

# Fernando Rubiera

## List of Publications by Year in descending order

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181  
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| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Modeling a biogas upgrading PSA unit with a sustainable activated carbon derived from pine sawdust. Sensitivity analysis on the adsorption of CO <sub>2</sub> and CH <sub>4</sub> mixtures. Chemical Engineering Journal, 2022, 428, 132564. | 12.7 | 30        |
| 2  | Blends of bio-oil/biogas model compounds for high-purity H <sub>2</sub> production by sorption enhanced steam reforming (SESR): Experimental study and energy analysis. Chemical Engineering Journal, 2022, 432, 134396.                     | 12.7 | 16        |
| 3  | Experimental Study on the Kinetics of CO <sub>2</sub> and H <sub>2</sub> O Adsorption on Honeycomb Carbon Monoliths under Cement Flue Gas Conditions. ACS Sustainable Chemistry and Engineering, 2022, 10, 2107-2124.                        | 6.7  | 11        |
| 4  | Renewable hydrogen production from biogas by sorption enhanced steam reforming (SESR): A parametric study. Energy, 2021, 218, 119491.  | 8.8  | 33        |
| 5  | Hubs and clusters approach to unlock the development of carbon capture and storage “ Case study in Spain. Applied Energy, 2021, 300, 117418.   | 10.1 | 40        |
| 6  | Residual pyrolysis biochar as additive to enhance wood pellets quality. Renewable Energy, 2021, 180, 850-859.  | 8.9  | 13        |
| 7  | Thermodynamic Analysis of Biomass Gasification Using Aspen Plus: Comparison of Stoichiometric and Non-Stoichiometric Models. Energies, 2021, 14, 189.  | 3.1  | 27        |
| 8  | Co-pelletization of pine sawdust and refused derived fuel (RDF) to high-quality waste-derived pellets. Journal of Cleaner Production, 2021, 328, 129635.   | 9.3  | 25        |
| 9  | Vacuum swing CO <sub>2</sub> adsorption cycles in Waste-to-Energy plants. Chemical Engineering Journal, 2020, 382, 122841.   | 12.7 | 21        |
| 10 | Pelletization of torrefied biomass with solid and liquid bio-additives. Renewable Energy, 2020, 151, 175-183.  | 8.9  | 26        |
| 11 | CO <sub>2</sub> Capture, Use, and Storage in the Cement Industry: State of the Art and Expectations. Energies, 2020, 13, 5692.   | 3.1  | 103       |
| 12 | On the effect of biogas composition on the H <sub>2</sub> production by sorption enhanced steam reforming (SESR). Renewable Energy, 2020, 160, 575-583.  | 8.9  | 43        |
| 13 | Development of carbon-based vacuum, temperature and concentration swing adsorption post-combustion CO <sub>2</sub> capture processes. Chemical Engineering Journal, 2019, 375, 122002.   | 12.7 | 27        |
| 14 | Evaluation of a novel multibed heat-integrated vacuum and temperature swing adsorption post-combustion CO <sub>2</sub> capture process. Applied Energy, 2019, 250, 916-925.  | 10.1 | 35        |
| 15 | Measuring heat capacity of activated carbons for CO <sub>2</sub> capture. Journal of CO <sub>2</sub> Utilization, 2019, 33, 148-156.   | 6.8  | 17        |
| 16 | Biomass Pelletization: Contribution to Renewable Power Generation Scenarios. Biofuels and Biorefineries, 2019, , 269-294.  | 0.5  | 1         |
| 17 | Pelletization of wood and alternative residual biomass blends for producing industrial quality pellets. Fuel, 2019, 251, 739-753.  | 6.4  | 94        |
| 18 | Assessing the influence of biomass properties on the gasification process using multivariate data analysis. Energy Conversion and Management, 2019, 184, 649-660.  | 9.2  | 39        |

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|----|--|------|-----------|
| 19 | Coal and biomass cofiring. , 2019, , 117-140.  |      | 20        |
| 20 | Enhanced capacity to CO <sub>2</sub> sorption in humid conditions with a K-doped biocarbon. Journal of Energy Chemistry, 2019, 34, 208-219.  | 12.9 | 10        |
