

Biomimetics & Nanobiotechnology

Full list of publications

1. INTERNATIONAL JOURNALS

1. Ioannou, P. C., Arbez-Gindre, C., Zoumpantioti, M., Raptopoulou, C.P., Psycharis, V., Kostas, I.D., Kyritsis, P. Catalytic reactivity of the complexes [Pd{(Ph₂P)₂N(tBu)-P,P'}₂], X = Cl, Br, I, in the Suzuki-Miyaura C–C coupling reaction: Probing effects of the halogeno ligand X– and the ligand's tBu group. *J. Organomet. Chem.* (2019) 879, 40-46. (IF 1.946)
2. Mitsou, E., Kalogianni, E.P., Georgiou, D., Stamatis, H., Xenakis, A., Zoumpantioti, M. Formulation and structural study of a biocompatible Water-in-Oil microemulsion as an appropriate enzyme carrier: The model case of Horseradish peroxidase. *Langmuir* (2019) 35(1) 150-160 (IF 3.789)
3. Kavga, A., Strati, I. F., Sinanoglou, J.V. J., Fotakis, C., Sotiroudis, G., Christodoulou, P., Zumpoulakis, P. Evaluating the experimental cultivation of peppers in low-energy-demand greenhouses. An interdisciplinary study. *J Sci Food Agr* (2019) 99(2) 781-789. (IF 2.379)
4. Chatzidaki, M.D, Balkiza, F., Gad, E., Alexandraki, V., Avramiotis, S., Georgalaki, M., Papadimitriou, V., Tsakalidou, E., Papadimitriou, K., Xenakis, A. Reverse micelles as nano-carriers of nisin against foodborne pathogens. Part II: The case of essential oils, *Food Chem.*, (2019) 278, 415-423. (IF 4.946)
5. E. Vassiliadi, A. Xenakis, M. Zoumpantioti, "Chitosan Hydrogels: a New and Simple Matrix for Lipase Catalysed Biosyntheses" *Molecular Catalysis*, (2018) 445, 206 – 212, DOI 10.1016/j.mcat.2017.11.031
6. Golfomitsou, I., Mitsou, E., Xenakis, A., Papadimitriou, V. Development of O/W nanoemulsions as carriers of vitamin D: A structural study, *J. Mol. Liq.* (2018) 268, 734–742. (IF 4.513)
7. Chatzidaki, M.D.; Papadimitriou, K.; Alexandraki, V.; Balkiza, F.; Georgalaki, M.; Papadimitriou, V.; Tsakalidou, E.; Xenakis, A. Reverse Micelles as Nanocarriers of Nisin against Foodborne Pathogens. *Food Chem.* (2018), 255, 97–103. (IF 4.946)
8. Theochari, I.; Papadimitriou, V.; Papahatjis, D.; Assimomytis, N.; Pappou, E.; Pratsinis, H.; Xenakis, A.; Vasiliki Pletsa, V. Oil-in-water microemulsions as hosts for benzothiophene cytotoxic compounds. An effective combination. *Biomimetics* (2018) 3, 13.
9. M. Chaari, I. Theochari, V. Papadimitriou, A. Xenakis, E. Ammar, "Encapsulation of carotenoids extracted from halophilic Archaea in oil-in-water (O/W) micro- and nano-emulsions" *Colloids and Surfaces B. Biointerfaces.* (2018), 219-227. (IF2013 4.152).

10. Bubic Pajić, N.; Nikolic, I.; Mitsou, E.; Papadimitriou, V.; Xenakis, A.; Randjelovic, D.; Dobric, V.; Smitran, A.; Cekic, N.; Calija, B.; Savic, S. Biocompatible microemulsions for improved dermal delivery of sertaconazole nitrate: phase behavior study and microstructure influence on drug biopharmaceutical properties. *Journal of Molecular Liquids* (2018) 272, 746-758 (IF 4.513)
11. Theochari, I., Goulielmaki, M., Danino, D., Papadimitriou, V., Pintzas, A., Xenakis, A. Drug nanocarriers for cancer chemotherapy based on microemulsions: the case of Vemurafenib analog PLX4720. *Colloids and Surfaces B: Biointerfaces* (2017) 154, 350-356 (Corresponding author) (IF2015 3.902)
12. Savić, V., Todosijević, M., Lukić, T.M., Mitsou, E., Papadimitriou, V., Avramiotis, S., Marković, B., Cekić, N., Savić, S. Tacrolimus loaded biocompatible lecithin-based microemulsions with improved skin penetration: Structure characterization and in vitro/in vivo performances. *International Journal of Pharmaceutics*. (2017) 529, 491-505 (IF 3.649)
13. Kalogianni, E. P, Sklaviadis, L., Nika, S., Theochari, I., Dimitreli, G., Georgiou, D., Papadimitriou, V. Effect of oleic acid on the properties of protein adsorbed layers at water/oil interfaces: A study by EPR combined with dynamic interfacial properties. *Colloids and Surfaces B: Biointerfaces* (2017) 158, 498-506 (Corresponding author) (IF 2015 3.902)
14. Papanikolaou, N. E., Kalaitzaki, A., Karamaouna, F., Michaelakis, A., Papadimitriou, V., Dourtoglou, V., & Papachristos, D. P. Nano-formulation enhances insecticidal activity of natural pyrethrins against *Aphis gossypii* (Hemiptera: Aphididae) and retains their harmless effect to non-target predators. *Environmental Science and Pollution Research*, 1-7, DOI: 10.1007/s11356-017-8596-2. (IF 2015 2.760)
15. E. Mitsou, A. Xenakis, M. Zoumpantioti. "Oxidation catalysis by enzymes in microemulsions." *Catalysts* (2017) 7, DOI: 10.3390/catal7020052 (IF2015 2.964)
16. M. Chatzidaki, K. Papadimitriou, V. Alexandraki, E. Tsirvouli, Z. Chakim, A. Ghazel, K. Mortensen, A. Yaghmur, S. Salentinig, V. Papadimitriou, E. Tsakalidou, A. Xenakis, "Microemulsions as potential carriers of: effect of composition on the structure and efficacy" *Langmuir* (2016) 32, 8988–8998
17. M. Chatzidaki, E. Mateos-Diaz, F. Leal-Calderon, A. Xenakis, F. Carrière "Water-in-Oil microemulsions versus emulsions as carriers of hydroxytyrosol: an in vitro gastrointestinal lipolysis study using the pHstat technique" *Food & Function* (2016) 7, 2258-69.
18. A. Xenakis, M. Zoumpantioti, and H. Stamatias. "Enzymatic reactions in structured surfactant - free microemulsions." *Current Opinion in Colloid & Interface Science* (2016) 22, 41-45.
19. K. Gonçalves, I.I. Junior, V. Papadimitriou, M. Zoumpantioti, I.C.R., Leal, R.O.M.A. de Souza, Y. Cordeiro, A. Xenakis. "Nanoencapsulated Lecitase Ultra and *Thermomyces lanuginosus* Lipase, a Comparative Structural Study." *Langmuir* (2016) 32 6746-6756.
20. M. Khemakhem, V. Papadimitriou, G. Sotiroudis, P. Zoumpoulakis, C. Arbez-Gindre, N. Bouzouita, T.G. Sotiroudis "Melanin and Humic acid-like polymer complex from olive

