Faculté : Technologie

Laboratoire : Biomatériaux et Phénomènes de Transport LBMPT

Code du laboratoire : 0560100

Equipe : Chimie Théorique et Computationnelle en Génie des Procédés

Code de l'équipe de recherche : 0560105

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	Soufiane Rahal, Hadidi Noureddine,Mabrouk Hamadache,	In silico prediction of critical micelle concentration (CMC) of classic and extended anionic surfactants from their molecular structural descriptors	Arabian Journal for Science and Engineering	A	https://doi.org/10.1007/s13369-020-04598-0	2020
2	A Ibrir, Y Kerchich, N Hadidi, H Merabet, M Hentabli	Prediction of the concentrations of PM1, PM2. 5, PM4, and PM10 by using the hybrid dragonfly-SVM algorithm	Air Quality, Atmosphere & Health	A	https://link.springer.com/article/10.1007/s11869-020-00936-1	2020
3	A Ibrir, Y Kerchich, N Hadidi, R Rebhi	Evaluation and prediction of the effects of the dispersion of (VOCs) on the population in urban air using ANSYS CFX	Algerian Journal of Environmental Science and Technology	B	https://www.aljest.net/index.php/aljest/article/view/528	2021

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4	A El Bey, M Laidi, A Yettou, S Hanini, A Ibrir, M Hentabli, H Ouldkhaoua	Practical artificial neural network tool for predicting the competitive adsorption of dyes on gemini polymeric nanoarchitecture	Kemija u industriji: Časopis kemičara i kemijskih inženjera Hrvatske	B	https://hrcak.srce.hr/clanak/380340	2021
5	A. Abdallah el Hadj, M. Laidi, S. Hanini	New method based on neuro-fuzzy system and pso algorithm for estimating phase equilibria properties	Chemical Industry and Chemical Engineering Quarterly	A	Doi.org/10.2298/CICEQ201104024A	2021
6	Y. Mesellem, A. Abdallah el Hadj, M. Laidi, S. Hanini, M. Hentabli	Computational intelligence techniques for modeling of dynamic adsorption of organic pollutants on activated carbon	Neural Computing and Applications	A	https://doi.org/10.1007/s00521-021-05890-2	2021
7	Y. Mesellem, A. Abdallah el Hadj, M. Laidi, S. Hanini, M. Hentabli	Artificial Neural Network Modelling of Multi-system Dynamic Adsorption of Organic Pollutants on Activated Carbon	KEMIJA U INDUSTRIJI	B	https://doi.org/10.15255/KUI.2020.011	2021
8	M. Moussaoui, M. Laidi, S. Hanini, A. Abdallah El Hadj, M. Hentabli	Critical Properties and Acentric Factors of Pure Compounds Modelling Based on QSPR-SVM with Dragonfly Algorithm	KEMIJA U INDUSTRIJI	B	https://doi.org/10.15255/KUI.2020.063	2021

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9	M. Moussaoui, M. Laidi, S. Hanini, A. Abdallah El Hadj, M. Hentabli	CMC of diverse Gemini surfactants modeling using a hybrid approach combining SVR-DA	Chemical Industry and Chemical Engineering Quarterly	A	https://doi.org/10.2298/CICEQ200907048L	2021
10	Sarrai Abdelaziz, Belaissa Yahia, Kirdi Rachida, Hanini Salah, Tibor Szabó, László Nagy	Modeling and optimization of Tylosin adsorption using dehydrated wheat bran: adsorption behaviors, kinetic and thermodynamic studies	Reaction Kinetics, Mechanisms and Catalysis	A	DOI: 10.1007/s11144-022-02241-7	2022
11	Amina Ould Larbi, Redha Rebhi, Soufiane Rahal, Giulio Lorenzini, Laidi Maamar, Younes Menni, Hijaz Ahmad	Impact of Non-Newtonian Fluids' Rheological Behavior on Double-Diffusive Natural Convection in an Inclined Square Porous Layer	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	B	https://doi.org/10.37934/arfmts.99.2.1747	2022
12	A. Abdallah el Hadj, M. Laidi, S. Hanini	AI-PCSAFT approach: new high predictive method for estimating PC-SAFT pure component properties and phase equilibria parameters	Fluid Phase Equilibria	A	Doi.org/10.1016/j.fluid.2021.113297	2022

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13	Soufiane Rahal, Mabrouk Hamadache, Hadidi Noureddine, Moulai-Mostefa Nadji	Remediation of crude oil polluted soil using washing process with surfactant in batch reactor	Algerian Journal of Environmental Science and Technology	B	https://www.aljest.net/index.php/aljest/article/view/876	2023
14	Mohamed Hentabli & Salah Hanini Faiza Omari,Latifa Khaouane,Maamar, Laidi, Abdellah Ibrir,Mohamed Roubehie Fissa	Dragonfly algorithm–support vector machine approach for prediction the optical properties of blood	Computer Methods in Biomechanics and Biomedical Engineering	A	https://www.tandfonline.com/doi/abs/10.1080/10255842.2023.2228957	2023
15	R. Moumen, M. Laidi, S. Hanini, M. Hentabli and A. Ibrirb	Multicomponent Adsorption Capacity Forecasting Based on Support Vector Machine with Dragonfly Algorithm	KEMIJA U INDUSTRIJI	B	https://doi.org/10.15255/KUI.2022.048	2023
16	Esam Ahmed Saleh, latifa khaouane, Salah Hanini, Maamar Laidi	Development of Novel Dimensionless Parameters for Accurate Estimation of Properties in Fluidized Beds	Iranian Journal of Chemistry and Chemical Engineering	B	https://www.ijcce.ac.ir/article_709257.html	2023

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17	Abouda L., Azizi A., Hanini S., Moussaoui M., Cherifi H. and Laidi M	Fractional modelling of the reverse osmosis process used for dam water desalination	Global NEST Journal	B	https://journal.gnest.org/sites/default/files/Submissions/gnest_05186/gnest_05186_draft.pdf	2023
18	Boucherit Nabila, Hanini Salah, Ibrir Abdellah,Laidi Maamar, Fissa Mohamed Roubehie	Prediction of doxycycline removal by photo-fenton process using an artificial neural network - multilayer perceptron model	Chemical Industry and Chemical Engineering Quarterly	A	https://doi.org/10.2298/CICEQ230824009B	2024
19	Mohamed Kouider Amar, Soufiane Rahal, Maamar Laidi, Ibtihal Kouar, Rym Farah El-Khansaa Bourahla, Youcef Akouche, Razki Bouaraba	Balancing competing objectives in bigel formulations using many-objective optimization algorithms and different decision-making methods	European Journal of Pharmaceutics and Biopharmaceutics	A	https://www.sciencedirect.com/science/article/abs/pii/S0939641123003314?via%3Dihub	2024

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20	**Nada Boukelkal, Soufiane Rahal, Redha Rebhi, Mabrouk Hamadache**	**QSPR for the prediction of critical micelle concentration of different classes of surfactants using machine learning algorithms**	**Journal of Molecular Graphics and Modelling**	**A**	**https://doi.org/10.1016/j.jmgm.2024.108757**	**2024**