| 21 | Unconventional biomass fuels for steam gasification: Kinetic analysis and effect of ash composition on reactivity. Energy, 2018, 155, 426-437.   | 8.8  | 48        |
| 22 | Pelletization properties of raw and torrefied pine sawdust: Effect of co-pelletization, temperature, moisture content and glycerol addition. Fuel, 2018, 215, 290-297.   | 6.4  | 41        |
| 23 | Sustainable coffee-based CO <sub>2</sub> adsorbents: toward a greener production via hydrothermal carbonization. , 2018, 8, 309-323.   |      | 15        |
| 24 | Simplistic approach for preliminary screening of potential carbon adsorbents for CO <sub>2</sub> separation from biogas. Journal of CO <sub>2</sub> Utilization, 2018, 28, 207-215.                            | 6.8  | 17        |
| 25 | Comparison of the gasification performance of multiple biomass types in a bubbling fluidized bed. Energy Conversion and Management, 2018, 176, 309-323.  | 9.2  | 66        |
| 26 | Biogas purification by means of adsorption on pine sawdust-based activated carbon: Impact of water vapor. Chemical Engineering Journal, 2018, 353, 197-207.  | 12.7 | 58        |
| 27 | Microalgae: Potential precursors of CO <sub>2</sub> adsorbents. Journal of CO <sub>2</sub> Utilization, 2018, 26, 454-464.   | 6.8  | 37        |
| 28 | Adsorption-based Process Modelling for Post-combustion CO <sub>2</sub> Capture. Energy Procedia, 2017, 114, 2353-2361.   | 1.8  | 10        |
| 29 | Carbon Monoliths in Adsorption-based Post-combustion CO <sub>2</sub> Capture. Energy Procedia, 2017, 114, 2341-2352.   | 1.8  | 19        |
| 30 | Evaluating the Feasibility of a TSA Process Based on Steam Stripping in Combination with Structured Carbon Adsorbents To Capture CO <sub>2</sub> from a Coal Power Plant. Energy & Fuels, 2017, 31, 9760-9775. | 5.1  | 35        |
| 31 | Adsorption Performance Indicator to Screen Carbon Adsorbents for Post-combustion CO <sub>2</sub> Capture. Energy Procedia, 2017, 114, 2362-2371.   | 1.8  | 8         |
| 32 | Kinetics of CO <sub>2</sub> adsorption on cherry stone-based carbons in CO <sub>2</sub> /CH <sub>4</sub> separations. Chemical Engineering Journal, 2017, 307, 249-257.  | 12.7 | 148       |
| 33 | Separation of CO <sub>2</sub> in a Solid Waste Management Incineration Facility Using Activated Carbon Derived from Pine Sawdust. Energies, 2017, 10, 827.   | 3.1  | 19        |
| 34 | Optimization of a Bubbling Fluidized Bed Plant for Low-Temperature Gasification of Biomass. Energies, 2017, 10, 306.   | 3.1  | 28        |
| 35 | Phenol-Formaldehyde Resin-Based Carbons for CO <sub>2</sub> Separation at Sub-Atmospheric Pressures. Energies, 2016, 9, 189.   | 3.1  | 11        |
| 36 | Water Vapor Adsorption on Biomass Based Carbons under Post-Combustion CO <sub>2</sub> Capture Conditions: Effect of Post-Treatment. Materials, 2016, 9, 359.   | 2.9  | 25        |

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|----|---|------|-----------|
| 37 | Experimental and Simulation Study of Adsorption in Postcombustion Conditions Using a Microporous Biochar. 2. H <sub>2</sub> O, CO <sub>2</sub> , and N <sub>2</sub> Adsorption. Industrial & Engineering Chemistry Research, 2016, 55, 6854-6865. | 3.7  | 32        |
| 38 | Effect of operating conditions on the sorption enhanced steam reforming of blends of acetic acid and acetone as bio-oil model compounds. Applied Energy, 2016, 177, 579-590.  | 10.1 | 52        |
| 39 | Dynamic Performance of Biomass-Based Carbons for CO <sub>2</sub> /CH <sub>4</sub> Separation. Approximation to a Pressure Swing Adsorption Process for Biogas Upgrading. Energy & Fuels, 2016, 30, 5005-5015.                                     | 5.1  | 53        |
| 40 | Production of fuel-cell grade H <sub>2</sub> by sorption enhanced steam reforming of acetic acid as a model compound of biomass-derived bio-oil. Applied Catalysis B: Environmental, 2016, 184, 64-76.  | 20.2 | 81        |
