

# Marco AntÃ³nio Siqueira Rodrigues

## List of Publications by Year in descending order

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Version: 2024-02-01

95  
papers

2,405  
citations

186265

28  
h-index

254184

43  
g-index

98  
all docs

98  
docs citations

98  
times ranked

2752  
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of Organic Micropollutants from Treated Municipal Wastewater by O <sub>3</sub> /UV/H <sub>2</sub> O <sub>2</sub> in a UVA-LED Reactor. <i>Ozone: Science and Engineering</i> , 2022, 44, 172-181.	2.5	8
2	Electrodialysis reversal applied to tertiary treatment of Kraft pulp mill effluent. <i>Chemical Engineering Communications</i> , 2021, 208, 1436-1449.	2.6	1
3	A critical review on SARS-CoV-2 infectivity in water and wastewater. What do we know?. <i>Science of the Total Environment</i> , 2021, 774, 145721.	8.0	97
4	The Effect of pH on Atenolol/Nanofiltration Membranes Affinity. <i>Membranes</i> , 2021, 11, 689.	3.0	5
5	Membranes for Heavy Metals Removal. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 135-156.	0.5	1
6	Mineralization of erythromycin by UV-based and electro-oxidation processes. <i>Journal of Water Process Engineering</i> , 2020, 33, 101039.	5.6	14
7	Experimental Design as a Tool for Optimizing and Predicting the Nanofiltration Performance by Treating Antibiotic-Containing Wastewater. <i>Membranes</i> , 2020, 10, 156.	3.0	19
8	Assessment of susceptibility to landslides through geographic information systems and the logistic regression model. <i>Natural Hazards</i> , 2020, 103, 497-511.	3.4	19
9	Natural rubber composites with Grits waste from cellulose industry. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 1126-1139.	3.0	8
10	Electrodialysis reversal as an alternative treatment for producing drinking water from brackish river water: A case study in the dry season, northeastern Brazil. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103719.	6.7	19
11	Antibiotics mineralization by electrochemical and UV-based hybrid processes: evaluation of the synergistic effect. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3456-3466.	2.2	12
12	Characterization of aqueous streams in a petrochemical industry: A study for the reuse of industrial effluents. <i>Journal of Water Process Engineering</i> , 2019, 27, 99-109.	5.6	8
13	Phytotoxicity and genotoxicity evaluation of 2,4,6-tribromophenol solution treated by UV-based oxidation processes. <i>Environmental Pollution</i> , 2019, 249, 354-361.	7.5	13
14	Electrooxidation Using Nb/BDD as Post-Treatment of a Reverse Osmosis Concentrate in the Petrochemical Industry. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 816.	2.6	10
15	Concentration effect and operational parameters on electrodialysis reversal efficiency applied for fluoride removal in groundwater. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103491.	6.7	15
16	Using p-Si/BDD anode for the electrochemical oxidation of norfloxacin. <i>Journal of Electroanalytical Chemistry</i> , 2019, 832, 112-120.	3.8	54
17	Thin films of Ag@Au nanoparticles dispersed in TiO <sub>2</sub> : influence of composition and microstructure on the LSPR and SERS responses. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 205102.	2.8	30
18	Increasing water recovery rate of membrane hybrid process on the petrochemical wastewater treatment. <i>Chemical Engineering Research and Design</i> , 2018, 117, 152-158.	5.6	38

