

Humberto Jorge JosÃ©

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

3,105
citations

201674
27
h-index

168389
53
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87
all docs

87
docs citations

87
times ranked

4114
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic modeling of CO ₂ gasification of biochars prepared from Brazilian agro-industrial residues: effect of biomass indigenous mineral content. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 6675-6688.	4.6	8
2	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.	2.2	3
3	Assessing the bioenergy potential of high-ash anaerobic sewage sludge using pyrolysis kinetics and thermodynamics to design a sustainable integrated biorefinery. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 693-704.	4.6	13
4	Potential applications for geopolymers in carbon capture and storage. <i>International Journal of Greenhouse Gas Control</i> , 2022, 118, 103687.	4.6	20
5	Evaluation of reactive oxygen species and photocatalytic degradation of ethylene using $\text{I}^2\text{-Ag}_2\text{MoO}_4/\text{g-C}_3\text{N}_4$ composites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 432, 114102.	3.9	8
6	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.	5.8	3
7	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.	5.5	8
8	Peroxidation and photo-peroxidation of pantoprazole in aqueous solution using silver molybdate as catalyst. <i>Chemosphere</i> , 2021, 262, 127671.	8.2	14
9	Regeneration process using CO ₂ in situ of Ni-Y ₂ O ₃ -Al ₂ O ₃ aerogel spent catalysts from dry reforming with continuous syngas production. <i>Chemical Engineering Science</i> , 2021, 231, 116319.	3.8	3
10	Gaseous emissions from co-combustion of biosolids from the meat processing industry with wood. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, e13633.	2.3	2
11	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.	5.5	3
12	Modeling and fouling control in a hybrid membrane process using CuO-catalytic membrane coupled to ozone. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106138.	6.7	8
13	Photocatalytic effect of addition of TiO ₂ to acrylic-based paint for passive toluene degradation. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 1568-1579.	2.2	20
14	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.	5.3	24
15	Torrefaction of ponkan peel waste in tubular fixed-bed reactor: In-depth bioenergetic evaluation of torrefaction products. <i>Energy</i> , 2020, 210, 118569.	8.8	10
16	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.	5.7	20
17	Gasification of Brazilian coal-chars with CO ₂ : effect of samples' properties on reactivity and kinetic modeling. <i>Chemical Engineering Communications</i> , 2019, 206, 158-168.	2.6	9
18	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.	3.6	28

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19	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.	5.7	30
20	Syngas production by dry reforming of methane using lyophilized nickel catalysts. <i>Chemical Engineering Science</i> , 2019, 205, 74-82.	3.8	13
21	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.	8.9	29
22	Ni Y2O3Al2O3 aerogel catalysts with high coke deposition resistance for syngas production by biogas reforming. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11861-11871.	7.1	15
23	Coal gasification in the presence of lithium orthosilicate. Part 1: Reaction kinetics. <i>Chemical Engineering Research and Design</i> , 2019, 141, 529-539.	5.6	18
24	Kinetics of the Carbonation Reaction of Lithium Orthosilicate Using a Typical CO2 Concentration of Combustion Gases. <i>Materials Research</i> , 2019, 22, .	1.3	3
25	Towards an efficient and durable self-cleaning acrylic paint containing mesoporous TiO2 microspheres. <i>Progress in Organic Coatings</i> , 2018, 118, 48-56.	3.9	42
26	Photocatalytic degradation of polyvinylpyrrolidone in aqueous solution using TiO ₂ /H ₂ O ₂ /UV system. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2559-2567.	2.2	13
27	Combustion of pistachio shell: physicochemical characterization and evaluation of kinetic parameters. <i>Environmental Science and Pollution Research</i> , 2018, 25, 21420-21429.	5.3	33
28	Residue-based iron oxide catalyst for the degradation of simulated petrochemical wastewater via heterogeneous photo-Fenton process. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2559-2567.	2.2	13
29	CeO ₂ /TiO ₂ 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.	3.9	70
30	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.	3.9	26
31	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.	6.7	24
32	Ozone Treatment of Tannery Wastewater Monitored by Conventional and Substance Specific Wastewater Analyses. <i>Ozone: Science and Engineering</i> , 2017, 39, 159-187.	2.5	12
33	Bio-syngas production from agro-industrial biomass residues by steam gasification. <i>Waste Management</i> , 2016, 58, 221-229.	7.4	100
34	Lithium orthosilicate for CO2 capture with high regeneration capacity: Kinetic study and modeling of carbonation and decarbonation reactions. <i>Chemical Engineering Journal</i> , 2016, 283, 388-396.	12.7	77
35	Gaseificação de serragem de madeira com vapor de Água: estudo cinético. <i>Scientia Cum Industria</i> , 2016, 4, 119-124.	0.1	3
36	Preparation and photocatalytic activity of TiO ₂ -exfoliated graphite oxide composite using an ecofriendly graphite oxidation method. <i>Applied Surface Science</i> , 2015, 359, 868-874.	6.1	26