| 41 | Experimental and Simulation Study of Adsorption in Postcombustion Conditions Using a Microporous Biochar. 1. CO <sub>2</sub> and N <sub>2</sub> Adsorption. Industrial & Engineering Chemistry Research, 2016, 55, 3097-3112.                     | 3.7  | 43        |
| 42 | Adsorption performance indicators for the CO <sub>2</sub> /CH <sub>4</sub> separation: Application to biomass-based activated carbons. Fuel Processing Technology, 2016, 142, 361-369.  | 7.2  | 81        |
| 43 | Nutritional, carbon and energy evaluation of Eucalyptus nitens short rotation bioenergy plantations in northwestern Spain. IForest, 2016, 9, 303-310.   | 1.4  | 16        |
| 44 | Cherry-estones-based activated carbons as potential adsorbents for CO <sub>2</sub> /CH <sub>4</sub> separation: effect of the activation parameters. , 2015, 5, 812-825.  |      | 27        |
| 45 | Carbon adsorbents for CO <sub>2</sub> capture from bio-hydrogen and biogas streams: Breakthrough adsorption study. Chemical Engineering Journal, 2015, 269, 148-158.  | 12.7 | 71        |
| 46 | Water vapour adsorption by a coffee-based microporous carbon: effect on CO <sub>2</sub> capture. Journal of Chemical Technology and Biotechnology, 2015, 90, 1592-1600.   | 3.2  | 21        |
| 47 | Green coffee based CO <sub>2</sub> adsorbent with high performance in postcombustion conditions. Fuel, 2015, 140, 633-648.  | 6.4  | 37        |
| 48 | CO <sub>2</sub> adsorbent pellets produced from pine sawdust: Effect of coal tar pitch addition. Applied Energy, 2015, 144, 182-192.  | 10.1 | 35        |
| 49 | Grindability and combustion behavior of coal and torrefied biomass blends. Bioresource Technology, 2015, 191, 205-212.  | 9.6  | 101       |
| 50 | Biomass devolatilization at high temperature under N <sub>2</sub> and CO <sub>2</sub> : Char morphology and reactivity. Energy, 2015, 91, 655-662.  | 8.8  | 109       |
| 51 | H <sub>2</sub> production by sorption enhanced steam reforming of biomass-derived bio-oil in a fluidized bed reactor: An assessment of the effect of operation variables using response surface methodology. Catalysis Today, 2015, 242, 19-34.   | 4.4  | 44        |
| 52 | H <sub>2</sub> production by steam reforming with in situ CO <sub>2</sub> capture of biomass-derived bio-oil. Energy Procedia, 2014, 63, 6815-6823.   | 1.8  | 7         |
| 53 | Evaluation of Microporous Biochars Produced by Single-step Oxidation for Postcombustion CO <sub>2</sub> Capture under Humid Conditions. Energy Procedia, 2014, 63, 693-702.   | 1.8  | 15        |
| 54 | Towards Bio-upgrading of Biogas: Biomass Waste-based Adsorbents. Energy Procedia, 2014, 63, 6527-6533.  | 1.8  | 29        |

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|----|--|------|-----------|
| 55 | Biomass co-firing under oxy-fuel conditions: A computational fluid dynamics modelling study and experimental validation. <i>Fuel Processing Technology</i> , 2014, 120, 22-33.                                       | 7.2  | 65        |
| 56 | Single particle ignition and combustion of anthracite, semi-anthracite and bituminous coals in air and simulated oxy-fuel conditions. <i>Combustion and Flame</i> , 2014, 161, 1096-1108.                            | 5.2  | 174       |
| 57 | Combustion of single biomass particles in air and in oxy-fuel conditions. <i>Biomass and Bioenergy</i> , 2014, 64, 162-174.  | 5.7  | 138       |
| 58 | Production of microporous biochars by single-step oxidation: Effect of activation conditions on CO <sub>2</sub> capture. <i>Applied Energy</i> , 2014, 114, 551-562.   | 10.1 | 181       |
| 59 | Multifunctional Pd/Ni-Co Catalyst for Hydrogen Production by Chemical Looping Coupled With Steam Reforming of Acetic Acid. <i>ChemSusChem</i> , 2014, 7, 3063-3077.  | 6.8  | 42        |
| 60 | Influence of Water Vapor on CO <sub>2</sub> Adsorption Using a Biomass-Based Carbon. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 15488-15499.   | 3.7  | 31        |
