



Keywords for delivery of papers

Please spend a little time on this matter and remember that the reader will use your keywords to search for relevant information in the Proceedings.

Please **select the three to six keywords most relevant to your paper** and include them in your paper as indicated in the 'Instructions for preparation of papers'. You may use additional keywords in case a keyword you would like to use does not appear on the list.

- A**
- _ absorption
 - _ action plan
 - _ activated carbon
 - _ additives
 - _ adsorbent
 - _ aerosol
 - _ agricultural biogas plant
 - _ agricultural intensification
 - _ agricultural residues
 - _ agriculture
 - _ agroenergy farm
 - _ agroindustrial residues
 - _ agropellet
 - _ algae
 - _ alkali
 - _ allothermal conversion
 - _ allothermal gasification
 - _ alternative energy
 - _ alternative fuel
 - _ alternative fuel vehicle
 - _ ammonia
 - _ anaerobic digestion
 - _ anaerobic process
 - _ analysis
 - _ animal fat
 - _ animal residues
 - _ annual herbaceous crops
 - _ arundo donax
 - _ ashes
 - _ assessment
- B**
- _ bacteria
 - _ bales
 - _ bark
 - _ barriers
 - _ batch reactor
- C**
- _ calorific value
 - _ carbohydrate crops
 - _ carbon credits
 - _ carbon dioxide (CO₂)
 - _ catalysis
- _ biobased economy
 - _ biobased products
 - _ biochar
 - _ biochemical
 - _ biocoke
 - _ biodegradability
 - _ biodegradable fraction
 - _ biodiesel
 - _ biodiversity
 - _ bioenergy
 - _ bioethanol
 - _ biofertilisers
 - _ biofiltering
 - _ biofuel
 - _ biogas
 - _ biological conversion
 - _ biomass
 - _ biomass to liquid (BtL)
 - _ biomaterial
 - _ biomethanol
 - _ bioplastic
 - _ biopolymers
 - _ biopower
 - _ bioproducts
 - _ biorefinery
 - _ biorefining
 - _ biotechnology
 - _ boiler
 - _ brassica carinata
 - _ briquette
 - _ business issue
- _ catalyst
 - _ catalytic conversion
 - _ cellulose
 - _ centralised
 - _ centralised generation
 - _ ceramic material
 - _ certificate trading
 - _ certification
 - _ certification issues
 - _ char
 - _ characteristics
 - _ characterization
 - _ charcoal
 - _ chemical composition
 - _ chip
 - _ circular economy
 - _ circulating fluidised bed (CFB)
 - _ clean development mechanisms (CDM)
 - _ clean synthesis gas
 - _ climate
 - _ climate change
 - _ climatic conditions
 - _ clones
 - _ CO₂ balance
 - _ CO₂ capture
 - _ CO₂ emission
 - _ CO₂ reduction
 - _ coal
 - _ cocombustion
 - _ coconut
 - _ cofiring
 - _ cogeneration
 - _ combined heat and power generation (CHP)
 - _ combustion
 - _ commercial plant

- _ commodity market
- _ common agricultural policy (CAP)
- _ compaction
- _ competitiveness
- _ complex
- _ composition
- _ composting
- _ control systems
- _ controlled release
- _ conversion
- _ conversion systems
- _ conversion technology
- _ cooking systems
- _ cooling
- _ cooperation
- _ corn
- _ corrosion
- _ cost analysis
- _ costs
- _ crop
- _ cultivar
- _ cultivation
- _ cynara cardunculus

D

- _ database
- _ decentralised
- _ decentralised generation
- _ decision making
- _ dedicated biopower plant
- _ demand
- _ demonstration
- _ densification
- _ desalination schemes
- _ desert
- _ desertification
- _ developing countries
- _ diesel
- _ diester
- _ digestate
- _ digestion
- _ dimethyl ether
- _ distributed generation
- _ distribution
- _ district heating
- _ dry matter
- _ drying
- _ dual fluidized bed

E

- _ ecology

- _ economical aspects
- _ economics
- _ ecosystems
- _ education
- _ efficiency
- _ effluent
- _ elasticity
- _ electric osmosis
- _ electricity
- _ electricity sector
- _ emissions
- _ emission factor
- _ emissions trading
- _ emulsion
- _ end products
- _ energetic value
- _ energy
- _ energy balance
- _ energy crops
- _ engine
- _ environmental impact
- _ environmental limitations
- _ environment
- _ enzymatic hydrolysis
- _ enzymatic process
- _ enzyme
- _ esterification
- _ ethanol
- _ ethyl acetate
- _ ethyl tertiary butyl ether (ETBE)
- _ eucalyptus
- _ European Union (EU)
- _ explosion pretreatment
- _ external effects
- _ externalities assessment

F

- _ farm
- _ fast pyrolysis
- _ feasibility studies
- _ feeds
- _ feeding systems
- _ feedstock
- _ fermentation
- _ fertilization
- _ fibre sorghum
- _ fibre
- _ filtration
- _ financial aspects
- _ financing
- _ Fischer Tropsch

- _ fixed bed
- _ flash pyrolysis
- _ fluidized bed
- _ fly ashes
- _ food
- _ food additives
- _ forest residues
- _ forestry
- _ fouling
- _ fuel
- _ fuel cell

