

S4: Cokes and Graphite

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PHOTOCATALYTIC ACTIVITY AND ANTIBACTERIAL PROPERTIES OF ZnO/G-C₃N₄ COMPOSITE DECORATED WITH METAL NANOPARTICLES

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SLUDGE PROCESSING USING ELECTROHYDRAULIC EFFECT

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COLOMBIAN COALS CHARACTERIZATION – RELATION WITH COKE QUALITY INDICES

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ENERGY RELEASE AT HIGH TEMPERATURE IN COAL CARBONIZATION

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STACKING STRUCTURE IN COLOMBIAN COALS AND THEIR COKES

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COALESCENCE BEHAVIOURS OF BROOKS-TAYLOR MESOPHASE SPHERES UNDER HIGH-TEMPERATURE CENTRIFUGATION

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MODIFICATION AND CHARACTERIZATION OF THE SURFACE CHEMISTRY OF A COLOMBIAN METALLURGICAL COKE

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PREPARATION OF HIGHLY GRAPHITIZED CARBON USING NON-GRAPHITIZABLE RAW MATERIALS AND ITS MECHANISM

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EFFECT OF CARBON BLACK AND CARBON NANOTUBE ADDITIVES ON THE MICROSTRUCTURE AND GRAPHITIZATION TEMPERATURE OF A COAL TAR PITCH

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DISPERSION OF NANOPARTICLES IN COAL TAR PITCH- BASED CARBON MATERIALS

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PREPARATION OF SELF-SINTERING CARBON MATERIALS FROM COAL TAR

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CHARACTERISTICS OF MESOPHASE PITCH PREPARED FROM CHEMICALLY MODIFIED PFO BASED PITCHES

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LOW-PRESSURE AND HIGH-TEMPERATURE TRITIUM BEHAVIOUR ON CARBON IN FISSION AND FUSION POWER PLANTS

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CHANGES IN MECHANICAL AND ELECTRICAL PROPERTIES WITH VARYING NUMBER OF IMPREGNATIONS IN BULK GRAPHITE MANUFACTURING

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THE EFFECT OF WAVINESS ON JOINING STRENGTH OF ISOTROPIC BULK GRAPHITE

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HYDROGENATION OF FINE-GRAINED CARBON AND GRAPHITE FOR SINTERING PROCESS

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GAS PERMEATION OF COMPACTED EXPANDED GRAPHITE AS A FUNCTION OF EXPANSION TEMPERATURE

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2D AND 3D RANDOMLY STRUCTURED CARBON NETWORKS FROM THE CONTROLLED PYROLYSIS OF SACCHAROSE: TOPOLOGICAL, TEXTURAL, OPTICAL AND MAGNETIC CHARACTERIZATION

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HIGH ELECTRICAL CONDUCTIVITIES OF COPPER CHLORIDE AND ALUMINUM CHLORIDE TERNARY GICs PREPARED FROM FLEXIBLE GRAPHITE SHEETS

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DETERMINATION OF CARBON/CARBON SHEAR STRENGTH USING AFM TECHNIQUE: APPLICATION TO THE UNDERSTANDING OF TRIBOLOGICAL PROPERTIES OF GRAPHITE TRIBOFILMS

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WATER TITRATABLE ACID FUNCTIONAL GROUPS IN LIGNIN AS INDICATOR OF ITS PERFORMANCE AS HIGH TEMPERATURE ANTHRACITE BINDER

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EVALUATION OF THE BINDING MECHANISM OF LIGNIN DURING PYROLYSIS BY RAMAN SPECTROSCOPY

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MICROSTRUCTURAL CHARACTERIZATION OF GRAPHITE MATRIX A-3, AND A COMPARISON WITH NUCLEAR GRAPHITE IG-110

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HYDROSTATIC PRESSURE EFFECT ON TURBOSTRATIC GRAPHITES

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SPECIMEN SIZE EFFECT ON YOUNG'S MODULUS AND 4-POINT FLEXURAL STRENGTH OF FINE GRAINED GRAPHITE FOR HIGH TEMPERATURE NUCLEAR REACTORS

