

Subject Index of Volume 100

- Activation energy
An apparent kinetic model for the carbonation of calcium oxide by carbon dioxide, 71
- Air treatment
Biofiltration of xylene emissions: bioreactor response to variations in the pollutant inlet concentration and gas flow rate, 149
- Airlift contactor
Internal liquid circulation in annulus sparged internal loop airlift contactors, 1
- Biofiltration
Biofiltration of xylene emissions: bioreactor response to variations in the pollutant inlet concentration and gas flow rate, 149
N,N-bis(2-ethylhexyl)guanidine (LIX79)
Improved kinetics-based gold cyanide extraction with mixture of LIX79 + TOPO utilizing hollow fiber membrane contactors, 11
- Calcium oxide
An apparent kinetic model for the carbonation of calcium oxide by carbon dioxide, 71
- Carbon dioxide
An apparent kinetic model for the carbonation of calcium oxide by carbon dioxide, 71
Biofiltration of xylene emissions: bioreactor response to variations in the pollutant inlet concentration and gas flow rate, 149
- Carbonation
An apparent kinetic model for the carbonation of calcium oxide by carbon dioxide, 71
- Carboxylic acid
Wet air oxidation of long-chain carboxylic acids, 43
- Catalyst
Study on kinetics of polymerization of dimer fatty acids with ethylenediamine in the presence of catalyst, 85
- Catalytic converter
Unsteady temperature fields of monoliths in catalytic converters, 95
- Catalytic cracking
Effect of modelling pressure gradient in the simulation of industrial FCC risers, 181
- Catalytic distillation
A comparison of a pseudo-homogeneous non-equilibrium model and a three-phase non-equilibrium model for catalytic distillation, 119
- Catalytic membrane reactors
Catalytic combustion of methane in non-permselective membrane reactors with separate reactant feeds, 23
- Chlorination by-products
Kinetics of the formation and decomposition of chlorination by-products in surface waters, 139
- Coal
The feasibility of a coal gasifier combined with a high-temperature fuel cell, 167
- Combustion
Catalytic combustion of methane in non-permselective membrane reactors with separate reactant feeds, 23
- Concentration
Biofiltration of xylene emissions: bioreactor response to variations in the pollutant inlet concentration and gas flow rate, 149
- Darken equation
The composition dependence of self and transport diffusivities from molecular dynamics simulations, 51
- Decomposition
Kinetics of the formation and decomposition of chlorination by-products in surface waters, 139
- Degradation
Degradation of salicylic acid by photo-assisted Fenton reaction using Fe ions on strongly acidic ion exchange resin as catalyst, 159
- Diacetone alcohol
A comparison of a pseudo-homogeneous non-equilibrium model and a three-phase non-equilibrium model for catalytic distillation, 119
- Dimer fatty acid
Study on kinetics of polymerization of dimer fatty acids with ethylenediamine in the presence of catalyst, 85
- Effective medium model
Flow through beds of perfusive particles: effective medium model for velocity prediction within the perfusive media, 79
- Energy conservation principal
Internal liquid circulation in annulus sparged internal loop airlift contactors, 1
- Ethyl cellosolve
A comparison of a pseudo-homogeneous non-equilibrium model and a three-phase non-equilibrium model for catalytic distillation, 119
- Ethylenediamine
Study on kinetics of polymerization of dimer fatty acids with ethylenediamine in the presence of catalyst, 85
- Fatty acid
Wet air oxidation of long-chain carboxylic acids, 43
- Fatty polyamide
Study on kinetics of polymerization of dimer fatty acids with ethylenediamine in the presence of catalyst, 85
- Formation
Kinetics of the formation and decomposition of chlorination by-products in surface waters, 139
- Gas flow rate
Biofiltration of xylene emissions: bioreactor response to variations in the pollutant inlet concentration and gas flow rate, 149
- Gasification
The feasibility of a coal gasifier combined with a high-temperature fuel cell, 167
- Gas–solid reaction
An apparent kinetic model for the carbonation of calcium oxide by carbon dioxide, 71
- Genetic algorithm
Modeling of a reaction network and its optimization by genetic algorithm, 109