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19	Water and wastewater minimization in a petrochemical industry through mathematical programming. <i>Journal of Cleaner Production</i> , 2018, 172, 1814-1822.	9.3	41
20	Nanofiltration for the removal of norfloxacin from pharmaceutical effluent. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 6147-6153.	6.7	66
21	Constructed floating wetland for the treatment of domestic sewage: A real-scale study. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5706-5711.	6.7	65
22	Electrodialysis for the tertiary treatment of municipal wastewater: Efficiency of ion removal and ageing of ion exchange membranes. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5855-5869.	6.7	38
23	The role of the anode material and water matrix in the electrochemical oxidation of norfloxacin. <i>Chemosphere</i> , 2018, 210, 615-623.	8.2	46
24	Impedance Analysis of Polyaniline in Comparison with Some Conventional Solid Electrolytes. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7764-7774.	2.6	6
25	Closing the loop in the electroplating industry by electrodialysis. <i>Journal of Cleaner Production</i> , 2017, 155, 130-138.	9.3	45
26	Application of reverse osmosis to petrochemical industry wastewater treatment aimed at water reuse. <i>Management of Environmental Quality</i> , 2017, 28, 70-77.	4.3	17
27	Electrochemical enhanced photocatalysis to the 2,4,6 Tribromophenol flame retardant degradation. <i>Journal of Catalysis</i> , 2017, 351, 136-145.	6.2	15
28	Effect of tannery effluent on oxidative status of brain structures and liver of rodents. <i>Environmental Science and Pollution Research</i> , 2017, 24, 15689-15699.	5.3	5
29	Coupling coagulation using tannin-based product with electrodialysis reversal to water treatment: A case study. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 6008-6015.	6.7	16
30	Effects of tannery wastewater exposure on adult <i>Drosophila melanogaster</i> . <i>Environmental Science and Pollution Research</i> , 2017, 24, 26387-26395.	5.3	2
31	Toxicity elimination of landfill leachate by hybrid processing of advanced oxidation process and adsorption. <i>Environmental Technology and Innovation</i> , 2017, 8, 246-255.	6.1	47
32	Influence of the co-ions on the transport of sulfate through anion exchange membranes. <i>Journal of Membrane Science</i> , 2017, 542, 320-328.	8.2	15
33	Evaluation of acute toxicity, cytotoxicity and genotoxicity of landfill leachate treated by biological lagoon and advanced oxidation processes. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 6188-6193.	6.7	23
34	The effect of the UV photon flux on the photoelectrocatalytic degradation of endocrine-disrupting alkylphenolic chemicals. <i>Environmental Science and Pollution Research</i> , 2016, 23, 19237-19245.	5.3	8
35	Recycling of Post-Consumer HDPE Drug Packaging with Banana Pseudostem Fiber. <i>Macromolecular Symposia</i> , 2016, 367, 119-125.	0.7	2
36	Wastewater reuse in a cascade based system of a petrochemical industry for the replacement of losses in cooling towers. <i>Journal of Environmental Management</i> , 2016, 181, 157-162.	7.8	20

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37	Electrical conductivity of sulfonated poly(ether ether ketone) based composite membranes containing sulfonated polyhedral oligosilsesquioxane. <i>Journal of Power Sources</i> , 2016, 305, 54-63.	7.8	21
38	Functional behaviour of TiO <sub>2</sub> films doped with noble metals. <i>Surface Engineering</i> , 2016, 32, 554-561.	2.2	14
39	Avaliação integrada da qualidade química e da genotoxicidade da Água do arroio Luiz Rau, no trecho inferior da Bacia do Rio dos Sinos, no Sul do Brasil. <i>Revista Ambiente &amp; Água</i> , 2016, 11, 867.	0.3	5
40	Degradation of cyanotoxins (microcystin) in drinking water using photoelectrooxidation. <i>Brazilian Journal of Biology</i> , 2015, 75, 45-49.	0.9	5
41	Water quality assessment of the Sinos River – RS, Brazil. <i>Brazilian Journal of Biology</i> , 2015, 75, 62-67.	0.9	17
42	Evaluation of water quality at the source of streams of the Sinos River Basin, southern Brazil. <i>Brazilian Journal of Biology</i> , 2015, 75, 98-104.	0.9	18
43	Integrated Environmental Assessment of streams in the Sinos River basin in the state of Rio Grande do Sul, Brazil. <i>Brazilian Journal of Biology</i> , 2015, 75, 105-113.	0.9	15
44	Evaluation of phytotoxicity of municipal landfill leachate before and after biological treatment. <i>Brazilian Journal of Biology</i> , 2015, 75, 57-62.	0.9	26
45	Toxicity effects of nickel electroplating effluents treated by photoelectrooxidation in the industries of the Sinos River Basin. <i>Brazilian Journal of Biology</i> , 2015, 75, 17-24.	0.9	10
46	Concentrations of PM <sub>2.5-10</sub> and PM <sub>2.5</sub> and metallic elements around the Schmidt Stream area, in the Sinos River Basin, southern Brazil. <i>Brazilian Journal of Biology</i> , 2015, 75, 43-52.	0.9	11
47	Membrane separation processes applied to the treatment of effluents from nanoceramic coating operations. <i>Desalination and Water Treatment</i> , 2015, 55, 28-38.	1.0	9
48	Thin films composed of gold nanoparticles dispersed in a dielectric matrix: The influence of the host matrix on the optical and mechanical responses. <i>Thin Solid Films</i> , 2015, 596, 8-17.	1.8	28
49	Multifunctional Ti/Me (Me=Al, Cu) thin film systems for biomedical sensing devices. <i>Vacuum</i> , 2015, 122, 353-359.	3.5	20
50	Biological behaviour of thin films consisting of Au nanoparticles dispersed in a TiO <sub>2</sub> dielectric matrix. <i>Vacuum</i> , 2015, 122, 360-368.	3.5	20
51	Microstructural evolution of Au/TiO <sub>2</sub> nanocomposite films: The influence of Au concentration and thermal annealing. <i>Thin Solid Films</i> , 2015, 580, 77-88.	1.8	43
52	Ag <sub>y</sub> :TiN <sub>x</sub> thin films for dry biopotential electrodes: the effect of composition and structural changes on the electrical and mechanical behaviours. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 169-178.	2.3	2
53	Thin films composed of Ag nanoclusters dispersed in TiO <sub>2</sub> : Influence of composition and thermal annealing on the microstructure and physical responses. <i>Applied Surface Science</i> , 2015, 358, 595-604.	6.1	28
54	The influence of nitrogen and oxygen additions on the thermal characteristics of aluminium-based thin films. <i>Materials Chemistry and Physics</i> , 2015, 163, 569-580.	4.0	7

