

# Claudio A Zaror

## List of Publications by Year in descending order

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96  
papers

3,233  
citations

172386

29  
h-index

161767

54  
g-index

98  
all docs

98  
docs citations

98  
times ranked

3930  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Ozone Treatment on Surface Properties of Activated Carbon. <i>Langmuir</i> , 2002, 18, 2111-2116.	1.6	385
2	Heat transfer and kinetics in the low temperature pyrolysis of solids. <i>Chemical Engineering Science</i> , 1984, 39, 147-158.	1.9	309
3	Degradation and inactivation of tetracycline by TiO <sub>2</sub> photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 184, 141-146.	2.0	285
4	Effects of pulp and paper mill effluents on the microplankton and microbial self-purification capabilities of the Biobío River, Chile. <i>Science of the Total Environment</i> , 2006, 359, 194-208.	3.9	113
5	Heterogeneous and homogeneous catalytic ozonation of benzothiazole promoted by activated carbon: Kinetic approach. <i>Chemosphere</i> , 2006, 65, 1131-1136.	4.2	110
6	Catalytic ozone aqueous decomposition promoted by natural zeolite and volcanic sand. <i>Journal of Hazardous Materials</i> , 2009, 165, 915-922.	6.5	96
7	Secondary char formation in the catalytic pyrolysis of biomass. <i>Fuel</i> , 1985, 64, 990-994.	3.4	94
8	Imidacloprid oxidation by photo-Fenton reaction. <i>Journal of Hazardous Materials</i> , 2008, 150, 679-686.	6.5	94
9	Role of surface hydroxyl groups of acid-treated natural zeolite on the heterogeneous catalytic ozonation of methylene blue contaminated waters. <i>Chemical Engineering Journal</i> , 2012, 211-212, 388-395.	6.6	78
10	State of the art of R&D in the anaerobic digestion process of municipal solid waste in Europe. <i>Bioresource Technology</i> , 1988, 16, 257-284.	0.3	77
11	Enhanced oxidation of toxic effluents using simultaneous ozonation and activated carbon treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 1997, 70, 21-28.	1.6	73
12	Arsenic Resistant Bacteria Isolated from Arsenic Contaminated River in the Atacama Desert (Chile). <i>Bulletin of Environmental Contamination and Toxicology</i> , 2009, 83, 657-661.	1.3	68
13	Heterogeneous catalytic ozonation of benzothiazole aqueous solution promoted by volcanic sand. <i>Journal of Hazardous Materials</i> , 2008, 153, 1036-1042.	6.5	65
14	A study of the particulate matter PM <sub>10</sub> composition in the atmosphere of Chillán, Chile. <i>Chemosphere</i> , 2004, 54, 541-550.	4.2	57
15	Ozonation of benzothiazole saturated-activated carbons: Influence of carbon chemical surface properties. <i>Journal of Hazardous Materials</i> , 2006, 137, 1042-1048.	6.5	57
16	<i>Pseudomonas arsenicoxydans</i> sp nov., an arsenite-oxidizing strain isolated from the Atacama desert. <i>Systematic and Applied Microbiology</i> , 2010, 33, 193-197.	1.2	54
17	Life-Cycle Assessment of coal-biomass based electricity in Chile: Focus on using raw vs torrefied wood. <i>Energy for Sustainable Development</i> , 2015, 29, 81-90.	2.0	51
18	Isolation of Arsenite-Oxidizing Bacteria from Arsenic-Enriched Sediments from Camarones River, Northern Chile. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2009, 82, 593-596.	1.3	45

