

## Curriculum vitae

Professor Mohamed ZAHOUILY, He works at Faculty of Science and Technology Mohammedia, University Hassan II Casablanca, Morocco. He is Professor and Director of Laboratory for Materials, Catalysis and Valorization of Natural Resource (URAC24) and Director of Natural Resource Valorization Centre in Moroccan Foundation for Advanced Science, Innovation & Research "MAScIR". Professor Zahouily obtained his Ph.D. in organic synthesis from Pierre and Marie Curie University (UPMC-Paris). After his studies, he joined the Institute of experimental Sciences and Chemistry at Fribourg in Switzerland for two years as assistant professor. Main areas of his research include the: i) preparation, properties, and application of nanostructured material, ii) Heterogeneous Catalysis and iii) biomass conversion.

### List of Research Papers (Published between 2010 and 2016)

1. N. El Miri, M. El Achaby, A. Fihri, M. Larzek, M. Zahouily, K. Abdelouahdi, A. Barakat, A. Solhy "Synergistic effect of cellulose nanocrystals/graphene oxidenanosheets as functional hybrid nanofiller for enhancing properties of PVA nanocomposites" ***Carbohydrate Polymers* 2016, 137, 239–248.**
2. M. El Achaby, N. El Miri, A. Snik, M. Zahouily, K. Abdelouahdi, A. Fihri, A. Barakat A. Solhy "Graphene Oxide Reinforced Chitosan/Polyvinylpyrrolidone Polymer BioNanocomposites" ***Journal of Applied Polymer Science* 2016, 133, 42356.**
3. N. El Miri, K. Abdelouahdi, M. Zahouily, A. Fihri, A. Barakat, A. Solhy, M. El Achaby "Bio-nanocomposite films based on cellulose nanocrystals filled polyvinyl alcohol/chitosan polymer blend" ***Journal of Applied Polymer Science* 2015, 132, 42004.**
4. K. Dänoun, I. Jioui, M. Bouhrara, M. Zahouily, A. Solhy, M. Jouiad, C. Len, A. Fihri "Nanostructured Pyrophosphate  $\text{Na}_2\text{CaP}_2\text{O}_7$  as Catalyst for Selective Synthesis of 1,2Disubstituted Benzimidazoles in Pure Water" ***Current Organic Chemistry* 2015, 19, 2132-2140.**
5. N. El Miri, K. Abdelouahdi, A. Barakat, M. Zahouily, A Fihri, A. Solhy, M. El Achaby "Bio-nanocomposite films reinforced with cellulose nanocrystals: Rheology of filmforming solutions, transparency, water vapor barrier and tensile properties of films" ***Carbohydrate Polymers* 2015, 129, 156-167.**

6. Y. Abrouki, A. Anouzla, H. Loukili, R. Lotfi, A. Rayadh, M. A. Bahlaoui, D. Zakarya, M. Zahouily, R. Mamouni, S. Sebti, A. Mandi "An Eco-Friendly Paradigm for the Production of Potentially Anti-Parasitic Drugs" ***American Journal of Environmental Protection. Special Issue: Cleaner and Sustainable Production*** 2015, 4(5-1), 33-36.
7. Y. Benyoussif, S. Aboulhrouz, M. El Achaby, O. Cherkaoui, A. Lallam, M. El Bouchti, M. Zahouily "Preparation and properties of bionanocomposite films reinforced with nanocellulose isolated from moroccan alfa fibres" ***AUTEX Research*** 2015, 15, 164-172.
8. M. El Achaby, Y. Essamlali, N. El Miri, A. Snik, K. Abdelouahdi, A. Fihri, M. Zahouily, A. Solhy "Graphene Oxide Reinforced Chitosan/Polyvinylpyrrolidone Polymer BioNanocomposites" ***Journal of Applied Polymer Science*** 2014, 131, 41042.
9. S. Aboul-Hrouz, M. Oumam, A. Barakat, A. Solhy, M. Zahouily "Adsorbent properties of lignin beads: application to wastewater treatment" ***Mater. Environ. Sci.*** 2014, 5, 2198-2204.
10. Y. Abrouki, A. Anouzla, H. Loukili, J. Bennazha, R. Lotfi, A. Rayadh, My A. Bahlaoui, S. Sebti, D. Zakarya, M. Zahouily "Experimental Design-Based Response Surface Methodology Optimization for Synthesis of  $\beta$ -Mercapto Carbonyl Derivatives as Antimycobacterial Drugs Catalyzed by Calcium Pyrophosphate" ***International Journal of Medicinal Chemistry*** 2014, 1-5.
11. M. Haddam, H. Chimi, A. Antari, M. Zahouily, R. Mohibi, A. Zaz, M. Ibrahimi, A. Amine "Caractérisation physico-chimique et stabilité oxydative des huiles d'olive des variétés Picholine marocaine, Haouzia, Koroneiki et Arbéquine de la région oléicole centrale du Maroc (Chaouia-Ouardigha)" ***Journal officiel du conseil oléicole international*** 2014, 119, 23-35.
12. Y. Abrouki, A. Anouzla, H. Loukili, A. Abrouki, E. Loukili, J. Bennazha, A. Rayadh, S. Sebti, M. Zahouily "The potassium pyrophosphate  $K_2CaP_2O_7$ , a new and efficient catalyst for the conjugate addition of thiols onto chalcones" ***American Journal of Chemistry and Application*** 2014, 1(1): 15-19.
13. M. Lazar, M. Badia, A. Mouzdahir, M. Zahouily "QSAR, Models for New Ferroquine Amine Seconders and Tertiaries Analogues" ***International Journal of Chemistry*** 2014, 35, 2051-2732.
14. M. Lazar, A. Mouzdahir, M. Badia, M. Zahouily "Artemisinin analogues selection in linear and non-linear QSAR" ***Journal of Pharmacy Research*** 2014, 8, 118-122.
15. Y. Abrouki, A. Anouzla, H. Loukili, A. Rayadh, D. Zakarya, M. Zahouily "QSAR for antimycobacterial activity of  $\beta$ -thia adduct of chalcone and diazachalcone derivatives"

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16. W. Amer, K. Abdelouandi, H.R. Ramananarivo, M. Zahouily, A. Solhy "Smart designing of new hybrid materials based on brushitealginate and monetitealginate microspheres: Bioinspired for sequential nucleation and growth" *Materials Science & Engineering* 2014, 35, 341-346.
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23. H. R. Ramananarivo, A. Solhy, J. Sebti, A. Smahi, M. Zahouily, J. Clark, S. Sebti "An Eco-Friendly Paradigm for the Synthesis of  $\alpha$ -Hydroxyphosphonates Using SodiumModified Fluorapatite under Solventless Conditions" *ACS Sustainable Chemistry & Engineering* 2013, 1, 403.
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  28. M. Lazar<sup>1</sup>, A. Mouzdahir, M. Badia, M. Zahouily "Artemisinin analogues selection in linear and non-linear QSAR" *Journal of Pharmacy Research* **2014**, *8(2)*,118-122.
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