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S5: Electrochemical Carbons - 1

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HYBRIDIZATION TO REDUCE OXIDATION AT THE POSITIVE CARBON ELECTRODE OF ELECTROCHEMICAL CAPACITORS IN AQUEOUS ELECTROLYTE

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SOLVOTHERMAL SULPHUR FUNCTIONALIZATION OF ACTIVATED CARBON FOR OXYGEN REDUCTION REACTION

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UNDERSTANDING THE REAL EFFECT OF NITROGEN-DOPING ON THE ELECTROCHEMICAL PERFORMANCE OF CARBON MATERIALS

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ELECTROCHEMICAL PERFORMANCES OF ORDERED MESOPOROUS CARBONS OBTAINED FROM BIOSOURCED PHENOLIC MOLECULES

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MULTI-REACTIVATION LITHIUM ION BATTERY AND ANODE MATERIALS IN CARBON AND GRAPHITE

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HOW DOES AMALGAMATED Ni CATHODE AFFECT CARBON NANOTUBE GROWTH. A DENSITY FUNCTIONAL THEORY STUDY

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THE INVESTIGATION OF LARGE PORE-SIZE EFFECT ON THE HIGH POTENTIAL ELECTROCHEMICAL PERFORMANCES OF EDLCs USING TWO KINDS OF ELECTROLYTES

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PORE-SIZE UNBALANCED EDLC ELECTRODES FOR HIGH POTENTIAL ELECTROCHEMICAL PERFORMANCE

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STRUCTURAL AND COMPOSITIONAL CHARACTERIZATION OF AGING PHENOMENA IN ULTRACAPACITOR ACTIVATED CARBON ELECTRODES

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THE ANODE PERFORMANCE OF HIGHLY FINE SILICON METAL PARTICLES HYBRIDIZED WITH PITCH-DERIVED CARBON IN A Li ION BATTERY

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SYNTHESIS AND ELECTROCHEMICAL PERFORMANCE OF COLLOIDAL CARBON SPHERES

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PREPARATION OF ACTIVATED CARBONS FROM SCHINUS MOLLE SEEDS AND THEIR USE AS ELECTRODES FOR SUPERCAPACITORS

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SUSTAINABLE ENERGY SYSTEMS: HIGH PERFORMANCE LITHIUM ION BATTERY COMPONENTS FROM RENEWABLE RESOURCES

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LIGNIN-BASED CARBON NANOFIBRES FOR FLEXIBLE ENERGY STORAGE

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NOVEL HIERARCHICAL POROUS CARBONS DERIVED FROM MgAl-LAYERED DOUBLE

HYDROXIDES AS A HIGH CAPACITY ANODE FOR LITHIUM-ION BATTERIES

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PREPARATION AND LITHIUM STORAGE PERFORMANCE OF TWO-DIMENSIONAL CARBON/METAL OXIDE NANOSHEET COMPOSITE ELECTRODE MATERIALS

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BIOCATHODES BASED ON MESOPOROUS CARBONS FOR THE ELECTROREDUCTION OF CO₂ INTO FORMATE

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CARBONACEOUS ELECTRODE MATERIALS FOR Li-S BATTERIES: A ReaxFF REACTIVE FORCE FIELD STUDY

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FLOWER-LIKE MESOPOROUS CARBON AS A HIGH-PERFORMANCE ANODE MATERIAL FOR SODIUM ION BATTERIES

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FLUORINATION EFFECT ON ELECTRICAL PROPERTIES OF CARBON PAPER

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A FACILE HYDROTHERMAL REFLUX SYNTHESIS OF Ni(OH)₂/GF ELECTRODE FOR SUPERCAPACITOR APPLICATION

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HIERARCHICAL POROUS CARBON NANOFIBER CATHODES WITH HIGH SULFUR LOADING FOR HIGH PERFORMANCE LI-SULFUR BATTERIES