- mill waste waters. Part I. Isolation and Characterization." *Food Chemistry*, (2016) 203 540–547.
21. M. Khemakhem, G. Sotiroudis, E. Mitsou, S. Avramiotis, T. G. Sotiroudis, N. Bouzouita, V. Papadimitriou. Melanin and humic acid -like polymer complex from olive mill waste waters. Part II. Surfactant properties and encapsulation in W/O microemulsions. *Journal of Molecular Liquids* (2016). 222, 480-486
 22. M. Chatzidaki, N. Arik, J. Monteil, V. Papadimitriou, F. Leal-Calderon, A. Xenakis "Microemulsion versus emulsion as effective carrier of Hydroxytyrosol" *Colloids and Surfaces B. Biointerfaces* (2016) 137, 146-151
 23. E. Mitsou, G. Tavantzis, G. Sotiroudis, D. Ladikos, A. Xenakis, V. & Papadimitriou "Food grade water-in-oil microemulsions as replacement of oil phase to help process and stabilization of whipped cream." *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (2016), 510, 69-76.
 24. M. Chatzidaki, E. Mitsou, A. Yaghmur, A. Xenakis, V. Papadimitriou, "Formulation and characterization of food-grade microemulsions as carriers of natural phenolic antioxidants" *Colloids and Surfaces A: Physicochem.Eng.Aspects*, (2015) 483, 130-6.
 25. A. Kalaitzaki, A. Xenakis, V. Papadimitriou "Highly Water Dilutable Microemulsions: A structural study" *Colloid Polym.Sci.* (2015) 111-119.
 26. A. Kalaitzaki, N.E. Papanikolaou, F. Karamaouna, V. Dourtoglou, A.Xenakis, V.Papadimitriou. "Biocompatible Colloidal Dispersions as Potential Formulations of Natural Pyrethrins: A Structural & Efficacy Study." *Langmuir*, (2015) 31, 5722-5730.
 27. N. Tsinisizeli, G. T. Sotiroudis, A. Xenakis, K.E. Lykeridou "Determination of nicotine and cotinine in meconium from Greek neonates and correlation with birth weight and gestational age at birth" *Chemosphere* (2015) 119, 1200-7.
 28. V. Sereti, M. Zoumpantioti, V. Papadimitriou, S. Pispas, A. Xenakis "Biocolloids Based on Amphiphilic Block Copolymers as a Medium for Enzyme Immobilization" *J. Phys. Chem. B* (2014) 118, 9808 – 9816.
 29. I. Itabaiana-Jr, K.M. Gonçalves, M. Zoumpantioti, I.C.R. Leal, L.S.M. e Miranda, A. Xenakis, and R.O.M.A de Souza "Microemulsions-Based Organogels as an Efficient Support for Lipase Catalyzed Reactions under Continuous Flow Conditions " *ACS Org. Proc. Res. Dev.* (2014) 18, 1372-1376.
 30. A.F. Zanette, I. Zampakidi, G.T. Sotiroudis, M. Zoumpantioti, I.C.R. Leal, R.O.M.A. de Souza, L. Cardozo-Filho, A. Xenakis "Chemo-enzymatic epoxidation catalyzed by C. antarctica lipase immobilized in microemulsion-based organogels" *J. Mol. Catal. B. Enzymatic*, (2014) 107, 89-94.
 31. D. Amadei, M.D. Chatzidaki, J. Devienne, J. Monteil, M. Cansell, A. Xenakis, F. Leal-Calderon "Low shear-rate process to obtain transparent W/O fine emulsions as functional foods" *Food Res. Intern.* (2014) 62, 533-540.
 32. A. Kalaitzaki, M. Pouloupoulou, V. Papadimitriou, A. Xenakis, "Surfactant-rich biocompatible microemulsions for transdermal administration of methylxanthine drugs" *Colloids and Surfaces A: Physicochem. Eng.Aspects*, (2014) 442, 80-87

