**Publikációk, Szakács György (=Scientific papers, George Szakacs)**

**h-index, Google Scholar: 51 (July, 2022)**

**h-index, Publons: 43 (July, 2022)**

**1. Reshmy R, Eapen Philip, Ranjna Sirohi, Ayon Tarafdar, Arun K.B., Aravind Madhavan, Parameswaran Binod, Mukesh Kumar Awasthi, Sunita Varjani, George Szakacs, Raveendran Sindhu: Nanobiocatalyststs: Advancements and applications in enzyme technology. Bioresource Technology 337: 125491 (2021)**

**2. Aravind Madhavan, Arun K.B., Raveendran Sindhu, Jayaram Krishnamoorthy, Reshmy R., Ranja Sirohi, Arivalagan Pugazhendi, Mukesh Kumar Awasthi, George Szakacs, Parameswaran Binod: Customized yeast cell factories for biopharmaceuticals: from cell engineering to process scale up. Microbial Cell Factories 20: 124 (2021)**

**3. Swilaiman, S.S.,O'Gorman, C.M , Du, W., Sugui, J.A., Del Buono, J., Brock, M., Kwon-Chung, K.J., Szakacs G., Dyer, P.S.: Global sexual fertility in the opportunistic pathogen Aspergillus fumigatus and identification of new supermater strains. Journal of Fungi 2020, 6, 258; doi: 10.3390/jof6040258**

**4. Molnár, Z., Bódai, V., Szakacs, G., Erdélyi, B., Fogarassy, Z., Sáfrán, G., Varga, T., Kónya, Z., Tóth-Szeles, E., Szűcs, R., Lagzi, I. Green synthesis of gold nanoparticles by thermophilic filamentous fungi. Scientific Reports 8: 3943, doi: 10.1038/s41598-018-22112-3 (2018)**

**5. Nagy, Á.G., Adányi, N., Szendrő, I., Szakacs, G., Bódai, V., Lagzi, I., Tóth-Szeles, E. Development of a quartz crystal microbalance with impedance measurement with bio-gold nanoparticles for enhanced sensitivity. International Journal of Food Engineering 4(2): 122-126 (2018)**

**6. Adányi, N., Nagy, Á.G., Takács, B., Szendrő, I., Szakacs, G., Szűcs, R., Tóth-Szeles, E., Lagzi, I., Weiser, D., Bódai, V., Sátorhelyi, P., Erdélyi, B. Sensitivity enhancement for mycotoxin determination by optical waveguide lightmode spectroscopy using gold nanoparticles of different size and origin. Food Chemistry 267: 10-14  (2018)**

**7. Weinberg, Z.G., Szakacs, G. Extraction of bioactive plant materials by simultaneous enzyme treatment and lactic acid fermentation – a mini-review. Israel Journal of Plant Sciences  65: 31-37  (2018)**

**8. Vágó, A., Szakacs, G., Sáfrán, G., Horvath, N., Pécz, B., Lagzi, I. (2016) One-step green synthesis of gold nanoparticles by mesophilic filamentous fungi. ChemPhysLett 645: 1-4**

**9. Gopalan, N., Nampoothiri, K.M., Szakacs, G., Binod, P., Pandey, A. (2016) Solid-state fermentation for the production of biomass valorizing feruloyl esterase . Biocatalysis and Agricultural Biotechnology 7: 7-13**

**10. Szabo, O.E., Csiszar, E., Toth, K., Szakacs, G., Koczka, B. (2015) Ultrasound-assisted**

**extraction and characterization of hydrolytic and oxidative enzymes produced by solid-state fermentation. Ultrasonics Sonochemistry 22: 249-256**

**11. Weinberg, Z.G., Szakacs, G., Chen, Y., Pinto, R., Bernstein, S., Konya, B., Sela, S. (2014) Inhibition of *Escherichia coli* in cultivated cattle manure. Journal of Animal Science 92: 2336-2341**

**12. Marjamaa, K., Toth, K., Bromann, P.A., Szakacs, G., Kruus, K. (2013) Novel *Penicillium* cellulases for total hydrolysis of lignocellulosics. Enzyme and Microbial Technology 52: 358-369**

