

Leonardo Gutierrez

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,199
citations

218381

26
h-index

223531

46
g-index

54
all docs

54
docs citations

54
times ranked

2557
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of pharmaceutical and personal care products (PPCPs) from wastewater using microalgae: A review. <i>Journal of Hazardous Materials</i> , 2021, 403, 124041.	6.5	262
2	Impact of solution chemistry on viral removal by a single-walled carbon nanotube filter. <i>Water Research</i> , 2010, 44, 3773-3780.	5.3	134
3	Influence of Surface Properties of Filtration-Layer Metal Oxide on Ceramic Membrane Fouling during Ultrafiltration of Oil/Water Emulsion. <i>Environmental Science & Technology</i> , 2016, 50, 4668-4674.	4.6	123
4	Adsorption of rotavirus and bacteriophage MS2 using glass fiber coated with hematite nanoparticles. <i>Water Research</i> , 2009, 43, 5198-5208.	5.3	112
5	A review of nanoparticle-enhanced membrane distillation membranes: membrane synthesis and applications in water treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2757-2771.	1.6	104
6	Hydroxyl and sulfate radical-based oxidation of RhB dye in UV/H ₂ O ₂ and UV/persulfate systems: Kinetics, mechanisms, and comparison. <i>Chemosphere</i> , 2020, 253, 126655.	4.2	102
7	Roles of singlet oxygen and triplet excited state of dissolved organic matter formed by different organic matters in bacteriophage MS2 inactivation. <i>Water Research</i> , 2013, 47, 4869-4879.	5.3	98
8	Deposition and Aggregation Kinetics of Rotavirus in Divalent Cation Solutions. <i>Environmental Science & Technology</i> , 2010, 44, 4552-4557.	4.6	78
9	Influence of Salts and Natural Organic Matter on the Stability of Bacteriophage MS2. <i>Langmuir</i> , 2010, 26, 1035-1042.	1.6	74
10	Organic matter interactions with natural manganese oxide and synthetic birnessite. <i>Science of the Total Environment</i> , 2017, 583, 487-495.	3.9	68
11	Removal of metronidazole from aqueous media by <i>C. vulgaris</i> . <i>Journal of Hazardous Materials</i> , 2020, 384, 121400.	6.5	65
12	Kinetic Study of Seawater Reverse Osmosis Membrane Fouling. <i>Environmental Science & Technology</i> , 2013, 47, 10884-10894.	4.6	62
13	Photobleaching-induced changes in photosensitizing properties of dissolved organic matter. <i>Water Research</i> , 2014, 66, 140-148.	5.3	54
14	Fouling-resistant PVDF nanofibre membranes for the desalination of brackish water in membrane distillation. <i>Separation and Purification Technology</i> , 2019, 228, 115793.	3.9	50
15	The RNA core weakly influences the interactions of the bacteriophage MS2 at key environmental interfaces. <i>Soft Matter</i> , 2011, 7, 10449.	1.2	48
16	Interactions between Rotavirus and Suwannee River Organic Matter: Aggregation, Deposition, and Adhesion Force Measurement. <i>Environmental Science & Technology</i> , 2012, 46, 8705-8713.	4.6	47
17	Enhanced flux in direct contact membrane distillation using superhydrophobic PVDF nanofibre membranes embedded with organically modified SiO ₂ nanoparticles. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2826-2837.	1.6	44
18	Superhydrophobic PVDF nanofibre membranes coated with an organic fouling resistant hydrophilic active layer for direct-contact membrane distillation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 575, 363-372.	2.3	44