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IMPROVED DESALINATION EFFICIENCY OF ACF-BASED ELECTRODES MODIFIED BY OXYFLUORINATION

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SYNTHESIS OF CARBON-CONTAINING COMPOSITES BY COMBUSTION

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TEST DESIGN AND RESULTS OF INVESTIGATION OF THE EFFECTS OF SHORT DURATION HEAT TREATMENT OF PAN-BASED CARBON FIBERS AND DRY CARBON YARNS

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EFFECT OF SYNTHESIS TEMPERATURE ON ELECTRICAL CONDUCTIVITY AND ELECTROMAGNETIC INTERFERENCE SHIELDING OF CARBON NANOTUBE/POLYMER NANOCOMPOSITES

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TYPE AND AMOUNT OF FUNCTIONAL GROUPS IN THE MWCNTs AFFECTS THERMAL CONVERSION OF PAN NANOFIBERS INTO CARBON NANOFIBERS

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EFFECT OF DRAW-DOWN RATIO OF MESOPHASE PITCH FIBERS ON THE PROPERTIES OF CARBON FIBERS

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DIRECT THERMAL DIFFUSIVITY MEASUREMENT ALONG THE AXIAL DIRECTION OF CARBON FIBER USING LASER FLASH: SPECIMEN PREPARATION AND RESULTS

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THE COMPOSITES OF CARBON FIBER NETWORK REINFORCED EPOXY USING ISOTROPIC PETROLEUM PITCH AS A BINDER

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CARBON NANOTUBE SOLID-PHASE GROWTH ON THE SURFACE OF CARBON FIBERS

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EFFECT OF K₂HPO₄-STEAM CO-ACTIVATION ON THE ADSORPTION AND MECHANICAL

PROPERTIES OF ACTIVATED CARBON FIBERS

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FABRICATION AND CHARACTERIZATION OF CARBON FABRIC/PHENOLIC COMPOSITES FOR WET FRICTION MATERIALS IN AUTOMOBILE INDUSTRY

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EFFECT OF FEEDING METHODS IN EXTRUSION PROCESSING ON THE PROPERTIES OF NICKEL-COATED CARBON FIBER/POLYPROPYLENE COMPOSITES

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A REVIEW OF MULTIFUNCTIONAL CARBON FIBER POLYMER-MATRIX STRUCTURAL COMPOSITES

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THE MICRO-STRUCTURAL CHANGES OF DRY-JET WET SPINNING OF PAN FIBERS DURING THE CONTINUOUS STABILIZATION AND CARBONIZATION PROCESS

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EFFECT OF ELECTRIC FIELD ON NANOFABRICATION OF THE CARBON NANOFIBERS FOR 3D PRINTING

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HIGH STRENGTH CARBON NANOTUBE COMPOSITE YARNS BY INFILTRATION OF DICYCLOPENTADIENE POLYMER FORMULATION

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CARBON FIBER/COPPER MESH REINFORCED CARBON COMPOSITES FOR PANTOGRAPH SLIDING MATERIAL

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EFFECT OF GRAPHENE OR COILED CARBON NANOFIBERS ON REINFORCEMENT OF NATURE RUBBER

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EFFECT OF DRAW RATIO ON THE STRUCTURE AND THE THERMOCHEMICAL PROPERTIES OF ELECTROSPUN POLYACRYLONITRILE NANOFIBERS

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THE EFFECT OF CYCLIZATION REACTION ON THE MECHANICAL PROPERTY OF PAN-BASED CARBON FIBERS

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RELATION AMONG COMPOSITION, CRYSTALLINITY AND SPECIFIC RESISTANCE OF B/C/N MATERIALS

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THE EFFECT OF BLOCKED ISOCYANATE EMULSION SIZING AGENT ON THE SHEAR STRENGTH OF CARBON FIBER REINFORCED THERMOPLASTIC POLYETHERSULFONE COMPOSITES