**13. Toth, K., Van Gool, M.P., Samuels, G.J., Szakacs, G., Schols, H., Gruppen, H. (2013) Diversity in production of xylan degrading enzymes among species belonging to the *Trichoderma* section Longibrachiatum. BioEnergy Research 6: 631-643**

**14. Samuels, G.J., Ismaiel, A., Mulaw, T.B., Szakacs, G., Druzhinina, I.S.,, Kubicek, C.P., Jaklitsch, W.M. (2012) The Longibrachiatum clade of *Trichoderma*: a revision of with new species. Fungal Diversity 55: 77-108**

**15. Van Gool, M.P., Toth, K., Schols, H.A., Szakacs, G., Gruppen, H. (2012) Performance of hemicellulolytic enzymes in a wide range of fermentation supernatants depends on substrate choice. Bioresource Technology 114: 523-528**

**16. Van Gool, M.P., Vancso, I., Schols, H.A., Szakacs, G., Toth, K., Gruppen, H. (2011) Screening for distinct xylan degrading enzymes in complex shake flask fermentation supernatants . Bioresource Technology 102: 6039-6047**

**17. Szakacs, G., Tengerdy, R.P., Nagy, V. (2010) Cellulase. In: Enzyme Technology, Pandey, A., Webb, C., Soccol, C.R. and Larroche, C., eds., 2010, Springer Verlag New York Inc., ISBN 13: 9781441921246 and ISBN 10: 1441921249**

**18. Hellner, G., Toke, E.R., Nagy, V., Szakacs, G., Poppe, L. (2010) Integrated enzymatic production of specific structured lipids and phytosterol. Process Biochemistry 45: 1245-1250**

**19. Kovacs, K., Szakacs, G., Zacchi, G. (2009) Enzymatic hydrolysis and simultaneous saccharification and fermentation of steam-pretreated spruce using crude *Trichoderma reesei* and *Trichoderma atroviride* enzymes. Process Biochemistry 44: 1323-1329**

**20. Kovacs, K., Macrelli, S., Szakacs, G., Zacchi, G. (2009) Enzymatic hydrolysis of steam-pretreated lignocellulosic materials with *Trichoderma atroviride* enzymes produced in-house. Biotechnology for Biofuels 2: 14 (2009)**

**21. Shaligram, N.S., Singh, S.K., Singhal, R.S., Pandey, A., Szakacs, G. (2009) Compactin production studies using *Penicillium brevicompactum* under solid-state fermentation conditions. Appl.Biochem.Biotechnol. 159: 505-520**

**22. Banos, J.G., Tomasini, A., Szakacs, G., Barrios-Gonzalez, J. (2009) High lovastatin production by *Aspergillus terreus* in solid-state fermentation on polyurethane foam: An artificial inert support. J.Biosci.Bioeng. 108: 105-110**

**23. Shaligram, N.S., Singh, S.K., Singhal, R.S., Szakacs, G., Pandey, A. (2009) Effect of pre-cultural and nutritional parameters on compactin production by solid-state fermentation. J.Microbiol.Biotechnol. 19: 690-097**

**24. Shaligram, N.S., Bule, M., Bhambure, R., Singhal, R.S., Singh, S.K., Szakacs, G., Pandey, A. (2009) Biosynthesis of silver nanoparticles using aqueous extract from the compactin producing fungal strain. Process Biochemistry 44: 939-943**

**25. Kovacs, K., Szakacs, G., Zacchi, G. (2009) Comparative enzymatic hydrolysis of pretreated spruce by supernatants, whole fermentation broths and washed mycelia of *Trichoderma reesei* and *Trichoderma atroviride*. Bioresource Technology 100: 1350-1357**

**26. Rahulan, R., Nampoothiri, K.M., Szakacs, G., Nagy, V., Pandey, A. (2009) Statistical optimization of L-leucine amino peptidase production from *Streptomyces gedanensis* IFO 13427 under submerged fermentation using response surface methodology. Biochem.Eng.J. 43: 64-71**

**27. Szigeti, M., Toke, E.R., Turoczi, M.C., Nagy, V., Szakacs, G., Poppe, L. (2008) Lipase-catalyzed kinetic resolution of 4-aryl- and 4-heteroarylbut-3-en-2-ols. ARKIVOC Part 3 54-65**