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19	Natural zeolite reactivity towards ozone: The role of compensating cations. <i>Journal of Hazardous Materials</i> , 2012, 227-228, 34-40.	6.5	44
20	Ethylene adsorption onto natural and transition metal modified Chilean zeolite: An operando DRIFTS approach. <i>Microporous and Mesoporous Materials</i> , 2019, 274, 138-148.	2.2	42
21	Improving the value of sugarcane bagasse wastes via integrated chemical production systems: an environmentally friendly approach. <i>Industrial Crops and Products</i> , 2005, 21, 309-315.	2.5	40
22	Oxidative degradation of sulfathiazole by Fenton and photo-Fenton reactions. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014, 49, 661-670.	0.9	40
23	Oxidative regeneration of toluene-saturated natural zeolite by gaseous ozone: The influence of zeolite chemical surface characteristics. <i>Journal of Hazardous Materials</i> , 2014, 274, 212-220.	6.5	39
24	Exergoeconomic valuation of a waste-based integrated combined cycle (WICC) for heat and power production. <i>Energy</i> , 2016, 114, 239-252.	4.5	37
25	Development of a bienzymatic amperometric biosensor to determine uric acid in human serum, based on mesoporous silica (MCM-41) for enzyme immobilization. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 58-62.	4.0	36
26	Control of released volatile organic compounds from industrial facilities using natural and acid-treated mordenites: The role of acidic surface sites on the adsorption mechanism. <i>Chemical Engineering Journal</i> , 2014, 244, 117-127.	6.6	36
27	Degradation of naphthalenesulfonic acids by oxidation with ozone in aqueous phase. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 1129-1134.	1.3	35
28	Effect of ozone and ozone/activated carbon treatments on genotoxic activity of naphthalenesulfonic acids. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 883-890.	1.6	34
29	Chromate Reduction by <i>Serratia marcescens</i> Isolated From Tannery Effluent. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2005, 75, 400-406.	1.3	30
30	Kinetics and toxicity of direct reaction between ozone and 1,2-dihydrobenzene in dilute aqueous solution. <i>Water Science and Technology</i> , 2001, 43, 321-326.	1.2	29
31	Toxicity abatement and biodegradability enhancement of pulp mill bleaching effluent by advanced chemical oxidation. <i>Water Science and Technology</i> , 1999, 40, 337.	1.2	27
32	Isolation of arsenite-oxidizing bacteria from a natural biofilm associated to volcanic rocks of Atacama Desert, Chile. <i>Journal of Basic Microbiology</i> , 2009, 49, S93-7.	1.8	26
33	The pyrolysis of biomass: A general review. , 1982, 5, .		26
34	Dynamic modelling, simulation and control of continuous adsorption recycle extraction. <i>Chemical Engineering Science</i> , 1992, 47, 263-269.	1.9	25
35	Isolation, characterization and expression of a plasmid encoding chromate resistance in <i>Pseudomonas putida</i> KT2441. <i>Letters in Applied Microbiology</i> , 1998, 26, 367-371.	1.0	24
36	Modelling methanol recovery in wine distillation stills with packing columns. <i>Food Control</i> , 2011, 22, 1322-1332.	2.8	24

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37	Automatic control of food extrusion: problems and perspectives. Food Control, 1991, 2, 80-86.	2.8	23
38	Toxicity Abatement and Biodegradability Enhancement of Pulp Mill Bleaching Effluent by Advanced Chemical Oxidation. Water Science and Technology, 1999, 40, 337-342.	1.2	22
39	Advanced oxidation with ozone of 1,3,6-naphthalenetrisulfonic acid in aqueous solution. Journal of Chemical Technology and Biotechnology, 2002, 77, 148-154.	1.6	22
40	Environmental evidence of fossil fuel pollution in Laguna Chica de San Pedro lake sediments (Central Tj ETQq0 0 0,rgBT /Overlock 10 TF	3.7	19
41	Kinetic study of Imidacloprid removal by advanced oxidation based on photo-Fenton process. Environmental Technology (United Kingdom), 2010, 31, 1411-1416.	1.2	19
42	BTX abatement using Chilean natural zeolite: the role of Brønsted acid sites. Water Science and Technology, 2012, 66, 1759-1765.	1.2	19
43	Production of polygalacturonases from Kluyveromyces marxianus fermentation: preliminary process design and economics. Process Biochemistry, 1993, 28, 187-195.	1.8	18
44	Treatment of cellulose bleaching effluents and their filtration permeates by anodic oxidation with H <sub>2</sub> O <sub>2</sub> production. Journal of Chemical Technology and Biotechnology, 2015, 90, 2017-2026.	1.6	18
45	Title is missing!. Biotechnology Letters, 1997, 19, 241-244.	1.1	17
46	Arsenic Mobilization by Epilithic Bacterial Communities Associated with Volcanic Rocks from Camarones River, Atacama Desert, Northern Chile. Archives of Environmental Contamination and Toxicology, 2011, 61, 185-192.	2.1	17
47	Competitive reactions model for the pyrolysis of lignocellulose: A critical study. Journal of Analytical and Applied Pyrolysis, 1986, 10, 1-12.	2.6	16
48	Treatment of a Mixture of Chloromethoxyphenols in Hypochlorite Medium by Electrochemical AOPs as an Alternative for the Remediation of Pulp and Paper Mill Process Waters. Electrocatalysis, 2013, 4, 212-223.	1.5	16
49	Nitrifying Biomass Acclimation to High Ammonia Concentration. Journal of Environmental Engineering, ASCE, 2002, 128, 367-375.	0.7	15
50	Kinetic study of reactions between ozone and benzothiazole in water. Water Science and Technology, 2004, 48, 505-510.	1.2	14
51	Environmental impact profile of electricity generation in Chile: A baseline study over two decades. Renewable and Sustainable Energy Reviews, 2018, 94, 154-167.	8.2	14
52	Mathematical modelling of an ohmic heating steriliser. Journal of Food Engineering, 1993, 19, 33-53.	2.7	13
53	Simulating the performance of a control system for food extruders using model-based set-point adjustment. Food Control, 1995, 6, 135-141.	2.8	13
54	Methylene blue removal from contaminated waters using O <sub>3</sub> , natural zeolite, and O <sub>3</sub> /zeolite. Water Science and Technology, 2009, 60, 1419-1424.	1.2	13

