

Benito J Marias

List of Publications by Year in Descending Order

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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	Atom Probe Tomography of Encapsulated Hydroxyapatite Nanoparticles.. <i>Small Methods</i> , 2021 , 5, e2000698	12.8	3
102	Internalization of Fluoride in Hydroxyapatite Nanoparticles. <i>Environmental Science & Technology</i> , 2021 , 55, 2639-2651	10.3	3
101	Inside Front Cover: Atom Probe Tomography of Encapsulated Hydroxyapatite Nanoparticles (Small Methods 2/2021). <i>Small Methods</i> , 2021 , 5, 2170004	12.8	
100	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
99	Reducing the Pore Size of Covalent Organic Frameworks in Thin-Film Composite Membranes Enhances Solute Rejection 2019 , 1, 440-446		38
98	Atomic-scale Observation of Hydroxyapatite Nanoparticle. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2528-2529	10.3	5
97	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
96	Adenovirus Replication Cycle Disruption from Exposure to Polychromatic Ultraviolet Irradiation. <i>Environmental Science & Technology</i> , 2018 , 52, 3652-3659	10.3	15
95	Lewis-Acid-Catalyzed Interfacial Polymerization of Covalent Organic Framework Films. <i>Chem</i> , 2018 , 4, 308-317	16.2	227
94	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
93	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
92	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
91	Inactivation Kinetics and Replication Cycle Inhibition of Adenovirus by Monochloramine. <i>Environmental Science and Technology Letters</i> , 2016 , 3, 185-189	11	6
90	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
89	Acetonitrile and N-Chloroacetamide Formation from the Reaction of Acetaldehyde and Monochloramine. <i>Environmental Science & Technology</i> , 2015 , 49, 9954-63	10.3	27
88	Occurrence and Comparative Toxicity of Haloacetaldehyde Disinfection Byproducts in Drinking Water. <i>Environmental Science & Technology</i> , 2015 , 49, 13749-59	10.3	123
87	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

86	Waterborne Viruses: A Barrier to Safe Drinking Water. <i>PLoS Pathogens</i> , 2015 , 11, e1004867	7.6	102
85	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
84	Kinetics of bromochloramine formation and decomposition. <i>Environmental Science & Technology</i> , 2014 , 48, 2843-52	10.3	40
83	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
82	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
81	Chloroacetonitrile and n,2-dichloroacetamide formation from the reaction of chloroacetaldehyde and monochloramine in water. <i>Environmental Science & Technology</i> , 2013 , 47, 12382-90	10.3	42
80	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
79	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
78	Nanofiltration Membranes with Modified Active Layer Using Aromatic Polyamide Dendrimers. <i>Advanced Functional Materials</i> , 2013 , 23, 598-607	15.6	49
77	Inactivation of bacteriophage MS2 with potassium ferrate(VI). <i>Environmental Science & Technology</i> , 2012 , 46, 12079-87	10.3	74
76	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
75	Bromide ion effect on N-nitrosodimethylamine formation by monochloramine. <i>Environmental Science & Technology</i> , 2012 , 46, 5085-92	10.3	29
74	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
73	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
72	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		
71	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		
70	Mechanistic aspects of adenovirus serotype 2 inactivation with free chlorine. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 2946-54	4.8	42
69	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

68	Absorption of water in the active layer of reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2009 , 331, 143-151	9.6	91
67	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
66	Kinetics of adenovirus type 2 inactivation with free chlorine. <i>Water Research</i> , 2009 , 43, 2916-26	12.5	40
65	Science and technology for water purification in the coming decades 2009 , 337-346		78
64	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		
63	Science and technology for water purification in the coming decades. <i>Nature</i> , 2008 , 452, 301-10	50.4	5633
62	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
61	Inactivation kinetics of adenovirus serotype 2 with monochloramine. <i>Water Research</i> , 2008 , 42, 1467-74	12.5	34
60	Inactivation of Mycobacterium avium with chlorine dioxide. <i>Water Research</i> , 2008 , 42, 1531-8	12.5	19
59	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
58	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
57	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
56	Inactivation of Mycobacterium avium with monochloramine. <i>Environmental Science & Technology</i> , 2008 , 42, 8051-6	10.3	18
55	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
54	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
53	Three-component adsorption modeling to evaluate and improve integrated sorption-membrane processes. <i>Environmental Science & Technology</i> , 2007 , 41, 6547-53	10.3	12
52	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
51	Performance characterization of nanofiltration membranes based on rigid star amphiphiles. <i>Environmental Science & Technology</i> , 2007 , 41, 6246-52	10.3	23

