

## Subject Index of Volume 126

- Activated carbon  
Steam activation of tyre pyrolytic carbon black: Kinetic study in a thermobalance, 79
- Agglomeration  
Hydroisomerization of a refinery naphtha stream over platinum zeolite-based catalysts, 13  
A comparison of collision kernels for sprays from one and two-nozzle atomisation systems, 131
- Batch bioreactor  
Robust state estimation for repetitive operating mode process: Application to sequencing batch reactors, 155
- Bioreactor  
The effect of HRT on the decolourisation of the Grey Lanaset G textile dye by *Trametes versicolor*, 163
- Biosorption  
Response surface methodological approach for optimizing removal of Cr(VI) from aqueous solution using immobilized cyanobacterium, 147
- Bouncing  
The effect of electrolytes on the critical velocity for bubble coalescence, 23
- Bubble columns  
The effect of electrolytes on the critical velocity for bubble coalescence, 23
- Bubbles  
The effect of electrolytes on the critical velocity for bubble coalescence, 23
- Catalysis  
Hydroisomerization of a refinery naphtha stream over platinum zeolite-based catalysts, 13
- Catalytic membrane reactors  
Preparation and characterization of Ce-Zr and Ce-Mn based oxides for *n*-hexane combustion: Application to catalytic membrane reactors, 119
- Ce-Mn mixed oxides  
Preparation and characterization of Ce-Zr and Ce-Mn based oxides for *n*-hexane combustion: Application to catalytic membrane reactors, 119
- Cerium(III) oxidation  
Mediated electrochemical oxidation process: Electro-oxidation of cerium(III) to cerium(IV) in nitric acid medium and a study on phenol degradation by cerium(IV) oxidant, 51
- Cerium(IV) mediator  
Mediated electrochemical oxidation process: Electro-oxidation of cerium(III) to cerium(IV) in nitric acid medium and a study on phenol degradation by cerium(IV) oxidant, 51
- Ce-Zr mixed oxides  
Preparation and characterization of Ce-Zr and Ce-Mn based oxides for *n*-hexane combustion: Application to catalytic membrane reactors, 119
- CFD  
Hydrodynamic characterisation and modelling of anode flow fields of Direct Methanol Fuel Cells, 87
- Chemical equilibrium  
Kinetic study for esterification of lactic acid with ethanol and hydrolysis of ethyl lactate using an ion-exchange resin catalyst, 111
- 4-Chlorophenol  
Wet oxidation of 4-chlorophenol. Kinetic study, 59
- Chromium  
Response surface methodological approach for optimizing removal of Cr(VI) from aqueous solution using immobilized cyanobacterium, 147
- CO<sub>2</sub>  
Mediated electrochemical oxidation process: Electro-oxidation of cerium(III) to cerium(IV) in nitric acid medium and a study on phenol degradation by cerium(IV) oxidant, 51
- Coalescence  
The effect of electrolytes on the critical velocity for bubble coalescence, 23  
A comparison of collision kernels for sprays from one and two-nozzle atomisation systems, 131
- Collision kernels  
A comparison of collision kernels for sprays from one and two-nozzle atomisation systems, 131
- Continuous treatment  
The effect of HRT on the decolourisation of the Grey Lanaset G textile dye by *Trametes versicolor*, 163
- Copper deposition  
Mass transfer characteristics of reciprocating screen stack electrochemical reactor in relation to heavy metal removal from dilute solutions, 67
- Desulfurisation  
Modelling of trona based spray dry scrubbing of SO<sub>2</sub>, 45
- Direct-contact evaporators  
The effect of electrolytes on the critical velocity for bubble coalescence, 23
- DMFC  
Hydrodynamic characterisation and modelling of anode flow fields of Direct Methanol Fuel Cells, 87
- Electrochemical reactor  
Mass transfer characteristics of reciprocating screen stack electrochemical reactor in relation to heavy metal removal from dilute solutions, 67  
Heavy metals recovery from industrial wastewater using Taguchi method, 139
- Electrolytes  