**28. Csiszar, E., Szakacs, G., Koczka, B. (2008) Effect of hydrolytic and oxidative enzymes produced by solid-state fermentation on greige linen fabric. Biocatalysis and Biotransformation 26: 422-429**

**29. Tosa, M., Pilbak, S., Moldovan, P., Paizs, C., Szatzker, G., Szakacs, G., Novak, L., Irimie, F-D., Poppe, L. (2008) Lipase catalyzed kinetic resolution of racemic 1-heteroarylethanols – experimental and QM/MM study. Tetrahedron:Asymmetry 19(15): 1844-1852**

**30. Shaligram, N.S., Singh, S.K., Singhal, R.S., Szakacs, G., Pandey, A. (2008) Compactin production in solid-state fermentation using orthogonal array method by *Penicillium brevicompactum*. Biochem.Eng.J. 41(3): 295-300**

**31. Nagy, V., Szakacs, G. (2008) Production of transglutaminase by *Streptomyces* isolates in solid state fermentation. Letters in Applied Microbiology 47(2): 122-127**

**32. Kovacs, K., Megyeri, L., Szakacs, G., Kubicek, C.P., Galbe, M., Zacchi, G. (2008) New *Trichoderma* *atroviride* mutants with enhanced production of cellulase and beta-glucosidase. Enzyme and Microbial Technology, 43: 48-55**

**33. Nagy, V., Nampoothiri, K.M., Pandey, A., Rahulan, R., Szakacs, G. (2008) Production of L-Leucine aminopeptidase by selected *Streptomyces* isolates. Journal of Applied Microbiology 104(2): 380-387**

**34. Nagy, V., Seidl, V., Szakacs, G., Komon-Zelazowska, M., Kubicek, C.P., Druzhinina, I. (2007) Application of DNA barcodes for screening of industrially important fungi: the haplotype of *Trichoderma harzianum* sensu stricto indicates superior chitinase formation. Applied and Environmental Microbiology 73: 7048-7058**

**35. Binod, P., Sandhya, C., Suma, P., Szakacs, G., Pandey, A. (2007) Fungal biosynthesis of endochitinase and chitobiase in solid state fermentation and their application for the production of N-acetyl-D-glucosamine from colloidal chitin. Bioresource Technology 98: 2742-2748**

**36. Tőke, E., Nagy, V., Recseg, K., Szakacs, G., Poppe, L. (2007) Production and application of novel sterol esterases from *Aspergillus* strains by solid state fermentation. Journal of the American Oil Chemists’ Society (JAOCS) 84(10): 907-915**

**37. Csiszar, E., Szakacs, G., Koczka, B. (2007) Biopreparation of cotton fabric with enzymes produced by solid-state fermentation. Enzyme and Microbial Technology 40: 1765-1771**

**38. Szendefy, J., Szakacs, G., Christopher, L. (2006) Potential of solid-state fermentation enzymes of *Aspergillus oryzae* in biobleaching of paper pulp. Enzyme and Microbial Technology 39: 1354-1360**

**39. Rydholm, C., Szakacs, G., Lutzoni, F. (2006) Low genetic variation and no detectable population structure in *Aspergillus fumigatus* compared to closely related *Neosartorya* species. Eukaryotic Cell 5: 650-657**

**40. Nagy, V., Tőke, E., Keong, L.C., Szatzker, G., Ibrahim, D., Che Omar, I., Szakacs, G., Poppe, L. (2006) Production of novel, highly enantioselective fungal lipases by solid state fermentation. J.Mol.Catal.B: Enzymatic 39: 141-148**

**41. Csiszár, E., Losonczi, A., Koczka, B., Szakacs, G., Pomlenyi, A. (2006) Degradation of lignin-containing materials by xylanase in biopreparation of cotton. Biotechnol.Lett. 28: 749-753**

**42. Roopesh, K., Ramachandran, S., Nampoothiri, K.M., Szakacs, G., Pandey, A. (2006) Comparison of phytase production on wheat bran and oilcakes in solid-state fermentation by *Mucor racemosus*, Bioresource Technology 97: 506-511**

**43. Sumantha, A., Deepa, P., Sandhya, C., Szakacs, G., Soccol, C.R., Pandey, A. (2006) Rice bran as a substrate for proteolytic enzyme production. Brazilian Archives of Biology and Technology 49: 843-851**

