

# Humberto Jorge JosÃ©

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

3,105  
citations

201575

27  
h-index

168321

53  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4114  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of photocatalytic degradation of reactive dyes in a TiO <sub>2</sub> slurry reactor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 149, 147-154.	2.0	414
2	Simultaneous photocatalytic Cr(VI) reduction and dye oxidation in a TiO <sub>2</sub> slurry reactor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 147, 71-76.	2.0	175
3	Treatment of textile wastewater by heterogeneous Fenton process using a new composite Fe <sub>2</sub> O <sub>3</sub> /carbon. <i>Chemical Engineering Journal</i> , 2006, 118, 77-82.	6.6	160
4	Removal of pharmaceutical compounds in membrane bioreactors (MBR) applying submerged membranes. <i>Desalination</i> , 2010, 261, 148-156.	4.0	139
5	Applicability of Fenton and H <sub>2</sub> O <sub>2</sub> /UV reactions in the treatment of tannery wastewaters. <i>Chemosphere</i> , 2005, 60, 644-655.	4.2	123
6	Recent research data on the removal of pharmaceuticals from sewage treatment plants (STP). <i>Quimica Nova</i> , 2010, 33, 411-420.	0.3	104
7	Bio-syngas production from agro-industrial biomass residues by steam gasification. <i>Waste Management</i> , 2016, 58, 221-229.	3.7	100
8	Lithium orthosilicate for CO <sub>2</sub> capture with high regeneration capacity: Kinetic study and modeling of carbonation and decarbonation reactions. <i>Chemical Engineering Journal</i> , 2016, 283, 388-396.	6.6	77
9	Advanced oxidation processes applied to tannery wastewater containing Direct Black 38: Elimination and degradation kinetics. <i>Journal of Hazardous Materials</i> , 2006, 135, 274-279.	6.5	76
10	Characterisation of agroindustrial solid residues as biofuels and potential application in thermochemical processes. <i>Waste Management</i> , 2012, 32, 1952-1961.	3.7	76
11	Elucidation of the behavior of tannery wastewater under advanced oxidation conditions. <i>Chemosphere</i> , 2004, 56, 411-423.	4.2	72
12	CeO <sub>2</sub> /TiO <sub>2</sub> nanostructures enhance adsorption and photocatalytic degradation of organic compounds in aqueous suspension. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 325-336.	2.0	70
13	Treatment of meat industry wastewater using dissolved air flotation and advanced oxidation processes monitored by GC-MS and LC-MS. <i>Chemical Engineering Journal</i> , 2009, 152, 151-157.	6.6	64
14	Valorization of agroindustrial solid residues and residues from biofuel production chains by thermochemical conversion: a review, citing Brazil as a case study. <i>Brazilian Journal of Chemical Engineering</i> , 2013, 30, 197-230.	0.7	59
15	Photocatalytic reduction of nitrate ions in water over metal-modified TiO <sub>2</sub> . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 246, 36-44.	2.0	57
16	Gaseous emissions from sewage sludge combustion in a moving bed combustor. <i>Waste Management</i> , 2015, 46, 430-439.	3.7	57
17	Recovery of iron oxides from acid mine drainage and their application as adsorbent or catalyst. <i>Journal of Environmental Management</i> , 2012, 111, 53-60.	3.8	55
18	Biological wastewater treatment followed by physicochemical treatment for the removal of fluorinated surfactants. <i>Water Science and Technology</i> , 2010, 61, 3208-3215.	1.2	47

