

# MarÃ-a V Navarro

## List of Publications by Year in descending order

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66  
papers

3,961  
citations

147726

31  
h-index

118793

62  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3655  
citing authors

#	ARTICLE	IF	CITATIONS
1	Waste tyre pyrolysis – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 23, 179-213.	8.2	623
2	Co-pyrolysis of biomass with waste tyres: Upgrading of liquid bio-fuel. <i>Fuel Processing Technology</i> , 2014, 119, 263-271.	3.7	260
3	Catalytic pyrolysis of wood biomass in an auger reactor using calcium-based catalysts. <i>Bioresource Technology</i> , 2014, 162, 250-258.	4.8	185
4	The application of thermal processes to valorise waste tyre. <i>Fuel Processing Technology</i> , 2006, 87, 143-147.	3.7	182
5	Experimental and Modeling Study of C <sub>5</sub> H <sub>10</sub> O <sub>2</sub> Ethyl and Methyl Esters. <i>Journal of Physical Chemistry A</i> , 2007, 111, 4001-4014.	1.1	157
6	Enthalpies of Formation, Bond Dissociation Energies and Reaction Paths for the Decomposition of Model Biofuels: Ethyl Propanoate and Methyl Butanoate. <i>Journal of Physical Chemistry A</i> , 2007, 111, 3727-3739.	1.1	145
7	Comparison of receptor models for source apportionment of the PM <sub>10</sub> in Zaragoza (Spain). <i>Chemosphere</i> , 2009, 76, 1120-1129.	4.2	141
8	Valorisation of waste tyre by pyrolysis in a moving bed reactor. <i>Waste Management</i> , 2010, 30, 1220-1224.	3.7	134
9	Pyrolysis kinetics of biomass wastes using isoconversional methods and the distributed activation energy model. <i>Bioresource Technology</i> , 2019, 288, 121485.	4.8	125
10	Levels of selected metals in ambient air PM <sub>10</sub> in an urban site of Zaragoza (Spain). <i>Environmental Research</i> , 2005, 99, 58-67.	3.7	114
11	Spatial and temporal PAH concentrations in Zaragoza, Spain. <i>Science of the Total Environment</i> , 2003, 307, 111-124.	3.9	99
12	Waste Tire Pyrolysis: Comparison between Fixed Bed Reactor and Moving Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 4029-4033.	1.8	98
13	Valorisation of forestry waste by pyrolysis in an auger reactor. <i>Waste Management</i> , 2011, 31, 1339-1349.	3.7	96
14	Kinetic study for the co-pyrolysis of lignocellulosic biomass and plastics using the distributed activation energy model. <i>Energy</i> , 2018, 165, 731-742.	4.5	82
15	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.	4.4	76
16	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.	4.2	72
17	Adsorption of phenanthrene on activated carbons: Breakthrough curve modeling. <i>Carbon</i> , 2004, 42, 2009-2017.	5.4	67
18	Assessment of tire devolatilization kinetics. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 74, 259-264.	2.6	66

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19	Removal of Naphthalene, Phenanthrene, and Pyrene by Sorbents from Hot Gas. <i>Environmental Science &amp; Technology</i> , 2001, 35, 2395-2400.	4.6	61
20	Activation of pyrolytic tire char with CO <sub>2</sub> : kinetic study. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 71, 945-957.	2.6	57
21	Drop-in biofuels from the co-pyrolysis of grape seeds and polystyrene. <i>Chemical Engineering Journal</i> , 2019, 377, 120246.	6.6	57
22	Bifunctional Cu/H-ZSM-5 zeolite with hierarchical porosity for hydrocarbon abatement under cold-start conditions. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 161-170.	10.8	54
23	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.	2.2	53
24	Thermochemistry of Acetylonyl and Related Radicals. <i>Journal of Physical Chemistry A</i> , 2006, 110, 13618-13623.	1.1	52
25	Production and Application of Activated Carbons Made from Waste Tire. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 7228-7233.	1.8	48
26	Critical review on atmospheric PAH. Assessment of reported data in the Mediterranean basin. <i>Fuel Processing Technology</i> , 2003, 80, 183-193.	3.7	47
27	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.	1.1	43
28	Measurements of Polycyclic Aromatic Hydrocarbon Adsorption on Activated Carbons at Very Low Concentrations. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 155-161.	1.8	36
29	Application of the distributed activation energy model to biomass and biomass constituents devolatilization. <i>AIChE Journal</i> , 2009, 55, 2700-2715.	1.8	36
30	Kinetic Model Comparison for Waste Tire Char Reaction with CO <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 7768-7773.	1.8	35
31	CO <sub>2</sub> gasification of char derived from waste tire pyrolysis: Kinetic models comparison. <i>Fuel</i> , 2020, 273, 117745.	3.4	34
32	Three-Ring PAH Removal from Waste Hot Gas by Sorbents: Influence of the Sorbent Characteristics. <i>Environmental Science &amp; Technology</i> , 2002, 36, 1821-1826.	4.6	32
33	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.	3.7	32
34	Study of the viability of the process for hydrogen recovery from old tyre oils. <i>Fuel Processing Technology</i> , 2002, 75, 185-199.	3.7	31
35	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.	3.7	31
36	Analysis of the evolution of the pore size distribution and the pore network connectivity of a porous carbon during activation. <i>Carbon</i> , 2006, 44, 2281-2288.	5.4	30

