Innovation</i> , 2020, 17, 100616.	3.0	47
336	Stability of iron chelates during photo-Fenton process: The role of pH, hydroxyl radical attack and temperature. <i>Journal of Water Process Engineering</i> , 2020, 36, 101320.	2.6	28
337	Detection of New Delhi metallo-beta-lactamase enzyme gene bla NDM-1 associated with the Int-1 gene in Gram-negative bacteria collected from the effluent treatment plant of a tuberculosis care hospital in Delhi, India. <i>Access Microbiology</i> , 2020, 2, acmi000125.	0.2	7
339	Enterobacteriaceae Isolated from the River Danube: Antibiotic Resistances, with a Focus on the Presence of ESBL and Carbapenemases. <i>PLoS ONE</i> , 2016, 11, e0165820.	1.1	77
340	Exposure assessment of the consumers living in Mount Lebanon directorate to antibiotics through medication and red meat intake: A cross-sectional study. <i>Veterinary World</i> , 2019, 12, 1395-1407.	0.7	12
341	Tracking of chloramphenicol, erythromycin, and sulfamethoxazole antibiotic-resistant bacteria from untreated wastewater effluents to receiving river. <i>Environmental Health Engineering and Management</i> , 2019, 6, 89-96.	0.3	4
342	Occurrence, Molecular Detection and Antibiotic Resistance Profile of Escherichia coli O157:H7 Isolated from Ready-to-Eat Vegetable Salads in Iran. <i>Pharmaceutical Sciences</i> , 2016, 22, 195-202.	0.1	5
343	Deteção e quantificação de bactérias resistentes aos antibióticos ampicilina e cloranfenicol em estações de tratamento de esgoto doméstico. <i>Engenharia Sanitaria E Ambiental</i> , 2020, 25, 847-857.	0.1	8
344	A Review of Emerging Contaminants in Water. Impact of Meat Consumption on Health and Environmental Sustainability, 0, , 55-80.	0.4	35
345	Dissemination of antibiotic resistance genes associated with the sporobiota in sediments impacted by wastewater. <i>PeerJ</i> , 2018, 6, e4989.	0.9	12
346	Advancements in detection and removal of antibiotic resistance genes in sludge digestion: A state-of-art review. <i>Bioresource Technology</i> , 2022, 344, 126197.	4.8	40
347	A Review on Occurrence and Spread of Antibiotic Resistance in Wastewaters and in Wastewater Treatment Plants: Mechanisms and Perspectives. <i>Frontiers in Microbiology</i> , 2021, 12, 717809.	1.5	77
348	A critical review on the antimicrobial resistance, antibiotic residue and metagenomics-assisted antimicrobial resistance gene detection in freshwater aquaculture environment. <i>Aquaculture Research</i> , 2022, 53, 344-366.	0.9	23

#	ARTICLE	IF	CITATIONS
349	Hospital Antibiotic Wasting and Evaluation of Potential Ecologic Effects. <i>Annals of Environmental Science and Toxicology</i> , 2016, 1, 012-022.	0.6	0
350	Antibiotic Resistance of <i>Escherichia coli</i> Isolated from Municipal Sewage in Sewage Treatment Plant of the City of Hamadan in 2017. <i>Journal of Kermanshah University of Medical Sciences</i> , 2018, 22, .	0.1	1
351	DEGRADATION OF VETERINARY ANTIBIOTICS FROM SLAUGHTERHOUSE WASTEWATER USING TITANIUM DIOXIDE AS A CATALYST. <i>WIT Transactions on Ecology and the Environment</i> , 2018, , .	0.0	3
352	Comparison of inactivation and sensitivity of antibiotic resistance bacteria by ultrasound irradiation. <i>Journal of the Korean Society of Water and Wastewater</i> , 2019, 33, 191-204.	0.3	0
354	Influence of Microalgaeâ€“Bacteria Consortium on Pathogens Removal ( <i>Pseudomonas aeruginosa</i> and) Tj ETQq0 0 0 rgBT /Overlock 10 235-237.	0.2	0
359	<i>Enterococcus</i> spp.: Is It a Bad Choice for a Good Useâ€“A Conundrum to Solve?. <i>Microorganisms</i> , 2021, 9, 2222.	1.6	17
360	Susceptibility of Commensal <i>E. coli</i> Isolated from Conventional, Antibiotic-Free, and Organic Meat Chickens on Farms and at Slaughter toward Antimicrobials with Public Health Relevance. <i>Antibiotics</i> , 2021, 10, 1321.	1.5	7
