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| MORPHOLOGICAL CHANGES IN THE SUBMERGED CULTURES OF PENICILLIUM CHRYSOGENUM: ELICITOR EFFECTS R. Radman, C. Bucke and T. Keshavarz | 1665 |
| CULTIVATION OF MICROALGA IN PHOTOBIOREACTORS ILLUMINATED WITH LEDS S. Katoh, L. Abdolmajid and T. Katsuda | 1671 |
| GROWTH AND NUTRIENT UPTAKE OF MICROALGAE (NANNOCHLOROPSIS SP.) IN A TUBULAR PHOTOBIOREACTOR C. Cattaneo, M. Zolezzi, P. Rovatti, M. Fabiano, P. Povero and M. Rovatti | 1677 |
| EFFECT OF AERATION, AGITATION AND ALGINATE CONCENTRATION ON THE OVERALL VOLUMETRIC OXYGEN TRANSFER COEFFICIENT IN A BENCH-TOP STIRRED FERMENTER E. Parente, P. Piraino, M. Fidaleo and M. Moresi | 1683 |
| RHEOLOGICAL CHARACTERIZATION OF PROTEINS FERMENTATION KINETICS S. Cavella, V. Ranieri and P. Masi | 1689 |
| PRODUCTION OF β -GLUCAN FROM BOTRYOSPHERA RHODINA USING DISPERSED MEDIA OR DIFFERENT AGITATORS S. Crognale, M. Bruno, M. Moresi and M. Petruccioli | 1695 |

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| BIOFILTRATION OF HEXANE-VAPOR: FLUODYNAMIC AND KINETIC ASPECTS G. Spigno, C. Pagella, M.D. Fumi and D.M. De Faveri | 1701 |
| EXTRACELLULAR POLYSACCHARIDES PRODUCED BY BACTERIA ISOLATED FROM CHIPBOARD PRODUCTION PROCESSES D.C. Ozturk, A.A. Denizci, D. Kazan and A. Erarslan | 1707 |
| METABOLIC THERMODYNAMIC FUNCTIONS OF CELL CYCLE A. Kummer, R. Ocone, V. Betto and T. Mackley | 1713 |
| CFD SIMULATION OF THE ENGINEERING FLOW ENVIRONMENT IN SHAKEN MICRO-WELL PLATES H. Zhang, S.R. Lamping, B. Allen and P. Ayazi Shamlou | 1719 |
| REMEDIATION OF OMW IN AN INTERNAL LOOP AIRLIFT BIOREACTOR USING PLEUROTUS OSTREATUS G. Olivieri, A. Marzocchella, P. Salatino, P. Giardina, G. Cennamo and G. Sannia | 1725 |
| LANGMUIR AND FREUNDLICH ISOTHERMS TO DESCRIBING COPPER (II) ADSORPTION ON FUNGAL DEAD BIOMASSES M.T. Veit, C.R.G. Tavares and S.M. Gomes Da Costa | 1731 |
| EXPIRED DRUGS TREATMENT BY PHYSIOCHEMICAL PROCESSES FOR THEIR SAFE DISPOSAL G. Encarnacion Aguilar and G. Fernández Villagomez | 1737 |
| CHEMICAL AND MORPHOLOGICAL CHARACTERIZATION OF ALGINATE/CHITOSAN SYSTEMS AND EVALUATION OF DIFFUSION COEFFICIENT FOR CONTROLLED RELEASE OF OXYTETRACYCLINE M.C. Pinto Cruz, L.H. Innocentini-Mei, S.P. Ravagnani, S.P. Campana and G. Cardenas Treviño | 1743 |
| STUDY OF THE HEAT AND MASS TRANSFER IN PROCESS OF DRYING WASTED SHRIMP G.C. Honorato, E.L. Oliveira, M. Magalhaes, M.D.F. Medeiros, O.C.P. Gaspareto and E. Gertrudes | 1749 |
| STUDY OF CONSERVATION OF BANANA NANICA (MUSA CAVENDISHII, L.) THROUGH OSMOTIC DEHYDRATION AND DRYING IN CONVENTIONAL DRYER O.C.P. Gaspareto, P.D. Silva, E. Gertrudes, E.L. Oliveira, M. Magalhaes, M.D.F. Medeiros and G.C. Honorato | 1755 |
