

Patricia

List of Publications by Year in descending order

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81
papers

3,636
citations

136940

32
h-index

138468

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. <i>Carbon</i> , 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. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6905. | 5.5 | 259 |
| 3 | Critical temperatures in the synthesis of graphene-like materials by thermal exfoliation—reduction of graphite oxide. <i>Carbon</i> , 2013, 52, 476-485. | 10.3 | 236 |
| 4 | The effect of the parent graphite on the structure of graphene oxide. <i>Carbon</i> , 2012, 50, 275-282. | 10.3 | 188 |
| 5 | Chemicals from Coal Coking. <i>Chemical Reviews</i> , 2014, 114, 1608-1636. | 47.7 | 166 |
| 6 | Correct use of the Langmuir—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. <i>Carbon</i> , 2013, 55, 62-69. | 10.3 | 146 |
| 7 | Thermally reduced graphite oxide as positive electrode in Vanadium Redox Flow Batteries. <i>Carbon</i> , 2012, 50, 828-834. | 10.3 | 129 |
| 8 | Optimization of the size and yield of graphene oxide sheets in the exfoliation step. <i>Carbon</i> , 2013, 63, 576-578. | 10.3 | 77 |
| 9 | Enhanced Hydrogen-Transfer Catalytic Activity of Iridium N-Heterocyclic Carbenes by Covalent Attachment on Carbon Nanotubes. <i>ACS Catalysis</i> , 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 Desorption—Mass Spectroscopy (LD—MS). <i>Energy & Fuels</i> , 2010, 24, 3977-3989. | 5.1 | 68 |
| 11 | The adsorption of chromium (VI) from industrial wastewater by acid and base-activated lignocellulosic residues. <i>Journal of Hazardous Materials</i> , 2007, 144, 400-405. | 12.4 | 67 |
| 12 | Formation of a Cyclobutylidene Ring: Intramolecular [2 + 2] Cycloaddition of Allyl and Vinylidene CC Bonds under Mild Conditions. <i>Journal of the American Chemical Society</i> , 2003, 125, 2386-2387. | 13.7 | 65 |
| 13 | CO ₂ adsorption capacity and kinetics in nitrogen-enriched activated carbon fibers prepared by different methods. <i>Chemical Engineering Journal</i> , 2015, 281, 704-712. | 12.7 | 63 |
| 14 | Synthesis and Reactivity of Indenyl Ruthenium(II) Complexes Containing the Labile Ligand 1,5-Cyclooctadiene (COD): Catalytic Activity of [Ru(1-5-C ₉ H ₇)Cl(COD)]. <i>Organometallics</i> , 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. <i>Tetrahedron Letters</i> , 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. <i>Energy & Fuels</i> , 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. <i>Energy & Fuels</i> , 2009, 23, 1651-1661. | 5.1 | 61 |
| 18 | High performance activated carbon for benzene/toluene adsorption from industrial wastewater. <i>Journal of Hazardous Materials</i> , 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. <i>Journal of Power Sources</i> , 2013, 241, 349-354. | 7.8 | 57 |
| 20 | Tailored graphene materials by chemical reduction of graphene oxides of different atomic structure. <i>RSC Advances</i> , 2012, 2, 9643. | 3.6 | 51 |
| 21 | Optimisation of the melt-spinning of anthracene oil-based pitch for isotropic carbon fibre preparation. <i>Fuel Processing Technology</i> , 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. <i>Energy & Fuels</i> , 2008, 22, 3265-3274. | 5.1 | 44 |
| 23 | Sample Contamination with NMP-oxidation Products and Byproduct-free NMP Removal from Sample Solutions. <i>Energy & Fuels</i> , 2009, 23, 3008-3015. | 5.1 | 43 |
| 24 | Graphene anchored palladium complex as efficient and recyclable catalyst in the Heck cross-coupling reaction. <i>Journal of Molecular Catalysis A</i> , 2016, 416, 140-146. | 4.8 | 43 |
| 25 | MILLIMETER WAVE MICROSTRIP MIXER BASED ON GRAPHENE. <i>Progress in Electromagnetics Research</i> , 2011, 118, 57-69. | 4.4 | 42 |
| 26 | A novel approach for the production of chemically activated carbon fibers. <i>Chemical Engineering Journal</i> , 2015, 260, 463-468. | 12.7 | 39 |
| 27 | Thermally reduced graphite and graphene oxides in VRFBs. <i>Nano Energy</i> , 2013, 2, 1322-1328. | 16.0 | 37 |
| 28 | New alternatives to graphite for producing graphene materials. <i>Carbon</i> , 2015, 93, 812-818. | 10.3 | 37 |
| 29 | Reaction of the Ruthenium(II) Indenyl Complex $[Ru(\eta^5-C_9H_7)\{\eta^3(P,C,C)-PPh_2(CH_2CHCH_2)\}(PPh_3)] [PF_6]$ with Terminal Alkynes. Mechanisms of 1-Alkyne to 1-Vinylidene Transformation and Kinetic Detection of Hemilability of the Allylphosphine Ligand. <i>Organometallics</i> , 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. <i>Journal of Power Sources</i> , 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. <i>Fuel</i> , 2010, 89, 2953-2970. | 6.4 | 34 |
| 32 | An insight into the polymerization of anthracene oil to produce pitch using nuclear magnetic resonance. <i>Fuel</i> , 2013, 105, 471-476. | 6.4 | 34 |
| 33 | Cokes of different origin as precursors of graphene oxide. <i>Fuel</i> , 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. <i>Energy & Fuels</i> , 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. <i>Journal of Chromatography A</i> , 2010, 1217, 3804-3818. | 3.7 | 31 |
| 36 | Graphene-NHC-iridium hybrid catalysts built through OH covalent linkage. <i>Carbon</i> , 2015, 83, 21-31. | 10.3 | 31 |