361	Impact of antibiotics as anthropogenic stressor for influencing bacterial evolutionary process â€“ A review. <i>Ecological Questions</i> , 2020, 32, 1.	0.1	0
363	A Review of Emerging Contaminants in Water. , 2020, , 177-202.		0
364	Development of molecular methods to detect and control emerging drug-resistance pathogens. , 2020, , 377-419.		1
365	Sorption of Antibiotics, Pharmaceuticals, and Personal Care Products in Water on Didodecyldimethylammonium Bromide-Montmorillonite Organoclay. <i>Journal of Chemical Engineering of Japan</i> , 2020, 53, 608-615.	0.3	2
366	Monitoring and comparison of antibiotic resistant bacteria and their resistance genes in municipal and hospital wastewaters. <i>International Journal of Preventive Medicine</i> , 2014, 5, 887-94.	0.2	18
367	The physiological and ecological properties of bacterial persisters discovered from municipal sewage sludge and the potential risk. <i>Environmental Research</i> , 2022, 205, 112481.	3.7	7
368	Antibiotics in the soil and their effect on the soil microbiot. <i>Agroecological Journal</i> , 2021, , .	0.0	0
369	Quantum dots based sensitive nanosensors for detection of antibiotics in natural products: A review. <i>Science of the Total Environment</i> , 2022, 810, 151997.	3.9	47
370	Critical review on adsorptive removal of antibiotics: Present situation, challenges and future perspective. <i>Journal of Hazardous Materials</i> , 2022, 425, 127946.	6.5	160
371	Removal of pathogens from domestic wastewater by microalgal-bacterial systems under different cultivation conditions. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 10177-10188.	1.8	9
372	Implementation of Response Surface Methodology for Enhanced Production of Endoglucanase by Thermophilic <i>Aspergillus Fumigatus</i> . <i>BioScientific Review</i> , 2021, 3, .	0.0	0

#	ARTICLE	IF	CITATIONS
373	Probing Nanoscale Interactions of Antimicrobial Zinc Oxide Quantum Dots on Bacterial and Fungal Cell Surfaces. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	11
374	Assessment on impact of sewage in coastal pollution and distribution of fecal pathogenic bacteria with reference to antibiotic resistance in the coastal area of Cape Comorin, India. <i>Marine Pollution Bulletin</i> , 2022, 175, 113123.	2.3	5
375	Genome characterization of the novel lytic genome sequence of the phage YUEEL01 of the Myoviridae family. <i>Virus Research</i> , 2022, 309, 198670.	1.1	3
376	Performance Efficiency of Conventional Treatment Plants and Constructed Wetlands towards Reduction of Antibiotic Resistance. <i>Antibiotics</i> , 2022, 11, 114.	1.5	17
377	The binding characteristics of sediment-derived dissolved organic matter with ceftazidime: a microstructural and spectroscopic correlation study. <i>Environmental Science and Pollution Research</i> , 2022, 29, 30712-30723.	2.7	1
380	Spatial distribution of antibiotic resistance genes of the Zaoheâ€œWeihe Rivers, China: exerting a bottleneck in the hyporheic zone. <i>Environmental Science and Pollution Research</i> , 2022, 29, 38410-38424.	2.7	6
381	Occurrence of Antibiotics in the Different Biological Treatment Processes, Reclaimed Wastewater Treatment Plants and Effluent-Irrigated Soils. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
382	Selective Proliferation of Antibiotic-Resistant Bacteria in the Biological Treatment Process at a Municipal Wastewater Treatment Plant in India. <i>Journal of Environmental Engineering, ASCE</i> , 2022, 148, .	0.7	3
384	Application of Modified Polyurethane Foam by Dehpa to Remove Sulfamethoxazole from Aqueous Environments. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
