

Faculté : Technologie

Laboratoire : Biomatériaux et Phénomènes de Transport LBMPT

Code du laboratoire : 0560100



Equipe : Valorisation et exploitation des Substances Naturelles et des Biopolymères

Code de l'équipe de recherche : 0560106

N	Nom et prénom des auteurs	Titre de l'article	Journal	Catégorie A+/A/ B/C	Lien sur net ou DOI	Année de publication
1	Madiha M. Yahoum, Sonia Lefnaoui, Nadji Moulai-Mostefa,	Design and evaluation of sustained release hydrophilic matrix tablets of Piroxicam based on carboxymethyl xanthan derivatives	Soft Materials	A	https://doi.org/10.1080/1539445X.2020.1789994	2020
2	Sonia Lefnaoui, Samia Rebouh, Mounir Bouhedda, Madiha M. Yahoum	Artificial Neural Network for Modeling Formulation and Drug Permeation of Topical Patches Containing Diclofenac Sodium	Drug Delivery and Translational Research	A	https://doi.org/10.1007/s13346-019-00671-w	2020
3	Sarah Hamiouda, Madiha M. Yahoum, Sonia Lefnaoui, Abdelkader Hadjsadok, Nadji Moulai-Mostefa	New alkylated xanthan gum as amphiphilic derivatives: Synthesis, physicochemical and rheological studies	Journal of Molecular Structure	A	https://doi.org/10.1016/j.molstruc.2020.127768	2020
4	Selma Toumi, Madiha M. Yahoum, Sonia Lefnaoui,	Synthesis, characterization and potential application of hydrophobically modified carrageenan derivatives as pharmaceutical excipients	Carbohydrate Polymers	A+	https://doi.org/10.1016/j.carbpol.2020.116997	2020

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	Abdelkader Hadjsadok					
5	Fouzia Gherrak , Abdelkader Hadjsadok, Sonia Lefnaoui	Implementation and in vitro characterization of calcium-free in situ gelling oral reconstituted suspension for potential overweight treatment	Drug Development and Industrial Pharmacy	A	https://doi.org/10.1080/03639045.2020.1851242	2020
6	Selma Hentabli , Madiha M. Yahoum, Sonia Lefnaoui, Hamza Hentabli	Naomie Salim, Efficient Prediction of In Vitro Piroxicam Release and Diffusion From Topical Films Based on Biopolymers Using Deep Learning Models and Generative Adversarial Networks	Journal of Pharmaceutical Sciences	A	https://doi.org/10.1016/j.xphs.2021.01.032	2021
7	Hamza Benyezza, Mounir Bouhedda, Samia Rebouh	Zoning irrigation smart system based on fuzzy control technology and IoT for water and energy saving	Journal of cleaner production	A+	https://doi.org/10.1080/1539445X.2020.1789994	2021
8	Fatma BOUAZZA., Dahbiya GHERDAOUL., Yamina BEN MIRI., Baya BERKA-ZOUGALI, B., & Aicha HASSANI	Parametric and kinetic modeling, chemical composition, and comparative analyses of Algerian Mentha pulegium L. essential oil extracted from flowers and leaves by hydrodistillation	Notulae Scientia Biologicae	A	https://doi.org/10.55779/nsb14411292	2021

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9	Selma Toumi, Madiha Melha Yahoum, Sonia Lefnaoui, Abdelkader Hadjs adok	Synthesis and physicochemical evaluation of octenylsuccinated kappa-carrageenan: Conventional versus microwave heating	Carbohydra te Polymers	A+	https://doi.org/10.1016/j.carbpol.2022.119310	2022
10	Boudoukhani Meriem, Madiha Melha Yahoum, Sonia Lefnaoui, Marta Ribeiro, Manuel Bañobre- López&Nadji Mou lai-Mostefa	Magnetic ferrogels based on crosslinked xanthan and iron oxides nanoparticles: preparation and physico- chemical characterization	Chemical Engineering Communica tions	A	https://doi.org/10.1080/00986445.2022.2130270	2023
11	S. Mechat, M. Zamouche., H. Tahraoui., O. Filali. , S. Mazouz , I N E. Bouledjemer., Selma Toumi. , Z. Triki., A. Amrane., M. Kebir., S.Lefnaoui, and J. Zhang	Modeling and Optimization of Hybrid Fenton and Ultrasound Process for Crystal Violet Degradation Using AI Techniques	Water	A	https://doi.org/10.3390/w15244274	2023
12	Sid, A.N.E.H.; Kouini, B.; Bezekhami, M.A.; Toumi, S.;	Optimization of Partially Hydrolyzed Polyacrylamide (HPAM) Utilized in Water-Based Mud While Drilling	Processes	A	https://doi.org/10.3390/pr11041133	2023