- Hydrodynamics
Effect of modelling pressure gradient in the simulation of industrial FCC risers, 181
- Hydrogen peroxide
Degradation of salicylic acid by photo-assisted Fenton reaction using Fe ions on strongly acidic ion exchange resin as catalyst, 159
- Internal liquid circulation
Internal liquid circulation in annulus sparged internal loop airlift contactors, 1
- Isobaric–isothermal
The composition dependence of self and transport diffusivities from molecular dynamics simulations, 51
- Kinetic
Study on kinetics of polymerization of dimer fatty acids with ethylenediamine in the presence of catalyst, 85
- Kinetic model
An apparent kinetic model for the carbonation of calcium oxide by carbon dioxide, 71
- Kinetics
Wet air oxidation of long-chain carboxylic acids, 43
Kinetics of the formation and decomposition of chlorination by-products in surface waters, 139
- Limiting current method
Mass transfer variation within a packed bed and its relation to liquid distribution, 33
- Liquid circulation
Internal liquid circulation in annulus sparged internal loop airlift contactors, 1
- Liquid distribution
Mass transfer variation within a packed bed and its relation to liquid distribution, 33
- Local mass transfer variation
Mass transfer variation within a packed bed and its relation to liquid distribution, 33
- Material conservation principal
Internal liquid circulation in annulus sparged internal loop airlift contactors, 1
- Mathematical model
Internal liquid circulation in annulus sparged internal loop airlift contactors, 1
- Mathematical modeling
Modeling of a reaction network and its optimization by genetic algorithm, 109
- MCFC
The feasibility of a coal gasifier combined with a high-temperature fuel cell, 167
- Measurement
Unsteady temperature fields of monoliths in catalytic converters, 95
- Membrane extraction
Treatment of phenol-containing aqueous solutions by membrane-based solvent extraction in coupled ultrafiltration modules, 129
- Methane
Catalytic combustion of methane in non-permeable membrane reactors with separate reactant feeds, 23
- Modeling
Study on kinetics of polymerization of dimer fatty acids with ethylenediamine in the presence of catalyst, 85
Unsteady temperature fields of monoliths in catalytic converters, 95
- Modelling
Wet air oxidation of long-chain carboxylic acids, 43
Effect of modelling pressure gradient in the simulation of industrial FCC risers, 181
- Molecular dynamics
The composition dependence of self and transport diffusivities from molecular dynamics simulations, 51
- Non-equilibrium model
A comparison of a pseudo-homogeneous non-equilibrium model and a three-phase non-equilibrium model for catalytic distillation, 119
- Numerical analysis
Modeling of a reaction network and its optimization by genetic algorithm, 109
- Optimum design
Unsteady temperature fields of monoliths in catalytic converters, 95
- Pd
Catalytic combustion of methane in non-permeable membrane reactors with separate reactant feeds, 23
- Perfusive packed bed
Flow through beds of perfusive particles: effective medium model for velocity prediction within the perfusive media, 79
- Perfusive particle
Flow through beds of perfusive particles: effective medium model for velocity prediction within the perfusive media, 79
- Permeability
Flow through beds of perfusive particles: effective medium model for velocity prediction within the perfusive media, 79
- Phenol removal
Treatment of phenol-containing aqueous solutions by membrane-based solvent extraction in coupled ultrafiltration modules, 129
- Phosphoric acid
Study on kinetics of polymerization of dimer fatty acids with ethylenediamine in the presence of catalyst, 85
- Photo-assisted Fenton reaction
Degradation of salicylic acid by photo-assisted Fenton reaction using Fe ions on strongly acidic ion exchange resin as catalyst, 159
- Pressure
The composition dependence of self and transport diffusivities from molecular dynamics simulations, 51
- Pressure gradient
Effect of modelling pressure gradient in the simulation of industrial FCC risers, 181
- Pseudo-homogeneous model
A comparison of a pseudo-homogeneous non-equilibrium model and a three-phase non-equilibrium model for catalytic distillation, 119
- Pt
Catalytic combustion of methane in non-permeable membrane reactors with separate reactant feeds, 23
- Purification
Treatment of phenol-containing aqueous solutions by membrane-based solvent extraction in coupled ultrafiltration modules, 129
- Reaction engineering
Modeling of a reaction network and its optimization by genetic algorithm, 109
- Riser reactor
Effect of modelling pressure gradient in the simulation of industrial FCC risers, 181
- Salicylic acid
Degradation of salicylic acid by photo-assisted Fenton reaction using Fe ions on strongly acidic ion exchange resin as catalyst, 159
- Selectivity
Modeling of a reaction network and its optimization by genetic algorithm, 109
- Self-diffusivity
The composition dependence of self and transport diffusivities from molecular dynamics simulations, 51

- SOFC
The feasibility of a coal gasifier combined with a high-temperature fuel cell, 167
- Styrene
Modeling of a reaction network and its optimization by genetic algorithm, 109
- Subcritical hydrothermal oxidation
Wet air oxidation of long-chain carboxylic acids, 43
- System
The feasibility of a coal gasifier combined with a high-temperature fuel cell, 167
- Technical evaluation
The feasibility of a coal gasifier combined with a high-temperature fuel cell, 167
- Temperature
The composition dependence of self and transport diffusivities from molecular dynamics simulations, 51
Biofiltration of xylene emissions: bioreactor response to variations in the pollutant inlet concentration and gas flow rate, 149
- Temperature field
Unsteady temperature fields of monoliths in catalytic converters, 95
- The Dispersion-free membrane extraction
Improved kinetics-based gold cyanide extraction with mixture of LIX79 + TOPO utilizing hollow fiber membrane contactors, 11
- Three-phase model
A comparison of a pseudo-homogeneous non-equilibrium model and a three-phase non-equilibrium model for catalytic distillation, 119
- Transport diffusivity
The composition dependence of self and transport diffusivities from molecular dynamics simulations, 51
- Triethylphosphine oxide (TOPO)
Improved kinetics-based gold cyanide extraction with mixture of LIX79 + TOPO utilizing hollow fiber membrane contactors, 11
- Velocity profile
Flow through beds of perfusive particles: effective medium model for velocity prediction within the perfusive media, 79
- Waste water treatment
Treatment of phenol-containing aqueous solutions by membrane-based solvent extraction in coupled ultrafiltration modules, 129
- Wet air oxidation
Wet air oxidation of long-chain carboxylic acids, 43
- Xylene
Biofiltration of xylene emissions: bioreactor response to variations in the pollutant inlet concentration and gas flow rate, 149