385	Distribution and Transfer of Antibiotic Resistance Genes in Coastal Aquatic Ecosystems of Bohai Bay. <i>Water (Switzerland)</i> , 2022, 14, 938.	1.2	4
386	HPLC-FLD-Based Method for the Detection of Sulfonamides in Organic Fertilizers Collected from Poland. <i>Molecules</i> , 2022, 27, 2031.	1.7	11
387	Bacterial Hosts and Genetic Characteristics of Antibiotic Resistance Genes in Wastewater Treatment Plants of Xinjiang (China) Revealed by Metagenomics. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3100.	1.3	8
388	Antibiotic resistance pattern and molecular detection of ESBL-associated genes in <i>E. coli</i> from surface and wastewater of Islamabad capital territory, Pakistan. <i>Journal of Water and Health</i> , 2022, 20, 601-609.	1.1	4
389	Prevalence of Vancomycin-Resistant Enterococci and Antimicrobial Residues in Wastewater and Surface Water. <i>Life</i> , 2021, 11, 1403.	1.1	11
390	ANTIBIOTICS, ANTIBIOTIC RESISTANT BACTERIA AND ANTIBIOTIC RESISTANCE GENES â€œ EMERGING POLLUTANTS IN SURFACE WATERS AND ANTHROPOGENICALLY INFLUENCED WATERS. , 2021, 2021, 5-16.		0
391	Legacy and Emerging Pollutants in an Urban River Stretch and Effects on the Bacterioplankton Community. <i>Water (Switzerland)</i> , 2021, 13, 3402.	1.2	7
392	AntibiÃ³ticos de alto consumo en Colombia, excreciÃ³n en orina y presencia en aguas residuales â€œ una revisiÃ³n bibliogrÃ¡fica. <i>Ingenieria Y Competitividad</i> , 2021, 24, .	0.1	2
393	Occurrence of antibiotics in the different biological treatment processes, reclaimed wastewater treatment plants and effluent-irrigated soils. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107715.	3.3	14

#	ARTICLE	IF	CITATIONS
399	Antimicrobials and Antibiotic Resistance Genes in Water Bodies: Pollution, Risk, and Control. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	27
400	Coordination chemistry of metal-organic frameworks: Detection, adsorption, and photodegradation of tetracycline antibiotics and beyond. <i>Coordination Chemistry Reviews</i> , 2022, 464, 214562.	9.5	76
401	Heterogeneous UV disinfection aided by ZnO/Al <sub>2</sub> O <sub>3</sub> composites for inhibiting antibiotic resistant bacteria photoreactivation and gene recovery. <i>Environmental Science: Nano</i> , 2022, 9, 2488-2499.	2.2	3
402	Long Term Antibiotic Resistance Surveillance in Brazilian Wwtps Reveals Persistence of Bacteria Expressing Multidrug Resistance Phenotype in Final Effluents. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
403	Antibiotic resistant bacteria and genes in wastewater treatment plants: From occurrence to treatment strategies. <i>Science of the Total Environment</i> , 2022, 838, 156544.	3.9	24
404	Characterization of antibiotic resistance genes and bacteria in a municipal water resource recovery facility. <i>Water Environment Research</i> , 2022, 94, .	1.3	4
405	How heavy metal stress promotes dissemination of antibiotic resistance genes in the activated sludge process. <i>Journal of Hazardous Materials</i> , 2022, 437, 129279.	6.5	15
406	Transport of tetracycline in saturated porous media: combined functions of inorganic ligands and solution pH. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 1071-1081.	1.7	3
407	Antimicrobial Resistance in New Zealand—A One Health Perspective. <i>Antibiotics</i> , 2022, 11, 778.	1.5	2
408	Impact of eight widely consumed antibiotics on the growth and physiological profile of natural soil microbial communities. <i>Chemosphere</i> , 2022, 305, 135473.	4.2	14
409	Construction of a novel integrated electrochemical oxidation-coagulation system for simultaneous removal of suspended solids and antibiotics. <i>Chemical Engineering Journal</i> , 2022, 447, 137505.	6.6	13