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55	Ozonation of 1,2-dihydroxybenzene in the presence of activated carbon. <i>Water Science and Technology</i> , 2001, 44, 125-130.	1.2	12
56	Ozonation of 1-Naphthalene, 1,5-Naphthalene, and 3-Nitrobenzene Sulphonic Acids in Aqueous Solutions. <i>Environmental Technology (United Kingdom)</i> , 2002, 23, 373-380.	1.2	12
57	Catalytic Ozonation of Toluene Using Chilean Natural Zeolite: The Key Role of Brønsted and Lewis Acid Sites. <i>Catalysts</i> , 2018, 8, 211.	1.6	12
58	Influence of Chemical Surface Characteristics of Natural Zeolite on Catalytic Ozone Abatement. <i>Ozone: Science and Engineering</i> , 2011, 33, 279-284.	1.4	11
59	Development of a Bionzymatic Amperometric Glucose Biosensor Using Mesoporous Silica (MCM41) for Enzyme Immobilization and Its Application on Liquid Pharmaceutical Formulations. <i>Electroanalysis</i> , 2013, 25, 308-315.	1.5	11
60	Comparative assessment of sustainable development in South American countries on the basis of the Sustainable Society Index. <i>International Journal of Sustainable Development and World Ecology</i> , 2019, 26, 90-98.	3.2	11
61	Contaminación del Aire Atmosférico por Material Particulado en una Ciudad Intermedia: El Caso de Chillán (Chile). <i>Informacion Tecnológica (discontinued)</i> , 2007, 18, .	0.1	10
62	Title is missing!. <i>Hydrobiologia</i> , 2001, 443, 187-191.	1.0	9
63	Combined Physical-Chemical and Biological Treatment of Poorly Biodegradable Industrial Effluents. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2003, 38, 2201-2208.	0.9	9
64	Heterogeneous catalytic ozonation of cationic dyes using volcanic sand. <i>Water Science and Technology</i> , 2010, 61, 2973-2978.	1.2	9
65	Effect of Zeolite Chemical Surface Properties on Catalytic Ozonation of Methylene Blue Contaminated Waters. <i>Ozone: Science and Engineering</i> , 2010, 32, 344-348.	1.4	9
66	Methylene blue removal from contaminated waters using heterogeneous catalytic ozonation promoted by natural zeolite: mechanism and kinetic approach. <i>Environmental Technology (United Kingdom)</i> , 2002, 23, 1071-1076.	1.2	9
67	Analysis of Aerosol Particles and Coarse Particulate Matter Concentrations in Chillán, Chile, 2001-2003. <i>Journal of the Air and Waste Management Association</i> , 2006, 56, 152-158.	0.9	8
68	Effect of temperature on Imidacloprid oxidation by homogeneous photo-Fenton processes. <i>Water Science and Technology</i> , 2008, 58, 259-265.	1.2	8
69	Adsorption of Kluyveromyces marxianus pectinase on CM-Sephadex gels. <i>Enzyme and Microbial Technology</i> , 1993, 15, 906-915.	1.6	7
70	Detection of Chlorinated Phenols in Kraft Pulp Bleaching Effluents Using DmpR Mutant Strains. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2004, 73, 666-73.	1.3	7
71	Coupling of Photocatalytic and Biological Reactors to Remove EDTA-Fe from Aqueous Solution. <i>Environmental Technology (United Kingdom)</i> , 2007, 28, 123-127.	1.2	7
72	Effect of Simultaneous Ozone and Activated Carbon Treatment on 1,2-Dihydroxybenzene Genotoxic Effects. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2000, 64, 59-65.	1.3	6