The effect of electrolytes on the critical velocity for bubble coalescence, 23
- Esterification  
Kinetic study for esterification of lactic acid with ethanol and hydrolysis of ethyl lactate using an ion-exchange resin catalyst, 111
- Ethyl lactate  
Kinetic study for esterification of lactic acid with ethanol and hydrolysis of ethyl lactate using an ion-exchange resin catalyst, 111
- Ethyl pyruvate  
Ethyl pyruvate hydrogenation under microwave irradiation, 103
- Flow fields  
Hydrodynamic characterisation and modelling of anode flow fields of Direct Methanol Fuel Cells, 87
- Furfuryl alcohol  
Experimental study for liquid phase selective hydrogenation of furfuryl alcohol to tetrahydrofurfuryl alcohol on supported Ni catalysts, 5

- G–L–S reaction  
Experimental study for liquid phase selective hydrogenation of furfuryl alcohol to tetrahydrofurfuryl alcohol on supported Ni catalysts, 5
- Gravity separation  
Analytical solution of gravity separation model (GSM): Separation of water droplets from vapor in submerged combustion evaporator, 171
- Heavy metals recovery  
Heavy metals recovery from industrial wastewater using Taguchi method, 139
- Heterogeneous catalyst  
Ethyl pyruvate hydrogenation under microwave irradiation, 103
- Hexane combustion  
Preparation and characterization of Ce-Zr and Ce-Mn based oxides for *n*-hexane combustion: Application to catalytic membrane reactors, 119
- Hybrid observer  
Robust state estimation for repetitive operating mode process: Application to sequencing batch reactors, 155
- Hydrogenation  
Ethyl pyruvate hydrogenation under microwave irradiation, 103
- Hydroisomerization  
Hydroisomerization of a refinery naphtha stream over platinum zeolite-based catalysts, 13
- Hydrolysis  
Kinetic study for esterification of lactic acid with ethanol and hydrolysis of ethyl lactate using an ion-exchange resin catalyst, 111
- Ideal reactor network  
Hydrodynamic characterisation and modelling of anode flow fields of Direct Methanol Fuel Cells, 87
- Immobilization  
Response surface methodological approach for optimizing removal of Cr (VI) from aqueous solution using immobilized cyanobacterium, 147
- Isotherms  
Response surface methodological approach for optimizing removal of Cr (VI) from aqueous solution using immobilized cyanobacterium, 147
- Kinetic modelling  
Steam activation of tyre pyrolytic carbon black: Kinetic study in a thermobalance, 79
- Kinetics  
Wet oxidation of 4-chlorophenol. Kinetic study, 59
- Laccase production  
The effect of HRT on the decolourisation of the Grey Lanaset G textile dye by *Trametes versicolor*, 163
- Lactic acid  
Kinetic study for esterification of lactic acid with ethanol and hydrolysis of ethyl lactate using an ion-exchange resin catalyst, 111
- Langmuir isotherm  
Sorption dynamics and isotherm studies of methylene blue uptake on to palm kernel fibre, 35
- Lyngbya putealis*  
Response surface methodological approach for optimizing removal of Cr (VI) from aqueous solution using immobilized cyanobacterium, 147
- Mass transfer  
Mass transfer characteristics of reciprocating screen stack electrochemical reactor in relation to heavy metal removal from dilute solutions, 67
- Mathematical modelling  
Modelling of trona based spray dry scrubbing of SO<sub>2</sub>, 45
- Mediated electrochemical oxidation (MEO)  
Mediated electrochemical oxidation process: Electro-oxidation of cerium(III) to cerium(IV) in nitric acid medium and a study on phenol degradation by cerium(IV) oxidant, 51
- Methylene blue  
Sorption dynamics and isotherm studies of methylene blue uptake on to palm kernel fibre, 35
- Microwave irradiation  
Ethyl pyruvate hydrogenation under microwave irradiation, 103
- Naphtha  
Hydroisomerization of a refinery naphtha stream over platinum zeolite-based catalysts, 13
- Nitric acid  
Mediated electrochemical oxidation process: Electro-oxidation of cerium(III) to cerium(IV) in nitric acid medium and a study on phenol degradation by cerium(IV) oxidant, 51