410	Global Land-Use Development Trends: Traditional Cultural Landscapes Under Threat. <i>Landscape Series</i> , 2022, , 129-199.	0.1	2
411	Design and Development of Onsite Biofilter Unit for Effective Remediation of Contaminants from Wastewater. <i>Clean - Soil, Air, Water</i> , 0, , 2100396.	0.7	0
412	Monitoring the exposure and emissions of antibiotic resistance: Co-occurrence of antibiotics and resistance genes in wastewater treatment plants. <i>Journal of Water and Health</i> , 2022, 20, 1157-1170.	1.1	4
413	Antibiotic-Resistant Gene Behavior in Constructed Wetlands Treating Sewage: A Critical Review. <i>Sustainability</i> , 2022, 14, 8524.	1.6	8
414	Biogeographical variation in antimicrobial resistance in rivers is influenced by agriculture and is spread through bacteriophages. <i>Environmental Microbiology</i> , 2022, 24, 4869-4884.	1.8	4
415	The impact of sewage sludge processing on the safety of its use. <i>Scientific Reports</i> , 2022, 12, .	1.6	10
416	Current status and future perspective of antimicrobial-resistant bacteria and resistance genes in animal-breeding environments. <i>Journal of Veterinary Medical Science</i> , 2022, 84, 1292-1298.	0.3	4

#	ARTICLE	IF	CITATIONS
417	High Rates of Multidrug-Resistant <i>Escherichia coli</i> in Great Cormorants ( <i>Phalacrocorax carbo</i> ) of the German Baltic and North Sea Coasts: Indication of Environmental Contamination and a Potential Public Health Risk. <i>Pathogens</i> , 2022, 11, 836.	1.2	1
418	Next-generation Sequencing for Surveillance of Antimicrobial Resistance and Pathogenicity in Municipal Wastewater Treatment Plants. <i>Current Medicinal Chemistry</i> , 2023, 30, 5-29.	1.2	4
420	Evaluating the Biodegradation of Veterinary Antibiotics Using Kinetics Model and Response Surface Methodology. <i>Molecules</i> , 2022, 27, 5402.	1.7	2
421	The Resistome of ESKAPEE Pathogens in Untreated and Treated Wastewater: A Polish Case Study. <i>Biomolecules</i> , 2022, 12, 1160.	1.8	2
422	Distribution, sources, and potential risks of antibiotic resistance genes in wastewater treatment plant: A review. <i>Environmental Pollution</i> , 2022, 310, 119870.	3.7	29
423	Introduction to modular wastewater treatment system and its significance. , 2022, , 81-106.		0
424	Microbial Community Composition and Functions in Activated Sludge Treatment System. , 2022, , 187-206.		2
426	Occurrence of Antimicrobial-Resistant <i>Escherichia coli</i> in Marine Mammals of the North and Baltic Seas: Sentinels for Human Health. <i>Antibiotics</i> , 2022, 11, 1248.	1.5	4
427	Association of the efficiency of hemodialysis instruments in the removal of microbial and chemical pollutant. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	0
429	Research and Innovation Opportunities to Improve Epidemiological Knowledge and Control of Environmentally Driven Zoonoses. <i>Annals of Global Health</i> , 2022, 88, .	0.8	1
430	Plant Lectins: A Review on their Biotechnological Potential Toward Human Pathogens. <i>Current Protein and Peptide Science</i> , 2022, 23, 851-861.	0.7	3
431	Impact of Anthropogenic Activities on the Dissemination of ARGs in the Environment – A Review. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 12853.	1.2	10
432	Enteric Pathogenic and Multiple Antibiotic-Resistant <i>Escherichia coli</i> in Farmed Indian Major Carps and Their Environments in Peri-Urban Kolkata, India. <i>Journal of Aquatic Food Product Technology</i> , 0, , 1-17.	0.6	1
433	What Is in the Salad? <i>Escherichia coli</i> and Antibiotic Resistance in Lettuce Irrigated with Various Water Sources in Ghana. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 12722.	1.2	5