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|----|--|------|-----------|
| 37 | Characterization and Pyrolysis Behavior of Novel Anthracene Oil Derivatives. <i>Energy & Fuels</i> , 2008, 22, 4077-4086. | 5.1 | 30 |
| 38 | Preparation of Low Toxicity Pitches by Thermal Oxidative Condensation of Anthracene Oil. <i>Environmental Science & Technology</i> , 2009, 43, 8126-8132. | 10.0 | 30 |
| 39 | Characterisation and feasibility as carbon fibre precursors of isotropic pitches derived from anthracene oil. <i>Fuel</i> , 2012, 101, 9-15. | 6.4 | 30 |
| 40 | Quantitative X-ray Fluorescence Analysis of Biomass (Switchgrass, Corn Stover, Eucalyptus, Beech,) <i>Energy & Fuels</i> , 2015, 29, 1669-1685. | 5.1 | 29 |
| 41 | η^2 -(Z) Selectivity Control by Cyclometalated Rhodium(III)-Triazolylidene Homogeneous and Heterogeneous Terminal Alkyne Hydrosilylation Catalysts. <i>ACS Catalysis</i> , 2020, 10, 13334-13351. | 11.2 | 28 |
| 42 | Thermal degradation of lignocellulosic materials treated with several acids. <i>Journal of Analytical and Applied Pyrolysis</i> , 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. <i>Energy & Fuels</i> , 2013, 27, 7439-7454. | 5.1 | 27 |
| 44 | Activated carbon fibers prepared directly from stabilized fibers for use as electrodes in supercapacitors. <i>Materials Letters</i> , 2014, 136, 214-217. | 2.6 | 27 |
| 45 | Hybrid Catalysts Comprised of Graphene Modified with Rhodium-Based N-Heterocyclic Carbenes for Alkyne Hydrosilylation. <i>ACS Applied Nano Materials</i> , 2020, 3, 1640-1655. | 5.0 | 27 |
| 46 | Diastereoselective Synthesis of the Indenylruthenium(II) Complexes $[\text{Ru}(\eta^5\text{-C}_9\text{H}_7)\{\text{P}(\text{C},\text{C})\text{-Ph}_2\text{P}(\text{CH}_2\text{CRCH}_2)\}(\text{PPh}_3)][\text{PF}_6]$ (R = H, Me): Δ Enantiofacial Coordination, Hemilabile Properties, and Diastereoselective Nucleophilic Additions to η^3 (P,C,C)-Allylphosphine Ligands. <i>Organometallics</i> , 2004, 23, 2956-2966. | 2.3 | 26 |
| 47 | Reconstruction of the carbon sp^2 network in graphene oxide by low-temperature reaction with CO. <i>Journal of Materials Chemistry</i> , 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. <i>Sustainable Energy Technologies and Assessments</i> , 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. <i>Carbon</i> , 2016, 96, 66-74. | 10.3 | 25 |
| 50 | Microwave Frequency Tripler Based on a Microstrip Gap with Graphene. <i>Journal of Electromagnetic Waves and Applications</i> , 2011, 25, 1921-1929. | 1.6 | 24 |
| 51 | N-enriched ACF from coal-based pitch blended with urea-based resin for CO ₂ capture. <i>Microporous and Mesoporous Materials</i> , 2015, 201, 10-16. | 4.4 | 23 |
| 52 | Improvement of the thermal stability of lignocellulosic materials by treatment with sulphuric acid and potassium hydroxide. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 72, 131-139. | 5.5 | 22 |
| 53 | Mesophase from Anthracene Oil-Based Pitches. <i>Energy & Fuels</i> , 2008, 22, 4146-4150. | 5.1 | 22 |
| 54 | Tuning graphene properties by a multi-step thermal reduction process. <i>Carbon</i> , 2015, 90, 160-163. | 10.3 | 21 |

