Patricia

List of Publications by Year in descending order

81 papers	3,636 citations	136950 32 h-index	138484 58 g-index
82 all docs	82 docs citations	82 times ranked	5181 citing authors

#	Article	IF	Citations
1	Graphene materials with different structures prepared from the same graphite by the Hummers and Brodie methods. Carbon, 2013, 65, 156-164.	10.3	345
2	Raman spectroscopy for the study of reduction mechanisms and optimization of conductivity in graphene oxide thin films. Journal of Materials Chemistry C, 2013, 1, 6905.	5.5	259
3	Critical temperatures in the synthesis of graphene-like materials by thermal exfoliationâ€“reduction of graphite oxide. Carbon, 2013, 52, 476-485.	10.3	236
4	The effect of the parent graphite on the structure of graphene oxide. Carbon, 2012, 50, 275-282.	10.3	188
5	Chemicals from Coal Coking. Chemical Reviews, 2014, 114, 1608-1636.	47.7	166
6	Correct use of the Langmuirâ€“Hinshelwood equation for proving the absence of a synergy effect in the photocatalytic degradation of phenol on a suspended mixture of titania and activated carbon. Carbon, 2013, 55, 62-69.	10.3	146
7	Thermally reduced graphite oxide as positive electrode in Vanadium Redox Flow Batteries. Carbon, 2012, 50, 828-834.	10.3	129
8	Optimization of the size and yield of graphene oxide sheets in the exfoliation step. Carbon, 2013, 63, 576-578.	10.3	77
9	Enhanced Hydrogen-Transfer Catalytic Activity of Iridium N-Heterocyclic Carbenes by Covalent Attachment on Carbon Nanotubes. ACS Catalysis, 2013, 3, 1307-1317.	11.2	77
10	Characterization of Maya Crude Oil Maltenes and Asphaltenes in Terms of Structural Parameters Calculated from Nuclear Magnetic Resonance (NMR) Spectroscopy and Laser Desorptionâ^'Mass Spectroscopy (LDâ^'MS). Energy & Fuels, 2010, 24, 3977-3989.	5.1	68
11	The adsorption of chromium (VI) from industrial wastewater by acid and base-activated lignocellulosic residues. Journal of Hazardous Materials, 2007, 144, 400-405.	12.4	67
12	Formation of a Cyclobutylidene Ring:Â Intramolecular [2 + 2] Cycloaddition of Allyl and Vinylidene CC Bonds under Mild Conditions. Journal of the American Chemical Society, 2003, 125, 2386-2387.	13.7	65
13	CO2 adsorption capacity and kinetics in nitrogen-enriched activated carbon fibers prepared by different methods. Chemical Engineering Journal, 2015, 281, 704-712.	12.7	63
14	Synthesis and Reactivity of Indenyl Ruthenium(II) Complexes Containing the Labile Ligand 1,5-Cyclooctadiene (COD):Â Catalytic Activity of [Ru(Î·5-C9H7)Cl(COD)]. Organometallics, 2001, 20, 3762-3771.	2.3	61
15	Hydration of terminal alkynes to aldehydes in aqueous micellar solutions by ruthenium(II) catalysis; first anti-Markovnikov addition of water to propargylic alcohols. Tetrahedron Letters, 2001, 42, 8467-8470.	1.4	61
16	Characterization of Molecular Mass Ranges of Two Coal Tar Distillate Fractions (Creosote and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Chromatography. Energy & Fuels, 2008, 22, 3275-3292.	5.1	61
17	Study on the Effect of Heat Treatment and Gasification on the Carbon Structure of Coal Chars and Metallurgical Cokes using Fourier Transform Raman Spectroscopy. Energy & Fuels, 2009, 23, 1651-1661.	5.1	61
18	High performance activated carbon for benzene/toluene adsorption from industrial wastewater. Journal of Hazardous Materials, 2011, 192, 1525-1532.	12.4	58