434	Detection and Quantification of Antimicrobial-Resistant Cells in Aquatic Environments by Bioorthogonal Noncanonical Amino Acid Tagging. <i>Environmental Science &amp; Technology</i> , 2022, 56, 15685-15694.	4.6	2
435	Review of the Distribution and Influence of Antibiotic Resistance Genes in Ballast Water. <i>Water (Switzerland)</i> , 2022, 14, 3501.	1.2	1
436	Antibiotic resistance profile of wastewater treatment plants in Brazil reveals different patterns of resistance and multi resistant bacteria in final effluents. <i>Science of the Total Environment</i> , 2023, 857, 159376.	3.9	7
437	Antibiotic resistant bacteria: A bibliometric review of literature. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	8



#	ARTICLE	IF	CITATIONS
438	Insights into the Domestic Wastewater Treatment (DWWT) Regimes: A Review. <i>Water (Switzerland)</i> , 2022, 14, 3542.	1.2	36
439	Sonochemical processes for antibiotics removal from water and wastewater: A systematic review. <i>Chemical Engineering Research and Design</i> , 2023, 189, 401-439.	2.7	5
440	Deciphering the antibiotic resistome and microbial community in municipal wastewater treatment plants at different elevations in eastern and western China. <i>Water Research</i> , 2023, 229, 119461.	5.3	13
441	Detection of carbapenemase- and ESBL-producing <i>Klebsiella pneumoniae</i> from bovine bulk milk and comparison with clinical human isolates in Italy. <i>International Journal of Food Microbiology</i> , 2023, 387, 110049.	2.1	4
442	Wastewater Surveillance for SARS-CoV-2 RNA in Canada. <i>Facets</i> , 2022, 7, 1493-1597.	1.1	5
443	Layered metal chalcogenide of SnSe nanosheets integrated with 2D-hexagonal boron nitride for accurate and low-level detection of nitrofurazone. <i>Chemical Engineering Journal</i> , 2023, 455, 140521.	6.6	22
444	A Low-Cost Electrochemical Method for the Determination of Sulfadiazine in Aquaculture Wastewater. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 16945.	1.2	4
445	Metagenomic insights into antibiotic resistance-related changes in microbial communities, resistome and mobilome under a modified A2/O treatment process for hospital sewage. <i>Journal of Environmental Chemical Engineering</i> , 2022, , 109216.	3.3	1
446	Nitrogen-doped porous carbon derived from graphite of solid waste for activating peroxymonosulfate to degradation tetracycline. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 662, 130984.	2.3	6
447	(Multivariate)-Metal-Organic Framework for Highly Efficient Antibiotic Capture from Aquatic Environmental Matrices. <i>ACS Applied Materials &amp; Interfaces</i> , 2023, 15, 3069-3076.	4.0	5
448	Insight into nanozymes for their environmental applications as antimicrobial and antifouling agents: Progress, challenges and prospects. <i>Nano Today</i> , 2023, 48, 101755.	6.2	23
449	Impact of antibiotics on agricultural microbiome: emergence of antibiotic resistance bacteria. , 2023, , 231-246.		1
450	Antibiotic-resistant bacteria in natural water bodies: causes, routes, and remedies. , 2023, , 203-229.		2
451	Development and spread of drug resistance through wastewater. , 2023, , 25-40.		0
452	Adsorptive removal of antibiotic pollutants from wastewater using biomass/biochar-based adsorbents. <i>RSC Advances</i> , 2023, 13, 4678-4712.	1.7	27
453	Wastewater treatment plant's tracking of resistant bacteria and gene in wastewater. , 2023, , 85-100.		0
454	Quantification and antibiotic resistance risk assessment of chlorination-residual viable/VBNC <i>Escherichia coli</i> and <i>Enterococcus</i> in on-site hospital wastewater treatment system. <i>Science of the Total Environment</i> , 2023, 872, 162139.	3.9	3
455	Efficacy Evaluation of Silty-Sandy Soil and <i>Chrysopogon zizanioides</i> to Attenuate Doxycycline from Wastewater in a Constructed Wetland System. <i>Journal of Environmental Engineering, ASCE</i> , 2023, 149, .	0.7	0

