

Benito J Marias

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6455920/benito-j-marias-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

10,094
citations

40
h-index

100
g-index

104
ext. papers

11,164
ext. citations

10.6
avg, IF

6.06
L-index

#	Paper	IF	Citations
103	Science and technology for water purification in the coming decades. <i>Nature</i> , 2008 , 452, 301-10	50.4	5633
102	Lewis-Acid-Catalyzed Interfacial Polymerization of Covalent Organic Framework Films. <i>Chem</i> , 2018 , 4, 308-317	16.2	227
101	Toxic impact of bromide and iodide on drinking water disinfected with chlorine or chloramines. <i>Environmental Science & Technology</i> , 2014 , 48, 12362-9	10.3	163
100	Pore blockage effect of NOM on atrazine adsorption kinetics of PAC: the roles of PAC pore size distribution and NOM molecular weight. <i>Water Research</i> , 2003 , 37, 4863-72	12.5	155
99	Inactivation of <i>Cryptosporidium parvum</i> oocysts with ozone. <i>Water Research</i> , 1999 , 33, 2481-2488	12.5	153
98	Kinetics of <i>Escherichia coli</i> inactivation with ozone. <i>Water Research</i> , 1997 , 31, 1355-1362	12.5	145
97	Development and Performance Characterization of a Polyimine Covalent Organic Framework Thin-Film Composite Nanofiltration Membrane. <i>Environmental Science & Technology</i> , 2017 , 51, 14352-14359	10.3	125
96	Occurrence and Comparative Toxicity of Haloacetaldehyde Disinfection Byproducts in Drinking Water. <i>Environmental Science & Technology</i> , 2015 , 49, 13749-59	10.3	123
95	Quantification of functional groups and modeling of their ionization behavior in the active layer of FT30 reverse osmosis membrane. <i>Environmental Science & Technology</i> , 2008 , 42, 5260-6	10.3	123
94	Depth heterogeneity of fully aromatic polyamide active layers in reverse osmosis and nanofiltration membranes. <i>Environmental Science & Technology</i> , 2011 , 45, 4513-20	10.3	113
93	Physico-chemical characterization of NF/RO membrane active layers by Rutherford backscattering spectrometry?. <i>Journal of Membrane Science</i> , 2006 , 282, 71-81	9.6	102
92	Waterborne Viruses: A Barrier to Safe Drinking Water. <i>PLoS Pathogens</i> , 2015 , 11, e1004867	7.6	102
91	Inactivation of <i>Escherichia coli</i> with ozone: chemical and inactivation kinetics. <i>Water Research</i> , 1999 , 33, 2633-2641	12.5	98
90	Absorption of water in the active layer of reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2009 , 331, 143-151	9.6	91
89	Sequential inactivation of <i>Cryptosporidium parvum</i> oocysts with ozone and free chlorine. <i>Water Research</i> , 2000 , 34, 3591-3597	12.5	79
88	Science and technology for water purification in the coming decades 2009 , 337-346		78
87	Inactivation of bacteriophage MS2 with potassium ferrate(VI). <i>Environmental Science & Technology</i> , 2012 , 46, 12079-87	10.3	74

