

Subject Index of Volume 106

- Activated carbon
- Activated carbons from lignin: kinetic modeling of the pyrolysis of Kraft lignin activated with phosphoric acid, 1
 - p*-Nitrophenol abatement by the combination of electrocatalysis and activated carbon, 83
 - Ultrasonic desorption of *p*-chlorophenol from granular activated carbon, 153
- Activation energy
- Batch kinetic study of sorption of methylene blue by perlite, 73
- Adherence
- Zeolite washcoating onto cordierite honeycomb reactors for environmental applications, 25
- Adsorption
- Coupled diffusion on the NO+H₂ reaction on Pt(1 0 0): chemical wave pattern formation by defects, 229
- Agitation
- Local bubble size distributions in agitated vessels, 133
- Airlift loop bioreactor
- Simultaneous removal of ethyl acetate and ethanol in air streams using a gas–liquid–solid three-phase flow airlift loop bioreactor, 171
- Ammonium molybdate
- Kinetics of heterogeneous oxidation of benzyl alcohol with hydrogen peroxide, 111
- Anaerobic digestion
- Dynamic modeling of biogas production in an UASB reactor for potato processing wastewater treatment, 53
 - Solubilisation of waste-activated sludge by ultrasonic treatment, 163
- Auto-thermal reforming
- Use of non-thermal plasma for hydrocarbon reforming, 59
- Benzaldehyde
- Kinetics of heterogeneous oxidation of benzyl alcohol with hydrogen peroxide, 111
- Benzyl alcohol
- Kinetics of heterogeneous oxidation of benzyl alcohol with hydrogen peroxide, 111
- Biodegradability
- Solubilisation of waste-activated sludge by ultrasonic treatment, 163
- Biomass
- Supercritical water gasification of biomass: thermodynamic analysis with direct Gibbs free energy minimization, 261
- Biosorption
- Batch and column removal of copper from aqueous solution using a brown marine alga *Turbinaria ornata*, 177
- Biuret
- Modeling the synthesis section of an industrial urea plant, 249
- Bubble size distribution
- Local bubble size distributions in agitated vessels, 133
- Capillary technique
- Local bubble size distributions in agitated vessels, 133
- Carbon deposition
- Methane steam reforming on supported and non-supported molybdenum carbides, 97
- Catalyst deactivation
- A two-zone fluidized bed reactor for catalytic propane dehydrogenation, 91
- Catalytic cracking
- Sulphur oxides emission during fluidised-bed catalytic cracking, 145
- p*-Chlorophenol
- Ultrasonic desorption of *p*-chlorophenol from granular activated carbon, 153
- Circulating fluidized bed
- A two-zone fluidized bed reactor for catalytic propane dehydrogenation, 91
- Clusters
- Flow behavior of clusters in a riser simulated by direct simulation Monte Carlo method, 197
- CO₂ OCM process
- A hybrid numerical approach for multi-responses optimization of process parameters and catalyst compositions in CO₂ OCM process over CaO-MnO/CeO₂ catalyst, 213
- Coagulation
- Production of a complex coagulant from fly ash, 269
- Copper
- Batch and column removal of copper from aqueous solution using a brown marine alga *Turbinaria ornata*, 177
- Cordierite honeycombs
- Zeolite washcoating onto cordierite honeycomb reactors for environmental applications, 25
- Cr₂O₃/Al₂O₃ catalysts
- A two-zone fluidized bed reactor for catalytic propane dehydrogenation, 91
- Desorption
- Ultrasonic desorption of *p*-chlorophenol from granular activated carbon, 153
- Discrete particle motion-collision decoupled model
- Flow behavior of clusters in a riser simulated by direct simulation Monte Carlo method, 197
- DSMC method
- Flow behavior of clusters in a riser simulated by direct simulation Monte Carlo method, 197
- Dynamic model
- Dynamic modeling of biogas production in an UASB reactor for potato processing wastewater treatment, 53
- Electrocatalysis
- p*-Nitrophenol abatement by the combination of electrocatalysis and activated carbon, 83
- Emissions
- Sulphur oxides emission during fluidised-bed catalytic cracking, 145
- Ethanol
- Simultaneous removal of ethyl acetate and ethanol in air streams using a gas–liquid–solid three-phase flow airlift loop bioreactor, 171
 - On the use of a non-thermal plasma reactor for ethanol steam reforming, 241

- Ethyl acetate
Simultaneous removal of ethyl acetate and ethanol in air streams using a gas–liquid–solid three-phase flow airlift loop bioreactor, 171
- Fly ash
Production of a complex coagulant from fly ash, 269
- Frequency