33. A. Kalaitzaki, M. Emo, M.J. Stébé, A. Xenakis, V. Papadimitriou, "Biocompatible nanodispersions as delivery systems of food additives: A structural study" *Food Res. Intern.* (2013) 54, 1448-1454
34. I. Itabaiana-Jr, K.M. Gonçalves, Y.M.L. Cordeiro, M. Zoumpanioti, I.C.R. Leal, L.S.M.e Miranda, R.M.A Souza, A. Xenakis "Kinetics and mechanism of lipase catalyzed monoacylglycerols synthesis" *J. Mol. Catal. B. Enzymatic* (2013) 96, 34-39
35. A. Kyriazi, V. Papadimitriou, T. G. Sotiroudis, A. Xenakis "Development and characterization of a digestion model based on olive oil microemulsions" *Eur. J. Lipid Sci. Technol.*, 115, (2013) 601-611
36. V. Papadimitriou, M. Dulle, W. Wachter, T.G. Sotiroudis, O. Glatter, A. Xenakis "Structure and dynamics of veiled virgin olive oil: Influence of production conditions and relation to its antioxidant capacity" *Food Biophys.* (2013) 8, 112-121
37. E.D. Tzika, M. Christoforou, S. Pispas, M. Zervou, V. Papadimitriou, T. G. Sotiroudis, E. Leontidis, A. Xenakis (2011) "Influence of nanoreactor environment and substrate location on the activity of horse- radish peroxidase in olive oil-based w/o microemulsions" *Langmuir*, 27, 2692-2700.
38. M. Fanun, V. Papadimitriou, A. Xenakis (2011) "Characterization of cephalixin loaded nonionic microemulsions" *J. Colloid Interface Sci.*, 361, 115-121.
39. V. Papadimitriou, E. D.Tzika, S. Pispas, T.G. Sotiroudis, A. Xenakis (2010) "Microemulsions based on virgin olive oil: a model biomimetic system for studying native oxidative enzymatic activities" *Colloids Surfaces.A: Physicochem. & Engin.Aspects*, 382, 232-237.
40. A. Xenakis, V. Papadimitriou, T.G. Sotiroudis (2010) "Colloidal structures in natural oils" *Curr.Opinion Colloid Interface Sci.* 15, 55-60.
41. M. Zoumpanioti, H. Stamatis, A. Xenakis (2010) "Microemulsion-based organogels as matrices for lipase immobilization" *Biotechnol. Advances*, 28, 395-406. (
42. M. Zoumpanioti, H. Merianou, T. Karandreas, H. Stamatis, A. Xenakis (2010) "Esterification of phenolic acids catalyzed by lipases immobilized in organogels" *Biotechnol. Lett.* 32, 1457-62
43. F. Michaux, M. Zoumpanioti, M. Papamentzelopoulou, M. J. Stébé., J. L. Blin, A. Xenakis (2010) "Immobilization and activity of *Rhizomucor miehei* lipase. Effect of the matrix properties prepared from nonionic fluorinated surfactants". *Proc. Biochem.* 45, 39-46.
44. E. D.Tzika, T.G. Sotiroudis, V. Papadimitriou, A. Xenakis (2009) "Characterization of peroxidase activity in oil producing koroneiki olives" *European Food Research and Technology.*, 228, 487- 495.
45. M. Zoumpanioti, P. Parmaklis, P. Domínguez de María, H. Stamatis, J.V. Sinisterra, A. Xenakis. (2008) "Esterification reactions catalyzed by lipases immobilized in organogels. Effect of temperature and substrate diffusion" *Biotechnol. Lett.* 30,1627-1631.
46. V. Papadimitriou, S. Pispas, S. Syriou, A.Pournara, M. Zoumpanioti, T.G. Sotiroudis, A.Xenakis (2008) "Biocompatible Microemulsions based on Limonene: Formulation, Structure and Applications" *Lamgmuir*, 24, 3380-3386.