86	Ionization behavior, stoichiometry of association, and accessibility of functional groups in the active layers of reverse osmosis and nanofiltration membranes. <i>Environmental Science & Technology</i> , 2010 , 44, 6808-14	10.3	74
85	Effects of powdered activated carbon pore size distribution on the competitive adsorption of aqueous atrazine and natural organic matter. <i>Environmental Science & Technology</i> , 2008 , 42, 1227-31	10.3	69
84	Inactivation of <i>Bacillus subtilis</i> spores with ozone and monochloramine. <i>Water Research</i> , 2003 , 37, 833-44	12.5	68
83	Synergy in sequential inactivation of <i>Cryptosporidium parvum</i> with ozone/free chlorine and ozone/monochloramine. <i>Water Research</i> , 2000 , 34, 4121-4130	12.5	68
82	Role of Chlorine and Oxygen in the Photocatalytic Degradation of Trichloroethylene Vapor on TiO ₂ Films. <i>Environmental Science & Technology</i> , 1997 , 31, 562-568	10.3	63
81	Bromamine decomposition kinetics in aqueous solutions. <i>Environmental Science & Technology</i> , 2004 , 38, 2111-9	10.3	62
80	Formation of Cyanogen Chloride from the Reaction of Monochloramine with Formaldehyde. <i>Environmental Science & Technology</i> , 1999 , 33, 4239-4249	10.3	62
79	Nanofiltration Membranes Based on Rigid Star Amphiphiles. <i>Chemistry of Materials</i> , 2007 , 19, 3194-3204	9.6	61
78	Treatment of coliphage MS2 with palladium-modified nitrogen-doped titanium oxide photocatalyst illuminated by visible light. <i>Environmental Science & Technology</i> , 2008 , 42, 6148-53	10.3	59
77	Inactivation of <i>Cryptosporidium parvum</i> oocysts with ozone and monochloramine at low temperature. <i>Water Research</i> , 2001 , 35, 41-8	12.5	58
76	Inactivation of <i>Bacillus subtilis</i> spores and formation of bromate during ozonation. <i>Water Research</i> , 2001 , 35, 2950-60	12.5	58
75	Inactivation of <i>Cryptosporidium parvum</i> oocysts with ozone and free chlorine. <i>Water Research</i> , 2002 , 36, 4053-63	12.5	56
74	Reverse osmosis treatment of multicomponent electrolyte solutions. <i>Journal of Membrane Science</i> , 1992 , 72, 211-229	9.6	56
73	Physico-chemical integrity of nanofiltration/reverse osmosis membranes during characterization by Rutherford backscattering spectrometry. <i>Journal of Membrane Science</i> , 2007 , 291, 77-85	9.6	55
72	Growth dynamics of interfacially polymerized polyamide layers by diffuse reflectance spectroscopy and Rutherford backscattering spectrometry. <i>Journal of Membrane Science</i> , 2013 , 429, 71-80	9.6	52
71	Nanofiltration Membranes with Modified Active Layer Using Aromatic Polyamide Dendrimers. <i>Advanced Functional Materials</i> , 2013 , 23, 598-607	15.6	49
70	Mammalian cell DNA damage and repair kinetics of monohaloacetic acid drinking water disinfection by-products. <i>Environmental Science & Technology</i> , 2009 , 43, 8437-42	10.3	43
69	Removal of biological and non-biological viral surrogates by spiral-wound reverse osmosis membrane elements with intact and compromised integrity. <i>Water Research</i> , 2004 , 38, 3821-32	12.5	43