| BIODEGRADATION OF XENOBIOTICS IN SEQUENCING BATCH REACTORS: THE CASE STUDY OF 4-NITROPHENOL M.C. Annesini and M.C. Tomei | 1761 |
| MASS TRANSPORT IN BRAIN TISSUE DURING INTERSTITIAL DRUG INFUSION M.C. Annesini, L. Denaro, G. Maira, A. Mangiola and L. Turchetti | 1767 |
| PHYSICAL AND CHEMICAL CHARACTERIZATION OF HYDROPHOBIC SILICA GELS AND IMMOBILIZED LIPASE DERIVATIVES C. Soares, O. Santos, H. De Castro, F. De Moraes and G.M. Zanin | 1773 |
| MOLLUSCS SHELF-LIFE EXTENSION D. Albanese, L. Cinquanta, M. Del Genio and M. Di Matteo | 1779 |
| BY-PRODUCTS OF "RADICCHIO ROSSO DI CHIOGGIA" (CICHORIUM INTYBUS VAR. SILVESTRE) AS A SOURCE OF FUNCTIONAL COMPOUNDS P. Sambo, A. Lante, G. Gianquinto and P. Spettoli | 1785 |

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| DECOLORIZATION OF A MIXTURE OF REACTIVE DYES BY A STRAIN OF THE WHITE-ROT FUNGUS PLEUROTUS PULMONARIUS A.Z. Santos, C.R.G. Tavares, S.M. Gomes Da Costa, T. A. Guedes and J.M. Candido Neto | 1791 |
| STUDY AND DEVELOPMENT OF LDPE/STARCH COMPOSITES PARTIALLY DEGRADABLE IN THE ENVIRONMENT G.S.G. Almeida, L.H. Innocentini-Mei, A.M. Agnelli, R.C. De Jesus and D.S. Rosa | 1797 |
| RE-USE OF STILLAGE IN THE ALCOHOL PRODUCTION M. Phisalaphong and J. Kingkaew | 1803 |
| MODELLING AND SIMULATION OF A FEED BATCH REACTOR FOR DEXTRAN ENZYMATIC SYNTHESIS WITH CONTROLLED MOLECULAR WEIGHT S. Rodrigues, F.A.N. Fernandes, L. Lona and T. Franco | 1809 |
| BIOSORPTION OF BINARY METAL SYSTEMS ONTO AN OLIVE POMACE: EQUILIBRIUM MODELLING F. Pagnanelli, S. Mainelli, M. Centofanti, F. Veglio' and L. Toro | 1815 |
| USE OF CATIONIC ADDITIVES TO ENHANCE α -CHYMOTRYPSIN ACTIVITY IN THE HYDROLYSIS OF N-GLUTARYL-L-PHENYLALANINE: KINETIC AND MODELLING STUDY P. Viparelli, F. Alfani, A. Gallifuoco and M. Cantarella | 1821 |
| PURIFICATION OF STEVIA REBAUDIANA EXTRACT (BERT). BERTONI L.M. Fernandes, S. Costa, N.C. Pereira, E. Mendes and O. Motta Lima | 1827 |
| MAINTENANCE OF BIOLOGICAL FLUID FILTERS USING STRATEGIES BASED ON CONTROL TECHNIQUES G.L. Amicucci and G. Platania | 1833 |
| RECOVERY OF AMILOLITICS ENZYMES OF CORN MALT (ZEA MAYS) IN AQUEOUS TWO-PHASE SYSTEM PEG 6000/CACL ₂ G. Ferreira, A. Evangelista, J.C. Santana, E. Jordao and R. Souza | 1839 |
| SENSITIVITY ANALYSIS OF THE FED-BATCH ANIMAL CELL BIOREACTOR I.D. Ofiteru, V. Lavric and A. Woinaroschy | 1845 |
| PURIFICATION OF THE AQUEOUS EXTRACT OF STEVIA REBAUDIANA (BERT.) BERTONI THROUGH DECANTATION BY POLYMERS E. Bunhak, E. Mendes, N.C. Pereira and S. Costa | 1851 |