**44. Druzhinina, I.S., Kopchinskiy, A.G., Komon, M., Bissett, J., Szakacs, G., Kubicek, C.P. (2005) An oligonucleotide barcode for species identification in *Trichoderma* and *Hypocrea*. Fungal Genetics and Biology 42: 813-828**

**45. Paoletti, M., Rydholm, C., Schwier, E.U., Anderson, M.J., Szakacs, G., Lutzoni, F., Debeaupuis, J-P., Latge, J-P., Denning, D.W., Dyer, P.S. (2005) Evidence for sexuality in the opportunistic fungal pathogen *Aspergillus fumigatus*. Current Biology 15: 1242-1248**

**46. Varga, J., Toth, B., Kocsube, S., Farkas, B., Szakacs, G., Teren, J., Kozakiewicz, Z. (2005) Evolutionary relationships among *Aspergillus terreus* isolates and their relatives. Antonie van Leeuwenhoek 88: 141-150**

**47. Nampoothiri, K.M., Nagy, V., Kovacs, K., Szakacs, G., Pandey, A. (2005) L-leucine aminopeptidase production by filamentous *Aspergillus* fungi. Letters in Applied Microbiology 41: 498-504**

**48. Mahapatra, K., Nanda, R.K., Bag, S.S., Banerjee, R., Pandey, A., Szakacs, G. (2005) Purification, characterization and some studies on secondary structure of tannase from *Aspergillus awamori* Nakazawa. Process Biochemistry 40: 3251-3254**

**49. Sandhya, C., Binod, P., Szakacs, G., Pandey, A. (2005) Microbial synthesis of chitinase in solid cultures and its potential as biocontrol agent on phytopathogenic fungus *Colletotrichum gloeosporioides*. Applied Biochemistry and Biotechnology 127: 1-16**

**50. Szakacs, G. (2005) Production of industrial enzymes in solid-state fermentation, in: Current Topics in Bioprocesses in Food Industries, Asiatech Publ., Inc, New Delhi, 2005, Chapter 12, pp. 141-155, ISBN 81-87680-14-8**

**51. Samantha, A., Sandhya, C., Szakacs, G., Soccol, C.R., Pandey, A. (2005) Production and partial purification of a neutral metalloprotease by fungal mixed substrate fermentation. Food Technology and Biotechnology 43: 313-319**

**52. Binod, P., Pusztahelyi, T., Nagy, V., Sandhya, C., Szakacs, G., Pocsi, I., Pandey, A. (2005) Production and purification of extracellular chitinases from *Penicillium aculeatum* NRRL 2129 under solid-state fermentation. Enzyme and Microbial Technology 36: 880-887**

**53. Chipeta, Z.A., du Preez, J.C., Szakacs, G., Christopher, L. (2005) Xylanase production by fungal strains on spent sulphite liquor. Appl.Microbiol.Biotechnol. 69: 71-78**

**54. Christopher, L., Bissoon, S., Singh, S., Szendefy, J. and Szakacs, G. (2005) Bleach-enhancing abilities of *Thermomyces lanuginosus* xylanases produced by solid state fermentation. Process Biochemistry 40: 3230-3235**

**55. Sandhya, C., Sumantha, A., Szakacs, G., Pandey, A. (2005) Comparative evaluation of neutral protease production by *Aspergillus oryzae* in submerged and solid-state fermentation. Process Biochemistry 40: 2689-2694**

**56. Ramachandran, S., Roopesh, K., Nampoothiri, K.M., Szakacs, G., Pandey, A. (2005) Mixed substrate fermentation for the production of phytase by *Rhizopus spp.* using oilcakes as substrates. Process Biochemistry 40: 1749-1754**

**57. Sabu, A., Pandey, A., Daud, M.J., Szakacs, G. (2005) Tamarind seed powder and palm kernel cake: two novel agro-residues for the production of tannase under solid state fermentation by *Aspergillus niger* ATCC 16620. Bioresource Technology 96: 1223-1228**

**58. Losonczi, A., Csiszar, E., Szakacs, G., Bezur, L. (2005) Role of EDTA chelating agent in bioscouring of cotton. Textile Research Journal 75: 411-417 (2005)**