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19	Graphite oxide-based graphene materials as positive electrodes in vanadium redox flow batteries. Journal of Power Sources, 2013, 241, 349-354.	7.8	57
20	Tailored graphene materials by chemical reduction of graphene oxides of different atomic structure. RSC Advances, 2012, 2, 9643.	3.6	51
21	Optimisation of the melt-spinning of anthracene oil-based pitch for isotropic carbon fibre preparation. Fuel Processing Technology, 2012, 93, 99-104.	7.2	45
22	Calibration of Size-Exclusion Chromatography Columns with 1-Methyl-2-pyrrolidinone (NMP)/Chloroform Mixtures as Eluent: Applications to Petroleum-Derived Samples. Energy & Fuels, 2008, 22, 3265-3274.	5.1	44
23	Sample Contamination with NMP-oxidation Products and Byproduct-free NMP Removal from Sample Solutions. Energy & Fuels, 2009, 23, 3008-3015.	5.1	43
24	Graphene anchored palladium complex as efficient and recyclable catalyst in the Heck cross-coupling reaction. Journal of Molecular Catalysis A, 2016, 416, 140-146.	4.8	43
25	MILLIMETER WAVE MICROSTRIP MIXER BASED ON GRAPHENE. Progress in Electromagnetics Research, 2011, 118, 57-69.	4.4	42
26	A novel approach for the production of chemically activated carbon fibers. Chemical Engineering Journal, 2015, 260, 463-468.	12.7	39
27	Thermally reduced graphite and graphene oxides in VRFBs. Nano Energy, 2013, 2, 1322-1328.	16.0	37
28	New alternatives to graphite for producing graphene materials. Carbon, 2015, 93, 812-818.	10.3	37
29	Reaction of the Ruthenium(II) Indenyl Complex [Ru(Î·5-C9H7){Î°3(P,C,C)-PPh2(CH2CHCH2)}(PPh3)][PF6] with Terminal Alkynes. Mechanisms of 1-Alkyne to Î·1-Vinylidene Transformation and Kinetic Detection of Hemilability of the Allylphosphine Ligand. Organometallics, 2004, 23, 5127-5134.	2.3	36
30	Self-organized amorphous titania nanotubes with deposited graphene film like a new heterostructured electrode for lithium ion batteries. Journal of Power Sources, 2014, 248, 886-893.	7.8	35
31	Fractionation of a coal tar pitch by ultra-filtration, and characterization by size exclusion chromatography, UV-fluorescence and laser desorption-mass spectroscopy. Fuel, 2010, 89, 2953-2970.	6.4	34
32	An insight into the polymerization of anthracene oil to produce pitch using nuclear magnetic resonance. Fuel, 2013, 105, 471-476.	6.4	34
33	Cokes of different origin as precursors of graphene oxide. Fuel, 2016, 166, 400-403.	6.4	33
34	Isolation of Size Exclusion Chromatography Elution-Fractions of Coal and Petroleum-Derived Samples and Analysis by Laser Desorption Mass Spectrometry. Energy & Fuels, 2009, 23, 6003-6014.	5.1	32
35	Estimating molecular masses of petroleum-derived fractions: High mass (>2000u) materials in maltenes and asphaltenes from Maya crude oil. Journal of Chromatography A, 2010, 1217, 3804-3818.	3.7	31
36	Grapheneâ€"NHCâ€"iridium hybrid catalysts built through â€"OH covalent linkage. Carbon, 2015, 83, 21-31.	10.3	31