47. E. D. Tzika, V. Papadimitriou, T.G. Sotiroudis, A. Xenakis (2008) "Antioxidant properties of fruits and vegetables shots and juices: An Electron Paramagnetic Resonance study", *Food Biophys.* 3, 48-53.
48. E. D.Tzika, V.Papadimitriou, T.G. Sotiroudis, A.Xenakis (2008) "Oxidation of oleuropein: Electron paramagnetic resonance and spectrophotometric studies", *Eur.J.Lipid Sci.Technol.*, 110, 149-157.
49. S. Avramiotis, V. Papadimitriou, E. Hatzara, V. Bekiari, P. Lianos, A. Xenakis (2007) "Lecithin Organogels Used as Bioactive Compounds Carriers. A Microdomain Properties Investigation" *Langmuir*, 23, 4438-4447.
50. V. Papadimitriou, T.G. Sotiroudis, A. Xenakis, (2007) Olive oil microemulsions: enzymatic activities and structural characteristics, *Langmuir*, 23, 2071-7.
51. V. Papadimitriou, T.G. Sotiroudis, A. Xenakis, N. Sofikiti, V. Stavviannoudaki, N.A. Chaniotakis (2006) "Oxidative stability and radical scavenging activity of extra virgin olive oils by using Electron Paramagnetic Resonance spectroscopy", *Anal. Chim. Acta*, 573-574, 453-458.
52. E. Karavas, G. Ktistis, A. Xenakis, E. Georgarakis (2006) "Effect of hydrogen bonding interactions on the release mechanism of felodipine from nanodispersions with polyvinylpyrrolidone." *Eur. J. Pharm. Biopharm.* 63, 103-114.
53. C. Blattner, M. Zoumpantioti, J. Kröner, G. Schmeer, A. Xenakis, W. Kunz (2006) "Biocatalysis using lipase encapsulated in microemulsion based organogels in supercritical carbon dioxide" *J.Supercritical Fluids* 36, 182-193.
54. M. Zoumpantioti, M. Karali, A. Xenakis & H. Stamatis, (2006) "Lipase biocatalytic processes insurfactant free microemulsion - like ternary systems and related organogels". *Enzym. Microb. Technol.*,39, 531-539.
55. M. Zoumpantioti, H. Stamatis, V. Papadimitriou, and A. Xenakis (2006) "Spectroscopic and catalytic studies of lipases in ternary hexane - 1-propanol - water microemulsion-like systems" *Colloids & Surfaces B: Biointerfaces*, 47, 1-9.
56. E. Karavas, G. Ktistis, A. Xenakis and E. Georgarakis. (2005) "Miscibility behaviour and formation mechanism of stabilized felodipine - polivinylypyrrolidone amorphous nanodispersions" *Drug Dev.Ind.Pharm.* 31, 473-489.
57. V. Papadimitriou, G.A. Maridakis, T.G. Sotiroudis, A. Xenakis (2005) "Antioxidant activity of polar extracts from olive oil and olive mill wastewaters: an EPR and photometric study" *Eur. J. Lipid Sci. Technol.* 107, 513-520.
58. T.G. Sotiroudis, G.T. Sotiroudis, N. Varkas and A. Xenakis (2005) "The Role of Endogenous amphiphiles on the Stability of Virgin Olive Oil-in-Water Emulsions" *J. Am. Oil Chem. Soc.* 82, 415-420.
59. V. Papadimitriou, T.G. Sotiroudis, and A. Xenakis (2005) "Olive oil microemulsions as a biomimetic medium for enzymatic studies. Oxidation of oleuropein" *J. Am. Oil Chem. Soc.* 82, 335-340.
60. P. Domínguez de María, H. Stamatis, A. Xenakis, J.V. Sinisterra (2004) "Unexpected reaction profile observed in the synthesis of propyl laurate when using *Candida rugosa* lipases immobilized in microemulsions based organogels" *Biotechnol. Lett.* 26: 1517-20.

61. P. Domínguez de María, H. Stamatis, A. Xenakis, J. V. Sinisterra (2004) "Lipase Factor (LF) as a characterization parameter to explain the catalytic activity of crude lipases from *Candida rugosa*, ATCC 14830, free or immobilized in microemulsion based organogels" *Enzym. Microb. Technol.* 35, 277-283.
62. E. Tzika, V. Papadimitriou, T.G. Sotiroudis, A. Xenakis (2004) "Chemical and enzymatic oxidation of oleuropein: an EPR study" *Chem.Phys.Lipids*. 130, 61.
63. M. Mastorakis, T.G. Sotiroudis, A. Xenakis, & S. Miniadis-Meimaroglou, (2004) "Spectrophotometric analysis of enzymic and non-enzymic oxidation of oleuropein" *Chem. Phys. Lipids*. 130, 58.
64. M. Zoumpantioti, E. Karavas, C. Skopelitis, H. Stamatis, A. Xenakis. (2004) "Lecithin organogels as model carriers of pharmaceuticals" *Progr. Colloid Polym. Sci.*, 123, 199-202.
65. E. Hatzara, E.Karatzas, S. Avramiotis. A. Xenakis (2004) "Spectroscopic mobility probing studies of lecithin organogels" *Progr. Colloid Polym. Sci.*, 123, 94-97.
66. T.G. Sotiroudis, S.A. Kyrtopoulos, A. Xenakis, G.T. Sotiroudis (2003) "Chemopreventive potential of minor components of olive oil against cancer" *Ital. J. Food Sci.* 15, 169-185.
67. C. Delimitsou, M. Zoumpantioti, A. Xenakis, H. Stamatis (2002) "Activity and stability studies of *Mucor miehei* lipase immobilized in novel microemulsion based organogels". *Biocatalysis and Biotransformations*, 20, 319-327.
68. E. Karavas, E. Georgarakis, D. Bikiaris, T. Thomas, V. Catsos, A. Xenakis (2001) "Hydrophilic matrices as carriers in felodipine solid dispersion systems". *Progr. Colloid Polym. Sci.* 118, 149-152.
69. D. Skoutas, D. Haralabopoulos, S. Avramiotis, T.G. Sotiroudis, A. Xenakis (2001) "Virgin Olive Oil: Free Radical Production Studied with Spin Trapping EPR Spectroscopy" *J. Am. Chem. Oil Soc.* 78,1121-5.
70. C. Karapitta, T.G. Sotiroudis, A. Papadimitriou, A. Xenakis (2001) "A homogeneous enzyme immunoassay for triiodothyronine in serum". *Clin.Chem.*, 47, 569-574.
71. C. Karapitta, A. Xenakis, A. Papadimitriou, T.G. Sotiroudis (2001) "A new homogeneous enzyme immunoassay for thyroxine using glycogen phosphorylase b-thyroxine conjugates. *Clin. Chim. Acta*, 308, 99-106.
72. S. Avramiotis, C. Cazianis & A. Xenakis (2000) "Membrane spin-probe in lecithin and AOT water-in-oil microemulsions". *Progr. Colloid Polym. Sci.*,115, 192-5. (
73. A. Pastou, H. Stamatis & A. Xenakis (2000) "Microemulsion-based organogels containing lipase: Application in the synthesis of esters" *Progr. Colloid Polym. Sci.*,115, 196-200.
74. E. Protopapa, H. Geissert, A. Xenakis, S. Avramiotis, N. Stavrianeas, C.E. Sekeris, J. Schenkel & A. Alonso (1999) "The effect of proteolytic enzymes on skin hair follicles of transgenic mice expressing the lac z- protein in cells of the bulge region", *J. Eur. Acad. Dermatol. Venereol.* 13, 28-35.
75. A. Xenakis & H. Stamatis (1999) "Lipase immobilization on microemulsion-based polymer gels" *Progr.Colloid Polym. Sci.*, 112, 132-5.

