

JosÃ© Manuel LÃ³pez SebastiÃ¡n

List of Publications by Year in descending order

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91
papers

4,197
citations

126907

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118850

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91
docs citations

91
times ranked

5164
citing authors

#	ARTICLE	IF	CITATIONS
1	Principal component analysis and partial least square regression models to understand sorption-enhanced biomass gasification. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 2091-2111.	4.6	8
2	The role of temperature profile during the pyrolysis of end-of-life-tyres in an industrially relevant conditions auger plant. <i>Journal of Environmental Management</i> , 2022, 317, 115323.	7.8	13
3	The promoter effect of Nb species on the catalytic performance of Ir-based catalysts for VOCs total oxidation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108261.	6.7	2
4	Supported iridium catalysts for the total oxidation of short chain alkanes and their mixtures: Influence of the support. <i>Chemical Engineering Journal</i> , 2021, 417, 127999.	12.7	11
5	A pyrolysis process coupled to a catalytic cracking stage: A potential waste-to-energy solution for mattress foam waste. <i>Waste Management</i> , 2021, 120, 415-423.	7.4	9
6	From laboratory scale to pilot plant: Evaluation of the catalytic co-pyrolysis of grape seeds and polystyrene wastes with CaO. <i>Catalysis Today</i> , 2021, 379, 87-95.	4.4	22
7	Optimised production of tailored syngas from municipal solid waste (MSW) by sorption-enhanced gasification. <i>Chemical Engineering Journal</i> , 2020, 401, 126067.	12.7	28
8	Glycerol Selective Oxidation to Lactic Acid over AuPt Nanoparticles; Enhancing Reaction Selectivity and Understanding by Support Modification. <i>ChemCatChem</i> , 2020, 12, 3097-3107.	3.7	23
9	Insights into the production of upgraded biofuels using Mg-loaded mesoporous ZSM-5 zeolites. <i>ChemCatChem</i> , 2020, 12, 5236-5249.	3.7	9
10	Carbon black recovery from waste tire pyrolysis by demineralization: Production and application in rubber compounding. <i>Waste Management</i> , 2019, 85, 574-584.	7.4	128
11	Effect of oxidation-reduction cycles on steam-methane reforming kinetics over a nickel-based catalyst. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12617-12627.	7.1	18
12	Green synthesis of cavity-containing manganese oxides with superior catalytic performance in toluene oxidation. <i>Applied Catalysis A: General</i> , 2019, 582, 117107.	4.3	8
13	Experimental investigation of the Ca-Cu process for H ₂ production: Evaluation of reduction/calcination strategies. <i>International Journal of Greenhouse Gas Control</i> , 2019, 83, 43-50.	4.6	4
14	The Key Role of Nanocasting in Gold-based Fe ₂ O ₃ Nanocasted Catalysts for Oxygen Activation at the Metal-support Interface. <i>ChemCatChem</i> , 2019, 11, 1915-1927.	3.7	13
15	Size-activity relationship of iridium particles supported on silica for the total oxidation of volatile organic compounds (VOCs). <i>Chemical Engineering Journal</i> , 2019, 366, 100-111.	12.7	56
16	Ca-based Catalysts for the Production of High-Quality Bio-Oils from the Catalytic Co-Pyrolysis of Grape Seeds and Waste Tyres. <i>Catalysts</i> , 2019, 9, 992.	3.5	23
17	Drop-in biofuels from the co-pyrolysis of grape seeds and polystyrene. <i>Chemical Engineering Journal</i> , 2019, 377, 120246.	12.7	57
18	Prediction of elemental composition, water content and heating value of upgraded biofuel from the catalytic cracking of pyrolysis bio-oil vapors by infrared spectroscopy and partial least square regression models. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 132, 102-110.	5.5	6

