

João Gomes

List of Publications by Year in descending order

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82
papers

2,199
citations

218381

26
h-index

243296

44
g-index

87
all docs

87
docs citations

87
times ranked

2613
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>p</i> -Xylene Oxidation to Terephthalic Acid: A Literature Review Oriented toward Process Optimization and Development. <i>Chemical Reviews</i> , 2013, 113, 7421-7469.	23.0	311
2	Biodiesel Production Processes and Sustainable Raw Materials. <i>Energies</i> , 2019, 12, 4408.	1.6	183
3	Study on the use of MgAl hydrotalcites as solid heterogeneous catalysts for biodiesel production. <i>Energy</i> , 2011, 36, 6770-6778.	4.5	91
4	Study on the glycerolysis reaction of high free fatty acid oils for use as biodiesel feedstock. <i>Fuel Processing Technology</i> , 2011, 92, 1225-1229.	3.7	77
5	Advances on the development of novel heterogeneous catalysts for transesterification of triglycerides in biodiesel. <i>Fuel</i> , 2010, 89, 3602-3606.	3.4	74
6	Effect of the oil acidity on the methanolysis performances of lime catalyst biodiesel from waste frying oils (WFO). <i>Fuel Processing Technology</i> , 2013, 116, 94-100.	3.7	66
7	Biodiesel production over lithium modified lime catalysts: Activity and deactivation. <i>Applied Catalysis A: General</i> , 2014, 470, 451-457.	2.2	63
8	Dry washing biodiesel purification using fumed silica sorbent. <i>Chemical Engineering Journal</i> , 2020, 386, 123930.	6.6	61
9	A Review on Bio-Based Catalysts (Immobilized Enzymes) Used for Biodiesel Production. <i>Energies</i> , 2020, 13, 3013.	1.6	61
10	Assessment of the impact of the European CO ₂ emissions trading scheme on the Portuguese chemical industry. <i>Energy Policy</i> , 2010, 38, 626-632.	4.2	57
11	Fume emissions during gas metal arc welding. <i>Toxicological and Environmental Chemistry</i> , 2006, 88, 385-394.	0.6	56
12	A simulation study on the abatement of CO ₂ emissions by deaeration with monoethanolamine. <i>Environmental Technology (United Kingdom)</i> , 2010, 31, 107-115.	1.2	52
13	Choosing amine-based absorbents for CO ₂ capture. <i>Environmental Technology (United Kingdom)</i> 11 0.784314 1.2 / Over	1.2	52
14	Determination of Airborne Nanoparticles from Welding Operations. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2012, 75, 747-755.	1.1	47
15	Calcium diglyceroxide as a catalyst for biodiesel production. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103099.	3.3	46
16	Calcium Rich Food Wastes Based Catalysts for Biodiesel Production. <i>Waste and Biomass Valorization</i> , 2017, 8, 1699-1707.	1.8	42
17	Assessment of exposure to airborne ultrafine particles in the urban environment of Lisbon, Portugal. <i>Journal of the Air and Waste Management Association</i> , 2012, 62, 373-380.	0.9	37
18	Biodiesel production over lime. Catalytic contributions of bulk phases and surface Ca species formed during reaction. <i>Renewable Energy</i> , 2016, 99, 622-630.	4.3	37

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19	Biofouling Inhibition with Grafted E-conea Biocide: Toward a Nonreleasing Eco-Friendly Multiresistant Antifouling Coating. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12-17.	3.2	34
20	Toxicological Assessment of Coated versus Uncoated Rubber Granulates Obtained from Used Tires for Use in Sport Facilities. <i>Journal of the Air and Waste Management Association</i> , 2010, 60, 741-746.	0.9	32
21	Towards the Development of Syngas/Biomethane Electrolytic Production, Using Liquefied Biomass and Heterogeneous Catalyst. <i>Energies</i> , 2019, 12, 3787.	1.6	32
22	Nanoparticle exposure and hazard in the ceramic industry: an overview of potential sources, toxicity and health effects. <i>Environmental Research</i> , 2020, 184, 109297.	3.7	32
23	Emission and odour control in Kraft pulp mills. <i>Journal of Cleaner Production</i> , 2003, 11, 797-801.	4.6	30
24	Biodiesel production from waste frying oils over lime catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2013, 109, 405-415.	0.8	30
25	The effect of metal transfer stability (spattering) on fume generation, morphology and composition in short-circuit MAG welding. <i>Journal of Materials Processing Technology</i> , 2014, 214, 1388-1397.	3.1	30
26	Comparison of deposited surface area of airborne ultrafine particles generated from two welding processes. <i>Inhalation Toxicology</i> , 2012, 24, 774-781.	0.8	29
27	Forest fires in Portugal: how they happen and why they happen. <i>International Journal of Environmental Studies</i> , 2006, 63, 109-119.	0.7	28
28	Solar activity as a possible cause of large forest fires – A case study: Analysis of the Portuguese forest fires. <i>Science of the Total Environment</i> , 2008, 394, 197-205.	3.9	28
29	Methane production by a combined Sabatier reaction/water electrolysis process. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 671-676.	3.3	27
30	Estimating local greenhouse gas emissions – A case study on a Portuguese municipality. <i>International Journal of Greenhouse Gas Control</i> , 2008, 2, 130-135.	2.3	23
31	Liquid-liquid equilibrium for ternary system containing biodiesel, methanol and water. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 984-990.	3.3	22
32	Development of heterogeneous catalysts for transesterification of triglycerides. <i>Reaction Kinetics and Catalysis Letters</i> , 2008, 95, 273-279.	0.6	21
33	Characterization of airborne particles generated from metal active gas welding process. <i>Inhalation Toxicology</i> , 2014, 26, 345-352.	0.8	21
34	Soybean Oil Transesterification for Biodiesel Production with Micro-Structured Calcium Oxide (CaO) from Natural Waste Materials as a Heterogeneous Catalyst. <i>Energies</i> , 2019, 12, 4670.	1.6	21
35	New technologies for effective forest fire fighting. <i>International Journal of Environmental Studies</i> , 2007, 64, 243-251.	0.7	20
36	Preliminary study of synthesis gas production from water electrolysis, using the ELECTROFUEL® concept. <i>Energy</i> , 2015, 89, 1050-1056.	4.5	18