G

- _ gas cleaning
- _ gas turbine
- _ gaseous biofuel
- _ gasification
- _ generation
- _ genetic improvement
- _ genotype
- _ geographical information system (GIS)
- _ globalisation
- _ governance
- _ grain
- _ grass
- _ green certificates
- _ green chemistry
- _ green electricity market
- _ greenhouse gases (GHG)
- _ guidelines

H

- _ harvesting
- _ heat
- _ heavy metals
- _ hemicellulose
- _ hemp
- _ high calorific value
- _ hot gas cleaning
- _ households
- _ hydrogasification
- _ hydrogen
- _ hydrolysis

I

- _ impact
- _ implementation
- _ industrial chemicals
- _ industrial scale application
- _ industry
- _ inhibitors

- _ innovative concepts
- _ integrated gasification combined cycle (IGCC)
- _ integration
- _ internal combustion engine
- _ international
- _ irrigation

J

- _ jatropha curcas
- _ joint implementation (JI)

K

- _ kenaf
- _ Kyoto protocol

L

- _ land use
- _ landfills
- _ landfill gas
- _ large utility
- _ learning curve
- _ legal aspects
- _ life cycle assessment (LCA)
- _ lignin
- _ lignocellulose
- _ lignocellulosic sources
- _ liquefaction
- _ liquid biofuel
- _ local
- _ logistics
- _ losses
- _ low calorific value
- _ low temperature

M

- _ macroalgae
- _ maize
- _ management
- _ manure
- _ marginal effects
- _ market
- _ market forecasts
- _ marketing
- _ mass balance
- _ mass flow analysis
- _ measurement
- _ mechanization
- _ methane
- _ methanol
- _ microturbine
- _ microalgae

- _ miscanthus
- _ mixed biomass pellet
- _ mixtures
- _ model
- _ modelling
- _ moisture
- _ monitoring
- _ municipal solid waste (MSW)

N

- _ national
- _ natural gas
- _ new cultivar
- _ nitrogen/carbon ratio
- _ novel crops
- _ NO_x emission

O

- _ oil
- _ oil crops
- _ oilseeds
- _ olive tree
- _ operation and maintenance
- _ organic rankine cycle (ORC)
- _ organic waste
- _ oxidation
- _ oxygenated compounds

P

- _ palm
- _ palm oil
- _ panels
- _ panicum virgatum
- _ paper
- _ paper production
- _ particle emission
- _ peat
- _ pellet
- _ pelletization
- _ perennial energy crops
- _ performance
- _ pesticides
- _ petrochemicals substitute
- _ photosynthesis
- _ pilot plant
- _ plant
- _ policies
- _ polluted soil
- _ pollution
- _ polygeneration

- _ poplar
- _ potential
- _ power generation
- _ pretreatment
- _ process heat
- _ processing industry
- _ product gas
- _ production
- _ project
- _ project development
- _ promotion
- _ protection issues
- _ proteins
- _ pulp
- _ pyrolysis
- _ pyrolysis oil

Q

- _ quality
- _ quality standards

R

- _ rapeseed
- _ rapeseed oil
- _ reactivity
- _ reactor
- _ recycling
- _ reduction
- _ reed canary grass
- _ reforestation
- _ reforming
- _ regional
- _ regulation
- _ removal
- _ renewable energies
- _ residues
- _ resources
- _ rice husks
- _ rice straw
- _ rotation
- _ round wood
- _ run off
- _ rural development

S

- _ sampling
- _ sawdust
- _ second generation
- _ security
- _ seeds
- _ set-aside agricultural land
- _ sewage sludge

- _ sewage treatment
- _ shell
- _ short rotation forestry (SRF)
- _ sintering
- _ sludge
- _ small scale application
- _ social aspects
- _ socio-economic impact
- _ software
- _ soil fertility
- _ solid biofuel
- _ sorghum bicolor L. Moench
- _ stakeholders
- _ stand-alone systems
- _ standards
- _ standardisation
- _ steam
- _ steam engine
- _ steam explosion
- _ stirling engine
- _ storage
- _ stove
- _ strategies
- _ strategy
- _ straw
- _ structure
- _ study
- _ sugar
- _ sugar beet
- _ sugar cane
- _ sugar cane bagasse
- _ sugar crops
- _ sunflower
- _ sunflower oil
- _ supply
- _ supply chain
- _ sustainability
- _ sustainability criteria
- _ sustainability standards
- _ sweet sorghum
- _ switchgrass
- _ strengths weaknesses opportunities threats (SWOT) analysis
- _ syngas
- _ synthetic natural gas (SNG)

T

- _ tar
- _ tar removal
- _ technology
- _ temperate regions

- _ tertiary sector
- _ thermochemical conversion
- _ timber
- _ torrefaction
- _ toxicity
- _ trade
- _ training
- _ transesterification
- _ transport
- _ transport sector
- _ transportation
- _ treatment
- _ trigeneration
- _ tropical regions

U

- _ upgrading
- _ urban area
- _ urban wastes
- _ utility scale

V

- _ vegetable oil
- _ vehicles
- _ venture capital
- _ viscosity

W

- _ waste
- _ waste disposal
- _ wastewater
- _ wastewater treatment
- _ water use
- _ wheat
- _ wheat straw
- _ willow
- _ winery
- _ wood
- _ wood chip
- _ wood crops
- _ wood pellet
- _ worldwide deployment

Y

- _ yield

ADDITIONAL KEYWORDS

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