68	Role of disinfectant concentration and pH in the inactivation kinetics of <i>Cryptosporidium parvum</i> oocysts with ozone and monochloramine. <i>Environmental Science & Technology</i> , 2001 , 35, 2752-7	10.3	43
67	Chloroacetonitrile and <i>n</i> ,2-dichloroacetamide formation from the reaction of chloroacetaldehyde and monochloramine in water. <i>Environmental Science & Technology</i> , 2013 , 47, 12382-90	10.3	42
66	Mechanistic aspects of adenovirus serotype 2 inactivation with free chlorine. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 2946-54	4.8	42
65	Role of Water in the Photocatalytic Degradation of Trichloroethylene Vapor on TiO ₂ Films. <i>Environmental Science & Technology</i> , 1997 , 31, 1440-1445	10.3	42
64	Effect of exposure to UV-C irradiation and monochloramine on adenovirus serotype 2 early protein expression and DNA replication. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 3774-82	4.8	41
63	Toxicity of drinking water disinfection byproducts: cell cycle alterations induced by the monohaloacetonitriles. <i>Environmental Science & Technology</i> , 2014 , 48, 11662-9	10.3	40
62	Kinetics of bromochloramine formation and decomposition. <i>Environmental Science & Technology</i> , 2014 , 48, 2843-52	10.3	40
61	Kinetics of adenovirus type 2 inactivation with free chlorine. <i>Water Research</i> , 2009 , 43, 2916-26	12.5	40
60	Adsorption of trace organic compounds in CRISTAL processes. <i>Desalination</i> , 1998 , 117, 265-271	10.3	40
59	Reducing the Pore Size of Covalent Organic Frameworks in Thin-Film Composite Membranes Enhances Solute Rejection 2019 , 1, 440-446		38
58	Modeling the effect of charge density in the active layers of reverse osmosis and nanofiltration membranes on the rejection of arsenic(III) and potassium iodide. <i>Environmental Science & Technology</i> , 2013 , 47, 420-8	10.3	37
57	Sequential inactivation of <i>Cryptosporidium parvum</i> oocysts with chlorine dioxide followed by free chlorine or monochloramine. <i>Water Research</i> , 2002 , 36, 178-88	12.5	37
56	Simplification of the IAST for activated carbon adsorption of trace organic compounds from natural water. <i>Water Research</i> , 2007 , 41, 440-8	12.5	35
55	Competitive effects of natural organic matter: parametrization and verification of the three-component adsorption model COMPSORB. <i>Environmental Science & Technology</i> , 2006 , 40, 350-6	10.3	35
54	Three-component competitive adsorption model for flow-through PAC systems. 1. Model development and verification with a PAC/membrane system. <i>Environmental Science & Technology</i> , 2003 , 37, 2997-3004	10.3	35
53	Inactivation kinetics of adenovirus serotype 2 with monochloramine. <i>Water Research</i> , 2008 , 42, 1467-74	12.5	34
52	Modeling <i>Cryptosporidium parvum</i> oocyst inactivation and bromate formation in a full-scale ozone contactor. <i>Environmental Science & Technology</i> , 2005 , 39, 9343-50	10.3	34
51	Simultaneous prediction of <i>Cryptosporidium parvum</i> oocyst inactivation and bromate formation during ozonation of synthetic waters. <i>Environmental Science & Technology</i> , 2004 , 38, 2232-41	10.3	33

50	Modified Indigo Method For Gaseous And Aqueous Ozone Analyses. <i>Ozone: Science and Engineering</i> , 1995 , 17, 329-344	2.4	32
49	Partitioning of salt ions in FT30 reverse osmosis membranes. <i>Applied Physics Letters</i> , 2007 , 91, 181904	3.4	31
48	Three-component competitive adsorption model for fixed-bed and moving-bed granular activated carbon adsorbers. Part I. Model development. <i>Environmental Science & Technology</i> , 2006 , 40, 6805-11	10.3	30
47	Displacement effect of NOM on atrazine adsorption by PACs with different pore size distributions. <i>Environmental Science & Technology</i> , 2002 , 36, 1510-5	10.3	30
46	Bromide ion effect on N-nitrosodimethylamine formation by monochloramine. <i>Environmental Science & Technology</i> , 2012 , 46, 5085-92	10.3	29
45	Inactivation of Mycobacterium avium with free chlorine. <i>Environmental Science & Technology</i> , 2007 , 41, 5096-102	10.3	29
44	Modeling Cryptosporidium parvum oocyst inactivation and bromate in a flow-through ozone contactor treating natural water. <i>Water Research</i> , 2007 , 41, 467-75	12.5	29
43	Acetonitrile and N-Chloroacetamide Formation from the Reaction of Acetaldehyde and Monochloramine. <i>Environmental Science & Technology</i> , 2015 , 49, 9954-63	10.3	27
42	RBS characterization of arsenic(III) partitioning from aqueous phase into the active layers of thin-film composite NF/RO membranes. <i>Environmental Science & Technology</i> , 2007 , 41, 3290-5	10.3	27
41	A Bayesian method of estimating kinetic parameters for the inactivation of Cryptosporidium parvum oocysts with chlorine dioxide and ozone. <i>Water Research</i> , 2003 , 37, 4533-43	12.5	26
40	Chemically activated carbon on a fiberglass substrate for removal of trace atrazine from water. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3375-3380		25
39	Enhancing the performance of nanofiltration membranes by modifying the active layer with aramide dendrimers. <i>Environmental Science & Technology</i> , 2012 , 46, 9592-9	10.3	24
38	Atrazine removal by powdered activated carbon in floc blanket reactors. <i>Water Research</i> , 2000 , 34, 4070-4080	12.5	24
37	Performance characterization of nanofiltration membranes based on rigid star amphiphiles. <i>Environmental Science & Technology</i> , 2007 , 41, 6246-52	10.3	23
36	Analysis of the viral replication cycle of adenovirus serotype 2 after inactivation by free chlorine. <i>Environmental Science & Technology</i> , 2015 , 49, 4584-90	10.3	22
35	Effect of pore-blocking background compounds on the kinetics of trace organic contaminant desorption from activated carbon. <i>Environmental Science & Technology</i> , 2008 , 42, 4825-30	10.3	22
34	Improving membrane integrity monitoring indirect methods to reduce plant downtime and increase microbial removal credit. <i>Desalination</i> , 2002 , 149, 493-497	10.3	22
33	Application of a three-component competitive adsorption model to evaluate and optimize granular activated carbon systems. <i>Water Research</i> , 2007 , 41, 3289-98	12.5	20

