

## **SUBJECT CLASSIFICATION FOR BIORESOURCE TECHNOLOGY**

### **10.000 BIOCATALYSIS**

- 10.010 Enzyme
- 10.020 Kinetics
- 10.030 Media for biocatalysts
- 10.040 Microbial
- 10.050 Protein engineering

### **20.000 BIOLOGICAL WASTE TREATMENT**

- 20.010 Activated sludge
- 20.020 Aerobic digestion
- 20.030 Anaerobic digestion
- 20.040 Biodegradation of toxic compounds
- 20.050 Biofiltration
- 20.060 Biological nutrients removal
- 20.070 Bioremediation
- 20.080 Biosorption of heavy metals
- 20.090 Constructed wetlands for industrial effluents
- 20.100 Environmental bioengineering
- 20.110 Membrane technology
- 20.120 Phytoremediation of wastewaters
- 20.130 Biotreatment of food, dye and textile industry effluents
- 20.140 Solid waste management

### **30.000 BIOFUELS**

- 30.010 Biodiesel production
- 30.020 Bioethanol production
- 30.030 Biogas production
- 30.040 Biohydrogen production
- 30.050 Energy and Greenhouse gas balances of biofuels
- 30.060 Life cycle assessment of biofuels
- 30.070 Microbial fuel cells
- 30.080 Modelling

### **40.000 BIOMASS & FEEDSTOCK UTILIZATION**

- 40.010 Bioconversion of biomass: cellulose/lignocellulose
- 40.020 Composting (production)
- 40.030 Enzymatic pulping
- 40.040 Municipal wastes
- 40.050 Vermicomposting (production)

### **50.000 BIOPROCESSES**

- 50.010 Bioleaching
- 50.020 Bioseparation
- 50.030 Design and operation of bioreactors
- 50.040 Heat & mass transfer effects
- 50.050 Kinetics
- 50.060 Modeling

- 50.070 Optimization of bioprocess
- 50.080 Solid-state fermentation
- 50.090 Submerged fermentation

**60.000 MICROBIAL PRODUCTS**

- 60.010 Biofertilizers
- 60.020 Biopesticides
- 60.030 Biopolymers
- 60.040 Biosurfactants
- 60.050 Enzymes & other proteins
- 60.060 Mushrooms
- 60.070 Organic acids
- 60.080 Other metabolites and products
- 60.090 Secondary metabolites

**70.000 PHYSICO-CHEMICAL & THERMO-CHEMICAL PROCESSES FOR BIOMASS**

- 70.010 Catalysis
- 70.020 Combustion
- 70.030 Gasification
- 70.040 Other thermo-chemical processes
- 70.050 Pretreatment for further processing
- 70.060 Pulping
- 70.070 Pyrolysis
- 70.080 Steam explosion