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37	Characterization and Pyrolysis Behavior of Novel Anthracene Oil Derivatives. Energy & Fuels, 2008, 22, 4077-4086.	5.1	30
38	Preparation of Low Toxicity Pitches by Thermal Oxidative Condensation of Anthracene Oil. Environmental Science & Technology, 2009, 43, 8126-8132.	10.0	30
39	Characterisation and feasibility as carbon fibre precursors of isotropic pitches derived from anthracene oil. Fuel, 2012, 101, 9-15.	6.4	30
40	Quantitative X-ray Fluorescence Analysis of Biomass (Switchgrass, Corn Stover, Eucalyptus, Beech,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 & Fuels, 2015, 29, 1669-1685.	5.1	29
41	Î²-(Z) Selectivity Control by Cyclometalated Rhodium(III)â€“Triazolylidene Homogeneous and Heterogeneous Terminal Alkyne Hydrosilylation Catalysts. ACS Catalysis, 2020, 10, 13334-13351.	11.2	28
42	Thermal degradation of lignocellulosic materials treated with several acids. Journal of Analytical and Applied Pyrolysis, 2005, 74, 337-343.	5.5	27
43	Quantitative X-ray Fluorescence Analysis of Biomass: Objective Evaluation of a Typical Commercial Multi-Element Method on a WD-XRF Spectrometer. Energy & Fuels, 2013, 27, 7439-7454.	5.1	27
44	Activated carbon fibers prepared directly from stabilized fibers for use as electrodes in supercapacitors. Materials Letters, 2014, 136, 214-217.	2.6	27
45	Hybrid Catalysts Comprised of Graphene Modified with Rhodium-Based N-Heterocyclic Carbenes for Alkyne Hydrosilylation. ACS Applied Nano Materials, 2020, 3, 1640-1655.	5.0	27
46	Diastereoselective Synthesis of the Indenylruthenium(II) Complexes [Ru(Î·5-C9H7){Îº3(P,C,C)-Ph2P(CH2CRCH2)}(PPh3)][PF6] (R = H, Me):Â Enantiofacial Coordination, Hemilabile Properties, and Diastereoselective Nucleophilic Additions to Îº3(P,C,C)-Allylphosphine Ligands. Organometallics, 2004, 23, 2956-2966.	2.3	26
47	Reconstruction of the carbon sp²network in graphene oxide by low-temperature reaction with CO. Journal of Materials Chemistry, 2012, 22, 51-56.	6.7	26
48	The influence of carbon nanotubes characteristics in their performance as positive electrodes in vanadium redox flow batteries. Sustainable Energy Technologies and Assessments, 2015, 9, 105-110.	2.7	25
49	Effect of structural differences of carbon nanotubes and graphene based iridium-NHC materials on the hydrogen transfer catalytic activity. Carbon, 2016, 96, 66-74.	10.3	25
50	Microwave Frequency Tripler Based on a Microstrip Gap with Graphene. Journal of Electromagnetic Waves and Applications, 2011, 25, 1921-1929.	1.6	24
51	N-enriched ACF from coal-based pitch blended with urea-based resin for CO2 capture. Microporous and Mesoporous Materials, 2015, 201, 10-16.	4.4	23
52	Improvement of the thermal stability of lignocellulosic materials by treatment with sulphuric acid and potassium hydroxide. Journal of Analytical and Applied Pyrolysis, 2004, 72, 131-139.	5.5	22
53	Mesophase from Anthracene Oil-Based Pitches. Energy & Fuels, 2008, 22, 4146-4150.	5.1	22
54	Tuning graphene properties by a multi-step thermal reduction process. Carbon, 2015, 90, 160-163.	10.3	21