32	Predominant N-Haloacetamide and Haloacetonitrile Formation in Drinking Water via the Aldehyde Reaction Pathway. <i>Environmental Science & Technology</i> , 2019 , 53, 850-859	10.3	20
31	Inactivation of Mycobacterium avium with chlorine dioxide. <i>Water Research</i> , 2008 , 42, 1531-8	12.5	19
30	Inactivation of Cryptosporidium Oocysts in a Pilot-Scale Ozone Bubble-Diffuser Contactor. I: Model Development. <i>Journal of Environmental Engineering, ASCE</i> , 2002 , 128, 514-521	2	19
29	Inactivation of Mycobacterium avium with monochloramine. <i>Environmental Science & Technology</i> , 2008 , 42, 8051-6	10.3	18
28	Changes in physicochemical and transport properties of a reverse osmosis membrane exposed to chloraminated seawater. <i>Environmental Science & Technology</i> , 2015 , 49, 2301-9	10.3	17
27	Three-component competitive adsorption model for fixed-bed and moving-bed granular activated carbon adsorbers. Part II. Model parameterization and verification. <i>Environmental Science & Technology</i> , 2006 , 40, 6812-7	10.3	17
26	Adenovirus Replication Cycle Disruption from Exposure to Polychromatic Ultraviolet Irradiation. <i>Environmental Science & Technology</i> , 2018 , 52, 3652-3659	10.3	15
25	Effect of strongly competing background compounds on the kinetics of trace organic contaminant desorption from activated carbon. <i>Environmental Science & Technology</i> , 2008 , 42, 2606-11	10.3	15
24	Microbial passage in low pressure membrane elements with compromised integrity. <i>Environmental Science & Technology</i> , 2005 , 39, 4270-9	10.3	14
23	Desalination of municipal wastewater for horticultural reuse: Process description and evaluation. <i>Desalination</i> , 1995 , 103, 1-10	10.3	14
22	Three-component adsorption modeling to evaluate and improve integrated sorption-membrane processes. <i>Environmental Science & Technology</i> , 2007 , 41, 6547-53	10.3	12
21	Cyanogen bromide formation from the reactions of monobromamine and dibromamine with cyanide ion. <i>Environmental Science & Technology</i> , 2006 , 40, 2559-64	10.3	12
20	Three-component competitive adsorption model for flow-through PAC systems. 2. Model application to a PAC/membrane system. <i>Environmental Science & Technology</i> , 2003 , 37, 3005-11	10.3	12
19	Stoichiometry and kinetics of the reaction of nitrite with free chlorine in aqueous solutions. <i>Environmental Science & Technology</i> , 1990 , 24, 1711-1716	10.3	12
18	Inactivation of Cryptosporidium Oocysts in a Pilot-Scale Ozone Bubble-Diffuser Contactor. II: Model Validation and Application. <i>Journal of Environmental Engineering, ASCE</i> , 2002 , 128, 522-532	2	11
17	Isotopic fractionation and overall permeation of lithium by a thin-film composite polyamide reverse osmosis membrane. <i>Journal of Membrane Science</i> , 1994 , 88, 231-241	9.6	8
16	Direct detection of human adenovirus or SARS-CoV-2 with ability to inform infectivity using DNA aptamer-nanopore sensors. <i>Science Advances</i> , 2021 , 7, eabh2848	14.3	8
15	Characterizing Bacteriophage PR772 as a Potential Surrogate for Adenovirus in Water Disinfection: A Comparative Analysis of Inactivation Kinetics and Replication Cycle Inhibition by Free Chlorine. <i>Environmental Science & Technology</i> , 2016 , 50, 2522-9	10.3	7