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37	Gaseous emissions from sewage sludge combustion in a moving bed combustor. Waste Management, 2015, 46, 430-439.	7.4	57
38	Kinetics of photocatalytic reduction of nitrate in synthetic and real effluent using TiO_2 doped with Zn as photocatalyst. Journal of Chemical Technology and Biotechnology, 2015, 90, 821-829.	3.2	14
39	Degradation of Polyvinylpyrrolidone by Photocatalytic Ozonation and Evaluation of the Influence of Some Operational Parameters. Ozone: Science and Engineering, 2014, 36, 560-569.	2.5	10
40	ASSESSMENT OF POLYACRYLAMIDE DEGRADATION USING ADVANCED OXIDATION PROCESSES AND FERRATE(VI) OXIDATION. Chemical Engineering Communications, 2013, 200, 235-252.	2.6	9
41	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
42	Valorization of agroindustrial solid residues and residues from biofuel production chains by thermochemical conversion: a review, citing Brazil as a case study. Brazilian Journal of Chemical Engineering, 2013, 30, 197-230.	1.3	59
43	The removal and degradation of pharmaceutical compounds during membrane bioreactor treatment. Water Science and Technology, 2012, 65, 833-839.	2.5	46
44	Characterisation of agroindustrial solid residues as biofuels and potential application in thermochemical processes. Waste Management, 2012, 32, 1952-1961.	7.4	76
45	Synthesis and Characterization of Acicular Iron Oxide Particles Obtained from Acid Mine Drainage and Their Catalytic Properties in Toluene Oxidation. Industrial & Engineering Chemistry Research, 2012, 51, 767-774.	3.7	22
46	Recovery of iron oxides from acid mine drainage and their application as adsorbent or catalyst. Journal of Environmental Management, 2012, 111, 53-60.	7.8	55
47	Photocatalytic reduction of nitrate ions in water over metal-modified TiO_2 . Journal of Photochemistry and Photobiology A: Chemistry, 2012, 246, 36-44.	3.9	57
48	Imazalil Degradation upon Applying Ozone Transformation Products, Kinetics, and Toxicity of Treated Aqueous Solutions. Ozone: Science and Engineering, 2011, 33, 308-328.	2.5	17
49	Organic solid waste originating from the meat processing industry as an alternative energy source. Energy, 2011, 36, 3897-3906.	8.8	23
50	Notice of Retraction: Preparation and Characterization of Catalysts Produced from AMD and Their Catalytic Behavior during Toluene Oxidation. , 2011, , .		0
51	Evaluation of hybrid treatments to produce high quality reuse water. Water Science and Technology, 2011, 63, 2046-2051.	2.5	6
52	Identification of Degradation Products of Erythromycin A Arising from Ozone and Advanced Oxidation Process Treatment. Water Environment Research, 2010, 82, 797-805.	2.7	27
53	Removal of pharmaceutical compounds in membrane bioreactors (MBR) applying submerged membranes. Desalination, 2010, 261, 148-156.	8.2	139
54	Recent research data on the removal of pharmaceuticals from sewage treatment plants (STP). Quimica Nova, 2010, 33, 411-420.	0.3	104