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19	Kinetic study for the co-pyrolysis of lignocellulosic biomass and plastics using the distributed activation energy model. <i>Energy</i> , 2018, 165, 731-742.	8.8	82
20	Catalytic co-pyrolysis of grape seeds and waste tyres for the production of drop-in biofuels. <i>Energy Conversion and Management</i> , 2018, 171, 1202-1212.	9.2	76
21	Evaluation of the effect of inert support on the carbonation reaction of synthetic CaO-based CO ₂ sorbents. <i>Chemical Engineering Journal</i> , 2018, 350, 559-572.	12.7	46
22	Complete Ca/Cu cycle for H ₂ production via CH ₄ sorption enhanced reforming in a Lab-Scale fixed bed reactor. <i>Chemical Engineering Journal</i> , 2018, 350, 1010-1021.	12.7	27
23	Validation of the H ₂ production stage via SER under relevant conditions for the Ca/Cu reforming process practical application. <i>Chemical Engineering Journal</i> , 2017, 324, 266-278.	12.7	28
24	Low temperature total oxidation of toluene by bimetallic Au-Ir catalysts. <i>Catalysis Science and Technology</i> , 2017, 7, 2886-2896.	4.1	39
25	Determining Bio-Oil Composition via Chemometric Tools Based on Infrared Spectroscopy. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8710-8719.	6.7	10
26	Development of Synthetic Ca-based CO ₂ Sorbents for Sorption Enhanced Reforming Coupled to Ca/Cu Chemical Loop. <i>Energy Procedia</i> , 2017, 114, 230-241.	1.8	6
27	Catalyst evaluation for high-purity H ₂ production by sorption-enhanced steam-methane reforming coupled to a Ca/Cu process. <i>Journal of Power Sources</i> , 2017, 363, 117-125.	7.8	23
28	Promoting Deoxygenation of Bio-Oil by Metal-Loaded Hierarchical ZSM-5 Zeolites. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1653-1660.	6.7	126
29	The prevalence of surface oxygen vacancies over the mobility of bulk oxygen in nanostructured ceria for the total toluene oxidation. <i>Applied Catalysis B: Environmental</i> , 2015, 174-175, 403-412.	20.2	333
30	Insights into the catalytic production of hydrogen from propane in the presence of oxygen: Cooperative presence of vanadium and gold catalysts. <i>Fuel Processing Technology</i> , 2015, 134, 290-296.	7.2	4
31	Production of upgraded bio-oils by biomass catalytic pyrolysis in an auger reactor using low cost materials. <i>Fuel</i> , 2015, 141, 17-22.	6.4	145
32	Source apportionment of the carcinogenic potential of polycyclic aromatic hydrocarbons (PAH) associated to airborne PM ₁₀ by a PMF model. <i>Environmental Science and Pollution Research</i> , 2014, 21, 2064-2076.	5.3	34
33	Source apportionment of atmospheric PM _{2.5} -bound polycyclic aromatic hydrocarbons by a PMF receptor model. Assessment of potential risk for human health. <i>Environmental Pollution</i> , 2014, 195, 167-177.	7.5	190
34	Catalytic pyrolysis of wood biomass in an auger reactor using calcium-based catalysts. <i>Bioresource Technology</i> , 2014, 162, 250-258.	9.6	185
35	Au deposited on CeO ₂ prepared by a nanocasting route: A high activity catalyst for CO oxidation. <i>Journal of Catalysis</i> , 2014, 317, 167-175.	6.2	34
36	Using WRF-CMAQ Air Quality Modelling System to Estimate BaP Concentrations over Zaragoza (Spain). <i>Springer Proceedings in Complexity</i> , 2014, , 161-165.	0.3	0