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37	Scale-Up Effects of CO ₂ Capture by Methyldiethanolamine (MDEA) Solutions in Terms of Loading Capacity. <i>Technologies</i> , 2016, 4, 19.	3.0	16
38	Exposure to airborne ultrafine particles from cooking in Portuguese homes. <i>Journal of the Air and Waste Management Association</i> , 2012, 62, 1116-1126.	0.9	15
39	Atmospheric emissions of Kraft pulp mills. <i>Chemical Engineering and Processing: Process Intensification</i> , 2002, 41, 667-671.	1.8	14
40	Determination of Airborne Nanoparticles in Elderly Care Centers. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2014, 77, 867-878.	1.1	14
41	Advanced instrumental approaches for chemical characterization of indoor particulate matter. <i>Applied Spectroscopy Reviews</i> , 2022, 57, 705-745.	3.4	13
42	Characterisation of non-condensable sulphur containing gases from Kraft pulp mills. <i>Chemosphere</i> , 2001, 44, 1011-1016.	4.2	12
43	Status of biodiesel production using heterogeneous alkaline catalysts. <i>International Journal of Environmental Studies</i> , 2012, 69, 635-653.	0.7	12
44	Antimicrobial Ceramic Filters for Water Bio-Decontamination. <i>Coatings</i> , 2021, 11, 323.	1.2	11
45	Particulate matter indoors: a strategy to sample and monitor size-selective fractions. <i>Applied Spectroscopy Reviews</i> , 2022, 57, 675-704.	3.4	10
46	New process for simultaneous removal of CO ₂ , SO _x and NO _x . <i>Ciência & Tecnologia Dos Materiais</i> , 2016, 28, 106-111.	0.5	9
47	Synthesis gas production from water electrolysis, using the Electrocracking concept. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 604-609.	3.3	9
48	Pollutant atmospheric emissions from Portuguese Kraft pulp mills. <i>Science of the Total Environment</i> , 1997, 208, 139-143.	3.9	8
49	Development of a Local Carbon Dioxide Emissions Inventory Based on Energy Demand and Waste Production. <i>Journal of the Air and Waste Management Association</i> , 2007, 57, 1032-1037.	0.9	8
50	An Investigation of the Synthesis Parameters of the Reaction of Hydroxyapatite Precipitation in Aqueous Media. <i>International Journal of Chemical Reactor Engineering</i> , 2008, 6, .	0.6	8
51	Preliminary Study on the Use of Biodiesel Obtained from Waste Vegetable Oils for Blending with Hydrotreated Kerosene Fossil Fuel Using Calcium Oxide (CaO) from Natural Waste Materials as Heterogeneous Catalyst. <i>Energies</i> , 2019, 12, 4306.	1.6	8
52	Solvent Assisted Biodiesel Production by Co-processing Beef Tallow and Soybean Oil Over Calcium Catalysts. <i>Waste and Biomass Valorization</i> , 2020, 11, 6249-6259.	1.8	8
53	Analysis of welding fumes: A short note on the comparison between two sampling techniques. <i>Toxicological and Environmental Chemistry</i> , 2005, 87, 345-349.	0.6	7
54	Reflections on the use of renewable power sources and nuclear energy in Portugal. <i>International Journal of Environmental Studies</i> , 2008, 65, 755-767.	0.7	7