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19	Citrate-Coated Silver Nanoparticles Interactions with Effluent Organic Matter: Influence of Capping Agent and Solution Conditions. <i>Langmuir</i> , 2015, 31, 8865-8872.	1.6	41
20	Impact of DOM source and character on the degradation of primidone by UV/chlorine: Reaction kinetics and disinfection by-product formation. <i>Water Research</i> , 2020, 172, 115463.	5.3	35
21	The influence of enterprise risk management on firm performance with the moderating effect of intellectual capital dimensions. <i>Economic Research-Ekonomska Istrazivanja</i> , 2021, 34, 122-151.	2.6	35
22	Reactivity of chromophoric dissolved organic matter (CDOM) to sulfate radicals: Reaction kinetics and structural transformation. <i>Water Research</i> , 2019, 163, 114846.	5.3	33
23	Green synthesis of silver nanoparticles using one-pot and microwave-assisted methods and their subsequent embedment on PVDF nanofibre membranes for growth inhibition of mesophilic and thermophilic bacteria. <i>New Journal of Chemistry</i> , 2019, 43, 4168-4180.	1.4	33
24	Molecular insights into the reactivity of aquatic natural organic matter towards hydroxyl ($\text{OH}\cdot$) and sulfate ($\text{SO}_4^{\cdot-}$) radicals using FT-ICR MS. <i>Chemical Engineering Journal</i> , 2021, 425, 130622.	6.6	33
25	Coating of AFM probes with aquatic humic and non-humic NOM to study their adhesion properties. <i>Water Research</i> , 2013, 47, 3109-3119.	5.3	32
26	f-MWCNTs/AgNPs-coated superhydrophobic PVDF nanofibre membrane for organic, colloidal, and biofouling mitigation in direct contact membrane distillation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103654.	3.3	31
27	Adsorption of phenolic compounds by polyacrylonitrile nanofibre membranes: A pretreatment for the removal of hydrophobic bearing compounds from water. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103254.	3.3	27
28	Secondary treated domestic wastewater in reverse electrodialysis: What is the best pre-treatment?. <i>Separation and Purification Technology</i> , 2019, 218, 25-42.	3.9	26
29	Natural organic matter interactions with polyamide and polysulfone membranes: Formation of conditioning film. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 477, 1-8.	2.3	25
30	Key physicochemical characteristics governing organic micropollutant adsorption and transport in ion-exchange membranes during reverse electrodialysis. <i>Desalination</i> , 2019, 468, 114084.	4.0	25
31	Investigation of severe UF membrane fouling induced by three marine algal species. <i>Water Research</i> , 2016, 93, 10-19.	5.3	23
32	Effect of pH on the transport and adsorption of organic micropollutants in ion-exchange membranes in electrodialysis-based desalination. <i>Separation and Purification Technology</i> , 2020, 252, 117487.	3.9	22
33	Perfluorooctyltriethoxy silane and carbon nanotubes-modified PVDF superoleophilic nanofibre membrane for oil-in-water adsorption and recovery. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104497.	3.3	21
34	$\text{SO}_4^{\cdot-}$ -based catalytic ceramic UF membrane for organics removal and flux restoration. <i>Chemical Engineering Journal</i> , 2020, 398, 125600.	6.6	18
35	The characteristics of organic matter influence its interfacial interactions with MnO_2 and catalytic oxidation processes. <i>Chemosphere</i> , 2018, 209, 950-959.	4.2	17
36	Fate of organic micropollutants in reverse electrodialysis: Influence of membrane fouling and channel clogging. <i>Desalination</i> , 2021, 512, 115114.	4.0	16

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37	Interactions between Rotavirus and Natural Organic Matter Isolates with Different Physicochemical Characteristics. <i>Langmuir</i> , 2013, 29, 14460-14468.	1.6	15
38	Transport of uncharged organics in ion-exchange membranes: experimental validation of the solution-diffusion model. <i>Journal of Membrane Science</i> , 2018, 564, 773-781.	4.1	14
39	Synthesis and characterisation of non-ionic AB-diblock nanoparticles prepared by RAFT dispersion polymerization with polymerization-induced self-assembly. <i>RSC Advances</i> , 2016, 6, 28130-28139.	1.7	13
40	Interfacial interactions between <i>Skeletonema costatum</i> extracellular organic matter and metal oxides: Implications for ceramic membrane filtration. <i>Water Research</i> , 2017, 116, 194-202.	5.3	13
41	Colloidal stability of capped silver nanoparticles in natural organic matter-containing electrolyte solutions. <i>NanoImpact</i> , 2020, 19, 100242.	2.4	13
42	Transport of organic solutes in ion-exchange membranes: Mechanisms and influence of solvent ionic composition. <i>Water Research</i> , 2021, 190, 116756.	5.3	12
43	Hydrophilic interaction liquid chromatography method for measuring the composition of aquatic humic substances. <i>Analytica Chimica Acta</i> , 2015, 853, 608-616.	2.6	10
44	Light-response adsorption and desorption behaviors of metal-organic frameworks. , 2022, 1, 49-66.		10
45	Population and building vulnerability assessment by possible worst-case tsunami scenarios in Salinas, Ecuador. <i>Natural Hazards</i> , 2018, 93, 275-297.	1.6	7
46	Impact of operation conditions, foulant adsorption, and chemical cleaning on the nanomechanical properties of ultrafiltration hollow fiber membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 549, 34-42.	2.3	6
47	Non-steady diffusion and adsorption of organic micropollutants in ion-exchange membranes: effect of the membrane thickness. <i>IScience</i> , 2021, 24, 102095.	1.9	6
48	Cross-sectional analysis of fouled SWRO membranes by STEM-EDS. <i>Desalination</i> , 2014, 333, 118-125.	4.0	5
49	Characterization of <i>Skeletonema costatum</i> intracellular organic matter and study of nanomechanical properties under different solution conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 154-161.	2.3	5
50	Water as the Pore Former in the Synthesis of Hydrophobic PVDF Flat Sheet Membranes for Use in Membrane Distillation. <i>Hydro Science & Marine Engineering</i> , 2019, 1, .	0.1	3
51	Interactions between model organic compounds and metal oxides. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 625, 126858.	2.3	2
52	Nanomechanical characterization of recalcitrant foulants and hollow fiber membranes in ultrafiltration systems. , 0, 136, 49-64.		2
53	Bio-mediated synthesis of silver nanoparticles via conventional and irradiation-assisted methods and their application for environmental remediation in agriculture. , 2022, , 219-239.		1
54	Tsunami damage estimation in Esmeraldas, Ecuador using fragility functions. <i>AIMS Geosciences</i> , 2021, 7, 669-694.	0.4	0