

Subject Index of Volume 121

- Activation energy
An investigation on the calcination kinetics of zinc carbonate hydroxide and Calsimin zinc carbonate concentrate, 79
- Air-blast atomization
Modelling prediction of the microcapsule size of polyelectrolyte complexes produced by atomization, 1
- Airlift loop reactor
The preparation of ϵ -caprolactone in airlift loop sonochemical reactor, 59
- Airlift reactor
Influence of the baffle clearance design on hydrodynamics of a two riser rectangular airlift reactor with inverse internal loop and expanded gas–liquid separator, 17
- Aluminium trihydroxide
Preparation of nano aluminium trihydroxide by high gravity reactive precipitation, 109
- Au/CdS nanocomposites
Synthesis of CdS nanocrystals and Au/CdS nanocomposites through ultrasound activation liquid–liquid two-phase approach at room temperature, 9
- Batch reactor
Effect of pulping conditions on lignin structure from maritime pine kraft pulps, 153
- Biomass conversion
Influence of temperature and heating rate on the fixed bed pyrolysis of meat and bone meal, 85
- Biosorption
Performance, kinetics and equilibrium in biosorption of anionic dye Reactive Black 5 by the waste biomass of *Corynebacterium glutamicum* as a low-cost biosorbent, 37
- Bottom clearance
Influence of the baffle clearance design on hydrodynamics of a two riser rectangular airlift reactor with inverse internal loop and expanded gas–liquid separator, 17
- Calcination kinetics
An investigation on the calcination kinetics of zinc carbonate hydroxide and Calsimin zinc carbonate concentrate, 79
- Calsimin zinc carbonate concentrate
An investigation on the calcination kinetics of zinc carbonate hydroxide and Calsimin zinc carbonate concentrate, 79
- ϵ -Caprolactone
The preparation of ϵ -caprolactone in airlift loop sonochemical reactor, 59
- Carbonation
Preparation of nano aluminium trihydroxide by high gravity reactive precipitation, 109
- CdS nanocrystals
Synthesis of CdS nanocrystals and Au/CdS nanocomposites through ultrasound activation liquid–liquid two-phase approach at room temperature, 9
- Ceria
Partial oxidation of methane over Ni/Ce-Ti-O catalysts, 115
- Chemical oxidation
Denitrification removal of nitric oxide in a rotating drum biofilter, 45
- Circulating fluidized bed
Experimental study on the gas–solid suspension flow in a square cyclone separator, 51
- Corynebacterium glutamicum*
Performance, kinetics and equilibrium in biosorption of anionic dye Reactive Black 5 by the waste biomass of *Corynebacterium glutamicum* as a low-cost biosorbent, 37
- Cyclohexanone
The preparation of ϵ -caprolactone in airlift loop sonochemical reactor, 59
- Delignification
Effect of pulping conditions on lignin structure from maritime pine kraft pulps, 153
- Denitrification
Denitrification removal of nitric oxide in a rotating drum biofilter, 45
- Desorption
Performance, kinetics and equilibrium in biosorption of anionic dye Reactive Black 5 by the waste biomass of *Corynebacterium glutamicum* as a low-cost biosorbent, 37
- Diazo coupling
Characterization of micromixing efficiency in rotating packed beds by chemical methods, 147
- Disinfection
Kinetics of bacteria inactivation employing UV radiation under clear water conditions, 135
- Escherichia coli*
Kinetics of bacteria inactivation employing UV radiation under clear water conditions, 135
- Flow-through reactor
Effect of pulping conditions on lignin structure from maritime pine kraft pulps, 153
- Fluidized beds
Time–frequency investigation of different modes of bubble flow in a gas–solid fluidized bed, 27
- Fuel cell
Temperature-staged methanation: An alternative method to purify hydrogen-rich fuel gas for PEFC, 97
- Gas holdup
Influence of the baffle clearance design on hydrodynamics of a two riser rectangular airlift reactor with inverse internal loop and expanded gas–liquid separator, 17
- High temperature stable catalyst
Methane reforming over a high temperature stable-NiCoMgO_x supported on zirconia–hafnia catalyst, 73
- Hydrogen production
Partial oxidation of methane over Ni/Ce-Ti-O catalysts, 115