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19	The removal and degradation of pharmaceutical compounds during membrane bioreactor treatment. <i>Water Science and Technology</i> , 2012, 65, 833-839.	1.2	46
20	Comparison of coagulants and coagulation aids for treatment of meat processing wastewater by column flotation. <i>Bioresource Technology</i> , 2008, 99, 8221-8225.	4.8	45
21	Treatment of paper and pulp wastewater and removal of odorous compounds by a Fenton-like process at the pilot scale. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 1426-1432.	1.6	44
22	Comparison of different advanced oxidation process to reduce toxicity and mineralisation of tannery wastewater. <i>Water Science and Technology</i> , 2004, 50, 329-334.	1.2	43
23	Adsorption equilibrium and breakthrough analysis for NO adsorption on activated carbons at low temperatures. <i>Carbon</i> , 2004, 42, 1483-1490.	5.4	43
24	Towards an efficient and durable self-cleaning acrylic paint containing mesoporous TiO <sub>2</sub> microspheres. <i>Progress in Organic Coatings</i> , 2018, 118, 48-56.	1.9	42
25	Hydrotalcite Materials for Carbon Dioxide Adsorption at High Temperatures: Characterization and Diffusivity Measurements. <i>Separation Science and Technology</i> , 2005, 39, 1989-2010.	1.3	41
26	Biofuel application of biomass obtained from a meat industry wastewater plant through the flotation process – A case study. <i>Resources, Conservation and Recycling</i> , 2008, 52, 557-569.	5.3	34
27	Modification of pore size in activated carbon by polymer deposition and its effects on molecular sieve selectivity. <i>Carbon</i> , 2001, 39, 2269-2276.	5.4	33
28	Combustion of pistachio shell: physicochemical characterization and evaluation of kinetic parameters. <i>Environmental Science and Pollution Research</i> , 2018, 25, 21420-21429.	2.7	33
29	Bioenergetic potential of Ponkan peel waste ( <i>Citrus reticulata</i> ) pyrolysis by kinetic modelling and product characterization. <i>Biomass and Bioenergy</i> , 2019, 131, 105401.	2.9	30
30	Evaluation of gaseous emissions from thermal conversion of a mixture of solid municipal waste and wood chips in a pilot-scale heat generator. <i>Renewable Energy</i> , 2019, 141, 402-410.	4.3	29
31	Investigation of the bioenergy potential of microalgae <i>Scenedesmus acuminatus</i> by physicochemical characterization and kinetic analysis of pyrolysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 3269-3280.	2.0	28
32	Identification of Degradation Products of Erythromycin A Arising from Ozone and Advanced Oxidation Process Treatment. <i>Water Environment Research</i> , 2010, 82, 797-805.	1.3	27
33	Preparation and photocatalytic activity of TiO <sub>2</sub> -exfoliated graphite oxide composite using an ecofriendly graphite oxidation method. <i>Applied Surface Science</i> , 2015, 359, 868-874.	3.1	26
34	Effect of operational conditions on photocatalytic ethylene degradation applied to control tomato ripening. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 367, 294-301.	2.0	26
35	Physicochemical and Advanced Oxidation Processes – A Comparison of Elimination Results of Antibiotic Compounds Following an MBR Treatment. <i>Ozone: Science and Engineering</i> , 2009, 31, 428-435.	1.4	25
36	Generation of endocrine disruptor compounds during ozone treatment of tannery wastewater confirmed by biological effect analysis and substance specific analysis. <i>Water Science and Technology</i> , 2009, 59, 31-38.	1.2	24

