

Subject Index of Volume 103

- Acetaldehyde
Removal of acetaldehyde in air using a wetted-wall corona discharge reactor, 115
- Acid dyes
Intraparticle diffusion in single and multicomponent acid dye adsorption from wastewater onto carbon, 133
- Activated carbon
Intraparticle diffusion in single and multicomponent acid dye adsorption from wastewater onto carbon, 133
- Adsorption
Intraparticle diffusion in single and multicomponent acid dye adsorption from wastewater onto carbon, 133
- Alum sludge
Influence of structural properties of alum and ferric flocs on sludge dewaterability, 123
- Benzonitrile
Reaction kinetics of the liquid-phase hydrogenation of benzonitrile to benzylamine using Raney nickel catalyst, 13
- Benzylamine
Reaction kinetics of the liquid-phase hydrogenation of benzonitrile to benzylamine using Raney nickel catalyst, 13
- Bound water
Influence of structural properties of alum and ferric flocs on sludge dewaterability, 123
- Capillary suction time
Influence of structural properties of alum and ferric flocs on sludge dewaterability, 123
- Catalyst
Catalytic wet oxidation of phenol in a trickle bed reactor, 51
- Catalyst deactivation
Optimal dynamical processes in tubular reactor with deactivation of multi-run moving catalyst, 45
- Catalytic wet oxidation
Evaluation of a monolith reactor for the catalytic wet oxidation of cellulose, 77
- Cellulose
Evaluation of a monolith reactor for the catalytic wet oxidation of cellulose, 77
- Cinnamaldehyde
Deactivation in liquid-phase hydrogenation of cinnamaldehyde over aluminosilicate-supported ruthenium and platinum catalysts, 35
- Cinnamylalcohol
Deactivation in liquid-phase hydrogenation of cinnamaldehyde over aluminosilicate-supported ruthenium and platinum catalysts, 35
- Conceptual design
The conceptual design of a PEMFC system via simulation, 99
- Copper-ZSM-5
Process optimization studies of structured Cu-ZSM-5 zeolite catalyst for the removal of NO using design of experiments (DOE), 147
- Corona discharge
Removal of acetaldehyde in air using a wetted-wall corona discharge reactor, 115
- Cyclohexane
Modeling of an FAU-type zeolite membrane reactor for the catalytic dehydrogenation of cyclohexane, 69
- Deactivation
Deactivation in liquid-phase hydrogenation of cinnamaldehyde over aluminosilicate-supported ruthenium and platinum catalysts, 35
- Dehydrogenation
Modeling of an FAU-type zeolite membrane reactor for the catalytic dehydrogenation of cyclohexane, 69
- Design of experiments (DOE)
Process optimization studies of structured Cu-ZSM-5 zeolite catalyst for the removal of NO using design of experiments (DOE), 147
- Dewatering
Influence of structural properties of alum and ferric flocs on sludge dewaterability, 123
- Diffusion modelling
Intraparticle diffusion in single and multicomponent acid dye adsorption from wastewater onto carbon, 133
- Dimethyl carbonate
Kinetics studies for the synthesis of dimethyl carbonate from urea and methanol, 21
- Discrete hamiltonians
Optimal dynamical processes in tubular reactor with deactivation of multi-run moving catalyst, 45
- FAU-type zeolite
Modeling of an FAU-type zeolite membrane reactor for the catalytic dehydrogenation of cyclohexane, 69
- Ferric sludge
Influence of structural properties of alum and ferric flocs on sludge dewaterability, 123
- Floc structure
Influence of structural properties of alum and ferric flocs on sludge dewaterability, 123
- Fluid-particle CFD model
Hydrodynamic scaling of a rectangular spouted vessel with a draft duct, 29
- Fractal dimension
Influence of structural properties of alum and ferric flocs on sludge dewaterability, 123
- Fuel cell
The conceptual design of a PEMFC system via simulation, 99
- Fuel cell stack
The conceptual design of a PEMFC system via simulation, 99
- Fuel processor
The conceptual design of a PEMFC system via simulation, 99
- Gas induction
Power consumption and onset speed for gas induction in a gas-induced contactor, 1