76. S. Avramiotis, C. Cazianis & A. Xenakis (1999) "Interfacial properties of lecithin microemulsions in the presence of lipase. A membrane spin-probe study" *Langmuir*, 15, 2375-9.
77. H. Stamatis, & A. Xenakis (1999) "Biocatalysis using microemulsion-based polymer gels containing lipase" *J. Mol.Catalysis B: Enzymatic*, 6, 399-406.
78. H. Stamatis, A. Xenakis & F.N. Kolisis (1999) "Biorganic reactions in microemulsions: the case of lipase" *Biotechnol. Advances*. 17, 293-318.
79. M.D. Georgalaki, A. Bachmann, T.G. Sotiroudis, A. Xenakis, A. Porzel and I. Feussner (1998) "Characterization of a 13-lipogygenase from olive oil and oil bodies of olive endosperms" *FETT/Lipid*,100, 554-560.
80. S. Avramiotis, V. Papadimitriou, C.T. Cazianis & A. Xenakis (1998) "EPR studies of proteolytic enzymes in microemulsions" *Colloids Surf.A: Physicochem.Engin.Asp.* 144, 295-304.
81. M.D. Georgalaki, T.G. Sotiroudis & A. Xenakis (1998) "The presence of oxidizing enzyme activities in virgin olive oil" *J. Am. Chem. Oil Soc.* 75, 155-159.
82. S. Avramiotis, V. Bekiari, P. Lianos & A. Xenakis (1997) "Structural and dynamic properties of lecithin- alcohol based w/o microemulsions. A luminescence quenching study." *J. Colloid Interface Sci.* 194,326-331.
83. S. Avramiotis, P. Lianos & A. Xenakis (1997) "Trypsin in lecithin based w/o microemulsions. Fluorescence and enzyme activity studies" *Biocatal. Biotransf.*,14, 299-316.
84. V. Bekiari, P. Lianos, S. Avramiotis, A. Xenakis (1997) "Photophysical studies of aerosol-OT films loaded with biological macromolecules and made from reverse micelles." *Progr.Coll.Polym.Sci.*105, 109-12.
85. S. Avramiotis, H. Stamatis, F.N. Kolisis & A. Xenakis. (1997) "Pseudomonas cepacia lipase localization in lecithin and AOT w/o microemulsions. A fluorescence energy transfer study" *Progr.Colloid Polym.Sci.* 105, 180-183.
86. V. Papadimitriou, A. Xenakis, C.T. Cazianis & F.N. Kolisis (1997) "Structural and catalytic aspects of cutinase in w/o microemulsions" *Colloid Polym. Sci.*, 275, 609-616.
87. V. Papadimitriou, A. Xenakis, C.T. Cazianis, H. Stamatis, M. Egmond & F. Kolisis (1996) "EPR studies of cutinase in microemulsions" *Ann. N.Y. Acad. Sci.* 799, 275-280.
88. S. Avramiotis, H. Stamatis, F.N. Kolisis, P. Lianos & A. Xenakis (1996) "Structural studies of lecithin and AOT based w/o microemulsions, in the presence of lipase" *Langmuir*, 12, 6320-6.
89. S. Avramiotis, A. Xenakis, & P. Lianos (1996) "Lecithin w/o microemulsions as a host for trypsin. Enzyme activity and luminescence decay studies" *Progr.Colloid Polym.Sci.* 100, 286- 289.
90. A. Ballesteros, U. Bornscheuer, A. Capewell, D. Combes, J.S. Condoret, K. Koenig, F.N. Kolisis, A. Marty, U. Menge, T. Scheper, H. Stamatis & A. Xenakis (1995) "Enzymes in non- conventional phases" *Biocatalysis Biotransformations*, 13, 1-42.
91. H. Stamatis, A. Xenakis and F. Kolisis (1995) "Studies on enzyme reuse and product recovery in lipase- catalyzed reactions in microemulsions" *Ann.N.Y. Acad. Sci.* 750, 237-241.