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37	Adsorption of arsenate, phosphate and humic acids onto acicular goethite nanoparticles recovered from acid mine drainage. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 652-659.	3.3	24
38	1,4-Dioxane removal from water and membrane fouling elimination using CuO-coated ceramic membrane coupled with ozone. <i>Environmental Science and Pollution Research</i> , 2020, 27, 22144-22154.	2.7	24
39	Organic solid waste originating from the meat processing industry as an alternative energy source. <i>Energy</i> , 2011, 36, 3897-3906.	4.5	23
40	Experimental and Theoretical Analysis for the CO <sub>2</sub> Adsorption on Hydrotalcite. <i>Adsorption</i> , 2005, 11, 237-241.	1.4	22
41	Synthesis and Characterization of Acicular Iron Oxide Particles Obtained from Acid Mine Drainage and Their Catalytic Properties in Toluene Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 767-774.	1.8	22
42	Carbon Dioxide Adsorption in Brazilian Coals. <i>Energy &amp; Fuels</i> , 2007, 21, 209-215.	2.5	20
43	Photocatalytic effect of addition of TiO <sub>2</sub> to acrylic-based paint for passive toluene degradation. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 1568-1579.	1.2	20
44	Insights into pyrolysis characteristics of Brazilian high-ash sewage sludges using thermogravimetric analysis and bench-scale experiments with GC-MS to evaluate their bioenergy potential. <i>Biomass and Bioenergy</i> , 2020, 138, 105614.	2.9	20
45	Potential applications for geopolymers in carbon capture and storage. <i>International Journal of Greenhouse Gas Control</i> , 2022, 118, 103687.	2.3	20
46	Coal gasification in the presence of lithium orthosilicate. Part 1: Reaction kinetics. <i>Chemical Engineering Research and Design</i> , 2019, 141, 529-539.	2.7	18
47	Imazalil Degradation upon Applying Ozone Transformation Products, Kinetics, and Toxicity of Treated Aqueous Solutions. <i>Ozone: Science and Engineering</i> , 2011, 33, 308-328.	1.4	17
48	Tertiary treatment of slaughterhouse effluent: degradation kinetics applying UV radiation or H <sub>2</sub> O <sub>2</sub> /UV. <i>Water Science and Technology</i> , 2009, 60, 1869-1874.	1.2	16
49	Evaluation of Relative Photonic Efficiency in Heterogeneous Photocatalytic Reactors. <i>Journal of the Air and Waste Management Association</i> , 2004, 54, 77-82.	0.9	15
50	Advanced Oxidation Processes for the Elimination of Drugs Resisting Biological Membrane Treatment. <i>Ozone: Science and Engineering</i> , 2010, 32, 305-312.	1.4	15
51	Ni Y <sub>2</sub> O <sub>3</sub> Al <sub>2</sub> O <sub>3</sub> aerogel catalysts with high coke deposition resistance for syngas production by biogas reforming. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11861-11871.	3.8	15
52	The removal of reactive dyes using high-ash char. <i>Brazilian Journal of Chemical Engineering</i> , 2001, 18, 327-336.	0.7	15
53	Kinetics of photocatalytic reduction of nitrate in synthetic and real effluent using TiO <sub>2</sub> doped with Zn as photocatalyst. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 821-829.	1.6	14
54	Peroxidation and photo-peroxidation of pantoprazole in aqueous solution using silver molybdate as catalyst. <i>Chemosphere</i> , 2021, 262, 127671.	4.2	14

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55	Photocatalytic degradation of polyvinylpyrrolidone in aqueous solution using TiO <sub>2</sub> /H <sub>2</sub> O <sub>2</sub> /UV system. Environmental Technology (United Kingdom), 2018, 39, 2559-2567.	1.2	13
56	Residue-based iron oxide catalyst for the degradation of simulated petrochemical wastewater via heterogeneous photo-Fenton process. Environmental Technology (United Kingdom), 2018, 39, 2559-2567.	1.2	13
57	Syngas production by dry reforming of methane using lyophilized nickel catalysts. Chemical Engineering Science, 2019, 205, 74-82.	1.9	13
58	Assessing the bioenergy potential of high-ash anaerobic sewage sludge using pyrolysis kinetics and thermodynamics to design a sustainable integrated biorefinery. Biomass Conversion and Biorefinery, 2022, 12, 693-704.	2.9	13
59	Ozone Treatment of Tannery Wastewater Monitored by Conventional and Substance Specific Wastewater Analyses. Ozone: Science and Engineering, 2017, 39, 159-187.	1.4	12
60	Monitoring the Physicochemical and Chemical Treatment of Textile Wastewater using GC/MS, LC/MS and $\mu$ MS/MS Techniques. Separation Science and Technology, 2007, 42, 1535-1551.	1.3	11
61	Potential of Industrial Solid Wastes as Energy Sources and Gaseous Emissions Evaluation in a Pilot Scale Burner (ES2008-54355). Journal of Energy Resources Technology, Transactions of the ASME, 2010, 132, .	1.4	11
62	Degradation of Polyvinylpyrrolidone by Photocatalytic Ozonation and Evaluation of the Influence of Some Operational Parameters. Ozone: Science and Engineering, 2014, 36, 560-569.	1.4	10
63	Torrefaction of ponkan peel waste in tubular fixed-bed reactor: In-depth bioenergetic evaluation of torrefaction products. Energy, 2020, 210, 118569.	4.5	10
64	ASSESSMENT OF POLYACRYLAMIDE DEGRADATION USING ADVANCED OXIDATION PROCESSES AND FERRATE(VI) OXIDATION. Chemical Engineering Communications, 2013, 200, 235-252.	1.5	9
65	Treated domestic sewage: kinetics of Escherichia coli and total coliform inactivation by oxidation with hydrogen peroxide. Quimica Nova, 2013, 36, 252-256.	0.3	9
66	Gasification of Brazilian coal-chars with CO <sub>2</sub> : effect of samples' properties on reactivity and kinetic modeling. Chemical Engineering Communications, 2019, 206, 158-168.	1.5	9
67	Removal of Iron from Water Using Adsorbent Carbon. Separation Science and Technology, 2005, 39, 271-285.	1.3	8
68	Combustion of Apple Juice Wastes in a Cyclone Combustor for Thermal Energy Generation (ES2009-90152). Journal of Energy Resources Technology, Transactions of the ASME, 2010, 132, .	1.4	8
69	Kinetic modeling of CO <sub>2</sub> gasification of biochars prepared from Brazilian agro-industrial residues: effect of biomass indigenous mineral content. Biomass Conversion and Biorefinery, 2023, 13, 6675-6688.	2.9	8
70	Modeling and fouling control in a hybrid membrane process using CuO-catalytic membrane coupled to ozone. Journal of Environmental Chemical Engineering, 2021, 9, 106138.	3.3	8
71	Preparation of a carbon molecular sieve and application to separation of N <sub>2</sub> , O <sub>2</sub> and CO <sub>2</sub> in a fixed bed. Brazilian Journal of Chemical Engineering, 2003, 20, 75-80.	0.7	8
72	Evaluation of reactive oxygen species and photocatalytic degradation of ethylene using $\beta$ -Ag <sub>2</sub> MoO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> composites. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 432, 114102.	2.0	8