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PREPARATION OF CARBON/CARBON COMPOSITE USING THE STABILIZED PREFORMS AND ITS CHARACTERISTICS

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ELECTRICAL CONDUCTIVITY OF THE PETROLEUM MESOPHASE PITCH-BASED CARBON FIBERS AT VARIOUS SPINNING CONDITIONS

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INFLUENCE OF CARBON SOLUBILITY ON THERMODYNAMIC PROPERTIES OF CATALYST NANOPARTICLES: A KEY PARAMETER TO GROW SWNTs

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SIMULATION OF FLUIDIZED BED WASTE PLASTICS GASIFICATION USING CO₂

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DEVELOPMENT OF A MATHEMATICAL MODEL FOR INVESTIGATION OF KINETIC PARAMETERS IN STABILIZATION PROCESS OF CARBON FIBER PRODUCTION LINE

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SIMULATING HEAT TRANSFER IN THE FLEXIBLE GRAPHITE HEAT SPREADERS THAT COOL MOBILE ELECTRONICS

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NUMERICAL ANALYSIS OF THE EFFECTS OF PROCESS CONDITIONS ON THE POROUS STRUCTURE DEVELOPMENT OF ADSORBENTS PREPARED BY CHEMICAL ACTIVATION OF DEMINERALISED KRAFT LIGNIN

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COMPUTER STUDIES OF THE INFLUENCE OF ACTIVATION TIME ON THE MICROPOROUS STRUCTURE OF CARBONACEOUS ADSORBENTS PREPARED BY ACTIVATION OF LIGNIN WITH ALKALI HYDROXIDES

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INTERATOMIC POTENTIALS FOR CARBON: TRANSFERABILITY, PRACTICALITIES AND VALIDATION

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H₂ DISSOCIATIVE CHEMISORPTION AT EDGES OF AROMATIC UNITS OF CHAR: DETAILED THERMODYNAMIC, KINETIC AND MOLECULAR VIEW

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COMPETITIVE ADSORPTION OF β -HCH AND CHLORDECONE ON ACTIVATED CARBON: MODELING OF PESTICIDE INTERACTIONS WITH SURFACE GROUPS

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NEURAL NETWORK MODELLING OF COMPLEX STABILIZATION PROCESS IN CARBON FIBER PRODUCTION LINE

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ON THE HYDROPHILICITY OF N-DOPED CARBONS

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ONE-STEP SYNTHESIS OF CARBON DOT PHOSPHOR FILM FOR WHITE LED

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NICKEL-CARBON NANOPARTICLES: SIZE-DEPENDENT PHASE DIAGRAMS AND INTERACTION WITH GRAPHENIC LAYERS

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REACTION MECHANISM OF BENZENE OXIDATION

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EVALUATION OF FUNCTIONAL GROUPS FOR EXFOLIATED CARBON FIBERS

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PYROLYSIS OF BIOMASS WITH POLYSTYRENE AND POLYVINYLCHLORIDE: THERMAL DEGRADATION MECHANISM AND PRODUCT CHARACTERIZATION

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MODELLING OF CO-PYROLYSIS OF OIL SHALES WITH POLYETHYLENE TEREPHTHALATE VIA DAEM APPROACH

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THE TEXTURE-TRANSPORT PROPERTIES RELATION IN KEROGEN PHASES

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CARBX – AN EVALUATION PROGRAMME FOR WIDE-ANGLE X-RAY AND NEUTRON SCATTERING DATA OF NON-GRAPHITIC CARBONS

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FIRST STEPS OF SIMULATION MODEL FOR THERMAL CONVERSION OF PAN PRECURSORS TO CARBON FIBRES

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TOWARD A UNIFIED MECHANISM OF OXYGEN TRANSFER PROCESSES ON THE GRAPHENE SURFACE

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MODEL FOR THE EFFECT OF POROSITY ON ELASTIC PROPERTIES OF SYNTHETIC GRAPHITE MATERIALS USING 3D IMAGING AND MULTIPHYSICS ANALYSIS

