

## Aristotelis Xenakis

### Full list of publications

#### A. INTERNATIONAL JOURNALS

1. G. Vaz, A. Clementino, E. Mitsou, E. Ferrari, F. B., C. Sissa, A. Xenakis, F. Sonvico, C. Dora "In vitro evaluation of curcumin and quercetin loaded nanoemulsions for intranasal administration: effect of surface charge and viscosity" *Pharmaceutics*, (2022) 14, 194 doi.org/10.3390/pharmaceutics14010194
2. E. Mitsou, I. Theochari, E. Vassiliadi, F. Nallet, A. Xenakis, "Short-Wave and Near Infrared  $\pi$ -Conjugated Polymers hosted in a Biocompatible Microemulsion: A Pioneer Approach for Photoacoustic Contrast Agents" *J.Mater.Chem.B* (2022) <https://doi.org/10.1039/D1TB02257A>
3. S. Demisli, M.D. Chatzidaki, A. Xenakis, V. Papadimitriou "Recent progress on nano-carriers fabrication for food applications with special reference to olive oil-based systems" *Curr.Opin.Food Sci.* (2022) 43, 146-154, doi.org/10.1016/j.cofs.2021.11.012
4. I. Theochari, E. Mitsou, I. Nikolic, T. Ilic, V. Dobricic, V. Pletsa, S. Savic, A. Xenakis, V. Papadimitriou, "Colloidal nanodispersions for the topical delivery of Ibuprofen Structure, dynamics and bioperformances" *J.Mol.Liquids* (2021) 334, 116021, doi.org/10.1016/j.molliq.2021.116021
5. I. Theochari, T. Ilic, I. Nicolic, V. Dobricic, A.Tenchiou, D. Papahatjis, S. Savic, A. Xenakis, V. Papadimitriou, V. Pletsa, Evaluation of Oil-In-Water Microemulsions as carriers of lipophilic, cytotoxic compounds for dermal applications (2021) *Biomimetics* 2021, 6, 10. doi:10.3390/biomimetics6010010
6. M. Chatzidaki, I. Kostopoulou, C. Kourtesi, I. Pitterou, S. Avramiotis, A. Xenakis, A. Detsi. "β-Cyclodextrin as carrier of novel antioxidants: A structural and efficacy study". *Colloids and Surfaces A: Physicochemical and Engineering Aspects* (2020) 603, 125262. doi.org/10.1016/j.colsurfa.2020.125262
7. S. Demisli, I. Theochari, P. Christodoulou, M. Zervou, A. Xenakis, V. Papadimitriou. "Structure, activity and dynamics of extra virgin olive oil-in-water nanoemulsions loaded with vitamin D3 and calcium citrate." *Journal of Molecular Liquids* (2020) 112908 DOI: 10.1016/j.molliq.2020.112908
8. S. Demisli, E. Mitsou, V. Pletsa, A. Xenakis, V. Papadimitriou. "Development and Study of Nanoemulsions and Nanoemulsion-Based Hydrogels for the Encapsulation of Lipophilic Compounds". *Nanomaterials* (2020) 10, 2464 doi.org/10.3390/nano10122464

9. E. Vassiliadi, E. Mitsou, S. Avramiotis, C.L. Chochos, F. Pirolt, M. Medebach, O. Glatter, M. Zoumpanioti. "Structural Study of (Hydroxypropyl) Methyl Cellulose Microemulsion-Based Gels Used for Biocompatible Encapsulations". *Nanomaterials* (2020) 10, 2204, doi.org/10.3390/nano10112204
10. E. Mitsou, V. Pletsa, G.T. Sotiroudis, P. Panine, M. Zoumpanioti, A. Xenakis. "Development of a microemulsion for encapsulation and delivery of gallic acid. The role of chitosan". *Colloids and Surfaces B: Biointerfaces* (2020) 190, 110974, doi.org/10.1016/j.colsurfb.2020.110974
11. I. Nikolic, E. Mitsou, I. Pantelic, D. Randjelovic, B. Markovic, V. Papadimitriou, A. Xenakis, D.J. Jasmin Lunter, A. Zugic, S. Savic. "Microstructure and biopharmaceutical performances of curcumin-loaded low-energy nanoemulsions containing eucalyptol and pinene: Terpenes' role overcome penetration enhancement effect?" *European Journal of Pharmaceutical Sciences* (2020) 142, 105135, doi.org/10.1016/j.ejps.2019.105135
12. I. Nikolić, E. Mitsou, A. Damjanović, V. Papadimitriou, J. Antić-Stanković, B. Stanojević, A. Xenakis, S. Savić. "Curcumin-loaded low-energy nanoemulsions: Linking EPR spectroscopy-analysed microstructure and antioxidant potential with in vitro evaluated biological activity." *Journal of Molecular Liquids* (2020) 301, DOI: 10.1016/j.molliq.2020.112479
13. E. Mitsou, A. Dupin, A. H. Sassi, J. Monteil, G.T. Sotiroudis, F. Leal-Calderon, A. Xenakis. "Hydroxytyrosol encapsulated in biocompatible water-in-oil microemulsions: How the structure affects in vitro absorption." *Colloids and Surfaces B: Biointerfaces* (2019) 184, 110482, doi.org/10.1016/j.colsurfb.2019.110482
14. E. Mitsou, E. P. Kalogianni, D. Georgiou, H. Stamatis, A. Xenakis, M. Zoumpanioti. "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, 150-160, doi.org/10.1021/acs.langmuir.8b03124
15. M. D. Chatzidaki, F. Balkiza, E. Gad, V. Alexandraki, S. Avramiotis, M. Georgalaki, V. Papadimitriou, E. Tsakalidou, K. Papadimitriou, A. Xenakis "Reverse micelles as nano-carriers of nisin against foodborne pathogens. Part II: The case of essential oils" *Food Chem.* (2019) 278. 415-423 doi.org/10.1016/j.foodchem.2018.11.078.
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  20. Vassiliadi, A. Xenakis, M. Zoumpantioti, "Chitosan Hydrogels: a New and Simple Matrix for Lipase Catalysed Biosyntheses" *Molecular Catalysis*, (2018) 445, 206 – 212.
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  23. I. Theochari, M. Goulielmaki, D. Danino, V. Papadimitriou, A. Pintzas, A Xenakis, "Drug nanocarriers for cancer chemotherapy based on microemulsions: the case of Vemurafenib analog PLX4720" *Colloids and Surfaces B. Biointerfaces.* (2017) 154, 350-356
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  25. M. Chatzidaki, K. Papadimitriou, V. Alexandraki, E. Tsirovouli, 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
  26. 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.
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