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	Ouchak, K.; Benfarhat, S.; Tahraoui, H.; Kebir, M.; Amrane, A.; Assadi, A.A.					
13	Hassein-Bey, A.H.; Belhadj, A.- E.; Tahraoui, H.; Toumi, S.; Sid, A.N.E.H.; Kebir, M.; Chebli, D.; Amrane, A.; Zhang, J.; Mouni, L	Experimental Investigation of Fluid Flow through Zinc Open- Cell Foams Produced by the Excess Salt Replication Process and Suitable as a Catalyst in Wastewater Treatment	Water	A	https://doi.org/10.3390/w15071405	2023
14	Sid, A.N.E.H.; Tahraoui, H.; Kebir, M.; Bezzekhami, M.A.; Kouini, B.; Hassein-Bey, A.H.; Selma Toumi.; Amrane, A.; Imessaoudene, A.; Mouni, L	Comparative Investigation of the Effect of Eggshell Powder and Calcium Carbonate as Additives in Eco-Friendly Polymer Drilling Fluids	Sustainability	A	https://doi.org/10.3390/su15043375	2023
15	Hamza Benyezza, Mounir Bouhedda, Samia Rebouh	Smart platform based on IoT and WSN for monitoring and control of a greenhouse in the context of precision agriculture	Journal of Internet of Things	A	https://doi.org/10.1016/j.ijot.2023.100830	2023

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16	Sabrina Farch, MadihaMelhaYahoum, Selma Toumi , Hichem Tahraoui, Sonia Lefnaoui, Mohammed Kebir, Meriem Zamouche, AbdeltifAmrane ,Jie Zhang, Amina Hadadi , Lotfi Mouni,	Application of Walnut Shell Biowaste as an InexpensiveAdsorbent for MethyleneBlue Dye: Isotherms, Kinetics, Thermodynamics, and Modeling	Separations	A	https://doi.org/10.3390/separations10010060	2023
17	Toumi Selma, Yahoum, M.M.; Lefnaoui, Sonia; Hadjsadok, A.; Sid, A.N.E.H.; Hassein-Bey, A.H.; Amrane, A.; Zhang, J.; Assadi, A.A.; Mouni, L	Development of New Alkylated Carrageenan Derivatives: Physicochemical, Rheological, and Emulsification Properties Assessment Topical Patches Containing Diclofenac Sodium	Sustainability	A	https://doi.org/10.3390/su15086473	2023
18	Mechati, S.; Zamouche, M.; Tahraoui, H.; Filali, O.; Mazouz, S.; Bouledjemer, I.N.E.; Toumi, S.; Triki, Z.; Amrane, A.; Kebir, M.;	Modeling and Optimization of Hybrid Fenton and Ultrasound Process for Crystal Violet Degradation Using AI Techniques	Water	A	https:// doi.org/10.3390/w15244274	2023