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55	Optical properties of zirconium oxynitride films: The effect of composition, electronic and crystalline structures. <i>Applied Surface Science</i> , 2015, 358, 660-669.	6.1	19
56	The effect of sanitary landfill leachate aging on the biological treatment and assessment of photoelectrooxidation as a pre-treatment process. <i>Waste Management</i> , 2015, 36, 177-183.	7.4	63
57	Treatment of solutions containing nonylphenol ethoxylate by photoelectrooxidation. <i>Chemosphere</i> , 2015, 119, S101-S108.	8.2	20
58	Evolution of the functional properties of titanium-silver thin films for biomedical applications: Influence of in-vacuum annealing. <i>Surface and Coatings Technology</i> , 2015, 261, 262-271.	4.8	19
59	Integration of membrane bioreactor and advanced oxidation processes for water recovery in leather industry. <i>Desalination and Water Treatment</i> , 2015, 56, 1712-1721.	1.0	19
60	Editorial note. <i>Brazilian Journal of Biology</i> , 2015, 75, .	0.9	0
61	Editorial note. <i>Brazilian Journal of Biology</i> , 2015, 75, 1-1.	0.9	1
62	Electrodialysis Treatment of Nickel Wastewater. , 2014, , 133-144.		2
63	Cytotoxic and genotoxic evaluation and chemical characterization of sewage treated using activated sludge and a floating emergent-macrophyte filter in a municipal wastewater treatment plant: a case study in Southern Brazil. <i>Environmental Earth Sciences</i> , 2014, 72, 1503.	2.7	10
64	Recovery of nickel and water from nickel electroplating wastewater by electrodialysis. <i>Separation and Purification Technology</i> , 2014, 129, 106-112.	7.9	124
65	Nitrate reduction of brines from water desalination plants by membrane electrolysis. <i>Journal of Membrane Science</i> , 2014, 451, 276-284.	8.2	42
66	Exposition to tannery wastewater did not alter behavioral and biochemical parameters in Wistar rats. <i>Physiology and Behavior</i> , 2014, 129, 160-166.	2.1	23
67	Dielectric Measurements of Polymer Electrolyte Based Composites as a Technique for Evaluation of Membrane Homogeneity. <i>Electrochimica Acta</i> , 2014, 136, 457-465.	5.2	5
68	Electrodialysis in an Integrated NF/ED Process for Water Recovery in the Leather Industry. <i>Separation Science and Technology</i> , 2013, 48, 445-454.	2.5	8
69	Sodium isopropyl xanthate degradation by advanced oxidation processes. <i>Minerals Engineering</i> , 2013, 45, 88-93.	4.3	59
70	Water recovery from acid mine drainage by electrodialysis. <i>Minerals Engineering</i> , 2013, 40, 82-89.	4.3	119
71	Toxicological evaluation of landfill leachate using plant ( <i>Allium cepa</i> ) and fish ( <i>Leporinus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlocl 3.9 20		
72	Genotoxic Potential and Physicochemical Parameters of Sinos River, Southern Brazil. <i>Scientific World Journal</i> , The, 2013, 2013, 1-6.	2.1	13