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55	Evaluation of sample processing methods for the polar contaminant analysis of sewage sludge using liquid chromatography - mass spectrometry (LC/MS). Quimica Nova, 2010, 33, 1194-1198.	0.3	5
56	Biological wastewater treatment followed by physicochemical treatment for the removal of fluorinated surfactants. Water Science and Technology, 2010, 61, 3208-3215.	2.5	47
57	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, .	2.3	11
58	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, .	2.3	8
59	Advanced Oxidation Processes for the Elimination of Drugs Resisting Biological Membrane Treatment. Ozone: Science and Engineering, 2010, 32, 305-312.	2.5	15
60	Tertiary treatment of slaughterhouse effluent: degradation kinetics applying UV radiation or H ₂ O ₂ /UV. Water Science and Technology, 2009, 60, 1869-1874.	2.5	16
61	Combustion of Apple Juice Wastes in a Cyclone Combustor for Thermal Energy Generation. , 2009, , .		0
62	Generation of endocrine disruptor compounds during ozone treatment of tannery wastewater confirmed by biological effect analysis and substance specific analysis. Water Science and Technology, 2009, 59, 31-38.	2.5	24
63	Determination of inorganic and organic priority pollutants in biosolids from meat processing industry. Waste Management, 2009, 29, 2574-2581.	7.4	7
64	Treatment of meat industry wastewater using dissolved air flotation and advanced oxidation processes monitored by GC-MS and LC-MS. Chemical Engineering Journal, 2009, 152, 151-157.	12.7	64
65	Physicochemical and Advanced Oxidation Processes - A Comparison of Elimination Results of Antibiotic Compounds Following an MBR Treatment. Ozone: Science and Engineering, 2009, 31, 428-435.	2.5	25
66	Biofuel application of biomass obtained from a meat industry wastewater plant through the flotation process - A case study. Resources, Conservation and Recycling, 2008, 52, 557-569.	10.8	34
67	Comparison of coagulants and coagulation aids for treatment of meat processing wastewater by column flotation. Bioresource Technology, 2008, 99, 8221-8225.	9.6	45
68	Potential of Industrial Solid Wastes as an Energy Source and Gaseous Emissions Evaluation in a Pilot Scale Burner. , 2008, , .		0
69	Monitoring the Physicochemical and Chemical Treatment of Textile Wastewater using GC/MS, LC/MS and -MS/MS Techniques. Separation Science and Technology, 2007, 42, 1535-1551.	2.5	11
70	Carbon Dioxide Adsorption in Brazilian Coals. Energy & Fuels, 2007, 21, 209-215.	5.1	20
71	Treatment of textile wastewater by heterogeneous Fenton process using a new composite Fe ₂ O ₃ /carbon. Chemical Engineering Journal, 2006, 118, 77-82.	12.7	160
72	Advanced oxidation processes applied to tannery wastewater containing Direct Black 38 - Elimination and degradation kinetics. Journal of Hazardous Materials, 2006, 135, 274-279.	12.4	76

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73	Treatment of paper and pulp wastewater and removal of odorous compounds by a Fenton-like process at the pilot scale. Journal of Chemical Technology and Biotechnology, 2006, 81, 1426-1432.	3.2	44
74	Experimental and Theoretical Analysis for the CO ₂ Adsorption on Hydrotalcite. Adsorption, 2005, 11, 237-241.	3.0	22
75	Applicability of Fenton and H ₂ O ₂ /UV reactions in the treatment of tannery wastewaters. Chemosphere, 2005, 60, 644-655.	8.2	123
76	Removal of Iron from Water Using Adsorbent Carbon. Separation Science and Technology, 2005, 39, 271-285.	2.5	8
77	Hydrotalcite Materials for Carbon Dioxide Adsorption at High Temperatures: Characterization and Diffusivity Measurements. Separation Science and Technology, 2005, 39, 1989-2010.	2.5	41
78	Comparison of different advanced oxidation process to reduce toxicity and mineralisation of tannery wastewater. Water Science and Technology, 2004, 50, 329-334.	2.5	43
79	Adsorption equilibrium and breakthrough analysis for NO adsorption on activated carbons at low temperatures. Carbon, 2004, 42, 1483-1490.	10.3	43
80	Elucidation of the behavior of tannery wastewater under advanced oxidation conditions. Chemosphere, 2004, 56, 411-423.	8.2	72
81	Evaluation of Relative Photonic Efficiency in Heterogeneous Photocatalytic Reactors. Journal of the Air and Waste Management Association, 2004, 54, 77-82.	1.9	15
82	Preparation of a carbon molecular sieve and application to separation of N ₂ , O ₂ and CO ₂ in a fixed bed. Brazilian Journal of Chemical Engineering, 2003, 20, 75-80.	1.3	8
83	Simultaneous photocatalytic Cr(VI) reduction and dye oxidation in a TiO ₂ slurry reactor. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 147, 71-76.	3.9	175
84	Kinetics of photocatalytic degradation of reactive dyes in a TiO ₂ slurry reactor. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 149, 147-154.	3.9	414
85	Modification of pore size in activated carbon by polymer deposition and its effects on molecular sieve selectivity. Carbon, 2001, 39, 2269-2276.	10.3	33
86	The removal of reactive dyes using high-ash char. Brazilian Journal of Chemical Engineering, 2001, 18, 327-336.	1.3	15
87	Pelletized Adsorbent of Iron Oxide for Removal of Arsenic Dissolved in Water. Revista Virtual De Quimica, 0, , .	0.4	0