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|----|---|------|-----------|
| 55 | Enhancing the hydrogen transfer catalytic activity of hybrid carbon nanotube-based NHC-iridium catalysts by increasing the oxidation degree of the nanosupport. <i>Catalysis Science and Technology</i> , 2016, 6, 5504-5514. | 4.1 | 20 |
| 56 | Role of quinoline insoluble particles during the processing of coal tars to produce graphene materials. <i>Fuel</i> , 2017, 206, 99-106. | 6.4 | 20 |
| 57 | Tailoring micro-mesoporosity in activated carbon fibers to enhance SO ₂ catalytic oxidation. <i>Journal of Colloid and Interface Science</i> , 2014, 428, 36-40. | 9.4 | 18 |
| 58 | Catalytic Synthesis of Polynorbornene and Polynorbornadiene of Low Polydispersity Index by [Ru(<i>l</i> -5-C ₉ H ₇)Cl(COD)] (COD = 1,5-Cyclooctadiene). <i>Organometallics</i> , 2002, 21, 5678-5680. | 2.3 | 17 |
| 59 | Comparative Study of Screen-Printed Electrodes Modified with Graphene Oxides Reduced by a Constant Current. <i>Journal of the Electrochemical Society</i> , 2015, 162, B282-B290. | 2.9 | 17 |
| 60 | Peculiarities of the production of graphene oxides with controlled properties from industrial coal liquids. <i>Fuel</i> , 2017, 203, 253-260. | 6.4 | 16 |
| 61 | Lignocellulose/pitch based composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 649-657. | 7.6 | 14 |
| 62 | A unified process for preparing mesophase and isotropic material from anthracene oil-based pitch. <i>Fuel Processing Technology</i> , 2011, 92, 421-427. | 7.2 | 14 |
| 63 | A multi-step exfoliation approach to maintain the lateral size of graphene oxide sheets. <i>Carbon</i> , 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. <i>Fuel Processing Technology</i> , 2011, 92, 1987-1992. | 7.2 | 13 |
| 65 | Surface treatment of polyimide substrates for the transfer and multitransfer of graphene films. <i>Applied Surface Science</i> , 2015, 349, 101-107. | 6.1 | 12 |
| 66 | Novel coal-based precursors for cokes with highly oriented microstructures. <i>Fuel</i> , 2012, 95, 400-406. | 6.4 | 10 |
| 67 | Graphene patterning by nanosecond laser ablation: the effect of the substrate interaction with graphene. <i>Journal Physics D: Applied Physics</i> , 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. <i>ACS Applied Energy Materials</i> , 2019, 2, 3283-3296. | 5.1 | 10 |
| 69 | Morphological changes in graphene materials caused by solvents. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 558, 73-79. | 4.7 | 9 |
| 70 | Determination of crude oil incompatibility regions by ellipsometry. <i>Fuel Processing Technology</i> , 2012, 96, 16-21. | 7.2 | 8 |
| 71 | Microwave heating as a novel route for obtaining carbon precursors from anthracene oil. <i>Fuel Processing Technology</i> , 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. <i>Journal of Organometallic Chemistry</i> , 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. <i>Energy & Fuels</i> , 2013, 27, 3786-3801. | 5.1 | 7 |
| 74 | In-situ carboxylation of graphene by chemical vapor deposition growth for biosensing. <i>Carbon</i> , 2019, 141, 719-727. | 10.3 | 7 |
| 75 | The effect of alumina surface activity on the properties of lignocellulose/pitch-Al ₂ O ₃ composites. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008, 82, 151-157. | 5.5 | 6 |
| 76 | Influence of the alignment degree of CVD-grown carbon nanotubes on their functionalization and adsorption capacity. <i>Diamond and Related Materials</i> , 2013, 37, 1-7. | 3.9 | 6 |
| 77 | Bond Activation by Electron Transfer in Indenyl Ruthenium(II) Complexes. The Electrochemical Reduction of [Ru(I-5-C ₉ H ₇)Cl(L) ₂] and [Ru(I-5-C ₉ H ₇)(L) ₂] ⁺ , L ₂ = COD, L = PPh ₃ . <i>Organometallics</i> , 2003, 22, 3478-3484. | 2.3 | 4 |
| 78 | Investigating the Formation Mechanism of Soot-like Materials Present in Blast Furnace Coke Samples. <i>Energy & Fuels</i> , 2008, 22, 3317-3325. | 5.1 | 3 |
| 79 | Experimental and Statistical Optimization of the Tensile Strength of Carbon Fibers from Pitches with Different Composition. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 3243-3250. | 3.7 | 3 |
| 80 | Local structure of Iridium organometallic catalysts covalently bonded to carbon nanotubes.. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012052. | 0.4 | 1 |
| 81 | Matrix-Iron Interactions in Carbon-Embedded Iron Oxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4098-4102. | 0.9 | 0 |