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	Lefnaoui S.; Jie Zhang					
19	Dehbiya Gherdaoui, Madiha Melha Yahoum, Selma Toumi, Hichem Tahraoui, Fatma Bouazza, Sonia Lefnaoui, Abdelhamid Zeghdaoui, Abdeltif Amrane, Bassem Jaouadi, Jie Zhang	The Effect of the Stationary Phase on Resolution in the HPLC-Based Separation of Racemic Mixtures Using Vancomycin as a Chiral Selector: A Case Study with Profen Nonsteroidal Anti-Inflammatory Drugs	Symmetry	A	https://doi.org/ 10.3390/sym15122154	2023
20	Tahraoui, H.; Toumi Selma; Hassen-Bey, A.H.; Bousselma, A.; Sid, A.N.E.H.; Belhadj, A.-E.; Triki, Z.; Kebir, M.; Amrane, A.; Zhang, J	Advancing Water Quality Research: K-Nearest Neighbor Coupled with the Improved Grey Wolf Optimizer Algorithm Model Unveils New Possibilities for Dry Residue Prediction	Water	A	https://doi.org/10.3390/w15142631	2023
21	AM Halitim, M Bouhedda, S Tchoketch-Kebir, Samia Rebouh	Artificial neural network for tilt compensation in yaw estimation	Transactions of the Institute of Measurement	A	https://doi.org/10.1177/01423312231214832	2023

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22	Hamza Benyezza, Mounir Bouhedda, Reda Kara, Samia Rebouh	Smart platform based on IoT and WSN for monitoring and control of a greenhouse in the context of precision agriculture	Internet of Things	A	https://doi.org/10.1016/j.ijot.2023.100830	2023
23	Madiha Melha Yahoum, Selma Toumi, Hichem Tahraoui, Sonia Lefnaoui, Mohammed Kebir, Abdeltif Amrane, Aymen Amin Assadi, Jie Zhang, Lotfi Mouni	Formulation and Evaluation of Xanthan Gum Microspheres for the Sustained Release of Metformin Hydrochloride	Micromachines	A	https://doi.org/10.3390/mi14030609	2023
24	Yahoum, M.M.; Toumi, S.; Hentabli, S.; Tahraoui, H.; Lefnaoui, S.; Hadjsadok, A.; Amrane, A.; Kebir, M.; Moula, N.; Assadi, A.A.	Experimental Analysis and Neural Network Modeling of the Rheological Behavior of Xanthan Gum and Its Derivatives	Materials	A	https://doi.org/10.3390/ma16072565	2023
25	Ali Mounir Halitim, Mounir	Artificial neural network for tilt compensation in yaw estimation	Transactions of the	A	https://doi.org/10.1177/01423312231214832	2023

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	Bouhedda, Sofiane Tchoketch-Kebir et Samia Rebouh		Institute of Measurement and Control Journal			
26	Yahoum, M.M.; Toumi, S.; Tahraoui, H.; Lefnaoui, S.; Hadjsadok, A.; Amrane, A.; Kebir, M.; Zhang, J.; Assadi, A.A.; Mouni, L	Evaluation of Physicochemical and Amphiphilic Properties of New Xanthan Gum Hydrophobically Functionalized Derivatives	Sustainability	A	https://doi.org/10.3390/su15086345	2023
27	Tahraoui, H., Toumi, Selma, Boudoukhani, M., Touzout, N., Sid, A. N. E. H., Amrane, A.,... & Zhang, J	Evaluating the Effectiveness of Coagulation–Flocculation Treatment Using Aluminum Sulfate on a Polluted Surface Water Source: A Year-Long Study	Water	A	https://doi.org/10.3390/w16030400	2024
28	Ali Mounir Halitim, Mounir Bouhedda, Sofiane Tchoketch-Kebir, Samia Rebouh	Real-Time Implementation of Relative Positioning Approaches Using Low-Cost Single-Frequency GPS Receivers and Raspberry Pi Platform for Agriculture Applications	Journal of Control, Automation and Electrical Systems	B	https://doi.org/10.1007/s40313-024-01069-x	2024

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29	Meriem Boudoukhani, Madiha Melha Yahoum, Kaouther Ezzroug, Selma Toumi, Sonia Lefnaoui, Nadji Moulai-Mostefa, Asma Nour El Houda Sid, Hichem Tahraoui, Mohammed Kebir, Abdeltif Amrane, Bassem Jaouadi, Jie Zhang	Formulation and Characterization of Double Emulsions W/O/W Stabilized by Two Natural Polymers with Two Manufacturing Processes (Comparative Study)	ChemEngineering	A	https://www.mdpi.com/2305-7084/8/2/34	2024
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