92. V. Papadimitriou, C. Petit, G. Cassin, A. Xenakis and M.P. Pileni (1995) "Lipase catalyzed esterification in AOT reverse micelles: a structural study" *Adv. Colloid Interf. Sci.*, 54, 1-16.
93. H. Stamatis, A. Xenakis, E. Dimitriadis and F.N. Kolisis (1995) "Catalytic behavior of *Pseudomonas cepacia* lipase in w/o microemulsions" *Biotechnol. Bioeng.* 45, 33-41.
94. V. Papadimitriou, C. Petit, A. Xenakis & M.P. Pileni (1994) "Structural modifications of reverse micelles due to enzyme incorporation studied by SAXS" *Progr. Coll. Polym. Sci.* 97, 226-8. (
95. H. Stamatis, A. Xenakis, F.N. Kolisis & A. Malliaris (1994) "Lipase localization in w/o microemulsions studied by fluorescence energy transfer" *Progr. Colloid Polym. Sci.* 97, 253 -255.
96. U. Bornscheuer, H. Stamatis, A. Xenakis, T. Yamane and F.N. Kolisis (1994) "A comparison of different strategies for lipase-catalyzed synthesis of partial glycerides" *Biotechnol. Lett.* 16, 697-702.
97. A. Kokkinia, C. Paleos, A. Malliaris & A. Xenakis (1993) "Self organization in water of bolaform detergents bearing two phosphate groups", *Progr. Colloid Polym. Sci.*, 93, 302-304.
98. H. Stamatis, A. Xenakis, U. Bornscheuer, T. Sheper, U. Menge & F.N. Kolisis (1993). "Pseudomonas cepacia lipase: esterification reactions in AOT microemulsion systems" *Biotechnol. Lett.* 15, 703-708.
99. V. Papadimitriou, A. Xenakis & A.E. Evangelopoulos (1993) "Proteolytic activity in various w/omicroemulsions as related to the polarity of the reaction medium", *Colloids Surf. B. Biointerfaces*, 1, 295-303
100. A. Xenakis, H. Stamatis, A. Malliaris & F.N. Kolisis (1993) "Effect of alcohols on the structure of AOT reverse micelles with respect to different enzyme activity", *Progr. Colloid Polym. Sci.*, 93, 373-376.
101. H. Stamatis, A. Xenakis, U. Menge & F.N. Kolisis (1993) "Kinetic study of lipase catalyzed esterification reactions in microemulsions", *Biotechnol. Bioeng.*, 42, 931-7.
102. H. Stamatis, A. Xenakis & F.N. Kolisis (1993) "Enantiomeric specificity of a lipase from *Penicillium simplicissimum* in the esterification of menthol in microemulsions", *Biotechnol. Lett.* 15, 471-476.
103. A. Xenakis, V. Papadimitriou & P. Lianos (1993) "Enzyme induced percolation of w/o microemulsions", *Progr. Colloid Polym. Sci.*, 93, 370-372.
104. H. Stamatis, A. Xenakis, M. Provelegiou & F.N. Kolisis (1993) "Esterification reactions catalyzed by lipases in microemulsions. The role of enzyme localization in relation to its selectivity" *Biotechnol. Bioeng.*, 42, 103-110.
105. V. Papadimitriou, A. Xenakis & P. Lianos (1993) "Electric percolation of enzyme containing microemulsions", *Langmuir*, 9, 912-915.
106. G. Nika, C.M. Paleos, P. Dais, A. Xenakis & A. Malliaris (1992) "Aggregational behavior of polymeric micelles of methylacrylate functionalized quaternary ammonium salts". *Progr. Colloid Polym.Sci.*, 89, 122-124.
107. A. Xenakis, C. Cazianis & A. Malliaris (1992) "Study of the transition between different structures of some nonionic microemulsion systems". *Colloids Surf.* 62, 315-319.

108. T. Valis, A. Xenakis & F.N. Kolisis (1992) "Comparative studies of Lipase from *Rhizopus delemar* in various microemulsion systems" *Biocatalysis*, 6, 267-279.
109. A. Xenakis, T.P. Valis & F. Kolisis (1991) "Microemulsions as a tool for enzymatic studies. The case of Lipase". *Progr. Colloid Polym. Sci.*, 84, 508-512.
110. T.G. Sotiroudis & A. Xenakis (1990) "PEST sequences present in phosphorylase kinase". *Biochem. Int.*, 21, 941-947.
111. S. Modes, P. Lianos & A. Xenakis (1990) "Relation of the fractal behavior of luminescence quenching with electric percolation in w/o microemulsions" *J. Phys. Chem.* 94, 3363-5.
112. F. Kolisis, T. Valis & A. Xenakis (1990) "Lipase catalyzed esterification of fatty acids in nonionic microemulsions". *An. New York Acad. Sci.*, 613, 674-680.
113. A. Xenakis, C.T. Cazianis & A. Malliaris (1990) "Nonionic microemulsions as model of biosystems studied by probing techniques". *Progr. Colloid Polym. Sci.*, 81, 295.
114. D. Leonidas, N.G. Oikonomakos, A.C. Papageorgiou, A. Xenakis, C. Cazianis & F. Bem. (1990) "The ammonium sulfate activation of Phosphorylase b". *FEBS Lett.* 261, 23-27.
115. C.T. Cazianis & A. Xenakis (1989) "Different spin probe positions related to structural changes of nonionic microemulsions". *Progr. Colloid Polym. Sci.*, 79, 214-217.
116. A. Xenakis, T.P. Valis & F. Kolisis (1989) "Use of microemulsion systems as media in heterogeneous enzymic catalysis". *Progr. Colloid Polym. Sci.*, 79, 88-93.
117. A. Xenakis & C.T. Cazianis (1988) "Solubilization of Phosphorylase into microemulsion droplets. An ESR study. *Progr. Colloid Polym. Sci.*, 76, 159-64.
118. C. Cazianis, A. Xenakis & A. Evangelopoulos (1987) "Spin-label studies of glycogen phosphorylase hosted in microemulsion droplets" *Biochem. Biophys. Res. Commun.* 148, 1151-7.
119. A. Xenakis, C. Selve & C. Tondre (1987) "Transport of alkali-metal ions by a lipophilic crown-ether anchored in a w/o microemulsion droplet", *Talanta*, 34, 509-11. (IF2013 3.511).
120. A. Xenakis & C. Tondre (1987) "Transport of alkali metal picrate ions by microemulsions used as liquid membranes: influence of the nature of the surfactant and co-surfactant", *J. Colloid Interface Sci.*, 117, 442-7. (IF2013 3.552).
121. C. Tondre, A. Xenakis & M. Boumezioud (1986) "Transport of metallic ions by (microemulsion plus complexing agent) systems. Kinetics of complexation in microemulsion phases". *L'Actualité Chimique*, sup. N 10, 78-9. (IF2012 0.086).
122. C. Tondre & A. Xenakis (1986) "Microemulsion droplets as mobile carriers for ion transport through liquid-liquid interfaces. Coupled action with lipophilic crown-ether carriers", *J. Electrochem. Soc.*, 133, C134. (IF2013 2.859).
123. C. Tondre & A. Xenakis (1984) "Use of microemulsions as liquid membranes: improved kinetics of solute transfer at interfaces", *Faraday Disc. Chem. Soc.*, 77, 115-26. (IF 2013 4.194).
124. A. Xenakis & M. Karayannis (1984) "Kinetic assay of sulfonamides by use of the Griess reaction and a stopped-flow procedure", *Anal. Chim. Acta*, 159, 343-7. (IF2013 4.517).