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55	Enhancing the hydrogen transfer catalytic activity of hybrid carbon nanotube-based NHCâ€“iridium catalysts by increasing the oxidation degree of the nanosupport. Catalysis Science and Technology, 2016, 6, 5504-5514.	4.1	20
56	Role of quinoline insoluble particles during the processing of coal tars to produce graphene materials. Fuel, 2017, 206, 99-106.	6.4	20
57	Tailoring micro-mesoporosity in activated carbon fibers to enhance SO2 catalytic oxidation. Journal of Colloid and Interface Science, 2014, 428, 36-40.	9.4	18
58	Catalytic Synthesis of Polynorbornene and Polynorbornadiene of Low Polydispersity Index by [Ru(î·5-C9H7)Cl(COD)] (COD = 1,5-Cyclooctadiene). Organometallics, 2002, 21, 5678-5680.	2.3	17
59	Comparative Study of Screen-Printed Electrodes Modified with Graphene Oxides Reduced by a Constant Current. Journal of the Electrochemical Society, 2015, 162, B282-B290.	2.9	17
60	Peculiarities of the production of graphene oxides with controlled properties from industrial coal liquids. Fuel, 2017, 203, 253-260.	6.4	16
61	Lignocellulose/pitch based composites. Composites Part A: Applied Science and Manufacturing, 2005, 36, 649-657.	7.6	14
62	A unified process for preparing mesophase and isotropic material from anthracene oil-based pitch. Fuel Processing Technology, 2011, 92, 421-427.	7.2	14
63	A multi-step exfoliation approach to maintain the lateral size of graphene oxide sheets. Carbon, 2014, 80, 830-832.	10.3	14
64	Synthesis of activated carbons by chemical activation of new anthracene oil-based pitches and their optimization by response surface methodology. Fuel Processing Technology, 2011, 92, 1987-1992.	7.2	13
65	Surface treatment of polyimide substrates for the transfer and multitransfer of graphene films. Applied Surface Science, 2015, 349, 101-107.	6.1	12
66	Novel coal-based precursors for cokes with highly oriented microstructures. Fuel, 2012, 95, 400-406.	6.4	10
67	Graphene patterning by nanosecond laser ablation: the effect of the substrate interaction with graphene. Journal Physics D: Applied Physics, 2016, 49, 305301.	2.8	10
68	Enhanced Chemical and Electrochemical Water Oxidation Catalytic Activity by Hybrid Carbon Nanotube-Based Iridium Catalysts Having Sulfonate-Functionalized NHC ligands. ACS Applied Energy Materials, 2019, 2, 3283-3296.	5.1	10
69	Morphological changes in graphene materials caused by solvents. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 558, 73-79.	4.7	9
70	Determination of crude oil incompatibility regions by ellipsometry. Fuel Processing Technology, 2012, 96, 16-21.	7.2	8
71	Microwave heating as a novel route for obtaining carbon precursors from anthracene oil. Fuel Processing Technology, 2019, 192, 250-257.	7.2	8
72	Influence of graphene sheet properties as supports of iridium-based N-heterocyclic carbene hybrid materials for water oxidation electrocatalysis. Journal of Organometallic Chemistry, 2020, 919, 121334.	1.8	8

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73	Structural Properties and Molecular Mass Distributions of Biomass-Coal Cogasification Tars as a Function of Aging. Energy & Fuels, 2013, 27, 3786-3801.	5.1	7
74	In-situ carboxylation of graphene by chemical vapor deposition growth for biosensing. Carbon, 2019, 141, 719-727.	10.3	7
75	The effect of alumina surface activity on the properties of lignocellulose/pitch-Al2O3 composites. Journal of Analytical and Applied Pyrolysis, 2008, 82, 151-157.	5.5	6
76	Influence of the alignment degree of CVD-grown carbon nanotubes on their functionalization and adsorption capacity. Diamond and Related Materials, 2013, 37, 1-7.	3.9	6
77	Bond Activation by Electron Transfer in Indenyl Ruthenium(II) Complexes. The Electrochemical Reduction of [Ru(Î·5-C9H7)Cl(L)2] and [Ru(Î·5-C9H7)(L)2]+, L2 = COD, L = PPh3. Organometallics, 2003, 22, 3478-3484.	2.3	4
78	Investigating the Formation Mechanism of Soot-like Materials Present in Blast Furnace Coke Samples. Energy & Fuels, 2008, 22, 3317-3325.	5.1	3
79	Experimental and Statistical Optimization of the Tensile Strength of Carbon Fibers from Pitches with Different Composition. Industrial & Engineering Chemistry Research, 2017, 56, 3243-3250.	3.7	3
80	Local structure of Iridium organometallic catalysts covalently bonded to carbon nanotubes.. Journal of Physics: Conference Series, 2016, 712, 012052.	0.4	1
81	Matrix-Iron Interactions in Carbon-Embedded Iron Oxide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2009, 9, 4098-4102.	0.9	0