**59. Szakacs, G., Tengerdy, R.P. and Nagy, V. (2004) Cellulases. In Enzyme Technology, A. Pandey, C. Webb, C.R. Soccol and C. Larroche, eds, Asiatech Publishers, Inc., New Delhi, 2004, Chapter 13, pp. 246-265 ISBN 81-87680-12-1**

**60. Csiszár, E., Losonczi, A., Szakacs, G., Bezúr, L., Kustos, K. (2004) Influence of EDTA complexing agent on biopreparation of linen fabric. Biocatalysis and Biotransformation 22: 369-374**

**61. Kraus, G.F., Druzhinina, I., Gams, W., Bissett, J., Zafari, D., Szakacs, G., Koptchinski, A., Prillinger, H., Zare, R., Kubicek, C.P. (2004) *Trichoderma brevicompactum* sp. nov. Mycologia 96: 1059-1073 (2004)**

**62. Szendefy, J., Szakacs, G., Christov, L. (2004) Biobleaching efficiency of *Aspergillus oryzae* xylanases produced by solid substrate fermentation. In Lignocellulose Biodegradation, B.C. Saha & K. Hayashi, eds, ACS Symp.Ser. 889, American Chemical Society, Washington, DC, 2004, Chapter19, pp. 316-338 ISBN 0-8412-3876-6**

**63. Sandhya, C., Adapa, L.K., Nampoothiri, K.M., Binod, P., Szakacs, G., Pandey, A. (2004) Extra-cellular chitinase production by *Trichoderma harzianum* in submerged fermentation. J.Basic Microbiol. 44: 49-58**

**64. Nampoothiri, K.M., Baiju, T.V., Sandhya, C., Sabu, A., Szakacs, G., Pandey, A. (2004) Process optimization for fungal chitinase production by *Trichoderma harzianum*. Process Biochemistry 39: 1583-1590**

**65. Nampoothiri, K.M., Tomes, G.J., Roopesh, K., Szakacs, G., Nagy, V., Soccol, C.R., Pandey, A. (2004) Thermostable phytase production by *Thermoascus aurantiacus* in submerged fermentation. Appl.Biochem.Biotechnol. 118: 205-214**

**66. Kovacs, K., Szakacs, G., Pusztahelyi, T., Pandey, A. (2004) Production of chitinolytic enzymes with *Trichoderma longibrachiatum* IMI 92027 in solid substrate fermentation. Appl.Biochem.Biotechnol. 118: 189-204**

**67. Losonczi, A., Csiszar, E., Szakacs, G., Kaarela, O. (2004) Bleachability and dyeing properties of biopretreated and conventionally scoured cotton fabrics. Textile Research Journal 74: 501-508**

**68. Ramachandran, S., Patel, A.K., Nampoothiri, K.M., Francis, F., Nagy, V., Szakacs, G., Pandey, A. (2004) Coconut oil cake - a potential raw material for the production of alpha-amylase. Bioresource Technology 93: 169-174**

**69. Ramachandran, S., Patel, A.K., Nampoothiri, K.M., Chandran, S., Szakacs, G., Soccol, C.R., Pandey, A. (2004) Alpha amylase from a fungal culture grown on oil cakes and its properties. Brazilian Arch. Biol. Technol. 47: 309-317**

**70. Tengerdy, R.P., Szakacs, G. (2003) Bioconversion of lignocellulose in solid substrate fermentation. Biochem.Eng.J. 13(2-3): 169-179**

**71. Kubicek, C.P., Bissett, J., Druzhinina, I., Kullnig-Gradinger, C., Szakacs, G. (2003) Genetic and metabolic diversity of *Trichoderma* : a case study on South East Asian isolates. Fungal Genetics and Biology 38(3): 310-319**

**72. Bogar, B., Szakacs, G., Pandey, A., Sabu, A., Linden, J.C., Tengerdy, R.P. (2003) Production of phytase by *Mucor racemosus* in solid state fermentation. Biotechnology Progress 19: 312-319**

**73. Bogar, B., Szakacs, G., Linden, J.C., Pandey, A., Tengerdy, R.P. (2003) Optimization of phytase production by solid substrate fermentation. J.Ind.Microbiol.Biotechnol. 30: 183-189**