Ultrasonic desorption of *p*-chlorophenol from granular activated carbon, 153
- Fuels
Sulphur oxides emission during fluidised-bed catalytic cracking, 145
- Gas oil
Testing of hydrodesulfurization process in small trickle-bed reactor, 105
- Gas–liquid–solid three-phase flow
Simultaneous removal of ethyl acetate and ethanol in air streams using a gas–liquid–solid three-phase flow airlift loop bioreactor, 171
- Gasoline
Use of non-thermal plasma for hydrocarbon reforming, 59
- Gibbs free energy minimization
Supercritical water gasification of biomass: thermodynamic analysis with direct Gibbs free energy minimization, 261
- Gliding arc
Use of non-thermal plasma for hydrocarbon reforming, 59
- Heptane
Technical and economical evaluation of a zeolite membrane based heptane hydroisomerization process, 187
- Heterogeneous reaction
Modeling the synthesis section of an industrial urea plant, 249
- Hydrodesulfurization
Testing of hydrodesulfurization process in small trickle-bed reactor, 105
- Hydrogen
Use of non-thermal plasma for hydrocarbon reforming, 59
On the use of a non-thermal plasma reactor for ethanol steam reforming, 241
- Hydrogen generation
Methane steam reforming on supported and non-supported molybdenum carbides, 97
- Hydrogen peroxide
Kinetics of heterogeneous oxidation of benzyl alcohol with hydrogen peroxide, 111
- Hydroisomerization processes
Technical and economical evaluation of a zeolite membrane based heptane hydroisomerization process, 187
- Inferential control
Use of state estimation for inferential nonlinear MPC: a case study, 13
- Intensity
Ultrasonic desorption of *p*-chlorophenol from granular activated carbon, 153
- Kinetics
Activated carbons from lignin: kinetic modeling of the pyrolysis of Kraft lignin activated with phosphoric acid, 1
Batch kinetic study of sorption of methylene blue by perlite, 73
Coupled diffusion on the NO+H₂ reaction on Pt(1 0 0): chemical wave pattern formation by defects, 229
- Lignin
Activated carbons from lignin: kinetic modeling of the pyrolysis of Kraft lignin activated with phosphoric acid, 1
- Mathematical
Coupled diffusion on the NO+H₂ reaction on Pt(1 0 0): chemical wave pattern formation by defects, 229
- Methane
Oxygen transport through LSM/YSZ/LaAlO system for use of fuel cell type reactor, 35
- Methane steam reforming
Methane steam reforming on supported and non-supported molybdenum carbides, 97
- Methylene blue
Batch kinetic study of sorption of methylene blue by perlite, 73
- Modelling
Oxygen transport through LSM/YSZ/LaAlO system for use of fuel cell type reactor, 35
Coupled diffusion on the NO+H₂ reaction on Pt(1 0 0): chemical wave pattern formation by defects, 229
- Molybdenum carbides
Methane steam reforming on supported and non-supported molybdenum carbides, 97
- Multi-responses optimization
A hybrid numerical approach for multi-responses optimization of process parameters and catalyst compositions in CO₂ OCM process over CaO-MnO/CeO₂ catalyst, 213
- p*-Nitrophenol
p-Nitrophenol abatement by the combination of electrocatalysis and activated carbon, 83
- Nonlinear dynamics
Coupled diffusion on the NO+H₂ reaction on Pt(1 0 0): chemical wave pattern formation by defects, 229
- Nonlinear model predictive control
Use of state estimation for inferential nonlinear MPC: a case study, 13
- Non-thermal plasma
On the use of a non-thermal plasma reactor for ethanol steam reforming, 241
- Oxidation
Kinetics of heterogeneous oxidation of benzyl alcohol with hydrogen peroxide, 111
- Oxygen permeation
Oxygen transport through LSM/YSZ/LaAlO system for use of fuel cell type reactor, 35
- Packed bed
Batch and column removal of copper from aqueous solution using a brown marine alga *Turbinaria ornata*, 177
- Pareto-optimal solutions
A hybrid numerical approach for multi-responses optimization of process parameters and catalyst compositions in CO₂ OCM process over CaO-MnO/CeO₂ catalyst, 213
- Particle size
Solubilisation of waste-activated sludge by ultrasonic treatment, 163
- Perlite
Batch kinetic study of sorption of methylene blue by perlite, 73
- Phosphoric acid
Activated carbons from lignin: kinetic modeling of the pyrolysis of Kraft lignin activated with phosphoric acid, 1
- Plasma
Use of non-thermal plasma for hydrocarbon reforming, 59
- Potato processing wastewater
Dynamic modeling of biogas production in an UASB reactor for potato processing wastewater treatment, 53