- Palm kernel fibre  
Sorption dynamics and isotherm studies of methylene blue uptake on to palm kernel fibre, 35
- Petroleum  
Hydroisomerization of a refinery naphtha stream over platinum zeolite-based catalysts, 13
- Phenol  
Mediated electrochemical oxidation process: Electro-oxidation of cerium(III) to cerium(IV) in nitric acid medium and a study on phenol degradation by cerium(IV) oxidant, 51
- Pseudo-second-order  
Sorption dynamics and isotherm studies of methylene blue uptake on to palm kernel fibre, 35
- Pyrolysis  
Steam activation of tyre pyrolytic carbon black: Kinetic study in a thermobalance, 79
- Random pore model  
Steam activation of tyre pyrolytic carbon black: Kinetic study in a thermobalance, 79
- Redox potential  
Mediated electrochemical oxidation process: Electro-oxidation of cerium(III) to cerium(IV) in nitric acid medium and a study on phenol degradation by cerium(IV) oxidant, 51
- Redox properties  
Preparation and characterization of Ce-Zr and Ce-Mn based oxides for *n*-hexane combustion: Application to catalytic membrane reactors, 119
- Reduced model  
Hydrodynamic characterisation and modelling of anode flow fields of Direct Methanol Fuel Cells, 87
- Repetitive process  
Robust state estimation for repetitive operating mode process: Application to sequencing batch reactors, 155
- Residence time distribution  
Hydrodynamic characterisation and modelling of anode flow fields of Direct Methanol Fuel Cells, 87
- Separation efficiency  
Analytical solution of gravity separation model (GSM): Separation of water droplets from vapor in submerged combustion evaporator, 171
- Solution temperature  
Sorption dynamics and isotherm studies of methylene blue uptake on to palm kernel fibre, 35
- Spray dryer  
Modelling of trona based spray dry scrubbing of SO<sub>2</sub>, 45
- Sprays  
A comparison of collision kernels for sprays from one and two-nozzle atomisation systems, 131
- State estimation  
Robust state estimation for repetitive operating mode process: Application to sequencing batch reactors, 155
- Steam activation  
Steam activation of tyre pyrolytic carbon black: Kinetic study in a thermobalance, 79

- Submerged combustion evaporator  
Analytical solution of gravity separation model (GSM): Separation of water droplets from vapor in submerged combustion evaporator, 171
- Supported Ni catalyst  
Experimental study for liquid phase selective hydrogenation of furfuryl alcohol to tetrahydrofurfuryl alcohol on supported Ni catalysts, 5
- Taguchi method  
Heavy metals recovery from industrial wastewater using Taguchi method, 139
- Tetrahydrofurfuryl alcohol  
Experimental study for liquid phase selective hydrogenation of furfuryl alcohol to tetrahydrofurfuryl alcohol on supported Ni catalysts, 5
- TOC  
Mediated electrochemical oxidation process: Electro-oxidation of cerium(III) to cerium(IV) in nitric acid medium and a study on phenol degradation by cerium(IV) oxidant, 51
- Trona  
Modelling of trona based spray dry scrubbing of SO<sub>2</sub>, 45
- Two-phase flow  
Modelling of trona based spray dry scrubbing of SO<sub>2</sub>, 45
- Tyre  
Steam activation of tyre pyrolytic carbon black: Kinetic study in a thermobalance, 79
- Vibration  
Mass transfer characteristics of reciprocating screen stack electrochemical reactor in relation to heavy metal removal from dilute solutions, 67
- Water pollution  
Mass transfer characteristics of reciprocating screen stack electrochemical reactor in relation to heavy metal removal from dilute solutions, 67
- Wet oxidation  
Wet oxidation of 4-chlorophenol. Kinetic study, 59
- White rot fungi  
The effect of HRT on the decolourisation of the Grey Lanaset G textile dye by *Trametes versicolor*, 163
- Zeolites  
Hydroisomerization of a refinery naphtha stream over platinum zeolite-based catalysts, 13