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55	TEM analysis as a tool for toxicological assessment of occupational exposure to airborne nanoparticles from welding. <i>Microscopy and Microanalysis</i> , 2013, 19, 153-154.	0.2	7
56	Notice on a methodology for characterizing emissions of ultrafine particles/nanoparticles in microenvironments. <i>Energy and Emission Control Technologies</i> , 0, , 15.	0.5	7
57	Co-processing lard/soybean oil over Ca-based catalysts to greener biodiesel. <i>Environmental Technology and Innovation</i> , 2021, 21, 101220.	3.0	7
58	Emission of Nanoparticles During Friction Stir Welding (FSW) of Aluminium Alloys. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2014, 77, 924-930.	1.1	6
59	Evaluation of the amount of nanoparticles emitted in LASER additive manufacture/welding. <i>Inhalation Toxicology</i> , 2019, 31, 125-130.	0.8	6
60	Influence of an Extreme Saharan Dust Event on the Air Quality of the West Region of Portugal. <i>Gases</i> , 2022, 2, 74-84.	1.0	6
61	Characterisation of non-condensable sulphur containing gases from kraft pulp mills. <i>Chemosphere</i> , 1998, 37, 1235-1240.	4.2	5
62	Measurements of Indoor Air Pollutant Levels in a University Office Building. <i>Journal of Green Building</i> , 2007, 2, 123-129.	0.4	5
63	The effect of metal transfer modes and shielding gas composition on the emission of ultrafine particles in MAG steel welding. <i>Soldagem E Inspecao</i> , 2014, 19, 168-176.	0.6	4
64	Evaluation of the amount of nanoparticles emitted in welding fume from stainless steel using different shielding gases. <i>Inhalation Toxicology</i> , 2017, 29, 282-289.	0.8	4
65	Profile: air quality regulation policy in Portugal. <i>Environmental Policy and Governance</i> , 2004, 14, 40-49.	0.4	3
66	SCREENING HETEROGENEOUS CATALYSTS FOR TRANSESTERIFICATION OF TRIGLYCERIDES TO BIODIESEL. <i>International Journal of Energy for A Clean Environment</i> , 2011, 12, 45-54.	0.6	3
67	Deriving an Indoor Environmental Index for Portuguese Office Buildings. <i>Technologies</i> , 2016, 4, 40.	3.0	3
68	Assessment of opacimeter calibration on kraft pulp mills. <i>Atmospheric Environment</i> , 1998, 32, 659-664.	1.9	2
69	Evaluation of Compliance with National Legislation on Emissions in Portugal. <i>Journal of the Air and Waste Management Association</i> , 2005, 55, 497-501.	0.9	2
70	Notice on a Case Study on the Utilization of Wind Energy Potential on a Remote and Isolated Small Wastewater Treatment Plant. <i>Smart Grid and Renewable Energy</i> , 2011, 02, 293-299.	0.7	2
71	Electrons or protons: What is the cause of forest fires in western Europe on June 18, 2017?. <i>Journal of the Geographical Institute Jovan Cvijic SASA</i> , 2017, 67, 213-218.	0.3	2
72	Design of a new test chamber for evaluation of the toxicity of rubber infill. <i>Toxicology Mechanisms and Methods</i> , 2011, 21, 622-627.	1.3	1

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73	Determination of "safe" and "critical" nanoparticles exposure to welders in a workshop. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2017, 80, 767-775.	1.1	1
74	THE IMPORTANCE OF CONSIDERING BUILDING DOWNWASH WHEN ASSESSING THE NEED TO HEIGHTEN STACKS OF EXISTING SMALL-AND MEDIUM-SIZED INDUSTRIES. Clean Air, 2007, 8, 25-32.	0.0	1
75	The role of Alkali dopants on the Oil Methanolysis Behavior of Lime Catalyst: Activity & Stability. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 748-757.	1.2	1
76	Assessment of Opacimeter Calibration According to International Standard Organization 10155. Journal of the Air and Waste Management Association, 2001, 51, 3-6.	0.9	0
77	Diagnostic Study of Critical Circuits of the Kraft Pulp Production Process Considering the Environmental Aspects. Journal of the Air and Waste Management Association, 2002, 52, 765-768.	0.9	0
78	Estimation of uncertainty in the determination of nitrogen oxides emissions. Accreditation and Quality Assurance, 2006, 11, 138-145.	0.4	0
79	ASSESSING THE POSSIBILITY OF CORROSION OCCURRENCE IN METALLIC STACKS CAUSED BY HYDROCHLORIC ACID. Chemical Engineering Communications, 2007, 194, 754-759.	1.5	0
80	Developing a local carbon dioxide emissions inventory based on energy demand and waste production. International Journal of Environmental Studies, 2007, 64, 347-355.	0.7	0
81	A MODEL FOR ABATEMENT OF CO2 EMISSIONS BY DE-ABSORPTION WITH MONOETHANOLAMINE. International Journal of Energy for A Clean Environment, 2009, 10, 181-192.	0.6	0
82	Caracterización experimental de las emisiones de nanopartículas en el tratamiento de AA6061, AISI304 y Ti6Al4V por ondas de choque generadas por LASER. Revista De Metalurgia, 2017, 53, 104.	0.1	0