- Hydrogen purification
 Temperature-staged methanation: An alternative method to purify hydrogen-rich fuel gas for PEFC, 97
- Iodide–iodate
 Characterization of micromixing efficiency in rotating packed beds by chemical methods, 147
- Isotherm
 Performance, kinetics and equilibrium in biosorption of anionic dye Reactive Black 5 by the waste biomass of *Corynebacterium glutamicum* as a low-cost biosorbent, 37
- Kinetic model
 Kinetics of bacteria inactivation employing UV radiation under clear water conditions, 135
- Kinetics
 Mechanochemical effects on the molybdenite roasting kinetics, 65
- Kraft pulping
 Effect of pulping conditions on lignin structure from maritime pine kraft pulps, 153
- Lignin structure
 Effect of pulping conditions on lignin structure from maritime pine kraft pulps, 153
- Liquid velocity
 Influence of the baffle clearance design on hydrodynamics of a two riser rectangular airlift reactor with inverse internal loop and expanded gas–liquid separator, 17
- Mass transfer
 Denitrification removal of nitric oxide in a rotating drum biofilter, 45
- Meat and bone meal
 Influence of temperature and heating rate on the fixed bed pyrolysis of meat and bone meal, 85
- Mechanical activation
 Mechanochemical effects on the molybdenite roasting kinetics, 65
- Methane
 Methane reforming over a high temperature stable-NiCoMgO_x supported on zirconia–hafnia catalyst, 73
- Micromixing
 Characterization of micromixing efficiency in rotating packed beds by chemical methods, 147
- Modeling
 Development and modeling of a rotating disc photocatalytic reactor for wastewater treatment, 125
- Modes of bubble flow
 Time–frequency investigation of different modes of bubble flow in a gas–solid fluidized bed, 27
- Molybdenite
 Mechanochemical effects on the molybdenite roasting kinetics, 65
- Nanoparticle
 Preparation of nano aluminium trihydroxide by high gravity reactive precipitation, 109
- Nitric oxide
 Denitrification removal of nitric oxide in a rotating drum biofilter, 45
- Non-isothermal
 Mechanochemical effects on the molybdenite roasting kinetics, 65
- Oxidation
 Mechanochemical effects on the molybdenite roasting kinetics, 65
- Oxy-dry reforming
 Methane reforming over a high temperature stable-NiCoMgO_x supported on zirconia–hafnia catalyst, 73
- Oxy-steam reforming
 Methane reforming over a high temperature stable-NiCoMgO_x supported on zirconia–hafnia catalyst, 73
- Partial oxidation
 Methane reforming over a high temperature stable-NiCoMgO_x supported on zirconia–hafnia catalyst, 73
- Partial oxidation of methane
 Partial oxidation of methane over Ni/Ce-Ti-O catalysts, 115
- Particle size prediction
 Modelling prediction of the microcapsule size of polyelectrolyte complexes produced by atomization, 1
- Photocatalyst
 Development and modeling of a rotating disc photocatalytic reactor for wastewater treatment, 125
- POM
 Partial oxidation of methane over Ni/Ce-Ti-O catalysts, 115
- Preparation
 The preparation of ε-caprolactone in airlift loop sonochemical reactor, 59
- Pressure drop
 Influence of the baffle clearance design on hydrodynamics of a two riser rectangular airlift reactor with inverse internal loop and expanded gas–liquid separator, 17
- Pressure fluctuations
 Time–frequency investigation of different modes of bubble flow in a gas–solid fluidized bed, 27
- PROX
 Temperature-staged methanation: An alternative method to purify hydrogen-rich fuel gas for PEFC, 97
- Pulp colour
 Effect of pulping conditions on lignin structure from maritime pine kraft pulps, 153
- Pyrolysis
 Influence of temperature and heating rate on the fixed bed pyrolysis of meat and bone meal, 85
- Radiation distribution
 Development and modeling of a rotating disc photocatalytic reactor for wastewater treatment, 125
- Reactive Black 5
 Performance, kinetics and equilibrium in biosorption of anionic dye Reactive Black 5 by the waste biomass of *Corynebacterium glutamicum* as a low-cost biosorbent, 37
- Reactor
 Development and modeling of a rotating disc photocatalytic reactor for wastewater treatment, 125
- Rotating drum biofilter
 Denitrification removal of nitric oxide in a rotating drum biofilter, 45
- Rotating packed bed
 Preparation of nano aluminium trihydroxide by high gravity reactive precipitation, 109
 Characterization of micromixing efficiency in rotating packed beds by chemical methods, 147
- Ru catalyst
 Temperature-staged methanation: An alternative method to purify hydrogen-rich fuel gas for PEFC, 97
- Selective CO methanation
 Temperature-staged methanation: An alternative method to purify hydrogen-rich fuel gas for PEFC, 97
- Shrinking core model
 An investigation on the calcination kinetics of zinc carbonate hydroxide and Calsimin zinc carbonate concentrate, 79
- Solid solution
 Partial oxidation of methane over Ni/Ce-Ti-O catalysts, 115
- Square-shaped cyclone separator
 Experimental study on the gas–solid suspension flow in a square cyclone separator, 51
- Surfactants
 Effect of pulping conditions on lignin structure from maritime pine kraft pulps, 153

- TGA–DTA
Mechanochemical effects on the molybdenite roasting kinetics, 65
- Thermodynamics
Performance, kinetics and equilibrium in biosorption of anionic dye Reactive Black 5 by the waste biomass of *Corynebacterium glutamicum* as a low-cost biosorbent, 37
- Three-dimensional particle dynamic analyzer (3D-PDA)
Experimental study on the gas–solid suspension flow in a square cyclone separator, 51
- Time scales
Time–frequency investigation of different modes of bubble flow in a gas–solid fluidized bed, 27
- Titania
Partial oxidation of methane over Ni/Ce-Ti-O catalysts, 115
- Titanium dioxide
Development and modeling of a rotating disc photocatalytic reactor for wastewater treatment, 125
- Top clearance
Influence of the baffle clearance design on hydrodynamics of a two riser rectangular airlift reactor with inverse internal loop and expanded gas–liquid separator, 17
- Turbulent flow
Experimental study on the gas–solid suspension flow in a square cyclone separator, 51
- Ultrasound
The preparation of ϵ -caprolactone in airlift loop sonochemical reactor, 59
- Ultrasound activation liquid–liquid two-phase approach at room temperature
Synthesis of CdS nanocrystals and Au/CdS nanocomposites through ultrasound activation liquid–liquid two-phase approach at room temperature, 9
- UV radiation
Kinetics of bacteria inactivation employing UV radiation under clear water conditions, 135
- Wave mechanisms
Modelling prediction of the microcapsule size of polyelectrolyte complexes produced by atomization, 1
- Wavelet analysis
Time–frequency investigation of different modes of bubble flow in a gas–solid fluidized bed, 27
- Wavelet energy spectrum
Time–frequency investigation of different modes of bubble flow in a gas–solid fluidized bed, 27
- Zinc carbonate hydroxide
An investigation on the calcination kinetics of zinc carbonate hydroxide and Calsimin zinc carbonate concentrate, 79