- Gas purification
Removal of acetaldehyde in air using a wetted-wall corona discharge reactor, 115
- Gas-induced contactor
Power consumption and onset speed for gas induction in a gas-induced contactor, 1
- Hydrodynamics
Power consumption and onset speed for gas induction in a gas-induced contactor, 1
- Hydrogen purifier unit
The conceptual design of a PEMFC system via simulation, 99
- Hydrogenation
Reaction kinetics of the liquid-phase hydrogenation of benzonitrile to benzylamine using Raney nickel catalyst, 13
Kinetics of propylene hydrogenation on nanostructured palladium clusters, 89
- Interfacial saturation
High enzyme concentration model for the kinetics of hydrolysis of oils by lipase, 7
- Kinetic model
High enzyme concentration model for the kinetics of hydrolysis of oils by lipase, 7
- Kinetics
Kinetics studies for the synthesis of dimethyl carbonate from urea and methanol, 21
Propane oxidative dehydrogenation on Cs-doped Cr-Mo-Al-O catalyst: kinetics and mechanism, 59
Kinetics of propylene hydrogenation on nanostructured palladium clusters, 89
- Lipase
High enzyme concentration model for the kinetics of hydrolysis of oils by lipase, 7
- Mechanism
Propane oxidative dehydrogenation on Cs-doped Cr-Mo-Al-O catalyst: kinetics and mechanism, 59
- Membrane reactor
Modeling of an FAU-type zeolite membrane reactor for the catalytic dehydrogenation of cyclohexane, 69
- Methanol
Kinetics studies for the synthesis of dimethyl carbonate from urea and methanol, 21
- Mixing
Power consumption and onset speed for gas induction in a gas-induced contactor, 1
- Modeling
Modeling of an FAU-type zeolite membrane reactor for the catalytic dehydrogenation of cyclohexane, 69
- Modelling
Catalytic wet oxidation of phenol in a trickle bed reactor, 51
- Monolith reactor
Evaluation of a monolith reactor for the catalytic wet oxidation of cellulose, 77
- Multicomponent
Intraparticle diffusion in single and multicomponent acid dye adsorption from wastewater onto carbon, 133
- Multi-run reactors
Optimal dynamical processes in tubular reactor with deactivation of multi-run moving catalyst, 45
- Nanoclusters
Kinetics of propylene hydrogenation on nanostructured palladium clusters, 89
- NO removal
Process optimization studies of structured Cu-ZSM-5 zeolite catalyst for the removal of NO using design of experiments (DOE), 147
- Oil hydrolysis
High enzyme concentration model for the kinetics of hydrolysis of oils by lipase, 7
- Optimization
Optimal dynamical processes in tubular reactor with deactivation of multi-run moving catalyst, 45
Process optimization studies of structured Cu-ZSM-5 zeolite catalyst for the removal of NO using design of experiments (DOE), 147
- Organotin
Kinetics studies for the synthesis of dimethyl carbonate from urea and methanol, 21
- Oxidation
Catalytic wet oxidation of phenol in a trickle bed reactor, 51
- Oxidative dehydrogenation
Propane oxidative dehydrogenation on Cs-doped Cr-Mo-Al-O catalyst: kinetics and mechanism, 59
- Palladium
Kinetics of propylene hydrogenation on nanostructured palladium clusters, 89
- Palm oil
High enzyme concentration model for the kinetics of hydrolysis of oils by lipase, 7
- Phenol
Catalytic wet oxidation of phenol in a trickle bed reactor, 51
- Power consumption
Power consumption and onset speed for gas induction in a gas-induced contactor, 1
- Propane
Propane oxidative dehydrogenation on Cs-doped Cr-Mo-Al-O catalyst: kinetics and mechanism, 59
- Propene
Propane oxidative dehydrogenation on Cs-doped Cr-Mo-Al-O catalyst: kinetics and mechanism, 59
- Propylene
Kinetics of propylene hydrogenation on nanostructured palladium clusters, 89
- Radicals
Removal of acetaldehyde in air using a wetted-wall corona discharge reactor, 115
- Raney nickel
Reaction kinetics of the liquid-phase hydrogenation of benzonitrile to benzylamine using Raney nickel catalyst, 13
- Reaction engineering
Kinetics of propylene hydrogenation on nanostructured palladium clusters, 89
- Reactor/contactor similarity scaling
Hydrodynamic scaling of a rectangular spouted vessel with a draft duct, 29
- Selective catalytic reduction (SCR)
Process optimization studies of structured Cu-ZSM-5 zeolite catalyst for the removal of NO using design of experiments (DOE), 147
- Simulation
Modeling of an FAU-type zeolite membrane reactor for the catalytic dehydrogenation of cyclohexane, 69
The conceptual design of a PEMFC system via simulation, 99
- Spouted bed with draft duct
Hydrodynamic scaling of a rectangular spouted vessel with a draft duct, 29

Structured catalyst

Process optimization studies of structured Cu–ZSM-5 zeolite catalyst for the removal of NO using design of experiments (DOE), 147

Sunflower oil

High enzyme concentration model for the kinetics of hydrolysis of oils by lipase, 7

Trickle bed reactor

Catalytic wet oxidation of phenol in a trickle bed reactor, 51

Urea

Kinetics studies for the synthesis of dimethyl carbonate from urea and methanol, 21

Water purification

Removal of acetaldehyde in air using a wetted-wall corona discharge reactor, 115

Zeolite catalyst

Deactivation in liquid-phase hydrogenation of cinnamaldehyde over aluminosilicate-supported ruthenium and platinum catalysts, 35