



Université Yahia Fares Médéa-FT

Laboratoire de Biomateriaux
& Phénomènes de Transport

**PUBLICATIONS DE RANG A
DU LBMPT 2023 et 2024**

	2023
01	Zeffouni, Z., Cheknane, B., Zermane, F., Hanini, S., Aoudjit, L. and Igoud, S., 2023. Synthesis and characterization of a novel hybrid film based on polyvinyl chloride/modified clays/photosensitizers: application to pollutants photo-degradation. DESALINATION AND WATER TREATMENT, 312, pp.187-197.
02	Triki, Z., Menasri, R., Bouaziz, M.N., Tahraoui, H., Kebir, M., Amrane, A., Zhang, J. and Mouni, L., 2023. Energy and Exergy Analyses of a PWR-Type Nuclear Power Plant Coupled with an ME-TVC-MED Desalination System. Sustainability, 15(10), p.8358.
03	Fergani, Z. and Morosuk, T., 2023. Advanced Exergy-Based Analysis of an Organic Rankine Cycle (ORC) for Waste Heat Recovery. Entropy, 25(10), p.1475.
04	BENYEZZA, Hamza, BOUHEDDA, Mounir, KARA, Reda, et Rebouh Samia, Smart platform based on IoT and WSN for monitoring and control of a greenhouse in the context of precision agriculture. Internet of Things, 2023, vol. 23, p. 100830.
05	Euldji, I., Belghait, A., Si-Moussa, C., Benkortbi, O. and Amrane, A., 2023. A new hybrid quantitative structure property relationships-support vector regression (QSPR-SVR) approach for predicting the solubility of drug compounds in supercritical carbon dioxide. AIChE Journal, 69(8), p.e18115.
06	FARCH, Sabrina, YAHOU, Madiha Melha, TOUMI, Selma, et al. Application of walnut shell biowaste as an inexpensive adsorbent for methylene blue dye: Isotherms, kinetics, thermodynamics, and modeling. Separations, 2023, vol. 10, no 1, p. 60.
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09	Benmouloud, W., Si-Moussa, C. and Benkortbi, O., 2023. Machine learning approach for the prediction of surface tension of binary mixtures containing ionic liquids using σ-profile descriptors. International Journal of Quantum Chemistry, 123(3), p.e27026.
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11	YAHOU, Madiha Melha, TOUMI, Selma, HENTABLI, Salma, et al. Experimental analysis and neural network modeling of the rheological behavior of xanthan gum and its derivatives. Materials, 2023, vol. 16, no 7, p. 2565.
12	YAHOU, Madiha Melha, TOUMI, Selma, TAHRAOUI, Hichem, et al. Formulation and evaluation of xanthan gum microspheres for the sustained release of metformin hydrochloride. Micromachines, 2023, vol. 14, no 3, p. 609.
13	Ghalem, N., Hanini, S., Amrane, A., Hamadache, M., Laidi, M. and Naceur, M.W., 2023. A new comprehensive model of thermal conductivity for hydrofluoroolefins refrigerants using feed-forward back-propagation neural networks. Thermophysics and Aeromechanics, 30(2), pp.367-380.
14	TOUMI, Selma, YAHOU, Madiha Melha, LEFNAOUI, Sonia, et al. Development of New Alkylated Carrageenan Derivatives: Physicochemical, Rheological, and Emulsification Properties Assessment. Sustainability, 2023, vol. 15, no 8, p. 6473.
15	Mibarki, N., Triki, Z., Belhadj, A.E., Tahraoui, H., Amrane, A., Cheikh, S., Hadadi, A., Bouchelkia, N., Kebir, M., Zhang, J. and Assadi, A.A., 2023. Energy and Exergy Analysis of Solar Air Gap Membrane Distillation System for Seawater Desalination. Water, 15(6), p.1201.
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18	Tahraoui, H., Toumi, S., Hassen-Bey, A.H., Bousselma, A., Sid, A.N.E.H., Belhadj, A.E., Triki, Z., Kebir, M., Amrane, A., Zhang, J. and Assadi, A.A., 2023. Advancing Water Quality Research: K-Nearest Neighbor Coupled with the Improved Grey Wolf Optimizer Algorithm Model Unveils New Possibilities for Dry Residue Prediction. <i>Water</i>, 15(14), p.2631.
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21	Triki Z, Fergani Z, Lekmine S, Tahraoui H, Amrane A, Zamouche M, Kebir M, Assadi AA, Khezami L, Zhang J. Numerical Modelling and Performance Evaluation of Vacuum Membrane Distillation for Energy-Efficient Seawater Desalination: Towards Energy-Efficient Solutions. <i>Water</i>. 2023 Jan;15(20):3612.
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23	Madani, A., Benkortbi, O. and Laidi, M., 2023. In silico prediction of the inhibition of new molecules on SARS-CoV-2 3CL protease by using QSAR: PSOSVR approach. <i>Brazilian Journal of Chemical Engineering</i>, pp.1-16.
24	GHERDAOUI, Dehbiya, YAHOU, Madiha Melha, TOUMI, Selma, et al. 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. <i>Symmetry</i>, 2023, vol. 15, no 12, p. 2154.
25	Mibarki, N., Triki, Z., Belhadj, A.E., Tahraoui, H., Zamouche, M., Kebir, M., Amrane, A., Zhang, J. and Mouni, L., 2023. An Effective Standalone Solar Air Gap Membrane Distillation Plant for Saline Water Desalination: Mathematical Model, Optimization. <i>Water</i>, 15(6), p.1141.

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29	HASSEIN-BEY, Amel Hind, BELHADJ, Abd-Elmouneïm, TAHRAOUI, Hichem, et al. 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, 2023, vol. 15, no 7, p. 1405.
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31	SID, Asma Nour El Houda, KOUINI, Benalia, BEZZEKHAMI, Mohammed Amin, et Toumi S. Optimization of Partially Hydrolyzed Polyacrylamide (HPAM) Utilized in Water-Based Mud While Drilling. Processes, 2023, vol. 11, no 4, p. 1133.
32	DAHMANI, Abdennasser, AMMI, Yamina, BAILEK, Nadjem, et al. Assessing the Efficacy of Improved Learning in Hourly Global Irradiance Prediction. Computers, Materials and Continua, 2023, vol. 77, no 2, p. 2579-2594.
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