| 61 | Cyclic operation of a fixed-bed pressure and temperature swing process for CO <sub>2</sub> capture: Experimental and statistical analysis. <i>International Journal of Greenhouse Gas Control</i> , 2013, 12, 35-43. | 4.6  | 31        |
| 62 | CFD modeling of oxy-coal combustion: Prediction of burnout, volatile and NO precursors release. <i>Applied Energy</i> , 2013, 104, 653-665.  | 10.1 | 59        |
| 63 | Oxy-coal combustion in an entrained flow reactor: Application of specific char and volatile combustion and radiation models for oxy-firing conditions. <i>Energy</i> , 2013, 62, 255-268.                            | 8.8  | 44        |
| 64 | Dynamic cyclic performance of phenol-formaldehyde resin-derived carbons for pre-combustion CO <sub>2</sub> capture: An experimental study. <i>Energy Procedia</i> , 2013, 37, 127-133.                               | 1.8  | 4         |
| 65 | Ignition and NO Emissions of Coal and Biomass Blends under Different Oxy-fuel Atmospheres. <i>Energy Procedia</i> , 2013, 37, 1405-1412.   | 1.8  | 19        |
| 66 | Sustainable biomass-based carbon adsorbents for post-combustion CO <sub>2</sub> capture. <i>Chemical Engineering Journal</i> , 2013, 230, 456-465.   | 12.7 | 211       |
| 67 | Post-combustion CO <sub>2</sub> capture adsorbents from spent coffee grounds. <i>Energy Procedia</i> , 2013, 37, 134-141.  | 1.8  | 36        |
| 68 | Influence of oxidation upon the CO <sub>2</sub> capture performance of a phenolic-resin-derived carbon. <i>Fuel Processing Technology</i> , 2013, 110, 53-60.  | 7.2  | 40        |
| 69 | Predicting Mixed-Gas Adsorption Equilibria on Activated Carbon for Precombustion CO <sub>2</sub> Capture. <i>Langmuir</i> , 2013, 29, 6042-6052.   | 3.5  | 74        |
| 70 | Response surface methodology as an efficient tool for optimizing carbon adsorbents for CO <sub>2</sub> capture. <i>Fuel Processing Technology</i> , 2013, 106, 55-61.  | 7.2  | 50        |
| 71 | Progress in pilot, large-scale projects as an inducement for CCUS deployment. , 2013, 3, 97-98.  |      | 2         |
| 72 | Ignition behavior of coal and biomass blends under oxy-firing conditions with steam additions. , 2013, 3, 397-414.   |      | 14        |

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|----|---|------|-----------|
| 73 | Hydrogen production from food wastes and gas post-treatment by CO <sub>2</sub> adsorption. Waste Management, 2012, 32, 60-66.   | 7.4  | 49        |
| 74 | Valorisation of spent coffee grounds as CO <sub>2</sub> adsorbents for postcombustion capture applications. Applied Energy, 2012, 99, 272-279.  | 10.1 | 243       |
| 75 | Kinetic models for the oxy-fuel combustion of coal and coal/biomass blend chars obtained in N <sub>2</sub> and CO <sub>2</sub> atmospheres. Energy, 2012, 48, 510-518.                                  | 8.8  | 86        |
| 76 | Precombustion CO <sub>2</sub> capture by means of phenolâ€‘formaldehyde resin-derived carbons: From equilibrium to dynamic conditions. Separation and Purification Technology, 2012, 98, 531-538.       | 7.9  | 20        |
| 77 | Sorption enhanced catalytic steam gasification process: a direct route from lignocellulosic biomass to high purity hydrogen. Energy and Environmental Science, 2012, 5, 6358.                           | 30.8 | 77        |
| 78 | Effect of coâ€‘gasification of biomass and petroleum coke with coal on the production of gases. , 2012, 2, 304-313.   |      | 10        |
| 79 | A study of oxy-coal combustion with steam addition and biomass blending by thermogravimetric analysis. Journal of Thermal Analysis and Calorimetry, 2012, 109, 49-55.                                   | 3.6  | 56        |
| 80 | Numerical investigation of NO emissions from an entrained flow reactor under oxy-coal conditions. Fuel Processing Technology, 2012, 93, 53-64.  | 7.2  | 17        |