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CATALYTIC POLYMERIZATION OF NAPHTHALENE BY HF/BF₃: A DENSITY FUNCTIONAL THEORY STUDY

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KINEMATIC AND THERMODYNAMIC VIEW ON LOCALIZED AND MOBILE ADSORPTION – COMPUTATIONAL STUDIES ON MOLECULE DOUBLET'S PROPERTIES

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ATOMISTIC-SCALE SIMULATIONS OF DEFECT FORMATION IN GRAPHENE UNDER NOBLE GAS IRRADIATION

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EFFECT OF MECHANOCHEMICAL BALL-MILLING ON ACTIVATED CARBON DERIVED FROM AGRICULTURAL WASTE STREAMS

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EFFECT OF THE RELATION CATECHOL/POLYMERIZATION CATALYST ON THE TEXTURAL PROPERTIES OF AEROGELS OF CARBON

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PREPARATION OF CARBON XEROGELS USING SODIUM GLYCEROPHOSPHATE AS POLYMERIZATION CATALYST

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PREPARATION OF NITROGEN-DOPED MICROPOROUS CARBON FROM RESOL AND NOVOLAC RESINS

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SYNTHESIS AND CHARACTERIZATION OF TEMPLATED CARBONS FROM DIFFERENT SILICA TEMPLATES

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ADSORPTION OF Cu(II) FROM AQUEOUS SOLUTION BY SALACCA PEEL DERIVED ACTIVATED CARBONS

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TAILORED ACTIVATED CARBON ADSORBENTS WITH HIGH SURFACE AREA PREPARED VIA ACID-MEDIATED DEHYDRATION OF GLYCEROL

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EFFECT OF Cu IMPREGNATION ON THE SO₂ ADSORPTION CHARACTERISTICS OF CELLULOSE-BASED LYOCCELL ACTIVATED CARBON FIBERS

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ADSORPTION OF METHYLENE BLUE BY ZINC CHLORIDE ACTIVATED CARBON FROM CASHEW NUT SHELLS

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CHARACTERIZATION OF POLYMER CARBON SIEVES, GRAPHITIZED POLYMER CARBONS AND GRAPHITIZED CARBON BLACKS FOR USE IN SAMPLE PREPARATION PROCESSES

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COMBUSTION AND CARBONIZATION OF OLIVE POMACES DRIED USING A SOLAR PROCESS

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ADVANCED OXIDATION PROCESSES FOR THE REGENERATION OF EXHAUSTED ADSORBENTS

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CO₂ ACTIVATED PINE WOOD PELLETS FOR BIOGAS UPGRADING

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NITROGEN AND BORON CO-DOPING IN ORDERED MICROPOROUS CARBON BY USING HARD TEMPLATE METHOD

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CARBON PHOTONIC CRYSTALS FOR ELECTROMAGNETIC APPLICATIONS

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BIOINSPIRED MICROWAVE-ABSORBING COATING BASED ON CARBON HOLLOW SPHERES

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HIERARCHICAL POROUS CARBONS DERIVED FROM LEATHER SOLID WASTES AS HIGH PERFORMANCE ELECTRODE MATERIAL FOR SUPERCAPACITORS: AN APPROACH TO SOLID WASTE MANAGEMENT

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ECO-FRIENDLY SYNTHESIS OF ORDERED MESOPOROUS CARBONS BY SELF-ASSEMBLY OF TANNIN WITH DIFFERENT SURFACTANTS

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ADSORPTION BEHAVIOR OF CO₂ ON AMINE SUPPORTED ON POROUS CARBON

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EFFECT OF PHENOLIC RESIN ON THE CHARACTERISTICS OF ACTIVATED CARBON PREPARED USING LIGNIN EXTRACTED FROM INDUSTRIAL WASTE BLACK LIQUOR

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ELECTROCHEMICAL REGENERATION OF NANOPOROUS CARBONS IN WATER TREATMENT PROCESSES

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