50	Inactivation of <i>Mycobacterium avium</i> with free chlorine. <i>Environmental Science & Technology</i> , 2007 , 41, 5096-102	10.3	29
49	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
48	Partitioning of salt ions in FT30 reverse osmosis membranes. <i>Applied Physics Letters</i> , 2007 , 91, 181904	3.4	31
47	Modeling <i>Cryptosporidium parvum</i> oocyst inactivation and bromate in a flow-through ozone contactor treating natural water. <i>Water Research</i> , 2007 , 41, 467-75	12.5	29
46	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
45	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
44	Nanofiltration Membranes Based on Rigid Star Amphiphiles. <i>Chemistry of Materials</i> , 2007 , 19, 3194-3204	9.6	61
43	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
42	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
41	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
40	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
39	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
38	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
37	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
36	Microbial passage in low pressure membrane elements with compromised integrity. <i>Environmental Science & Technology</i> , 2005 , 39, 4270-9	10.3	14
35	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
34	Bromamine decomposition kinetics in aqueous solutions. <i>Environmental Science & Technology</i> , 2004 , 38, 2111-9	10.3	62
33	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

32	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
31	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
30	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
29	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
28	Inactivation of <i>Bacillus subtilis</i> spores with ozone and monochloramine. <i>Water Research</i> , 2003 , 37, 833-44	2.5	68
27	A Bayesian method of estimating kinetic parameters for the inactivation of <i>Cryptosporidium parvum</i> oocysts with chlorine dioxide and ozone. <i>Water Research</i> , 2003 , 37, 4533-43	12.5	26
26	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
25	Inactivation of <i>Cryptosporidium</i> 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
24	Inactivation of <i>Cryptosporidium</i> 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
23	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
22	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
21	Inactivation of <i>Cryptosporidium parvum</i> oocysts with ozone and free chlorine. <i>Water Research</i> , 2002 , 36, 4053-63	12.5	56
20	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
19	The hydroxide-assisted hydrolysis of cyanogen chloride in aqueous solution. <i>Water Research</i> , 2001 , 35, 643-8	12.5	7
18	Inactivation of <i>Bacillus subtilis</i> spores and formation of bromate during ozonation. <i>Water Research</i> , 2001 , 35, 2950-60	12.5	58
17	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
16	Sequential inactivation of <i>Cryptosporidium parvum</i> oocysts with ozone and free chlorine. <i>Water Research</i> , 2000 , 34, 3591-3597	12.5	79
15	Atrazine removal by powdered activated carbon in floc blanket reactors. <i>Water Research</i> , 2000 , 34, 4070-4080	12.5	24

14	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
13	Inactivation of <i>Escherichia coli</i> with ozone: chemical and inactivation kinetics. <i>Water Research</i> , 1999 , 33, 2633-2641	12.5	98
12	Inactivation of <i>Cryptosporidium parvum</i> oocysts with ozone. <i>Water Research</i> , 1999 , 33, 2481-2488	12.5	153
11	Formation of Cyanogen Chloride from the Reaction of Monochloramine with Formaldehyde. <i>Environmental Science & Technology</i> , 1999 , 33, 4239-4249	10.3	62
10	Adsorption of trace organic compounds in CRISTAL [®] processes. <i>Desalination</i> , 1998 , 117, 265-271	10.3	40
9	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
8	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
7	Kinetics of <i>Escherichia coli</i> inactivation with ozone. <i>Water Research</i> , 1997 , 31, 1355-1362	12.5	145
6	Modified Indigo Method For Gaseous And Aqueous Ozone Analyses. <i>Ozone: Science and Engineering</i> , 1995 , 17, 329-344	2.4	32
5	Desalination of municipal wastewater for horticultural reuse: Process description and evaluation. <i>Desalination</i> , 1995 , 103, 1-10	10.3	14
4	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
3	Reverse osmosis treatment of multicomponent electrolyte solutions. <i>Journal of Membrane Science</i> , 1992 , 72, 211-229	9.6	56
2	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
1	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