| 81 | Oxy-fuel combustion kinetics and morphology of coal chars obtained in N <sub>2</sub> and CO <sub>2</sub> atmospheres in an entrained flow reactor. Applied Energy, 2012, 91, 67-74.                     | 10.1 | 97        |
| 82 | Oxy-fuel combustion of coal and biomass blends. Energy, 2012, 41, 429-435.  | 8.8  | 144       |
| 83 | Kinetic Parameters and Reactivity for the Steam Gasification of Coal Chars Obtained under Different Pyrolysis Temperatures and Pressures. Energy & Fuels, 2011, 25, 3574-3580.                          | 5.1  | 20        |
| 84 | Raw Materials, Selection, Preparation and Characterization. Green Energy and Technology, 2011, , 11-22.   | 0.6  | 0         |
| 85 | Hypercrosslinked organic polymer networks as potential adsorbents for pre-combustion CO <sub>2</sub> capture. Journal of Materials Chemistry, 2011, 21, 5475.   | 6.7  | 302       |
| 86 | Effect of oxy-fuel combustion with steam addition on coal ignition and burnout in an entrained flow reactor. Energy, 2011, 36, 5314-5319.   | 8.8  | 105       |
| 87 | NO emissions in oxyâ€‘coal combustion with the addition of steam in an entrained flow reactor. , 2011, 1, 180-190.  |      | 38        |
| 88 | CFD modelling of oxy-coal combustion in an entrained flow reactor. Fuel Processing Technology, 2011, 92, 1489-1497.   | 7.2  | 56        |
| 89 | Breakthrough adsorption study of a commercial activated carbon for pre-combustion CO <sub>2</sub> capture. Chemical Engineering Journal, 2011, 171, 549-556.  | 12.7 | 129       |
| 90 | Evaluation of ammonia modified and conventionally activated biomass based carbons as CO <sub>2</sub> adsorbents in postcombustion conditions. Separation and Purification Technology, 2011, 80, 96-104. | 7.9  | 93        |

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|-----|---|------|-----------|
| 91  | Doped phenol-formaldehyde resins as precursors for precombustion CO <sub>2</sub> capture adsorbents. Energy Procedia, 2011, 4, 1222-1227.   | 1.8  | 5         |
| 92  | Evaluation of the cyclic capacity of low-cost carbon adsorbents for post-combustion CO <sub>2</sub> capture. Energy Procedia, 2011, 4, 1228-1234.   | 1.8  | 29        |
| 93  | Microporous phenol-formaldehyde resin-based adsorbents for pre-combustion CO <sub>2</sub> capture. Fuel, 2011, 90, 2064-2072.   | 6.4  | 52        |
| 94  | Heterogeneous reaction mechanisms of the reduction of nitric oxide on carbon surfaces: a theoretical analysis. Theoretical Chemistry Accounts, 2010, 127, 95-108.   | 1.4  | 21        |
| 95  | Influence of storage time on the quality and combustion behaviour of pine woodchips. Energy, 2010, 35, 3066-3071.   | 8.8  | 47        |
| 96  | Developing almond shell-derived activated carbons as CO <sub>2</sub> adsorbents. Separation and Purification Technology, 2010, 71, 102-106.   | 7.9  | 185       |
| 97  | On the limits of CO <sub>2</sub> capture capacity of carbons. Separation and Purification Technology, 2010, 74, 225-229.  | 7.9  | 117       |
| 98  | Intrinsic char reactivity of plastic waste (PET) during CO <sub>2</sub> gasification. Fuel Processing Technology, 2010, 91, 1776-1781.  | 7.2  | 29        |
| 99  | Application of response surface methodology to assess the combined effect of operating variables on high-pressure coal gasification for H <sub>2</sub> -rich gas production. International Journal of Hydrogen Energy, 2010, 35, 1191-1204. | 7.1  | 72        |
| 100 | Thermal behaviour and kinetics of coal/biomass blends during co-combustion. Bioresource Technology, 2010, 101, 5601-5608.   | 9.6  | 445       |
| 101 | Amoxidation of carbon materials for CO <sub>2</sub> capture. Applied Surface Science, 2010, 256, 6843-6849.   | 6.1  | 86        |
| 102 | Kinetic models comparison for non-isothermal steam gasification of coal-biomass blend chars. Chemical Engineering Journal, 2010, 161, 276-284.  | 12.7 | 108       |