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37	Influence of organic and inorganic markers in the source apportionment of airborne PM10 in Zaragoza (Spain) by two receptor models. <i>Environmental Science and Pollution Research</i> , 2013, 20, 3240-3251.	5.3	12
38	Abatement of hydrocarbons by acid ZSM-5 and BETA zeolites under cold-start conditions. <i>Adsorption</i> , 2013, 19, 357-365.	3.0	20
39	BETA Zeolite Thin Films Supported on Honeycomb Monoliths with Tunable Properties as Hydrocarbon Traps under Cold-Start Conditions. <i>ChemSusChem</i> , 2013, 6, 1467-1477.	6.8	20
40	Nature and sources of particle associated polycyclic aromatic hydrocarbons (PAH) in the atmospheric environment of an urban area. <i>Environmental Pollution</i> , 2013, 183, 166-174.	7.5	126
41	Influence of the preparation method on the activity of ceria zirconia mixed oxides for naphthalene total oxidation. <i>Applied Catalysis B: Environmental</i> , 2013, 132-133, 98-106.	20.2	73
42	BaP (PAH) air quality modelling exercise over Zaragoza (Spain) using an adapted version of WRF-CMAQ model. <i>Environmental Pollution</i> , 2013, 183, 151-158.	7.5	31
43	Apportionment of the airborne PM10 in Spain. Episodes of potential negative impact for human health. <i>Journal of Environmental Monitoring</i> , 2012, 14, 1211.	2.1	17
44	Molecular simulation design of a multisite solid for the abatement of cold start emissions. <i>Chemical Communications</i> , 2012, 48, 6571.	4.1	15
45	Application of a particle model to pyrolysis. Comparison of different feedstock: Plastic, tyre, coal and biomass. <i>Fuel Processing Technology</i> , 2012, 103, 1-8.	7.2	32
46	Oxygen defects: The key parameter controlling the activity and selectivity of mesoporous copper-doped ceria for the total oxidation of naphthalene. <i>Applied Catalysis B: Environmental</i> , 2012, 127, 77-88.	20.2	70
47	Modelling the heat and mass transfers of propane onto a ZSM-5 zeolite. <i>Separation and Purification Technology</i> , 2012, 86, 127-136.	7.9	21
48	Using a pattern recognition approach to link inorganic chemical fingerprints of ambient PM2.5 to in vitro biological effects. <i>Air Quality, Atmosphere and Health</i> , 2012, 5, 125-147.	3.3	7
49	Characterization of PM10-bound polycyclic aromatic hydrocarbons in the ambient air of Spanish urban and rural areas. <i>Journal of Environmental Monitoring</i> , 2011, 13, 319-327.	2.1	33
50	Valorisation of forestry waste by pyrolysis in an auger reactor. <i>Waste Management</i> , 2011, 31, 1339-1349.	7.4	96
51	PAH in airborne particulate matter. <i>Fuel Processing Technology</i> , 2011, 92, 176-182.	7.2	84
52	Modelling the Breakthrough Curves Obtained from the Adsorption of Propene onto Microporous Inorganic Solids. <i>Adsorption Science and Technology</i> , 2010, 28, 761-775.	3.2	7
53	Screening of different zeolites and silicoaluminophosphates for the retention of propene under cold start conditions. <i>Microporous and Mesoporous Materials</i> , 2010, 130, 239-247.	4.4	53
54	Seasonal variation of benzo(a)pyrene in the Spanish airborne PM10. Multivariate linear regression model applied to estimate BaP concentrations. <i>Journal of Hazardous Materials</i> , 2010, 180, 648-655.	12.4	26

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55	Total oxidation of naphthalene with high selectivity using a ceria catalyst prepared by a combustion method employing ethylene glycol. <i>Journal of Hazardous Materials</i> , 2009, 171, 393-399.	12.4	24
56	Comparison of receptor models for source apportionment of the PM10 in Zaragoza (Spain). <i>Chemosphere</i> , 2009, 76, 1120-1129.	8.2	141
57	Geochemistry of regional background aerosols in the Western Mediterranean. <i>Atmospheric Research</i> , 2009, 94, 422-435.	4.1	92
58	Study of Pb sources by Pb isotope ratios in the airborne PM10 of Zaragoza, Spain. <i>Journal of Environmental Monitoring</i> , 2009, 11, 2052.	2.1	13
59	Long-Range Atmospheric Transport and Local Pollution Sources on PAH Concentrations in a South European Urban Area. Fulfilling of the European Directive. <i>Water, Air, and Soil Pollution</i> , 2008, 190, 271-285.	2.4	43
60	Tracers and impact of open burning of rice straw residues on PM in Eastern Spain. <i>Atmospheric Environment</i> , 2008, 42, 1941-1957.	4.1	98
61	Partitioning of major and trace components in PM10â€“PM2.5â€“PM1 at an urban site in Southern Europe. <i>Atmospheric Environment</i> , 2008, 42, 1677-1691.	4.1	243
62	Some inferences on the mechanism of atmospheric gas/particle partitioning of polycyclic aromatic hydrocarbons (PAH) at Zaragoza (Spain). <i>Chemosphere</i> , 2008, 73, 1357-1365.	8.2	72
63	Modeling of Activated Carbon Production from Lignite. <i>Energy & Fuels</i> , 2006, 20, 2627-2631.	5.1	13
64	Activation of Pyrolytic Lignite Char with CO2. Kinetic Study. <i>Energy & Fuels</i> , 2006, 20, 11-16.	5.1	11
65	Assessment of tire devolatilization kinetics. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 74, 259-264.	5.5	66
66	Production and Application of Activated Carbons Made from Waste Tire. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 7228-7233.	3.7	48
67	Levels of selected metals in ambient air PM10 in an urban site of Zaragoza (Spain). <i>Environmental Research</i> , 2005, 99, 58-67.	7.5	114
68	WHERE ARE THE LIMITS OF THE GAS-PHASE FLUORESCENCE ON THE POLYCYCLIC AROMATIC COMPOUND ANALYSIS?. <i>Polycyclic Aromatic Compounds</i> , 2004, 24, 325-332.	2.6	5
69	Activation of pyrolytic tire char with CO2: kinetic study. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 71, 945-957.	5.5	57
70	Adsorption of phenanthrene on activated carbons: Breakthrough curve modeling. <i>Carbon</i> , 2004, 42, 2009-2017.	10.3	67
71	Development of Efficient Adsorbent Materials for PAH Cleaning from AFBC Hot Gas. <i>Energy & Fuels</i> , 2004, 18, 202-208.	5.1	17
72	Soil, Water, and Air Environmental Impact from Tire Rubber/Coal Fluidized-Bed Cocombustion. <i>Energy & Fuels</i> , 2004, 18, 1633-1639.	5.1	7

