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Water and wastewater disinfection by ultrasound irradiation - a critical review

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#	Paper	IF	Citations
31	Impact of pulsed ultrasound on bacteria reduction of natural waters. <i>Ultrasonics Sonochemistry</i> , <b>2015</b> , 27, 137-147	8.9	18
30	Genetic material present in hospital wastewaters: Evaluation of the efficiency of DNA denaturation by ozonolysis and ozonolysis/sonolysis treatments. <i>Journal of Environmental Management</i> , <b>2015</b> , 162, 74-80	7.9	14
29	Enhanced ozonation of selected pharmaceutical compounds by sonolysis. <i>Environmental Technology (United Kingdom)</i> , <b>2015</b> , 36, 1876-83	2.6	29
28	Bacteriological quality of effluent submitted consecutively to a macrofiltration and ultraviolet light systems in the Tunisian conditions. <i>Journal of Environmental Health Science &amp; Engineering</i> , <b>2015</b> , 13, 3	2.9	4
27	Sonophotocatalytic inactivation of E. coli using ZnO nanofluids and its mechanism. <i>Ultrasonics Sonochemistry</i> , <b>2017</b> , 34, 232-238	8.9	51
26	The issue of cavitation number value in studies of water treatment by hydrodynamic cavitation. <i>Ultrasonics Sonochemistry</i> , <b>2017</b> , 34, 51-59	8.9	101
25	Bacterial inactivation of liquid food and water using high-intensity alternate electric field. <i>Journal of Food Process Engineering</i> , <b>2017</b> , 40, e12504	2.4	4
24	Ozonation inactivation of Escherichia coli in aqueous solution over MgO nanocrystals: modelling and mechanism. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2018</b> , 93, 1648-1654	3.5	3
23	Floating Plants and Environmental Aspects. <b>2018</b> , 185-212		1
22	Rapid Evaluation of Integral Quality and Safety of Surface and Waste Waters by a Multisensor System (Electronic Tongue). <i>Sensors</i> , <b>2019</b> , 19,	3.8	8
21	Total coliform inactivation in natural water by UV/HO, UV/US, and UV/US/HO systems. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 4462-4473	5.1	4
20	Water disinfection by orifice-induced hydrodynamic cavitation. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 60, 104740	7.9	19
19	Direct contact ultrasound for fouling control and flux enhancement in air-gap membrane distillation. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 61, 104816	8.9	23
18	Application of Ultrasound Waves and Nano-Bubbles for Inactivation of Escherichia coli in Sludge. <i>Journal of Water Chemistry and Technology</i> , <b>2020</b> , 42, 94-100	0.4	
17	Sonochemical degradation of pesticides in aqueous solution: investigation on the influence of operating parameters and degradation pathway - a systematic review.. <i>RSC Advances</i> , <b>2020</b> , 10, 7396-7423	2.7	37
16	Preparation of chitosan modified montmorillonite biocomposite for sonocatalysis of dyes: Parameters and degradation mechanism. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 260, 124125	4.4	13
15	Combined ultrasound-ozone treatment for reutilization of primary effluent-a preliminary study. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 700-710	5.1	8

14	Ultrasound in the Processes of Treatment of Oil-Contaminated Waste: Overview. <i>Ecology and Industry of Russia</i> , <b>2021</b> , 25, 53-59	0.6	0
13	Ultrasound-assisted membrane technologies for fouling control and performance improvement: A review. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 43, 102268	6.7	8
12	Biologically treated industrial wastewater disinfection using synergy of US, LED-UVS, and oxidants. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 169, 108646	3.7	1
11	The Influence of Helium And Cavitation on the Yeast Life Process. <b>2021</b> ,		
10	Influence of Oxygen and Carbon Dioxide on Water Purification from Bacteria and Yeast Under Cavitation Conditions. <b>2020</b> ,		2
9	A systematic review of the sonophotocatalytic process for the decolorization of dyes in aqueous solution: Synergistic mechanisms, degradation pathways, and process optimization. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 44, 102314	6.7	5
8	Enhancing Disinfection of Contaminated Natural Water Using 40 kHz Frequency Cavitation Reactor. <i>Environmental Engineering Science</i> ,	2	1
7	The application of electrochemical processes in oily wastewater treatment: a review. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2021</b> , 1-14	2.3	0
6	Effects of ultrasonication on the DBP formation and toxicity during chlorination of saline wastewater effluents. <i>Journal of Environmental Sciences</i> , <b>2022</b> ,	6.4	1
5	Circulating flow hybrid ultrasonic and electrochemical process for the treatment of mineral oil wastewaters. <b>2022</b> , 49, 103024		
4	Sonochemical processes for antibiotics removal from water and wastewater: A systematic review. <b>2022</b> ,		0
3	DESTRUCTION OF YEAST UNDER CONDITIONS OF SIMULTANEOUS ACTION OF CAVITATION AND ARGON. <b>2022</b> , 19-22		0
2	Homogenous Sono-Fenton reaction can trigger long term bactericidal effect against <i>Acinetobacter baumannii</i> due to residual stress induced by reactive oxygen species. <b>2023</b> , 464, 142556		0
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