| 103 | Post-combustion CO <sub>2</sub> capture with a commercial activated carbon: Comparison of different regeneration strategies. Chemical Engineering Journal, 2010, 163, 41-47.  | 12.7 | 292       |
| 104 | The importance of thermal behaviour and petrographic composition for understanding the characteristics of a Portuguese perhydrous Jurassic coal. International Journal of Coal Geology, 2010, 84, 237-247.                                  | 5.0  | 11        |
| 105 | Co-gasification of different rank coals with biomass and petroleum coke in a high-pressure reactor for H <sub>2</sub> -rich gas production. Bioresource Technology, 2010, 101, 3230-3235.   | 9.6  | 131       |
| 106 | Mechanical durability and combustion characteristics of pellets from biomass blends. Bioresource Technology, 2010, 101, 8859-8867.  | 9.6  | 186       |
| 107 | Effect of the Pressure and Temperature of Devolatilization on the Morphology and Steam Gasification Reactivity of Coal Chars. Energy & Fuels, 2010, 24, 5586-5595.  | 5.1  | 29        |
| 108 | Development of low-cost biomass-based adsorbents for postcombustion CO <sub>2</sub> capture. Fuel, 2009, 88, 2442-2447.   | 6.4  | 187       |

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|-----|--|------|-----------|
| 109 | High-pressure co-gasification of coal with biomass and petroleum coke. Fuel Processing Technology, 2009, 90, 926-932.  | 7.2  | 173       |
| 110 | High-pressure gasification reactivity of biomass chars produced at different temperatures. Journal of Analytical and Applied Pyrolysis, 2009, 85, 287-293.   | 5.5  | 108       |
| 111 | Developing activated carbon adsorbents for pre-combustion CO2 capture. Energy Procedia, 2009, 1, 599-605.  | 1.8  | 44        |
| 112 | A comparison of two methods for producing CO2 capture adsorbents. Energy Procedia, 2009, 1, 1107-1113.   | 1.8  | 65        |
| 113 | Effect of mesoporosity on specific capacitance of carbons. Carbon, 2009, 47, 1598-1604.  | 10.3 | 65        |
| 114 | Different Approaches for the Development of Low-Cost CO2 Adsorbents. Journal of Environmental Engineering, ASCE, 2009, 135, 426-432.   | 1.4  | 125       |
| 115 | Application of thermogravimetric analysis to the evaluation of aminated solid sorbents for CO2 capture. Journal of Thermal Analysis and Calorimetry, 2008, 92, 601-606.                            | 3.6  | 143       |
| 116 | Kinetic models comparison for steam gasification of different nature fuel chars. Journal of Thermal Analysis and Calorimetry, 2008, 91, 779-786.   | 3.6  | 117       |
| 117 | Surface modification of activated carbons for CO2 capture. Applied Surface Science, 2008, 254, 7165-7172.  | 6.1  | 417       |
| 118 | Effect of biomass blending on coal ignition and burnout during oxy-fuel combustion. Fuel, 2008, 87, 2753-2759.   | 6.4  | 141       |
| 119 | Influence of torrefaction on the grindability and reactivity of woody biomass. Fuel Processing Technology, 2008, 89, 169-175.  | 7.2  | 634       |
| 120 | A comparison of characterization methods based on N2 and CO2 adsorption for the assessment of the pore size distribution of carbons. Studies in Surface Science and Catalysis, 2007, 160, 319-326. | 1.5  | 9         |
| 121 | Removal of naphthalene from aqueous solution on chemically modified activated carbons. Water Research, 2007, 41, 333-340.  | 11.3 | 76        |
| 122 | Effects of activated carbon properties on the adsorption of naphthalene from aqueous solutions. Applied Surface Science, 2007, 253, 5741-5746.   | 6.1  | 58        |
| 123 | On the mechanism of reactive adsorption of dibenzothiophene on organic waste derived carbons. Applied Surface Science, 2007, 253, 5899-5903.   | 6.1  | 45        |
| 124 | Synthetic coal chars for the elucidation of NO heterogeneous reduction mechanisms. Fuel, 2007, 86, 41-49.  | 6.4  | 45        |