- PR* equation of state
Supercritical water gasification of biomass: thermodynamic analysis with direct Gibbs free energy minimization, 261

- Process conditions
Testing of hydrodesulfurization process in small trickle-bed reactor, 105
- Propane dehydrogenation
A two-zone fluidized bed reactor for catalytic propane dehydrogenation, 91
- Pyrolysis
Activated carbons from lignin: kinetic modeling of the pyrolysis of Kraft lignin activated with phosphoric acid, 1
- Reactive distillation
Conceptual design of a reactive distillation process for ultra-low sulfur diesel production, 119
- Reactive residue curves
Conceptual design of a reactive distillation process for ultra-low sulfur diesel production, 119
- Reactor modeling
Modeling the synthesis section of an industrial urea plant, 249
- Regeneration
p-Nitrophenol abatement by the combination of electrocatalysis and activated carbon, 83
Batch and column removal of copper from aqueous solution using a brown marine alga *Turbinaria ornata*, 177
- Residence time
Gas flow behavior and residence time distribution in a rough-cut cyclone, 43
- Reversed flow
Gas flow behavior and residence time distribution in a rough-cut cyclone, 43
- Rough-cut cyclone
Gas flow behavior and residence time distribution in a rough-cut cyclone, 43
- SCR of NO_x with CH₄
Zeolite washcoating onto cordierite honeycomb reactors for environmental applications, 25
- SCWG
Supercritical water gasification of biomass: thermodynamic analysis with direct Gibbs free energy minimization, 261
- Sewage sludge
Solubilisation of waste-activated sludge by ultrasonic treatment, 163
- Simulation
Gas flow behavior and residence time distribution in a rough-cut cyclone, 43
Technical and economical evaluation of a zeolite membrane based heptane hydroisomerization process, 187
- SOFC reactor
Oxygen transport through LSM/YSZ/LaAlO system for use of fuel cell type reactor, 35
- Solid oxide fuel cell
Oxygen transport through LSM/YSZ/LaAlO system for use of fuel cell type reactor, 35
- Sorption
Batch kinetic study of sorption of methylene blue by perlite, 73
- State estimation
Use of state estimation for inferential nonlinear MPC: a case study, 13
- Steam reforming
Use of non-thermal plasma for hydrocarbon reforming, 59
On the use of a non-thermal plasma reactor for ethanol steam reforming, 241
- Sulphur balance
Sulphur oxides emission during fluidised-bed catalytic cracking, 145
- Sulphur oxides
Sulphur oxides emission during fluidised-bed catalytic cracking, 145
- Synergetic effect
p-Nitrophenol abatement by the combination of electrocatalysis and activated carbon, 83
- Thermodynamic analysis
Supercritical water gasification of biomass: thermodynamic analysis with direct Gibbs free energy minimization, 261
- Thermogravimetric analysis
Activated carbons from lignin: kinetic modeling of the pyrolysis of Kraft lignin activated with phosphoric acid, 1
- Tungstic acid
Kinetics of heterogeneous oxidation of benzyl alcohol with hydrogen peroxide, 111
- Turbinaria ornata*
Batch and column removal of copper from aqueous solution using a brown marine alga *Turbinaria ornata*, 177
- Ultra-low sulfur diesel
Conceptual design of a reactive distillation process for ultra-low sulfur diesel production, 119
- Ultrasound
Ultrasonic desorption of *p*-chlorophenol from granular activated carbon, 153
Solubilisation of waste-activated sludge by ultrasonic treatment, 163
- Upflow anaerobic sludge blanket
Dynamic modeling of biogas production in an UASB reactor for potato processing wastewater treatment, 53
- Urea
Modeling the synthesis section of an industrial urea plant, 249
- Volatile organic compounds (VOCs)
Simultaneous removal of ethyl acetate and ethanol in air streams using a gas–liquid–solid three-phase flow airlift loop bioreactor, 171
- Wastewater treatment
Production of a complex coagulant from fly ash, 269
- Water treatment
Production of a complex coagulant from fly ash, 269
- Weighted Sum of Squared Objective Functions
A hybrid numerical approach for multi-responses optimization of process parameters and catalyst compositions in CO₂ OCM process over CaO-MnO/CeO₂ catalyst, 213
- Zeolite membranes
Technical and economical evaluation of a zeolite membrane based heptane hydroisomerization process, 187
- Zeolite washcoating
Zeolite washcoating onto cordierite honeycomb reactors for environmental applications, 25