**74. Szendefy, J., Szakacs, G., Kemeny, S., Christov, L. (2003) *In situ* solid-state fermentation and utilization of xylanase in pulp bleaching. In Applications of Enzymes to Lignocellulosics, S.D.Mansfield & J.N. Saddler, eds, ACS Symp.Ser. 855, American Chemical Society, Washington, DC, 2003, pp.255-284. ISBN 0-8412-3831-6**

**75. Francis, F., Sabu, A., Nampoothiri, K.M., Ramachandran, S., Ghosh, S., Szakacs, G., Pandey, A. (2003) Use of response surface methodology for optimizing process parameters for the production of alpha-amylase by *Aspergillus oryzae*. Biochem.Eng.J. 15: 107-115**

**76. Bodai, V., Peredi, R., Balint, J., Egri, G., Novak, L., Szakacs, G., Poppe, L. (2003) Novel hydrolases from thermophilic filamentous fungi for enantiomerically and enantiotopically selective biotransformations. Adv.Synth.Catal. 345 (6-7): 811-818**

**77. Paizs, C., Tosa, M., Bodai, V., Szakacs, G., Kmecz, I., Simandi, B., Majdik, C., Novak, L., Irimie, F-D., Poppe, L. (2003) Kinetic resolution of 1-(benzofuran-2-yl)ethanols by lipase-catalysed enantiomer selective reactions. Tetrahedron: Asymmetry 14: 1943-1949**

**78. Bodai, V., Orovecz, O., Szakacs, G., Novak, L., Poppe, L. (2003) Kinetic resolution of trans-2-acetoxycycloalkan-1-ols by lipase-catalysed enantiomer selective acylation.**

**Tetrahedron: Asymmetry 14: 2605-2612**

**79. Bissett, J., Szakacs, G., Nolan, C.A., Druzhinina, I., Gradinger, C., Kubicek, C.P. (2003) Seven new species of *Trichoderma* from Asia. Canadian Journal of Botany 81: 570-586**

**80. Kullnig-Gradinger, C.M., Szakacs, G., Kubicek, C.P. (2002) Molecular phylogeny and evolution of the fungal genus *Trichoderma* - a multigene approach. Mycol.Res. 106: 757-767**

**81. Weinberg, Z.G., Ashbell, G., Hen, Y., Azrieli, A., Szakacs, G., Filya, I. (2002) Ensiling whole-crop wheat and corn in large containers with *Lactobacillus plantarum* and *Lactobacillus buchneri* J.Ind.Microbiol.Biotechnol. 28: 7-11**

**82. Gautham, P., Sabu, A., Pandey, A., Szakacs, G., Soccol, C.R. (2002) Microbial production of extra-cellular phytase using polystyrene as inert solid support. Bioresource Technology 83: 229-233**

**83. Kashyap, P., Sabu, A., Pandey, A., Szakacs, G., Soccol, C.R. (2002) Extra-cellular L-glutaminase production by *Zygosaccharomyces rouxii* under solid-state fermentation. Process Biochemistry 38: 307-312**

**84. Francis, F., Sabu, A., Nampoothiri, M., Szakacs, G., Pandey, A. (2002) Synthesis of alpha-amylase by *Aspergillus oryzae* in solid-state fermentation. J.Basic Microbiol. 42: 320-326**

**85. Bogar, B., Szakacs, G., Tengerdy, R.P., Linden, J.C., Pandey, A. (2002) Production of alpha-amylase with *Aspergillus oryzae* on spent brewing grain by solid substrate fermentation. Appl.Biochem.Biotechnol. 102/103: 453-461**

**86. Sabu, A., Sarita, S., Pandey, A., Szakacs, G., Bogar, B., Soccol, C.R. (2002) Coconut oil cake as a substrate for the production of phytase by *Rhizopus oligosporus*.**

**Appl.Biochem.Biotechnol. 102/103: 251-260**

**87. Pandey, A., Szakacs, G., Soccol, C.R., Rodriguez-Leon, J.A., Soccol, V.T. (2001) Production, purification and properties of microbial phytases. Bioresource Technology 77: 203-214**

**88. Schmidt, J., Szakacs, G., Cenkvari, E., Sipocz, J., Urbanszki, K., Tengerdy, R.P. (2001) Enzyme assisted ensiling of alfalfa with enzymes by solid substrate fermentation.**