125. A.Xenakis & C.Tondre (1983) "A simple method for determining the anionic surfactant content in microemulsion phases", *J.Colloid Interface Sci.*, 95, 589-91. (IF2013 3.552).
126. A.Xenakis & C.Tondre (1983) "Oil in water microemulsion globules as carriers of lipophilic substances across liquid membranes", *J.Phys.Chem.*, 87, 4737-43. (IF2013 3.377).
127. C.Tondre & A.Xenakis (1982) "Transport of solubilized pyrene by w/o micro emulsions", *Colloid Polym.Sci.*, 260, 232-3. (IF2013 2.41).

2. GREEK JOURNALS

128. S. Avramiotis, E. Protopapa, A. Xenakis, (2005) "Lecithin organogels as drug and cosmetics carriers". *Rev. Clin. Pharmacol. Pharmacokin.*, 23, 199-204.
129. E. Protopapa, A. Xenakis, S. Avramiotis, E. Prodromou & S. Koukaki (1998) "The epilatory effects of trypsin on human skin, applied via lecithin reverse micelles" *Rev.Clin.Pharm.Pharmacokin.* 12, 101-4
130. A. Xenakis (1990) "Microemulsions I. Brief presentation". *Rev. Clin. Pharmacol. Pharmacokin.*, 9, 15-24.
131. A.Xenakis (1990) " Microemulsions II. A new environment for enzymatic studies". *Rev. Clin.Pharmacol. Pharmacokin.*, 9, 25-40.

3. BOOK CHAPTERS - PROCEEDINGS

132. Chatzidaki, M.D, Xenakis A, Food Soft Nano-Dispersions for Bioactive Delivery: General Concepts and Applications *Encyclopedia of Food Chemistry* (2019) 2, 701-707
133. Xenakis, (2012) "Biocatalytic studies in microemulsions and related systems", in "Recent trends in surface and colloid science", Vol. 12, pp. 199-206, Ed. B.Paul, World Sci.Pub. Co. Pvt. Ltd., Singapor
134. A. Xenakis, V. Papadimitriou, H. Stamatis, F. N. Kolis (2009) "Biocatalysis in microemulsions" in "Microemulsions: Properties and Applications" *Surfactant Sci.Ser.*, Vol.144, pp.349-385. Ed. M.Fanun.,CRC Press, Jerusalem, Israel
135. H. Stamatis, A. Xenakis & F.N. Kolis (2001) "Synthesis of Esters Catalyzed by Lipases in w/o Microemulsions", In: *Enzymes in Nonaqueous Solvents : Methods and Protocols* (Methods in Biotechnology, Vol 15) E.Vulfson, P.Halling, H.Holland (Eds). Humana Press, Totowa, NJ. pp. 331-8.
136. M.D.Georgalaki, A.Boehm, T.G.Sotiroudis, A.Xenakis & I.Feussner (1998) "An active linoleate 13- lipoxygenase is found in virgin olive oil", *Advances in Plant Lipids Research*. J.Sanchez, E.Cardas- Olmedo, E.Martinez-Force (eds.) pp. 696-8, Sevilla
137. S.Avramiotis, M.D.Georgalaki, C.T.Cazianis, T.G.Sotiroudis & A.Xenakis, "Free radicals in virgin olive oil: a spin trapping EPR study" in "Lipidforum", pp.61-64, Bergen, 1997.
138. F.N.Kolis, H.Stamatis, and A.Xenakis (1994) "Engineering lipase synthetic ability with the use of microemulsions" *Int.News of Fat, Oils & Related Materials*, 5, 550

139. H.Stamatis, A.Xenakis and F.N.Kolisis (1994), "Studies on the catalytic behavior of P. cepacia lipase in w/o microemulsions" EC-BRIDGE final meeting on Lipases, Bendor island, France, September. Proceedings, p. 100.
140. H.Stamatis, A.Xenakis, F.N.Kolisis, H.Sztajer & U.Menge (1992) "Studies on the specificity of Penicillium simplicissimum lipase catalyzed esterification reactions in microemulsions", in Biocatalysis in Non-Conventional Media, J.Tramper et al.(eds) Elsevier, Amsterdam, 733-8.
141. A.Xenakis, T.Valis & F.Kolisis (1988) "Bioconversion of hydrophilic and hydrophobic compounds by enzyme systems I". "Biotechnology Action Program", Ed. E.Magnien, Com.Eur.Com., 2, 303-7.
142. A. Xenakis, T.Valis, G.Kondelia & F.Kolisis (1988) "Bioconversion of hydrophilic and hydrophobic compounds by enzyme systems II". "Biotechnology Action Program", Ed. E.Magnien, Com.Eur.Com., 2, 445-50.
143. C.Tondre, A.Xenakis, A.Robert & G.Serratrice (1986) "Evidence of structural changes in reverse microemulsion systems formulated with nonionic surfactants", Surfactants in Solution", Ed.K. Mittal & P.Bothorel, 6, 1345-55, Plenum Pub. Co., N.Y.
144. C.Tondre & A.Xenakis (1984) "Transport of solubilized substances by microemulsion droplets", "Surfactants in Solution" Ed.K.Mittal & B.Lindman, 3, 1881-96, Plenum Pub.Co., N.Y.