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73	Evaluation of genotoxicity and cytotoxicity of treated tannery wastewater in southern Brazil. <i>International Journal of Environmental Technology and Management</i> , 2012, 15, 114.	0.2	6
74	Effect of landfill leachate on oxidative stress of brain structures and liver from rodents: Modulation by photoelectrooxidation process. <i>Ecotoxicology and Environmental Safety</i> , 2012, 84, 319-324.	6.0	16
75	Tratamento de efluentes de eletrodeposição de niquel por fotoeletrooxidação. <i>Revista Escola De Minas</i> , 2012, 65, 349-356.	0.1	1
76	Desenvolvimento de membranas e filmes auto-suportados a partir de polianilina: síntese, caracterização e aplicação. <i>Polimeros</i> , 2011, 21, 259-264.	0.7	2
77	Anxiety-like behaviour in mice exposed to tannery wastewater: The effect of photoelectrooxidation treatment. <i>Neurotoxicology and Teratology</i> , 2011, 33, 481-484.	2.4	46
78	A multibiomarker approach in rats to assess the impact of pollution on Sinos River, Southern Brazil. <i>Brazilian Journal of Biology</i> , 2010, 70, 1223-1230.	0.9	12
79	Water quality assessment of the Sinos River, Southern Brazil. <i>Brazilian Journal of Biology</i> , 2010, 70, 1185-1193.	0.9	58
80	Evaluation of Sinos River water genotoxicity using the comet assay in fish. <i>Brazilian Journal of Biology</i> , 2010, 70, 1217-1222.	0.9	56
81	The Rio dos Sinos watershed: an economic and social space and its interface with environmental status. <i>Brazilian Journal of Biology</i> , 2010, 70, 1131-1136.	0.9	29
82	Transport of Metallic Ions through Polyaniline-Containing Composite Membranes. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 4801-4807.	1.9	17
83	The effect of production method on the properties of high impact polystyrene and polyaniline membranes. <i>Journal of Membrane Science</i> , 2009, 330, 227-232.	8.2	16
84	Application of photoelectrochemical electro dialysis treatment for the recovery and reuse of water from tannery effluents. <i>Journal of Cleaner Production</i> , 2008, 16, 605-611.	9.3	84
85	High-impact polystyrene/polyaniline membranes for acid solution treatment by electro dialysis: Preparation, evaluation, and chemical calculation. <i>Journal of Colloid and Interface Science</i> , 2008, 320, 52-61.	9.4	39
86	On the molecular properties of polyaniline: A comprehensive theoretical study. <i>Polymer</i> , 2008, 49, 5169-5176.	3.8	53
87	Purification of spent chromium bath by membrane electrolysis. <i>Journal of Hazardous Materials</i> , 2008, 152, 960-967.	12.4	25
88	Transport of zinc complexes through an anion exchange membrane. <i>Desalination</i> , 2008, 227, 241-252.	8.2	17
89	Evaluation of changes on ion-selective membranes in contact with zinc-cyanide complexes. <i>Journal of Membrane Science</i> , 2006, 279, 140-147.	8.2	20
90	Development of polyurethane/polyaniline membranes for zinc recovery through electro dialysis. <i>Desalination</i> , 2005, 186, 199-206.	8.2	45

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91	Synthesis and characterisation of high impact polystyrene/polyaniline composite membranes for electro dialysis. <i>Journal of Membrane Science</i> , 2004, 234, 139-145.	8.2	63
92	Influence of ligand exchange on the treatment of trivalent chromium solutions by electro dialysis. <i>Electrochimica Acta</i> , 2001, 47, 753-758.	5.2	33
93	Transport of Trivalent and Hexavalent Chromium through Different Ion-Selective Membranes in Acidic Aqueous Media. <i>Separation Science and Technology</i> , 1998, 33, 1135-1143.	2.5	47
94	Evaluation of the Influence of PU/EVA Waste-Based Lightweight Aggregates on the Physical Properties of Alkali-Activated Mortars. <i>Key Engineering Materials</i> , 0, 634, 278-287.	0.4	3
95	Industrial reuse of petrochemical effluents: A case study of ultrafiltration and reverse osmosis. <i>Ciência E Natura</i> , 0, 44, e19.	0.0	1