**Bioresource Technology 76: 207-212 (2001)**

**89. Csiszar, E., Urbanszki, K., Szakacs, G. (2001) Biotreatment of desized cotton fabric by commercial cellulase and xylanase enzymes. J.Mol.Catal. B: Enzymatic 11(4-6): 1113-1127**

**90. Szakacs, G., Urbanszki, K., Tengerdy, R.P. (2001) Solid state enzymes for fiber hydrolysis. In: Himmel, M.E., Baker, J.O. and Saddler, J.E., eds, Glycosyl Hydrolases for Biomass Conversion, ACS Symp.Series 769, American Chemical Society, Washington, D.C., 2001, Chapter 11, pp. 190-203 ISBN 0-8412-3681-X**

**91. Csiszar, E., Losonczi, A., Szakacs, G., Rusznak, I., Bezur, L., Reicher, J. (2001) Enzymes and chelating agents in cotton pretreatment. Journal of Biotechnology 89: 271-279**

**92. Weinberg, Z.G., Szakacs, G., Ashbell, G., Hen, Y. (2001) The effect of temperature on the ensiling process of corn and wheat. J.Appl.Microbiol. 90: 561-566**

**93. Tengerdy, R.P., Szakacs, G. (2000) Solid state enzymes for agrobiotechnology.**

**Agro-Food-Ind Hi-Tech 11(5): 36-38 (2000)**

**94. Kullnig, C., Szakacs, G., Kubicek, C.P. (2000) Molecular identification of *Trichoderma* species from Russia, Siberia and the Himalaya. Mycol.Res. 104: 1117-1125**

**95. Antal, Z., Manczinger, L., Szakacs, G., Tengerdy, R.P., Ferenczy, L. (2000) Colony growth, *in vitro* antagonism and secretion of extracellular enzymes in cold-tolerant strains of *Trichoderma* species. Mycol.Res. 104: 545-549**

**96. Urbanszki, K., Szakacs, G., Tengerdy, R.P. (2000) Standardization of the filter paper activity assay for solid substrate fermentation. Biotechnology Letters 22: 65-69**

**97. Christov, L.P., Szakacs, G., Rele, M.V., Balakrishnan, H. (1999) Screening of cellulase-free xylanases and evaluation of their performance on sulfite dissolving pulp. Biotechnology Techniques 13: 313-316**

**98. Weinberg, Z.G., Szakacs, G., Ashbell, G., Hen, Y. (1999) The effect of *Lactobacillus buchneri* and *L. plantarum*, applied at ensiling, on the ensiling fermentation and aerobic stability of wheat and sorghum silage. J.Ind.Microbiol.Biotechnol. 23: 218-222**

**99. Christov, L.P., Szakacs, G., Balakrishnan, H. (1999) Production, partial characterization and use of fungal cellulase-free xylanases in pulp bleaching. Process Biochemistry 34: 511-517**

**100. Tengerdy, R.P., Szakacs, G. (1998) Perspectives in agrobiotechnology. Journal of Biotechnology 66: 91-99**

**101. Szakacs, G., Morovján, G., Tengerdy, R.P. (1998) Production of lovastatin by a wild strain of *Aspergillus terreus*. Biotechnology Letters 20: 411-415**

**102. Csiszár, E., Szakacs, G., Rusznák, I. (1998) Bioscouring of cotton fabrics with cellulase enzyme. In: Enzyme Applications in Fiber Processing (Eriksson, K-E.L., Cavaco-Paulo, A., Eds), ACS Symposium Series 687, American Chemical Society, Washington, D.C., 1998, Chapter 17, pp. 204-211. ISBN 0-8412-3547-3**

**103. Weinberg, Z.G., Szakacs, G., Ashbell, G., Hen, Y. (1998) The effect of temperature and *Lactobacillus amylovorus* and *Lactobacillus plantarum*, applied at ensiling, on wheat silage. J.Appl.Microbiol. 84: 404-408**

**104. Csiszár, E., Szakacs, G., Rusznák, I. (1998) Combining traditional cotton scouring with cellulase enzymatic treatment. Textile Research Journal 68: 163-167**

**105. Szakacs, G., Tengerdy, R.P. (1997) Lignocellulolytic enzyme production on pretreated poplar wood by filamentous fungi. World J.Microbiol.Biotechnol. 13: 487-490**