14	The hydroxide-assisted hydrolysis of cyanogen chloride in aqueous solution. <i>Water Research</i> , 2001 , 35, 643-8	12.5	7
13	Desalination of agricultural drainage return water. Part II: Analysis of the performance of a 13,000 GDP RO unit. <i>Desalination</i> , 1987 , 61, 263-274	10.3	7
12	Development and performance characterization of a polyamide nanofiltration membrane modified with covalently bonded aramide dendrimers. <i>Environmental Science & Technology</i> , 2013 , 47, 8642-9	10.3	6
11	Inactivation Kinetics and Replication Cycle Inhibition of Adenovirus by Monochloramine. <i>Environmental Science and Technology Letters</i> , 2016 , 3, 185-189	11	6
10	Reconciling DLVO and non-DLVO Forces and Their Implications for Ion Rejection by a Polyamide Membrane. <i>Langmuir</i> , 2017 , 33, 8982-8992	4	5
9	Development of a Ct equation taking into consideration the effect of lot variability on the inactivation of <i>Cryptosporidium parvum</i> oocysts with ozone. <i>Water Research</i> , 2005 , 39, 2429-37	12.5	4
8	Cytotoxicity analysis of water disinfection byproducts with a micro-pillar microfluidic device. <i>Lab on A Chip</i> , 2012 , 12, 3891-900	7.2	3
7	Atom Probe Tomography of Encapsulated Hydroxyapatite Nanoparticles.. <i>Small Methods</i> , 2021 , 5, e2000698	12.8	3
6	Internalization of Fluoride in Hydroxyapatite Nanoparticles. <i>Environmental Science & Technology</i> , 2021 , 55, 2639-2651	10.3	3
5	Atomic-scale Observation of Hydroxyapatite Nanoparticle. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2528-2529	12.5	3
4	Inactivation of Coxsackievirus by Chlorine, Silver, and Solar Disinfection for Safe Global Water. <i>Proceedings of the Water Environment Federation</i> , 2011 , 2011, 64-71		
3	Assessment of Suitable Drinking Water Technologies for Disinfection of DNA Viruses: Providing Global Safe Water. <i>Proceedings of the Water Environment Federation</i> , 2011 , 2011, 80-83		
2	Improving the Control of Viral Pathogens By Pou Technologies Used in Developing Regions. <i>Proceedings of the Water Environment Federation</i> , 2009 , 2009, 195-201		
1	Inside Front Cover: Atom Probe Tomography of Encapsulated Hydroxyapatite Nanoparticles (Small Methods 2/2021). <i>Small Methods</i> , 2021 , 5, 2170004	12.8	