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73	Natural Zeolite Reactivity Towards Ozone: The Role of Acid Surface Sites. Journal of Advanced Oxidation Technologies, 2011, 14, .	0.5	6
74	Phenylmercury degradation by heterogeneous photocatalysis assisted by UV-A light. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 1642-1648.	0.9	6
75	CHEMICAL CHARACTERIZATION OF THE INHALABLE PARTICULATE MATTER IN CITY OF CHILLAN, CHILE. Journal of the Chilean Chemical Society, 2003, 48, .	0.5	6
76	The effect of solar energy on the environmental profile of electricity generation in Chile: a midterm scenario. International Journal of Energy Production and Management, 2018, 3, 110-121.	1.9	5
77	Removal of Benzothiazole from Contaminated Waters by Ozonation: The Role of Direct and Indirect Ozone Reactions. Journal of Advanced Oxidation Technologies, 2016, 19, .	0.5	4
78	A Procedure for Feasible and Optimal Operational Strategies for Control of CARE Systems. Journal of Chemical Technology and Biotechnology, 1997, 69, 254-260.	1.6	3
79	Impacto del tratamiento con ozono sobre las propiedades superficiales del carbón activado. Ingeniare, 2011, 19, 174-185.	0.1	3
80	Ammonia emissions from livestock production in Chile: an inventory and uncertainty analysis. Journal of Soil Science and Plant Nutrition, 2016, , 0-0.	1.7	3
81	DEGRADATION OF EDTA IN A TOTAL CHLORINE FREE CELLULOSE PULP BLEACHING EFFLUENT BY UV/H2O2 TREATMENT. Journal of the Chilean Chemical Society, 2007, 52, .	0.5	3
82	Monitoring Phenolic Compounds During Biological Treatment of Kraft Pulp Mill Effluent Using Bacterial Biosensors. Bulletin of Environmental Contamination and Toxicology, 2006, 77, 383-390.	1.3	2
83	Enhanced oxidation of toxic effluents using simultaneous ozonation and activated carbon treatment. Journal of Chemical Technology and Biotechnology, 1997, 70, 21-28.	1.6	2
84	INFLUENCIA DE LA COMPOSICIÓN QUÍMICA SUPERFICIAL DEL CARBÓN ACTIVADO EN LA ADSORCIÓN DE BENZOTIAZOLES. Ingeniare, 2010, 18, .	0.1	2
85	Ozonation of 1,2-dihydroxybenzene in the presence of activated carbon. Water Science and Technology, 2001, 44, 125-30.	1.2	2
86	ELIMINACIÓN DE COLORANTES CATIONICOS USANDO OZONO, ZEOLITA NATURAL Y OZONO/ZEOLITA. Ingeniare, 2009, 17, .	0.1	1
87	Membrane treatment of alkaline bleaching effluents from elementary chlorine free kraft softwood cellulose production. Environmental Technology (United Kingdom), 2015, 36, 890-900.	1.2	1
88	Role of oxygen-containing functional surface groups of activated carbons on the elimination of 2-hydroxybenzothiazole from waters in A hybrid heterogeneous ozonation system. Journal of Advanced Oxidation Technologies, 2017, 20, .	0.5	1
89	Catalytic Ozonation of Toluene over Acidic Surface Transformed Natural Zeolite: A Dual-Site Reaction Mechanism and Kinetic Approach. Catalysts, 2021, 11, 958.	1.6	1
90	EVIDENTIAL CHROMATE BIREDUCTION BY CAPILLARY ZONE ELECTROPHORESIS. Journal of the Chilean Chemical Society, 2006, 51, .	0.5	1

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91	Electrochemical Treatment of Segregated Effluents from the D-Stage in ECF Kraft Cellulose Bleaching. Journal of Advanced Oxidation Technologies, 2011, 14, .	0.5	0
92	Advanced Electrochemical Oxidation of Ultrafiltration Permeates from Cellulose Bleaching Effluents. Journal of Advanced Oxidation Technologies, 2012, 15, .	0.5	0
93	Influence of Volcanic Sand Surface Hydroxyl Groups on the Heterogeneous Catalytic Ozonation of Methylene Blue Contaminated Waters. Journal of Advanced Oxidation Technologies, 2012, 15, .	0.5	0
94	The Life Cycle Sustainability Indicators for Electricity Generation in Chile: Challenges in the Use of Primary Information. , 2022, , 229-239.		0
95	Kinetics and toxicity of direct reaction between ozone and 1,2-dihydrobenzene in dilute aqueous solution. Water Science and Technology, 2001, 43, 321-6.	1.2	0
96	Promoviendo el trabajo colaborativo y retroalimentación en un programa de postgrado multidisciplinario. Revista De Estudios Y Experiencias En Educación, 2022, 21, 475-495.	0.1	0