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73	Kinetic Model Comparison for Waste Tire Char Reaction with CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 7768-7773.	3.7	35
74	Slagging in Fluidized Bed Combustion of Rubber Tire. Inorganic Component Evolution. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 7762-7767.	3.7	10
75	Spatial and temporal PAH concentrations in Zaragoza, Spain. <i>Science of the Total Environment</i> , 2003, 307, 111-124.	8.0	99
76	Critical review on atmospheric PAH. Assessment of reported data in the Mediterranean basin. <i>Fuel Processing Technology</i> , 2003, 80, 183-193.	7.2	47
77	Study of the Adsorption of Polyaromatic Hydrocarbon Binary Mixtures on Carbon Materials by Gas-Phase Fluorescence Detection. <i>Energy & Fuels</i> , 2003, 17, 669-676.	5.1	17
78	Measurements of Polycyclic Aromatic Hydrocarbon Adsorption on Activated Carbons at Very Low Concentrations. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 155-161.	3.7	36
79	PAH Mixture Removal from Hot Gas by Porous Carbons. From Model Compounds to Real Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 5280-5286.	3.7	21
80	Polyaromatic Hydrocarbons in Flue Gases from Waste Tire Combustion. <i>Polycyclic Aromatic Compounds</i> , 2002, 22, 561-570.	2.6	8
81	Limestone Influence on PAH Emissions from Coal AFBC. Catalytic or/and Adsorption Effect?. <i>Studies in Surface Science and Catalysis</i> , 2002, , 403-409.	1.5	0
82	Phenanthrene Adsorption on a Carbonaceous Material: Moisture and CO ₂ Influence. <i>Studies in Surface Science and Catalysis</i> , 2002, 144, 283-290.	1.5	1
83	Moisture Effects on the Phenanthrene Adsorption Capacity by Carbonaceous Materials. <i>Energy & Fuels</i> , 2002, 16, 205-210.	5.1	26
84	Three-Ring PAH Removal from Waste Hot Gas by Sorbents: Influence of the Sorbent Characteristics. <i>Environmental Science & Technology</i> , 2002, 36, 1821-1826.	10.0	32
85	Effects of CO ₂ on the Phenanthrene Adsorption Capacity of Carbonaceous Materials. <i>Energy & Fuels</i> , 2002, 16, 510-516.	5.1	14
86	Study of the viability of the process for hydrogen recovery from old tyre oils. <i>Fuel Processing Technology</i> , 2002, 75, 185-199.	7.2	31
87	Sorbent characteristics influence on the adsorption of PAC: I. PAH adsorption with the same number of rings. <i>Fuel Processing Technology</i> , 2002, 77-78, 373-379.	7.2	31
88	Influence of sorbent characteristics on the adsorption of PAC. <i>Fuel Processing Technology</i> , 2002, 77-78, 365-372.	7.2	17
89	Benzo(a)pyrene, Benzo(a)anthracene, and Dibenzo(a,h)anthracene Emissions from Coal and Waste Tire Energy Generation at Atmospheric Fluidized Bed Combustion (AFBC). <i>Environmental Science & Technology</i> , 2001, 35, 2645-2649.	10.0	34
90	Effects of Limestone on Polycyclic Aromatic Hydrocarbon Emissions during Coal Atmospheric Fluidized Bed Combustion. <i>Energy & Fuels</i> , 2001, 15, 1469-1474.	5.1	23

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91	Direct Fluorometric Determination of Total Cholesterol in Serum Using Derivatized Cholesterol Oxidase. <i>Applied Spectroscopy</i> , 2000, 54, 1157-1162.	2.2	15