**106. Morovján, G., Szakacs, G., Fekete, J. (1997) Monitoring of selected metabolites and biotransformation products from fermentation broths by high performance liquid chromatography. J.Chromatogr. A 763: 165-172**

**107. Schmidt, J., Sipcz, J., Kaszás, I., Szakacs, G., Gyepes, Á., Tengerdy, R.P. (1997) Preservation of sugar content in ensiled sweet sorghum. Bioresource Technology 60: 9-13**

**108. Szakacs, G., Tengerdy, R.P. (1996) Production of cellulase and xylanase with selected filamentous fungi by solid substrate fermentation. In: Enzymes for Pulp and Paper Processing (Eds. Jeffries, T.W. and Viikari, L.), ACS Symposium Series 655, American Chemical Society, Washington, D.C., 1996, Chapter 13 (pp. 175-182)**

**ISBN 0-8412-3478-7**

**109. Tengerdy, R.P., Szakacs, G., Sipcz, J. (1996) Bioprocessing of sweet sorghum with *in situ* produced enzymes. Appl.Biochem.Biotechnol. 57/58: 563-569**

**110. Elegir, G., Szakacs, G., Jeffries, T.W. (1994) Purification, characterization and substrate specificities of multiple xylanases of *Streptomyces sp.* strain B-12-2. Applied and Environmental Microbiology 60: 2609-2615**

**111. Szakacs-Dobozi, M., Szakacs, G., Bruschi, C.V. (1992) Xylanase activity of *Phanerochaete chrysosporium.* Applied and Environmental Microbiology 58: 3466-3471**

**112. Tengerdy, R.P., Linden, J.C., Wu, M., Murphy, V.G., Baintner, F., Szakacs, G. (1992) Plant processing by simultaneous lactic acid fermentation and enzyme hydrolysis. Appl.Biochem.Biotechnol. 34/35: 309-316**

**113. Tengerdy, R.P., Weinberg, Z.G., Szakacs, G., Wu, M., Linden, J.C., Henk, L.L., Johnson, D.E. (1991) Ensiling alfalfa with additives of lactic acid bacteria and enzymes. J.Sci.Food Agric. 55: 215-228**

**114. Weinberg, Z.G., Szakacs, G., Linden, J.C., Tengerdy, R.P. (1990) Recovery of protein and chlorophyll from alfalfa by simultaneous lactic acid fermentation and enzyme hydrolysis (ENLAC). Enzyme and Microbial Technology 12: 921-925**

**115. Szakacs-Dobozi, M., Halasz, A., Kozma-Kovacs, E., Szakacs, G. (1988) Enhancement of mustard oil yield by cellulolytic pretreatment. Appl.Microbiol.Biotechnol. 29: 39-43**

**116. Szakacs-Dobozi, M., Halasz, A., Vamos-Vigyazo, L., Szakacs, G. (1987) Comparison of cellulolytic enzyme complexes of different fungal origin. British Polym.J. 19: 83-90**

**117. Szakacs-Dobozi, M., Szakacs, G., Meyer, D., Klappach, G. (1985) Enhancement of enzymatic degradation of cellulose by application of mixed enzyme systems of different fungal origin. Acta Biotechnol. 1: 27-33**

**118. Szakacs, G., Reczey, K., Hernadi, P., Dobozi, M. (1981) *Penicillium verruculosum* WA 30 a new source of cellulase. European J.Appl.Microbiol.Biotechnol. 11: 120-124**

**119. Szakacs, G., Madas, E. ( 1979) Wet preservation of leaf protein concentrate by lactobacilli. Biotechnology and Bioengineering 21(4): 721-723**

**Scientists whom I especially indebted for their good collaboration and help**

**BISSETT, John  (Canada)
JEFFRIES, Thomas W.  (Wisconsin)
KRUUS, Kristiina  (Finland)
KUBICEK, Christian P.  (Austria)
PANDEY, Ashok  (India)
SAMUELS, Gary J.  (USDA)
SCHOLS, Henk A.  (Netherlands)
TENGERDY, Robert P.  (Colorado)
VEHMAANPERA, Jari  (Finland)
WEINBERG, Zwi G.  (Israel)
ZACCHI, Guido  (Sweden)**