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73	Torrefaction of low-value agro-industrial wastes using macro-TGA with GC-TCD/FID analysis: Physicochemical characterization, kinetic investigation, and evolution of non-condensable gases. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 166, 105607.	2.6	8
74	Determination of inorganic and organic priority pollutants in biosolids from meat processing industry. <i>Waste Management</i> , 2009, 29, 2574-2581.	3.7	7
75	Evaluation of hybrid treatments to produce high quality reuse water. <i>Water Science and Technology</i> , 2011, 63, 2046-2051.	1.2	6
76	Evaluation of sample processing methods for the polar contaminant analysis of sewage sludge using liquid chromatography - mass spectrometry (LC/MS). <i>Quimica Nova</i> , 2010, 33, 1194-1198.	0.3	5
77	Regeneration process using CO <sub>2</sub> in situ of Ni-Y <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> aerogel spent catalysts from dry reforming with continuous syngas production. <i>Chemical Engineering Science</i> , 2021, 231, 116319.	1.9	3
78	A comprehensive study on by-products of food processing industry pyrolysis using a thermobalance reactor coupled to GC-FID/TCD: Mass, atomic and energy balances, thermokinetic modeling, product distribution, and characterization. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105107.	2.6	3
79	Kinetics of the Carbonation Reaction of Lithium Orthosilicate Using a Typical CO <sub>2</sub> Concentration of Combustion Gases. <i>Materials Research</i> , 2019, 22, .	0.6	3
80	GaseificaÃ§Ã£o de serragem de madeira com vapor de Ã¡gua: estudo cinÃ©tico. <i>Scientia Cum Industria</i> , 2016, 4, 119-124.	0.1	3
81	Physiological changes in green and red cherry tomatoes after photocatalytic ethylene degradation using continuous air flux. <i>Food Science and Technology International</i> , 2023, 29, 3-12.	1.1	3
82	Investigation of the thermal behavior of Pinus wood pellets during torrefaction for application in metallurgical processes. <i>Journal of Materials Research and Technology</i> , 2022, 19, 3749-3759.	2.6	3
83	Gaseous emissions from co-combustion of biosolids from the meat processing industry with wood. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, e13633.	1.3	2
84	Combustion of Apple Juice Wastes in a Cyclone Combustor for Thermal Energy Generation. , 2009, , .		0
85	Notice of Retraction: Preparation and Characterization of Catalysts Produced from AMD and Their Catalytic Behavior during Toluene Oxidation. , 2011, , .		0
86	Potential of Industrial Solid Wastes as an Energy Source and Gaseous Emissions Evaluation in a Pilot Scale Burner. , 2008, , .		0
87	Pelletized Adsorbent of Iron Oxide for Removal of Arsenic Dissolved in Water. <i>Revista Virtual De Quimica</i> , 0, , .	0.1	0