



Biochemical Engineering Journal
Classifications for Authors and Reviewers

1) **Bioreactor systems**

Sub-classifications: submerged, solid-state, shake-flask, stirred-tank, airlift, immobilised cell, biofilm, membrane, mixing, mass transfer, heat transfer, hydrodynamics, rheology, optimization

2) **Biocatalysis**

Sub-classifications: enzyme, microbial, immobilised, kinetics, biocatalyst preparation, protein engineering

3) **Bioseparations**

Sub-classifications: affinity, biosorption, membrane, extraction, aqueous two phase, chromatography, adsorption, protein refolding/renaturation, precipitation/crystallization, foam separation, drying

4) **Cell therapies & tissue engineering**

Sub-classifications: Bioartificial organs, stem cells

5) **Bioresources & biorefinery engineering**

Sub-classifications: biomass, lignocellulose degradation, biofuels, biogas, platform chemicals, biohydrogen

6) **Systems biology and engineering**

Sub-classifications: proteomics, metabolomics, bioinformatics, in silico biology, complex systems, metabolic flux analysis

7) **Metabolic engineering and protein engineering**

Sub-classifications: No sub-classifications.

8) Control systems & optimization

Sub-classifications: neural networks, on-line fed-batch, metabolic control

9) Biosensors & biodevices

Sub-classifications: fuel cells

10) Environmental bioengineering

Sub-classifications: bioremediation, waste treatment, anaerobic digestion, aerobic digestion, activated sludge, deodouration, biosorption, metabolic engineering, recombinant technology

11) Biomaterials engineering

Sub-classifications: controlled release, membranes, biopolymers, adsorbents

12) Animal and insect cell culture engineering

Sub-classifications: recombinant protein production and quality, virus production, viral vectors, cell engineering

13) Plant cell and tissue culture engineering

Sub-classifications: secondary metabolites, recombinant proteins, transgenic plants, phytoremediation

14) Biosorption

Sub-classifications: Heavy metals, colorants