4. GREEK CONGRESSES-PROCEEDINGS

1. E.Karavas, G.Ktistis, A.Xenakis, E.Georgarakis (2002) "Optimization of the solubility of hydrophobic pharmaceuticals through H-bond interactions" Proc of the 19th Panhellenic Chemistry Congress, pp.524-7.
2. D. Karapitta, T.G. Sotiroudis & A. Xenakis (1999) "A continuous bioluminescent assay of glycogen phosphorylase", Biochem. Biophys. Newslett., 45, 68.
3. D.Charalambopoulos, S.Avraniotis, T.G.Sotiroudis & A.Xenakis (1999) "Detection of free radicals produced in virgin olive oil. A spin trapping and EPR study", Biochem. Biophys. Newslett., 45, 41-42.
4. M.D.Georgalaki, T.G.Sotiroudis & A.Xenakis (1998) "Lipoxygenase is associated with oil body membranes in mature olive endosperms" Biochem.Biophys.Newslett., 43, 19-20
5. M.D.Georgalaki, T.G.Sotiroudis & A.Xenakis.(1996) "Determination of proteins in Greek olive oil" Proc. of the 16th Panhellenic Chemistry Congress, Vol. B, pp.779-782.
6. S.Avraniotis, A.Xenakis & P.Lianos (1996) "Enzymic studies in lecithin microemulsions. Structural aspects". Proc.of the 16th Panhellenic Chemistry Congress, Vol. A, pp.188-191
7. M.D.Georgalaki, T.G.Sotiroudis, A.Xenakis (1996) "The presence of oxidative enzymic activities in virgin olive oil". Proc. symposium "Olive-Olive Oil-Mediterranean Diet", Greek Chem.Soc., pp. 202-3
8. S.Avraniotis & A.Xenakis (1995) "Lecithin based w/o microemulsion systems. A non toxic micro- environment for enzyme studies". Biochem.Biophys.Newslett., 38, 132-3.

9. V.Papadimitriou, A.Xenakis & A.E. Evangelopoulos (1991) "Activity studies of chymotrypsin in microemulsions". *Biochem.Biophys.Newslett.*, 32, 84-86.
10. V.Papadimitriou, A.Xenakis & A.Evangelopoulos (1991) "Enzymatic studies in microemulsions. Effect of reverse micelles on the activity of trypsin" *Biochem.Biophys.Newslett.*, 34, 29-31.
11. H.Stamatis, T.P.Valis, A.Xenakis & F.N.Kolisis (1991) "Lipase catalyzed esterifications in microemulsions". *Biochem.Biophys.Newslett.*, 34, 32-34.
12. A.Xenakis, T.Valis & F.Kolisis (1990) "Reverse micellar enzymology. Lipase catalyzed hydrolysis of triglycerides and synthesis of specific esters". *Biochem.Biophys.Newslett.*, 30, 23-25
13. A. Xenakis (1989) "Enzymic transesterification of fats and oils in microemulsions". *Proc. of the 2 Panhellenic Congress of Food Science & Technology*, pp343-351, Athens.

5. PATENTS

1. Papadimitriou K., Chatzidaki M. D., Alexandraki S., Papadimitriou V., Tsakalidou E., Xenakis A. 2015. "Water-in-oil (W/O) microemulsions as carriers of bacteriocins for the antimicrobial protection of foods" (OBI – 1008858).
2. Chatzidaki M. D., Mitsou E., Theochari I., Papadimitriou V., Xenakis A., 2015. "Edible microemulsions with encapsulated plant extracts as dressing type products" (OBI –1008863).
3. Kalaitzaki A, Xenakis A, Papadimitriou V. (2013) "Biocompatible nanodispersions as media for encapsulating bioactive substances with phytoprotective activity" OBI, 20130100305
4. Filippou C., Xenakis A, Zoumpantioti M. (2013) "Immobilized catalyst in a continuous flow system for the synthesis of high added value products". OBI, 20130100305
5. Protopapa, E.; Xenakis, A.; Avramiotis, S., Sekeris, C. (2001) "Lecithin-based microemulsions containing proteolytic enzymes and method for permanent enzymic depilation" United States Patent, 6,203,791
6. Xenakis, T.G.Sotiroudis & C.Karapitta (2000) "Development of a homogeneous immunoenzymic method for the production of a clinical laboratory kit, for the determination of thyroxine and triiodothyronine in human serum, using polyiodothyronines conjugated to glycogen phosphorylase β . Greek Patent 20000100255
7. Protopapa, E.; Xenakis, A.; Avramiotis, S., Sekeris, C. (1997) "Lecithin-based microemulsions containing proteolytic enzymes and method for permanent enzymic depilation". PCT Int. Appl. WO 9744005 A1.
8. Protopapa, E , Xenakis, A., Avramiotis, S & Sekeris, C. (1996) "Microemulsions based on lecithin and containing α -chymotrypsin or trypsin and method for permanent enzymic depilation" Greek Patent No 1002706/1997