#	ARTICLE	IF	CITATIONS
456	The impact of endocrine disrupting compounds and carcinogens in wastewater: Implications for breast cancer. <i>Biochimie</i> , 2023, 209, 103-115.	1.3	14
457	Cu(II) assisted peroxymonosulfate for antibiotic resistant bacteria inactivation: A potential disinfection technology in swimming pool. <i>Science of the Total Environment</i> , 2023, 876, 162755.	3.9	5
458	Antibiotic Resistance Studies of <i>Pseudomonas aeruginosa</i> Harboring blaCTX-M-1-CTXM-82 and blaIMP-1/IMP-2 Encoding Genes from a Water Treatment Reservoir in South Eastern Nigeria. <i>Journal of Pharmacology and Toxicology</i> , 2023, 18, 104-111.	0.4	0
459	Microalgae systems - environmental agents for wastewater treatment and further potential biomass valorisation. <i>Journal of Environmental Management</i> , 2023, 337, 117678.	3.8	34
460	Insights into biodegradation of antibiotics during the biofilm-based wastewater treatment processes. <i>Journal of Cleaner Production</i> , 2023, 393, 136321.	4.6	22
461	Toxicity of emerging contaminant antibiotics in soil to <i>Capsicum annum</i> L. growth and their effects on it accumulating copper. <i>Plant Physiology and Biochemistry</i> , 2023, 196, 661-667.	2.8	1
462	Adsorption kinetics studies of ciprofloxacin in soils derived from volcanic materials by electrochemical approaches and assessment of socio-economic impact on human health.. <i>Chemosphere</i> , 2023, 321, 138144.	4.2	1
463	Occurrence of potential virulence determinants in <i>Aeromonas</i> spp. isolated from different aquatic environments. <i>Journal of Applied Microbiology</i> , 2023, 134, .	1.4	11
464	Polyfunctional Drugs: Search, Development, Use in Medical Practice, and Environmental Aspects of Preparation and Application (A Review). <i>Russian Journal of General Chemistry</i> , 2022, 92, 3030-3055.	0.3	1
465	Treatment innovation using solar/UV. , 2023, , 179-216.		0
466	Análisis del Ciclo de Madurez Tecnológica de Superficies Antibacterianas y Autolimpiantes a base de TiO <sub>2</sub> /ZnO. <i>Ciencia En Desarrollo</i> , 2022, 13, 115-127.	0.1	1
467	Waste recycling of antibiotic mycelial residue: The feasible harmless treatment and source control of antibiotic resistance. <i>Journal of Cleaner Production</i> , 2023, 401, 136786.	4.6	11
468	Beta-Lactam Susceptibility Profiles of Bacteria Isolated from the Ozama River in Santo Domingo, Dominican Republic. <i>Sustainability</i> , 2023, 15, 5109.	1.6	1
469	Microalgal Systems, a Green Solution for Wastewater Conventional Pollutants Removal, Disinfection, and Reduction of Antibiotic Resistance Genes Prevalence?. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 4266.	1.3	1
470	Post-treatment disinfection technologies for sustainable removal of antibiotic residues and antimicrobial resistance bacteria from hospital wastewater. <i>Heliyon</i> , 2023, 9, e15360.	1.4	7
471	Advancements in the dominion of fate and transport of pharmaceuticals and personal care products in the environment—a bibliometric study. <i>Environmental Science and Pollution Research</i> , 2023, 30, 64313-64341.	2.7	2
472	Ciprofloxacin- and azithromycin-resistant bacteria in a wastewater treatment plant. <i>Journal of Occupational and Environmental Hygiene</i> , 2023, 20, 219-225.	0.4	1
492	Applications of Carbon Dots in Drugs, Antibiotics and Toxin Sensing. , 2023, , 210-257.		0

#	ARTICLE	IF	CITATIONS
498	The Effects of Xenobiotics on Soil and Human Health. , 2023, , 209-223.		0
507	Fate of antibiotic resistance genes in organic wastes from sewage treatment plants in the framework of circular economy. , 2024, , 3-20.		0