| 125 | Ignition characteristics of coal blends in an entrained flow furnace. Fuel, 2007, 86, 2076-2080.   | 6.4  | 53        |
| 126 | CO2 capture by adsorption with nitrogen enriched carbons. Fuel, 2007, 86, 2204-2212.   | 6.4  | 451       |



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|-----|--|-----|-----------|
| 127 | Changes in coal char reactivity and texture during combustion in an entrained flow reactor. Journal of Thermal Analysis and Calorimetry, 2007, 90, 859-863.                          | 3.6 | 8         |
| 128 | Structural Changes in Polyethylene Terephthalate (PET) Waste Materials Caused by Pyrolysis and CO <sub>2</sub> Activation. Adsorption Science and Technology, 2006, 24, 439-450.     | 3.2 | 21        |
| 129 | Geochemistry, mineralogy and technological properties of coals from Rio Maior (Portugal) and Peñarroya (Spain) basins. International Journal of Coal Geology, 2006, 67, 171-190.     | 5.0 | 40        |
| 130 | Ignition behaviour of different rank coals in an entrained flow reactor. Fuel, 2005, 84, 2172-2177.  | 6.4 | 51        |
| 131 | Prediction of unburned carbon and NO <sub>x</sub> in a tangentially fired power station using single coals and blends. Fuel, 2005, 84, 2196-2203.                                    | 6.4 | 97        |
| 132 | Heterogeneous reduction of nitric oxide on synthetic coal chars. Fuel, 2005, 84, 2275-2279.  | 6.4 | 31        |
| 133 | Surface modification of low cost carbons for their application in the environmental protection. Applied Surface Science, 2005, 252, 619-624.   | 6.1 | 122       |
| 134 | Pyrolysis of activated carbons exhausted with organic compounds. Journal of Analytical and Applied Pyrolysis, 2005, 74, 518-524.   | 5.5 | 36        |
| 135 | Evaluation of the combustion behaviour of perhydrous coals by thermal analysis. Journal of Thermal Analysis and Calorimetry, 2005, 81, 333-337.                                      | 3.6 | 9         |
| 136 | Use of Nitrogen Stable Isotope Analysis To Understand Char Nitrogen Evolution during the Fluidized-Bed Co-combustion of Coal and Sewage Sludge. Energy & Fuels, 2005, 19, 485-488.   | 5.1 | 7         |
| 137 | STUDY OF THE EVOLUTION OF NITROGEN COMPOUNDS DURING COAL DEVOLATILIZATION. Clean Air, 2005, 6, 393-408.  | 0.0 | 1         |
| 138 | NO <sub>x</sub> EMISSIONS AND COMBUSTIBILITY CHARACTERISTICS OF COAL BLENDS. Clean Air, 2005, 6, 83-97.  | 0.0 | 1         |
| 139 | A STUDY OF THE HETEROGENEOUS REDUCTION OF NO ON BITUMINOUS COAL CHARS. International Journal of Energy for A Clean Environment, 2004, 5, 18.   | 1.1 | 0         |
| 140 | Relationship between structure and reactivity of carbonaceous materials. Journal of Thermal Analysis and Calorimetry, 2004, 76, 593-602.   | 3.6 | 39        |
| 141 | A TG/DTA study on the effect of coal blending on ignition behaviour. Journal of Thermal Analysis and Calorimetry, 2004, 76, 603-614.   | 3.6 | 74        |
| 142 | Supercritical gas extracts from low-quality coals: on the search of new precursors for carbon materials. Fuel Processing Technology, 2004, 86, 205-222.                              | 7.2 | 10        |
| 143 | Effects of oxidative treatments with air and CO <sub>2</sub> on vapour grown carbon nanofibres (VGCNFs) produced at industrial scale. Thermochemica Acta, 2004, 423, 99-106.         | 2.7 | 19        |
| 144 | Characterisation of model compounds and a synthetic coal by TG/MS/FTIR to represent the pyrolysis behaviour of coal. Journal of Analytical and Applied Pyrolysis, 2004, 71, 747-763. | 5.5 | 105       |

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|-----|---|------|-----------|
| 145 | High value carbon materials from PET recycling. Applied Surface Science, 2004, 238, 304-308.  | 6.1  | 61        |
| 146 | Surface characterisation of synthetic coal chars made from model compounds. Carbon, 2004, 42, 1345-1350.  | 10.3 | 15        |
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