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37	CuH-ZSM-5 as Hydrocarbon Trap under Cold Start Conditions. <i>Environmental Science &amp; Technology</i> , 2013, 47, 5851-5857.	4.6	29
38	Validation of the H <sub>2</sub> production stage via SER under relevant conditions for the Ca/Cu reforming process practical application. <i>Chemical Engineering Journal</i> , 2017, 324, 266-278.	6.6	28
39	Moisture Effects on the Phenanthrene Adsorption Capacity by Carbonaceous Materials. <i>Energy &amp; Fuels</i> , 2002, 16, 205-210.	2.5	26
40	Improvement of liquids from coal-tire co-thermolysis. Characterization of the obtained oils. <i>Fuel Processing Technology</i> , 2000, 64, 135-140.	3.7	23
41	Effects of Limestone on Polycyclic Aromatic Hydrocarbon Emissions during Coal Atmospheric Fluidized Bed Combustion. <i>Energy &amp; Fuels</i> , 2001, 15, 1469-1474.	2.5	23
42	Waste tyre pyrolysis: Modelling of a moving bed reactor. <i>Waste Management</i> , 2010, 30, 2530-2536.	3.7	23
43	Optimizing the performance of catalytic traps for hydrocarbon abatement during the cold-start of a gasoline engine. <i>Journal of Hazardous Materials</i> , 2014, 279, 527-536.	6.5	23
44	Catalyst evaluation for high-purity H <sub>2</sub> production by sorption-enhanced steam-methane reforming coupled to a Ca/Cu process. <i>Journal of Power Sources</i> , 2017, 363, 117-125.	4.0	23
45	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.	2.2	22
46	Modelling the heat and mass transfers of propane onto a ZSM-5 zeolite. <i>Separation and Purification Technology</i> , 2012, 86, 127-136.	3.9	21
47	Abatement of hydrocarbons by acid ZSM-5 and BETA zeolites under cold-start conditions. <i>Adsorption</i> , 2013, 19, 357-365.	1.4	20
48	Thermochemistry and kinetics of acetylperoxy radical isomerisation and decomposition: a quantum chemistry and CVT/SCT approach. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 7139.	1.3	19
49	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.	3.8	18
50	Influence of sorbent characteristics on the adsorption of PAC. <i>Fuel Processing Technology</i> , 2002, 77-78, 365-372.	3.7	17
51	Study of the Adsorption of Polyaromatic Hydrocarbon Binary Mixtures on Carbon Materials by Gas-Phase Fluorescence Detection. <i>Energy &amp; Fuels</i> , 2003, 17, 669-676.	2.5	17
52	Development of Efficient Adsorbent Materials for PAH Cleaning from AFBC Hot Gas. <i>Energy &amp; Fuels</i> , 2004, 18, 202-208.	2.5	17
53	Application of the distributed activation energy model to blends devolatilisation. <i>Chemical Engineering Journal</i> , 2008, 142, 87-94.	6.6	17
54	Molecular simulation design of a multisite solid for the abatement of cold start emissions. <i>Chemical Communications</i> , 2012, 48, 6571.	2.2	15

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55	Effects of CO <sub>2</sub> on the Phenanthrene Adsorption Capacity of Carbonaceous Materials. Energy & Fuels, 2002, 16, 510-516.	2.5	14
56	Experimental and simulated propene isotherms on porous solids. Applied Surface Science, 2010, 256, 5292-5297.	3.1	14
57	Modeling of Activated Carbon Production from Lignite. Energy & Fuels, 2006, 20, 2627-2631.	2.5	13
58	Temperature Swing Adsorption of Polycyclic Aromatic Hydrocarbons on Activated Carbons. Industrial & Engineering Chemistry Research, 2007, 46, 8193-8198.	1.8	13
59	Aromatization of oils from coal-tyre cothermolysis. Fuel Processing Technology, 2000, 68, 45-55.	3.7	11
60	Modelling the Breakthrough Curves Obtained from the Adsorption of Propene onto Microporous Inorganic Solids. Adsorption Science and Technology, 2010, 28, 761-775.	1.5	7
61	Development of Synthetic Ca-based CO <sub>2</sub> Sorbents for Sorption Enhanced Reforming Coupled to Ca/Cu Chemical Loop. Energy Procedia, 2017, 114, 230-241.	1.8	6
62	WHERE ARE THE LIMITS OF THE GAS-PHASE FLUORESCENCE ON THE POLYCYCLIC AROMATIC COMPOUND ANALYSIS?. Polycyclic Aromatic Compounds, 2004, 24, 325-332.	1.4	5
63	Assessment of the development of the pore size distribution during carbon activation: a population balance approach. Studies in Surface Science and Catalysis, 2007, 160, 551-558.	1.5	4
64	Phenanthrene Adsorption on a Carbonaceous Material: Moisture and CO <sub>2</sub> Influence. Studies in Surface Science and Catalysis, 2002, 144, 283-290.	1.5	1
65	Response to the comment on "The application of thermal processes to valorise waste tyre" by J.C. Jones. Fuel Processing Technology, 2006, 87, 755.	3.7	1
66	Limestone Influence on PAH Emissions from Coal AFBC. Catalytic or/and Adsorption Effect?. Studies in Surface Science and Catalysis, 2002, , 403-409.	1.5	0